

**REPORT ON PHASE III
ADDITIONAL SITE CHARACTERIZATION
June 2011
FORMER CHEMOIL REFINERY
SLIC No. 453A
SIGNAL HILL, CALIFORNIA**



**VOLUME II
Exhibits 1 through 4**

Prepared for:

**Signal Hill Holding Company
c/o Mr. Harrison Chang
4354 Silva Court
Palo Alto, California 94306**

TEC EARTH SCIENCES AND
ENVIRONMENTAL SPECIALISTS

**REPORT ON PHASE III ADDITIONAL SITE CHARACTERIZATION
JUNE 2011
FORMER CHEMOIL REFINERY
SIGNAL HILL, CALIFORNIA**

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Volume II

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EXHIBIT 1

AGENCY CORRESPONDENCE



Linda S. Adams
Acting Secretary for
Environmental Protection

California Regional Water Quality Control Board Los Angeles Region

320 West Fourth Street, Suite 200, Los Angeles, California 90013
(213) 576-6600 • Fax (213) 576-6640
<http://www.waterboards.ca.gov/losangeles>



Edmund G. Brown Jr.
Governor

JANUARY 31, 2011

Mr. Harrison Chang
Signal Hill Holding Corporation
4354 Silva Court
Palo Alto, CA 94306

Dear Mr. Chang,

SUBJECT: A REMINDER OF ELECTRONIC SUBMITTAL OF INFORMATION (ESI)
REGULATIONS

SITE: FORMER CHEMOIL REFINERY, 2020 WALNUT AVENUE, SIGNAL HILL,
CALIFORNIA (SITE CLEANUP PROGRAM NO. 0453A, SITE ID NO. 2047W00)

We acknowledge that you have been submitting hard copies of the technical reports to the Regional Board for the above-referenced site cleanup case. However, as we reminded you in a Regional Board Order issued on June 10, 2009, you should comply with the State Water Resources Control Board regulations by uploading all electronic submittal of information (ESI) over the internet using the State Water Board GeoTracker data management system. The text of the regulations can be found at the URL:

http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/esi_regs.shtml

The Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date. The required submissions include the followings:

Lab Data:

Analytical data (including geochemical data) for all soil, vapor and water samples that are collected for the purpose of subsurface investigation or remediation are required to be submitted in specified EDF format to a regulatory agency. These data are required to be submitted in electronic format to the State Water Board's Geotracker system via the Internet. Groundwater, soil and vapor samples include: monitor well samples, borehole samples, gas and vapor samples, groundwater grab samples, piezometer samples, stockpile samples and samples from drinking water wells.

Boring Logs and Well Screen Intervals:

Boring logs must be prepared by an appropriate registered professional and need to be submitted in PDF format. If a monitor well is installed, the screen depth and interval must be reported.

Depth to Water Data:

Monitor wells need to have the depth-to-water information reported in the GEO_WELL file whenever the data is collected, even if the well is not actually sampled during the sampling event. Drinking water wells generally do not need to have the depth to water reported unless they are surveyed as permanent sampling points. A permanent sampling point is defined as a point that is sampled for more than a 30-day period.

Location Data:

If samples from the permanent sampling locations are included in a regulatory report to a regulatory agency as part of a cleanup program, these sampling points must be surveyed. This would typically include any groundwater or similar monitoring points at the site or any drinking water wells that are included in the regulatory report. The surveyed locational information for these sampling points should be submitted using the Geo_XY file. Transient or one-time sampling points (e.g. direct push technologies, piezometers, or grab samples often used for rapid site characterization, stockpile sampling points...) do not need to be surveyed. Permanent influent/effluent sampling locations do need to be surveyed as well. Transient sampling point (a point that is sampled for less than 30 days) are not required to be surveyed.

Elevation Data:

Elevation measurements to the top of groundwater well casings are required for all groundwater monitoring wells (to be submitted as part of the GEO_Z file). Drinking water wells included in the report, do not need to have the elevation reported unless they are identified as permanent sampling points.

Site Map:

An electronic generalized site plan map is required to be submitted into the State database (GEO_MAP). Site map should display tank locations, streets bordering the facility, and sampling locations for all soil, water and vapor samples. The site map is a stand-alone document that may be submitted in various formats. Additional updated site map may be submitted at any time.

Paperless Reporting Requirement:

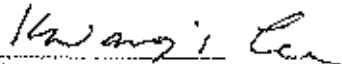
Starting on January 1, 2005, a complete copy of all clean-up and monitoring reports must be submitted to GeoTracker. This uploaded PDF report may include the signed transmittal letter, professional certification and all data that are uploaded into the GeoTracker.

The survey data (latitude/longitude and elevation), depth-to-water, and site map information files must be submitted as required to the SWRCB's GeoTracker database via the Internet in accordance with the Geotracker XYZ survey Guidelines and Restrictions.

We require you to upload all reports and correspondence prepared to date in to GeoTracker data management system. **By March 1, 2011**, we require you to complete electronic submission for the reports/work plans dated from January 2008 through December 2010.

Should you have any questions, please contact Ms. Ann Lin by phone at (213) 576-6781 or email at alin@waterboards.ca.gov.

Sincerely,


Dr. Kwangil Lee, P.E.
Unit Chief of Site Cleanup Program IV
California Regional Water Quality Control Board
Los Angeles Region

cc: Rick McAuley, MPO Walnut Partners, LLC. rick@aztecgrp.com
Stephen Testa, Testa Environmental Corporation. stesta@goldrush.com



California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
CalVEPA Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: <http://www.waterboards.ca.gov/losangeles>

Arnold Schwarzenegger
Governor

January 26, 2009

Mr. Harrison Chang
Signal Hill Holding Corporation
4354 Silva Court
Palo Alto, CA 94306

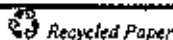
APPROVAL OF PROPOSED PHASE III WORKPLAN FOR FORMER CHEMOIL REFINERY, 2020 WALNUT AVENUE, SIGNAL HILL, CALIFORNIA (SITE CLEANUP PROGRAM NO. 0453A, SITE ID NO. 2047W00)

Dear Mr. Chang:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) received a report titled "*Proposed Phase III Workplan, Former Chemoil Refinery (Workplan)*" dated January 4, 2010, prepared by Testa Environmental Corporation (TEC) on behalf of Signal Hill Holding Corporation (SHHC). The Workplan was prepared in response to the comments made by Regional Board staff during the November 16, 2009 meeting, regarding your planned activities for the former Chemoil refinery site located in Signal Hill, California. In the Workplan, you proposed to (1) conduct additional environmental assessment to determine potential off-site hydrocarbon source(s); (2) characterize soil stockpiles situated in the southern portion of the Eastern Parcel; (3) install three new offsite groundwater monitoring wells from south and southwest of the Western Parcel to delineate the lateral extent of the dissolved hydrocarbon plume; (4) conduct soil and groundwater sampling; (5) perform forensic and plume stability analysis; (6) conduct soil gas survey immediately south of the site, and to revise and update human health risk assessment; (7) update Site Conceptual Model; and (8) prepare a comprehensive Phase III report.

The former Chemoil refinery site (Site) encompasses two parcels: the Eastern Parcel encompasses approximately 2.5 and the Western Parcel encompasses approximately 5.7 acres. The Subject Property is situated in what is referred to as the Civic Center Neighborhood, and has been an open field since 2001. Subsurface investigations have been performed since 1985. Previous site investigations indicate that hydrocarbon-impacted soil extends from ground surface to the water table (approximately 17 feet to 42 feet below ground surface). Dissolved hydrocarbons (TPH diesel, TPH gasoline, benzene and several volatile and semi-volatile organic compounds) were reported in groundwater beneath the Subject Property with a general flow toward the south. The extent of light non-aqueous phase hydrocarbon liquid (LNAPL) has not been fully delineated beneath the Subject Property.

California Environmental Protection Agency



Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

January 26, 2010

Based on our review of the Workplan, we concur with your proposed scope of work. You are required to submit a technical report providing the results of additional soil gas survey and revised human health risk assessment by **March 1, 2010**; and, you are required to submit a Phase III Report including the additional environmental assessment, soil stockpiles characterization, soil and groundwater sampling results, forensic and plume stability analysis results, and the updated Site Conceptual Model by **April 1, 2010**.

State Water Resources Control Board (State Water Board) adopted regulations requiring the electronic submittals of information over the internet using the State Water Board GeoTracker data management system. You are required to comply by uploading all reports and correspondence prepared to date on to the GeoTracker data management system. The text of the regulations can be found at the URL:

http://www.waterboards.ca.gov/ust/cleanup/electronic_reporting/docs/final_electronic_regs_dec04.pdf.

If you have any questions, please contact Ms. Ann Lin at (213) 576-6781 or me at (213) 576-6734.

Sincerely,


Kwangil Lee, Ph.D., P.E.
Unit Chief
Site Cleanup Unit IV

cc: Rick McAuley, MPO Walnut Partners, LLC. rick@aztecgrp.com
Stephen Testa, Testa Environmental Corporation. stesta@goldrush.com
Patrick West, City Manager, City of Long Beach
City of Signal Hill, publicworks@cityofsignalhill.org

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California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
Cal/EPA Secretary

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Arnold Schwarzenegger
Governor

May 20, 2009

Mr. Harrison Chang
Signal Hill Holding Corporation
4354 Silva Court
Palo Alto, CA 94306

**APPROVAL OF TIME EXTENSION REQUEST FOR SUBMITTING A REPORT ON PHASE II
ADDITIONAL SITE CHARACTERIZATION PURSUANT TO CALIFORNIA WATER CODE
SECTION 13267, FORMER CHEMOIL REFINERY, 2020 WALNUT AVENUE, SIGNAL HILL,
CALIFORNIA (SITE CLEANUP PROGRAM NO. 0453A, SITE ID NO. 2047W00)**

Dear Mr. Chang:

On April 17, 2009, we received a time extension request from your consultant, Mr. Stephen Testa of Testa Environmental Corporation (TEC), for additional time to complete the requirements in our March 24, 2009 Order with a due date of May 31, 2009. Mr. Testa proposed that the Phase II Report be submitted no later than July 31, 2009, to allow TEC to obtain access approval on proposed offsite wells, to work out field scheduling, and provide time to prepare a comprehensive report including results of soil gas survey completed in April 2009, and address comments from third-party review.

We hereby grant your request and extend the deadline for a *Conceptual Site Model and Phase II Report* from May 31, 2009 to July 31, 2009, with the understanding that you will provide a comprehensive technical evaluation for the site based on all data generated to date by SHHC and other parties over the last two decades, and meet the extended timeframe. The due date extension is an amendment to the existing California Water Code (CWC) section 13267 Order issued by this Regional Board on March 24, 2009.

Should you have any questions, you must immediately contact Ms. Ann Lin by phone at (213) 576-6781 or through email at alin@waterboards.ca.gov.

Sincerely,


Tracy J. Goscue
Executive Officer

cc: Stephen Testa, Testa Environmental Corporation. stesta@goldrush.com
Rick McAuley, MPO Walnut Partners, LLP. rick@aztecgrp.com

California Environmental Protection Agency

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California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
CalEPA Secretary

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Arnold Schwarzenegger
Governor

March 24, 2009

Mr. Harrison Chang
Signal Hill Holding Corporation
4354 Silva Court
Palo Alto, CA 94306

REQUIREMENT FOR PHASE II SOIL AND GROUNDWATER INVESTIGATION PURSUANT TO CALIFORNIA WATER CODE SECTION 13267, CONDITIONAL APPROVAL OF WELL ABANDONMENT, WELL INSTALLATION, AND SOIL AND GROUNDWATER SAMPLING, FORMER CHEMOIL REFINERY, 2020 WALNUT AVENUE, SIGNAL HILL, CALIFORNIA (SITE CLEANUP PROGRAM NO. 0453A, SITE ID NO. 2047W00)

Dear Mr. Chang:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) received a report titled "*Report on Phase I Additional Site Characterization*" dated February 2, 2009, and "*Proposed Phase II Workplan, Former Chemoil Refinery, Signal Hill, California*" dated March 2, 2009, prepared by Testa Environmental Corporation (TEC) on behalf of Signal Hill Holding Corporation (SHHC), in response to the California Water Code section 13267 Order issued by the Executive Officer of this Regional Board on November 19, 2008. You propose seven tasks with a time line in the *Phase II Work Plan* to provide data necessary to complete an evaluation of current site conditions. Due to missing key technical information (e.g., figure, conceptual site model), your work plan does not meet our standards and we consider your submittal incomplete. However, considering the urgency of on- and off-site characterization and the sensitive receptors (e.g., residential houses), we continued our review to expedite the field work at the site.

The former Chemoil refinery site (Subject Property) encompasses two parcels: the Eastern Parcel encompasses approximately 2.5 and the Western Parcel encompasses approximately 5.7 acres. The Subject Property is situated in what is referred to as the Civic Center Neighborhood, and has been an open field since 2001. Subsurface investigations have been performed since 1985. Previous site investigations indicate that hydrocarbon-impacted soil extends from ground surface to the water table (approximately 17 feet to 42 feet below ground surface). Dissolved hydrocarbons (TPH diesel, TPH gasoline, benzene and several volatile and semi-volatile organic compounds) were reported in groundwater beneath the Subject Property with a general flow toward the south. The extent of light non-aqueous phase hydrocarbon liquid (LNAPL) has not been fully delineated beneath the Subject Property.

Based on our review of the document submitted, you failed to address the data gaps, or to develop a conceptual site model (CSM) as required in the November 19, 2008 Order, as follows:

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- A site conceptual model was not reported, with graphic illustrations depicting site-specific hydro-geological condition, source(s), and the lateral and vertical extent of contaminants based on actual analytical data from the subject area, and its vicinities.
- The Phase II Work Plan did not address on-site and off-site data gaps, nor present an adequate groundwater monitoring network program.

Despite those delinquencies, we have determined that the field work proposed in the *Phase II Work Plan* must be performed. Therefore, we concur with your proposed well abandonment, well installation, soil and groundwater sampling tasks, with the following conditions:

1. As an addendum to the *Phase II Work Plan*, you are required to prepare and submit a detailed CSM. At a meeting scheduled with the Regional Board staff in early April 2009, we expect you to present and discuss your CSM, and staff will specify a due date for documentation of the CSM at the meeting.
2. Well abandonment and installation of replacement wells for former groundwater monitoring well MW-7, and former LNAPL recovery wells R-4, R-5, and R-6 shall be performed and reported by the end of May 2009. We concur with the proposed locations of well MW-13 to replace MW-7, well MW-11 to replace R-4, MW-12 to replace R-5, and MW-14 to replace R-6.
3. Installation of additional offsite ground monitoring wells MW-15 and MW-16 shall be performed and reported by the end of May 2009.
4. In addition to your proposed soil and groundwater sampling, you must submit, by April 30, 2009, a proposed soil gas survey work plan for all areas with potential receptors, including schools, residential areas. A soil gas survey at a 5-foot depth is required to be performed in at least these four locations: MW-12, MW-13, MW-14, MW-15, and MW-16, and expanded to areas with potential receptors.
5. You are required to report the status of the *Remediation Plan* that the Regional Board approved on March 26, 2002.

Pursuant to Section 13267 of the California Water Code, you are hereby directed to submit a soil gas survey work plan by April 30, 2009, a technical report to summarize well abandonment, well installation, sampling results of soil, soil gas, and groundwater by May 31, 2009, and an addendum to this Phase II Work Plan providing CSM by the due date determined in the April 2009 meeting. Furthermore, pursuant to California Water Code section 13268(b)(1), failure or refusal to submit the required technical reports by the deadline above may result in the Regional Board imposing administrative civil liability of up to \$1,000 for each day the report is not received after the deadline. These civil liabilities may be assessed by the Regional Board for failure to comply, beginning with the date the violations first occurred, and without further warning.

Please note that, on January 21, 2009, MPO Walnut Partners, LLC, one of the current land owners of the Subject Property, contacted the Regional Board and expressed its concerns on the lack of progress of site investigation and cleanup. We are also concerned that there could be potential human health risk since

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Mr. Harrison Chang
Signal Hill Holding Corporation

- 3 -

March 24, 2009

potential sensitive receptors are within a few tens of feet to the south of Subject Property, down gradient from the Subject Property.

RIGHT TO PETITION

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Your immediate attention is required. Should you have any questions, you must immediately contact Ms. Ann Lin by phone at (213) 576-6781 or through email at alin@waterboards.ca.gov.

Sincerely,



 Tracy J. Egoscue
Executive Officer

cc: Rick McAuley, MPO Walnut Partners, LLC. rick@aztecgrp.com
Stephen Testa, Testa Environmental Corporation. stesta@goldrush.com
Patrick West, City Manager, City of Long Beach
City of Signal Hill, publicworks@cityofsignalhill.org

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California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
CalEPA Secretary

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Arnold Schwarzenegger
Governor

January 26, 2009

Mr. Harrison Chang
Signal Hill Holding Corporation
4354 Silva Court
Palo Alto, CA 94306

APPROVAL OF TIME EXTENSION REQUEST FOR SUBMITTING A REQUIRED TECHNICAL REPORT FOR SOIL AND GROUNDWATER REMEDIATION PURSUANT TO CALIFORNIA WATER CODE SECTION 13267, FORMER CHEMOIL REFINERY, 2020 WALNUT AVENUE, SIGNAL HILL, CALIFORNIA (SITE CLEANUP PROGRAM NO. 0435A, SITE ID NO. 2047W00)

Dear Mr. Chang:

On January 14, 2009, we received a time extension request from your consultant, Mr. Stephen Testa of TEC, for additional time to complete the requirements in our November 19, 2008, Order with a due date of January 15, 2009. In TEC's letter, Mr. Testa admitted that he failed to notice the requirements for submission of a Phase I report and a Phase II Work Plan and the due date. He also indicated that he needs to collect information pertaining to the identity of the responsible parties, and resolve with the Signal Hill Holding Company (SHHC) legal counsel. Mr. Testa proposed that the Phase I Report be submitted no later than Monday, February 2, 2009; and, the Phase II Work Plan, including a conceptual site model be submitted no later than March 1, 2009.

We hereby grant your request and extend the deadline for a *Phase I Report* from January 15, 2009 to **February 2, 2009**; and for a *Conceptual Site Model and Phase II Work Plan* from January 15, 2009 to **March 1, 2009**, with the understanding that you will provide a comprehensive report/work plan as you proposed and meet the extended timeframe. A figure illustrating land uses within a one-mile radius from the subject property is required to be submitted with the Phase I Report which is due February 2, 2009.

These due date extensions are modifications to the existing California Water Code (CWC) section 13267 Order issued by the Executive Officer of this Regional Board on November 19, 2008.

Please note that in January 2009, MPO Walnut Partners, LLP (MPO) contacted this Regional Board. It is our understanding that MPO owns three small parcels that are part of the former ChemOil refinery. MPO has asked to be included in any future correspondence between SHHC and this Regional Board regarding remediation efforts for the subject property. Therefore, we require that you include MPO in your distribution list for future correspondence.

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Mr. Harrison Chang
Signal Hill Holding Corporation

- 2 -

January 26, 2009

Your immediate attention is required. Should you have any questions, you must immediately contact Ms. Ann Lin by phone at (213) 576-6781 or through email at alin@waterboards.ca.gov.

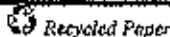
Sincerely,



Tracy J. Ego
Executive Officer

cc: Stephen Testa, Testa Environmental Corporation. stesta@goldrush.com
Rick McAuley, MPO Walnut Partners, LLP. rick@aztecgrp.com

California Environmental Protection Agency



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California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
CalVEPA Secretary

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Arnold Schwarzenegger
Governor

November 19, 2008

Mr. Harrison Chang
Signal Hill Holding Corporation
4354 Silva Court
Palo Alto, CA 94306

REQUIREMENT FOR TECHNICAL REPORT PURSUANT TO CALIFORNIA WATER CODE SECTION 13267, 'CONDITIONAL APPROVAL OF WORKPLAN TO ASSESS DATA GAPS FOR SOIL AND GROUNDWATER REMEDIATION, FORMER CHEMOIL REFINERY, 2020 WALNUT AVENUE, SIGNAL HILL, CALIFORNIA (SITE CLEANUP PROGRAM NO. 0435A, SITE ID NO. 2047W00)

Dear Mr. Chang:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) received a report titled as "*Revised Proposed Workplan, Former Chemoil Refinery, Signal Hill, California*" dated October 12, 2008, prepared by Tests Environmental Corporation (TEC) on behalf of Signal Hill Holding Corporation (SHHC). This work plan was modified from a previous plan submitted on September 15, 2008, to reflect the comments provided in an email between Regional Board staff and TEC on September 29, 2008.

In the workplan you propose to address onsite and offsite data gaps, identify areas requiring further clarification and assessment, and identify data/activities needed for developing a technically feasible and sound site closure strategy. TEC proposed the work to be performed in two phases.

BACKGROUND

The site, on 6.45 acre, has been an open field (Subject Property) since 2001, and is located in an industrial, commercial, and residential mix-zone in Signal Hill. Subsurface investigations have been performed since 1985. Previous site investigations indicate that hydrocarbon-impacted soil extends from ground surface to the water table which is at a depth 18 feet below ground surface.

COMMENTS

The Regional Board staff has reviewed the revised proposed work plan, as well as the *Report on Quarterly Groundwater Quality Monitoring Program October 2008* dated October 15, 2008, and has the following comments:

1. We concur with proposed tasks No. 1 & 2 for identifying responsible parties and evaluating groundwater flow direction. As you proposed, we expect you to submit the results in a Phase I Report by January 15, 2009. In particular, you are required to illustrate residential land use

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November 19, 2008

within a 1-mile radius from the Subject Property, on a scaled groundwater contour map, to be submitted in the Phase I Report.

2. As stated in our letter dated January 8, 2002 (copy attached), the Regional Board requires replacement wells for MW-7, R-4, R-5, and R-6. However, no drilling work plan was submitted to the Regional Board subsequent to the January 2002 letter. Hence, we require a groundwater monitoring well installation work plan to be submitted by January 15, 2009. This work plan shall include a site conceptual model with graphic illustrations depicting site-specific hydro-geological condition, source(s), and the lateral and vertical extent of contaminants based on actual analytical data from the subject area and its vicinities. The required work plan shall address on-site and off-site data gaps, and propose drilling and sampling activities to re-establish adequate groundwater monitoring network. A detailed sampling and analysis plan is also required to be submitted in this work plan. Reporting limits for each analyte shall be tabulated and compared with California Maximum Contaminant Level (MCL) in order to ensure all reporting limits are equal or less than MCLs.

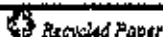
REQUIREMENTS

Pursuant to Section 13267 of the California Water Code, you are hereby directed to submit by January 15, 2009 a *Phase I Report/Well Installation Work Plan* to address data gaps for developing site closure strategy. Furthermore, pursuant to California Water Code section 13268(b)(1), failure or refusal to submit the required technical reports by the deadline above may result in the Regional Board imposing administrative civil liability of up to \$1,000 for each day the report is not received after the deadline. These civil liabilities may be assessed by the Regional Board for failure to comply, beginning with the date the violations first occurred, and without further warning.

RIGHT TO PETITION

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

California Environmental Protection Agency



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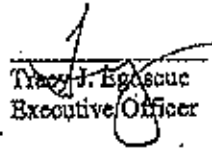
Mr. Harrison Chang
Signal Hill Holding Corporation

- 3 -

November 19, 2008

Your immediate attention is required. Should you have any questions, you must immediately contact Ms. Ann Lin by phone at (213) 576-6781 or through email at alin@waterboards.ca.gov.

Sincerely,


Tracy J. Egoscue
Executive Officer

Enclosed - Regional Board Letter, *Review of Proposal for Subsurface Assessment at Western Parcel*
dated January 8, 2002.

cc: Stephen Testa, Testa Environmental Corporation. stesta@goldrush.com

California Environmental Protection Agency



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H. Hickox
Secretary for
Environmental
Protection

Los Angeles Region

Over 50 Years Serving Coastal Los Angeles and Ventura Counties
Recipient of the 2001 Environmental Leadership Award from Keep California Beautiful

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640
Internet Address: <http://www.swrcb.ca.gov/rwqcb4>



Gray Davis
Governor

May 8, 2002

Mr. Ken Ezoe
Signal Hill Holding Corporation
2365 East Sepulveda Boulevard
Long Beach, CA 90810-1944

**PROPOSED REMEDIAL ACTION PLAN
FORMER CHEMOIL REFINERY - EASTERN PARCEL, SIGNAL HILL, CALIFORNIA,
DECEMBER 14, 2001 (SLIC NO. 453A)**

Dear Mr. Ezoe:

The Los Angeles Regional Water Quality Control Board (Regional Board) staff has received and reviewed the March 26, 2002 "Proposed Remedial Action Plan (RAP)" prepared by your consultant, Testa Environmental Corporation, for the referenced site. Based on our review of the document, you are authorized to implement the RAP, provided the following conditions are met:

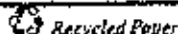
1. When our Regional Board adopted a "Sources of Drinking Water" policy in 1989, we were concerned about shortages of water in the Los Angeles Region, and therefore all inland groundwaters are considered to be sources of drinking water, as designated in the Water Quality Control Plan (Basin Plan). No exclusions were made on the basis of salinity. Accordingly, our Basin Plan (which incorporates the Sources of Drinking Water policy) does not exclude protection of groundwaters on the basis of total dissolved solids (TDS) levels.

As a final point, we again point out that beneficial uses are designated on the basis of existing and future use. We recognize that there may be areas of groundwater in the Wilmington, Signal Hill, and Long Beach areas that may have TDS values exceeding 3,000 mg/L. This may be due to one or a combination of several factors, such as: past historical petroleum exploration, production and refining activities; and contamination from nonpoint sources (e.g. infiltration of contaminated runoff from agricultural activities and from industrial and urban activities). Elevated TDS levels due to these factors cannot be used as a reason not to remediate a contaminated site, unless the discharger believes that cleanup is technologically and/or economically infeasible and is not consistent with maximum benefit to the people of the state. In such a case, a discharger would need to comply with containment zone requirements set forth in State Water Resources Control Board Resolution 92-49 (Attachment D).

As such, your cleanup goals for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) shall follow Table 4-1 Maximum Soil Screening Levels (mg/kg) for TPH and BTEX above Drinking Water Aquifers in our Interim Site Assessment & Cleanup Guidebook (May, 1996).

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May 8, 2002

2. Given the current groundwater depth at approximately 29 feet below ground surface, the cleanup levels for TPH, and BTEX shall be as follows:

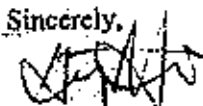
Benzene	0.011 mg/kg
Toluene	0.45 mg/kg
Ethylbenzene	2 mg/kg
Xylenes	5.3 mg/kg
TPH (C4 - C12)	100 mg/kg
TPH (C13 - C22)	100 mg/kg
TPH (C23 - C32)	1,000 mg/kg

3. The depth of excavation shall be determined by the extent of contamination above the cleanup levels.
4. A minimum of one soil sample shall be collected from the vicinity of former Tanks No. 14 and No. 15 for Polycyclic Aromatic Hydrocarbons (PAHs) screening using EPA Method 8310. The detection limits shall be sufficiently low for the evaluation of human health protection.
5. As required for other technical work performed at the site, all work must be performed by or under the direction of a registered geologist, certified engineering geologist, or registered civil engineer. A statement is required in the report that the registered professional in direct responsible charge actually supervised or personally conducted all the work associated with the project. All technical submittals must contain a wet ink signature and seal by one of the registered professionals.
6. Notify the Regional Board three working days in advance so the Regional Board staff can be present on site for site inspection.

Please submit a Soil Remediation Report by September 16, 2002.

Should you have any questions, please contact me at (213) 576-6736.

Sincerely,



G. Jeffrey Hu, P.E.
Water Resource Control Engineer
Site Cleanup I Unit

/cc: Stephen M. Testa

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Secretary for
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Gray Davis
Governor

January 8, 2002

Mr. Ted Chrestensen
Chemoil Corporation
2365 E. Sepulveda Boulevard
Long Beach, CA 90810-1944

REVIEW OF PROPOSAL FOR SUBSURFACE ASSESSMENT AT WESTERN PARCEL - CHEMOIL REFINERY - 2020 WALNUT AVENUE, SIGNAL HILL, CALIFORNIA 93033 (SLC NO. 453A)

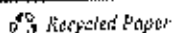
Dear Mr. Chrestensen:

The Los Angeles Regional Water Quality Control Board (Regional Board) staff has received and reviewed the Proposed Workplan for Subsurface Assessment at Western Parcel (Work Plan), dated November 18, 2001, prepared by Testa Environmental Corporation (TEC). The Work Plan proposes that all existing groundwater monitoring wells on the western portion of the site (Western Parcel), bounded by Walnut Avenue, 20th Street, and Gundry Avenue, will be measured and sampled. Four soil borings will be drilled on the subparcels of the Western Parcel and two soil borings will be drilled off site. Based on our review, you are authorized to implement the Work Plan with the following conditions:

1. The groundwater monitoring well, MW-7, and former recovery well, R-6, can not be abandoned because the previous investigation indicated that the groundwater up-gradient of these two wells is contaminated with total petroleum hydrocarbons (TPHs) and volatile organic compounds (VOCs). Therefore, MW-7 and R-6 shall be included in the survey and groundwater sampling plan.
2. Additional soil borings on the northern portion of the Western Parcel, which is defined as two separate subparcels in Figure No. 1 in the Work Plan, shall be drilled in the oil and grease area, and on the former tank area. At least one background soil sample away from the suspected source area shall be collected for comparison purposes.
3. All soil borings proposed within the Western Parcel and off-site must be drilled to the water table. Soil shall be sampled at depths of 1 foot below ground surface (bgs), 5 feet bgs, and at every 5 feet thereafter until groundwater is reached for each boring location. Groundwater samples must be collected at all boring locations by hydropunch.
4. To fully delineate the groundwater contamination plume on the Western Parcel and off-site toward the residential area south of 20th Street, more off-site groundwater and soil data are necessary. Based on the proposed locations at B-1 and B-2, off-site of the southwestern boundary of the Western Parcel, B-1 is approximately 300 feet away from the southwestern corner of the Site. The location of B-1 shall be adjusted relative to the locations of former borings GP-1, GP-2, and GP-3. One more

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January 8, 2002

soil boring shall be proposed down-gradient of R-6. All the soil borings off-site from the southwestern boundary of the Site must be converted into groundwater monitoring wells.

5. Proposed soil boring identification numbers, B-1, B-2, B-3, and B-4 on the subparcels at the Western Parcel, and B-1 and B-2 for the off-site borings, were used in the previous investigation, and are being repeated. Do not reuse identifications that have already been used. The reuse of the identifications can easily lead to confusion. You are required to re-number your proposed borings in order to avoid confusion.
6. If free product is detected in any groundwater monitoring well during this investigation, free product must be recovered by hand-bailing immediately. The bailed free product must be properly contained and disposed of. A free product recovery progress report including, but not limited to, the volume of free product bailed, constituents of contamination, product thickness before and after recovery, shall be submitted to the Regional Board along with next groundwater monitoring report.
7. Permits for groundwater sampling associated with soil borings shall be obtained from applicable regulatory agencies.
8. Groundwater and soil samples shall be analyzed by a laboratory certified to do the analyses by the State of California. Laboratory reports and method detection limits (MDL) for soil and groundwater samples shall meet the requirements specified in the Regional Board May 1996, *Interim Site Assessment & Cleanup Guidebook*, Appendix B.
9. All soil and groundwater samples must be analyzed for volatile organic compounds (VOCs) by using EPA Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270B, total petroleum hydrocarbons (TPHs) by EPA Method 8015M, and metals by EPA Method 6010B.
10. A map illustrating all soil borings from previous investigations and showing the analytical results shall be prepared for the Regional Board's review. The horizontal and vertical extent of the soil and groundwater plumes must be defined with isoc concentration contour using all available data in separate maps.
11. Please notify the Regional Board at least 10 working days prior to the start of field work.
12. Prior to the commencement of any field work, a site-specific Health and Safety Plan (H&SP) shall be prepared in accordance with Section 5192 of the California Code of Regulations (CCR), Title 8. The jurisdictional agency, the California Occupational Safety and Health Administration (Ca-OSHA), may inspect the drilling and sampling activities. The H&SP was not included in the Work Plan, a final copy of the H&SP, with signatures of all workers involved with the drilling and sampling activities, shall be submitted to the Regional Board prior to the start of field work.
13. In the Regional Board's letter, dated September 12, 2001, you were requested to monitor the groundwater quality quarterly for the entire site, including the Eastern and Western Parcels, by sampling all existing groundwater monitoring wells on-site and off-site. Groundwater monitoring

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Mr. Ted Chrestensen
Chevron Corporation

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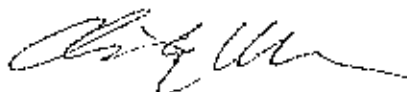
January 8, 2002

wells on the Eastern Parcel shall be sampled within the first quarter of 2002, and the report shall be submitted by the date specified in the September 12, 2002 letter.

14. A report summarizing all soil and groundwater sampling data collected during this investigation and the previous soil boring investigation on the Western Parcel, and the quarterly groundwater monitoring report for the Eastern Parcel, shall be submitted to the Regional Board by April 15, 2002. The reports shall include the conclusions from this investigation, recommendations for additional investigations and plans for site remediation, as needed.

Please address all the comments above. If you have any questions, please contact Dr. Eric Wu at (213) 576-6743.

Sincerely,

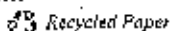


C. Eric Wu, Ph.D., P.E.
Site Cleanup Unit

cc: Mr. Stephen Testa, Testa Environmental Corp., 19814 Jesus Maria Rd., Mokelumne Hill, CA 95245

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Gray Davis
Governor

September 12, 2001

Mr. Ted Chrestensen
Chemoil Corporation
2365 E. Sepulveda Boulevard
Long Beach, CA 90810-1944

REVIEW OF SUBSURFACE INVESTIGATION REPORTS AND GROUNDWATER MONITORING REPORTS - CHEMOIL REFINERY - 2020 WALNUT AVENUE, SIGNAL HILL, CALIFORNIA 93033 (SLIC NO. 453A)

Dear Mr. Chrestensen:

The Los Angeles Regional Water Quality Control Board (Regional Board) staff has received and reviewed the following reports:

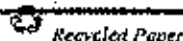
- Additional Subsurface Assessment, dated August 1994, prepared by Testa Environmental Corporation (TEC),
- Additional Subsurface Assessment and Groundwater Monitoring, dated May 1999, prepared by TEC, and
- Biannual Interim Monitoring Report, dated July 1997, prepared by TEC.

Based on our review, we have the following comments:

1. You are required to submit information to show the depth to the drinking water aquifer, and a scaled map showing the locations of the production wells and surface water bodies within a one-mile radius of the site. The production well information must include the following: the well owner, the well identification number, well construction detail, and the status of the well.
2. The Regional Board requires a complete characterization of both soil and groundwater quality at the site, and remediation if necessary. Soil and groundwater contamination shall be delineated laterally and vertically to non-detect level. You are also required to develop site-specific soil cleanup levels by using the on-site data in accordance with the Regional Board's *Interim Site Assessment and Cleanup Guidebook*, dated May 1996.
3. At least one groundwater monitoring well at the hot spot is required to vertically define the thickness of the groundwater contamination plume. More groundwater monitoring wells shall be installed off-site to the southwestern edge of the property near 20th Street.
4. Groundwater collected from monitoring well MW-9, located near the western fence of the northern portion of the property, contains elevated concentrations of total petroleum hydrocarbons (TPHs), benzene, toluene, ethylbenzene, xylenes, and methyl tertiary butyl ether (MTBE). MW-9 is also possibly situated on a free product plume, and can not be considered as the background well.

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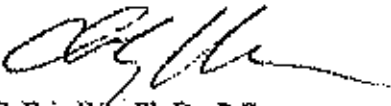
September 12, 2001

5. All soil and groundwater samples must be analyzed for volatile organic compounds (VOCs) by using EPA Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270B, total petroleum hydrocarbons (TPHs) by EPA Method 8015M, and metals by EPA Method 6010B.
6. The horizontal and vertical extent of the soil and groundwater plumes must be defined with isoconcentration maps using all available data.
7. It appears that there are reports in addition to those that have been submitted to the Regional Board. Please provide a list of reports for previous investigations and remedial activities.
8. Free product detected at several locations on site must be recovered by hand-bailing immediately. The next investigation report must include information on the thickness of free product before and after recovery, volume bailed, and the composition of free product.
9. The quarterly groundwater monitoring program must be resumed. The quarterly groundwater monitoring report must be submitted by the fifteenth day following the end of the quarter, as shown in the following schedule with the first monitoring report due **January 15, 2002**:

<u>Report Period</u>	<u>Report Due Date</u>
January - March	April 15 th
April - June	July 15 th
July - September	October 15 th
October - December	January 15 th

As agreed during the meeting of August 30, 2001, at the Regional Board, groundwater samples will be collected and analyzed from all existing groundwater monitoring wells. A work plan, addressing all the comments above, for the property at east of the Walnut Avenue shall be submitted to the Regional Board by **September 20, 2001**. A work plan for the leased properties and the rest of the site must be submitted to the Regional Board by **November 1, 2001**. If you have any questions, please contact Dr. Eric Wu at (213) 576-6743.

Sincerely,



C. Eric Wu, Ph.D., P.E.
Site Cleanup I Unit

cc: Mr. Stephen Testa, Testa Environmental Corp., 19814 Jesus Maria Rd., Mokelumne Hill, CA 95245

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Peter M. Rooney
Secretary for
Environmental
Protection

California Regional Water Quality Control Board

Los Angeles Region

Internet Address: <http://www.swrqcb.ca.gov>
101 Centre Plaza Drive, Monterey Park, California 91754-5709
Phone (323) 266-7500 • FAX (323) 266-7555



Pete Wilson
Governor

August 17, 1998

Mr. Ken Ezoa
Chemoil Refinery Corporation
2366 East Sepulveda Boulevard
Long Beach, CA 90810-1944

CHEMOIL REFINERY, 2020 WALNUT AVENUE, SIGNAL HILL - REMEDIATION ACTIVITIES (FILE NO. 95-18)

We have received and reviewed your "Report on Additional Subsurface Assessment and Groundwater Monitoring" dated May 1998, submitted for the above-referenced site. The report transmits the results from the most recent site assessment activities completed, which includes the results from the soil matrix and groundwater samples collected at the site. Chemoil has ceased operation of the refinery and has initiated dismantling activities of some of the equipment and above and below ground structures at the site. Your consultant requested that this Regional Board issue a site closure letter and requested that the LNAPL monitoring and recovery program and the groundwater monitoring program be formally discontinued and wells abandoned at this time.

Analyses of the soil matrix samples collected during this phase of site assessment activities indicated that soil contaminated with petroleum hydrocarbons, primarily gasoline, diesel, and BTEX at levels exceeding our cleanup levels still remain, extending from ground surface to the groundwater table, and is considered a continuing threat to the underlying groundwater quality. Analyses of the groundwater samples collected from 7 groundwater monitoring wells located at the subject site during this phase of monitoring activities have detected petroleum hydrocarbons, with maximum concentrations of 21,500 µg/L (gasoline), 31,000 µg/L (diesel), 627 µg/L (benzene), 85 µg/L (toluene), 667 µg/L (ethylbenzene), and 807 µg/L (xylenes).

Based on the information submitted to date, we have determined that the concentrations detected in the underlying soil and groundwater exceed allowable levels and that the petroleum contaminated soil is a continuing source of groundwater contamination and needs to be remediated. At a minimum, a work plan for the remediation of the contaminated soil shall be submitted to this Regional Board by September 30, 1998, for our review. Once the soil is remediated, the need for groundwater remediation will be evaluated. The need to remediate the underlying groundwater will be determined following the review of the results from the soil remediation activities and additional groundwater monitoring data. In the interim, maintain all existing groundwater monitoring wells and sample the wells on an annual basis until soil remediation activities are completed.

Your consultant requested a meeting with Regional Board staff to discuss site closure considerations and requirements and we are willing to meet with representatives from Chemoil to

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Mr. Ezoe

- 2 -

August 17, 1998

discuss these issues. Please contact Ana Veloz-Townsend at (523) 266-7590 to schedule a date for this meeting and/or if you have any question regarding the above-mentioned information.



J.E. ROSS, Unit Chief
Site Cleanup Unit

cc: Inspector Tom Hayes, City of Long Beach Fire Department
Carmen Piro, Long Beach Health Department
Steve Testa, Testa Environmental

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION

SOUTH BROADWAY, SUITE 4027
ANGELES CALIFORNIA 90012-4596
12131 620-4460



June 24, 1985

Mr. Ted Christensen, Refining Manager
Macmillan Ring-Free Oil Company
2020 West Walnut Avenue
Signal Hill, CA 90806

OIL REFINERY WATER QUALITY INVESTIGATIONS (FILE 85-15)

Your response to this Board's Order No. 85-17 requiring you to submit a technical report and detailed plan for conducting water quality investigations has been reviewed. As submitted, the workplan is quite inadequate. We do acknowledge however that much of the data we believe should be in an assessment of the magnitude required by our Order may have been obtained but not submitted for our review, hence, collection of that data was omitted from the workplan submitted. (For example, the "information currently available" to your consultant mentioned on page 5 of the workplan could be relevant.)

A complete site assessment will need to include information as to water quality data, the subsurface geology and hydrogeology with emphasis on the shallower aquifer systems, groundwater flow and direction in the upper aquifers, current and proposed construction of the wells, and a history of the site. Specific items that should be included are as follows:

- a) Facility maps must be submitted. The maps should locate all existing surface structures. The location and depths of any underground storage tanks should be indicated. Any present or previous locations of land-farms, oil sumps, or landfills should be noted.
- b) The locations of all existing water or oil production wells (if any) at the refinery should be submitted. A description of the present use of the well, an analysis of a representative sample of water from all water wells and a copy of the well log should be submitted.
- c) A hydrogeologic analysis of the vertical and lateral extent of the water bearing strata which could be affected by present or possible future hydrocarbon pollution in the near vicinity of your facility should be submitted.
- d) An estimate of the groundwater flow and direction in any perched water system, and the principle aquifer below the facility should be submitted.
- e) A determination of the water quality in the principle aquifer below the facility and any perched water system which is found should be submitted. Of particular interest are those aquifers which extend beyond the boundaries of the facility.

- f) A description of monitoring to be done to detect subsurface hydrocarbons including vadose zone monitoring, sampling methodology, sampling frequency, the chemical constituents analyzed, and the analytical methodology are needed. Note: The initial analysis parameters of the groundwater should include priority pollutant volatile organics and any other volatiles detected, general chemical constituents (EC, CL, SO₄, IDS, pH, etc.), heavy metals, TOC, oil and grease, and TOX as a minimum.
- g) As complete a history as possible of the site is required. Past owners and past practices including disposal, hazardous waste storage locations, spills, and cleanups, and water sampling analyses will help establish areas of concern and assist us in determining the unique characteristics of your facility.

Below are some comments on your specific plan:

- 1) Board staff should be consulted regarding the locations of monitoring wells to prevent unnecessary drilling.
- 2) Depending on the groundwater flow direction, presence or absence of perched aquifers, etc., one upgradient well may not be sufficient.
- 3) We prefer that drilling fluids not be used in order to make well development easier.
- 4) On page 3 of the workplan it is stated that, "No solvents or glue will be used." On page 7 you talk about "Limiting the use of PVC glues or other potential contaminants in monitoring well construction." We wish that no solvents or glues are used.
- 5) We suggest soil samples be obtained every five feet or less during drilling. Samples indicating the possible presence of hydrocarbons should be sealed and tested individually.
- 6) Our experience is that it will probably require more time than three weeks to receive lab results if an outside laboratory is utilized.
- 7) Attached is a table prepared in part by the Department of Health Services (DHS) which indicates some (not all) appropriate laboratory procedures. The sensitivities proposed in your workplan are inadequate since those detection limits are above DHS action levels in some cases. Also, all groundwater wells will be sampled.

Further recommendations and requirements may be made subsequent to receipt of your revised workplan.

When you submit your revised plan to us, please submit a copy to:

Department of Health Services
Toxics Substances Control Division
107 S. Broadway, Room 7011
Los Angeles, CA 90012
Attn: Mr. Ric Notini

The department will submit their comments to the Board. They will be incorporated with our review comments and submitted to you.

You are directed to submit your revised workplan to us by July 16, 1985.

If you have any further questions regarding this matter, please call Mr. Frank Mele at (213) 620-4699 or me at (213) 5320.



RAYMOND K. DELACOURT
Senior Water Resource
Control Engineer

FM/pl

cc: Department of Health Services
Attn: Mr. Ric Notini

TABLE 1

SUGGESTED CONTAMINANT SURVEY PARAMETERS

<u>PARAMETER</u>	<u>SOIL</u>	<u>LIQUID HC</u>	<u>METHOD</u>	<u>GROUNDWATER</u>
Total Organic Carbon	Proposed EPA Method 9060	Proposed EPA Method 9060	EPA Method 415.1	
Oil & Grease	Standard Method 503	Standard Method 503	EPA Method 413.1	
(If TOC cannot be done)	--	--	EPA Method 325.1, .2, or .3	
Chlorides	--	--	EPA Method 375.4	
Sulfates				
Phenols	EPA Method 8040	EPA Method 8040	EPA Method 420.1	
Volatile Organics	EPA Method 8240	EPA Method 8240	EPA Method	
Total Organic Halogens	EPA Method 9020 with extraction	EPA Method 9020 with extraction	EPA Method 9020	
Metals				
Arsenic	EPA Method 3050	EPA Method 3050	EPA Method 206.2	
Cadmium	EPA Method 3050	EPA Method 3050	EPA Method 7131	
Chromium	EPA Method 3050	EPA Method 3050	EPA Method 218.1	
Cobalt	EPA Method 3050	EPA Method 3050	EPA Method 219.1	
Cyanide	EPA Method 3050	EPA Method 3050	EPA Method 335.3 or .2	
Lead	EPA Method 3050	EPA Method 3050	EPA Method 239.1	
Mercury	EPA Method 7470 or 7471	EPA Method 7470 or 7471	EPA Method 245.1	
Molybdenum	EPA Method 3050	EPA Method 3050	EPA Method 246.1	
Nickel	EPA Method 3050	EPA Method 3050	EPA Method 248.1	
Selenium	EPA Method 3050	EPA Method 3050	EPA Method 270.2	
Vanadium	EPA Method 3050	EPA Method 3050	EPA Method 286.1	
Zinc	EPA Method 3050	EPA Method 3050	EPA Method 289.1	
pH			EPA Method 150.1	
Specific Conductance			EPA Method 120.1	

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1225 West Main, Suite 215

Norman, Oklahoma 73069

Phone (405) 329-8300

July 18, 1985

Mr. Raymond Delacourt
California Regional Water Quality Control Board
Los Angeles Region
107 South Broadway, Suite 4027
Los Angeles, California 90012-4596

Gentlemen:

Engineering Enterprises, Inc. is providing supplemental information for MacMillan Ring-Free Oil Company in response to your letter of June 24, 1985 concerning the Work Plan submitted to satisfy Order No. 85-17.

We have responded to each of the general and specific comments you had concerning the April, 1985 Work Plan. Much of the information requested concerning the hydrogeology of the site will only be available after the investigation is completed and the data evaluated. All information will be included in the final report documenting the site assessment.

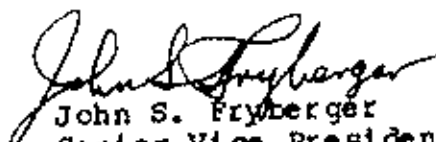
We would like to meet with you to discuss our approach to the investigations at the refineries where we are working at 1 p.m. July 30.

Mr. Raymond Delacourt
July 18, 1985
Page Two

Upon approval of the Work Plan incorporating this addendum, the full investigation will be initiated. We are confident that the sampling, analyses, hydraulic testing, data evaluation, and final report can be completed in the 90 day period provided for in Order No. 85-17. If you have any questions, please contact UB.

Sincerely,

Steven B. Blake, Hydrologist
Senior Project Coordinator


John S. Fryberger
Senior Vice President
Registered Engineering Geologist
State of California

SBB:vdk

Enclosure

cc: MacMillan Ring-Free Oil Company
Mike Paczkowski
Department of Health Sciences

WORK PLAN ADDENDUM
OIL REFINERY WATER QUALITY INVESTIGATION
(CHNOQB ORDER NO. 85-17)

GENERAL

- a. Enclosed is a facility map showing the detailed location of all surface structures.

There are no landfills or landfarms on the facility. There are no unlined oil storage areas (oil surges) within the refinery. All petroleum liquid storage is in tanks or lined structures.

- b. There are no water well or oil production wells on the facility.

c,d,& e. A hydrogeologic evaluation of the aquifer underlying the facility will be conducted as outlined in our original work plan of April, 1985. Groundwater flow and direction will be addressed within the context of this study. The regional hydrogeology and other deeper aquifers will be addressed as to the potential impact of the facility. The vertical and lateral extent of the regional water bearing aquifers will be addressed.

- f. Vadoze zone and groundwater sampling procedures are presented in the March, 1985 Work Plan (page 7). Intervals for split spoon sampling are addressed in item #5 below.

The groundwater sampling frequency will be dependent upon the results of the overall groundwater assessment and the

initial round of sampling. If contamination is detected in the initial round, then additional sampling will be required to confirm the problem and determine if it is a significant deviation from background conditions, a result of laboratory or sampling error, or a nonsignificant deviation. Based on these results a long term monitoring program will be implemented, if necessary. If contamination is detected in an aquifer of relatively rapid groundwater flow with the potential for affecting other supplies, a high sampling frequency will be required. On the other hand, if no contamination is detected in an aquifer of low permeability with no potential for affecting other supplies, then a lower frequency would be warranted. Regardless of the results, the final sampling frequency will be developed after the site assessment and in cooperation with the CRWQCB.

The water samples will be analyzed for priority pollutant volatile organics general chemical constituents (EC, Chloride, Sulfate, TDS, pH, iron manganese, heavy metals, TOC, oils and grease, and TOX. All laboratory procedures for analysis of the parameters will be done in accordance with the latest accepted EPA methodology and guidelines provided by the Department of Health Services.

- g. It is our understanding that the facility history is to be included as a part of the final technical report. As complete a facility history as possible will be compiled concerning past owners, and waste handling practices.

Specific Topics

1. The locations of the wells to be constructed at the facility were presented in the March, 1985 Work Plan. Once these wells have been drilled, surveyed, gauged, and water samples obtained and analyzed according to the proposed plan, we will have sufficient data to evaluate if additional work is required. We will most definitely meet with CRWQCB representatives to discuss any further action based on these results.
2. If there are multiple perched zones or complex gradients requiring more than one upgradient well, these will be taken into account after all of the initial work has been implemented. However, we cannot account for these factors based on the limited site specific data now available prior to implementation of the gauging, sampling and overall site assessment.
3. As per our March, 1985 Work Plan, we do not plan on using drilling fluids unless absolutely necessary. The wells will be installed by hollow stem auger methods.
4. The March, 1985 Work Plan specifies flush joint threaded, screen and casing. No Solvents or glues will be used.
5. Split spoon samples will be taken at 2 foot intervals from ground surface to a depth of 15 feet. Each sample will be collected and sealed individually. Chain of custody forms will be filled out on each sample to be analysed. As

indicated in the March, 1985 Work Plan, these samples will be "initially" screened for the presence of organic vapors with an HNU photoionization unit. Those samples where organic vapors are detected or samples showing visible signs of contamination, will be sealed and stored for laboratory analysis.

From a depth of 15 feet to the total completion depth of the hole, samples will be taken at 5 foot intervals.

6. We are confident that the site assessment outlined by the April, 1985 Work Plan and this addendum can be completed within the 90 day time frame even if additional time is required for turnaround on lab results.
7. Sampling and analysis methodologies were addressed in item "f" above. The monitoring wells installed for the site assessment will all be sampled. If additional wells are required for delineation of mobile liquid hydrocarbons, the groundwater in these wells will be sampled on a selected basis. More wells may be needed for delineation of the liquid hydrocarbons than for delineation of dissolved contamination. We will consult with the CRWQCB as to which wells require sampling.

EXHIBIT 2

Maps Showing Underground Pipelines

D7

GU

INC
ST

WALK

TWENTY-FIRST

STREET

BEACH

RAILWAY

DRIVE

RIGHT

Westly

STREET

AVE

07

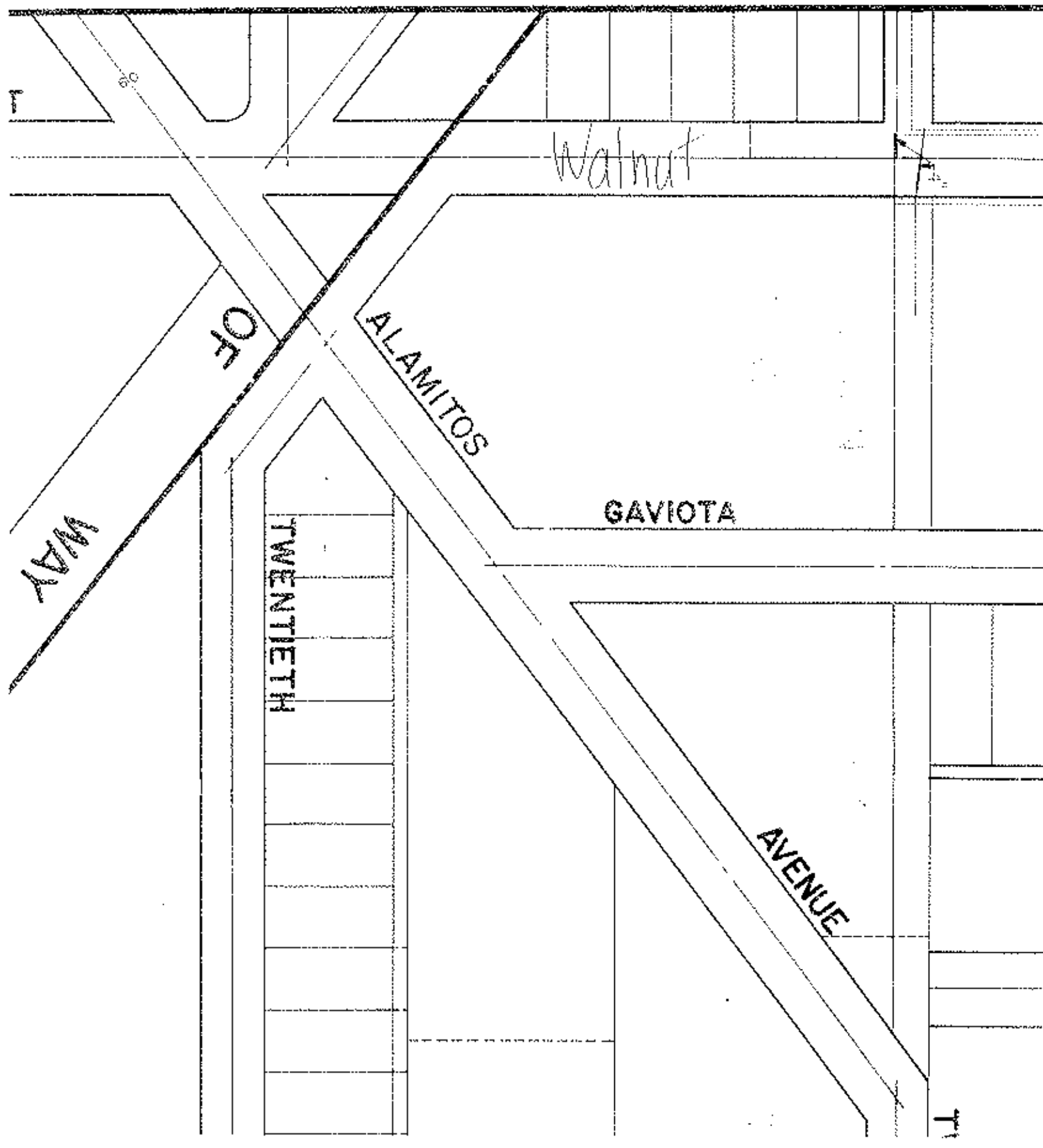


EXHIBIT 3

BORING LOGS AND WELL CONSTRUCTION DATA

EXHIBIT 3 – PART I

BORING LOGS (EEI,1987)

BORING: B-1

PROJECT NAME: MAGUIHAN ROAD - FEET		PROJECT NO. 517-251
LOCATION COORDINATES: 15' North East of Lock 24		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	SAMPLING METHOD: Hand Auger (HA)
INITIATED: 9-21-87	DEPTH: no groundwater encountered	DRILLING CO: NA
COMPLETED: 9-21-87	DATE:	DRILLED BY: John Wilfong
BACKFILLED: 9-25-87	TIME:	LOGGED BY: Bang Hayes
GROUND ELEVATION: NA	BORING DEPTH: 100'	SHEET 1 OF 3

DEPTH IN FEET	SAMPLE DATA						SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE				USCS	SYMBOL		
0							ML		SANDY SILT; light to medium brown; moist; some very fine to fine sand; little clay; slightly moist	
5										
10	S-1-10		HA				SP		SAND; light brown/gray; very fine to fine; slightly moist	
15										
20										
25										
30										

BORING: B-2

PROJECT NAME: NAUSEETAN RIVER - BRIT		PROJECT NO. 917-751
LOCATION COORDINATES: 101 North East of Lake 15		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-21-87	DEPTH: (see immediately adjacent boring)	
COMPLETED: 9-21-87	DATE:	
BACKFILLED: 9-25-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	SHEET 1 OF 1
SAMPLING METHOD: Hand Auger (H)		
DRILLING CO: NA		
DRILLED BY: Doug Hayes		
LOGGED BY: John McKinney		

DEPTH IN FEET	SAMPLE DATA						SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE				USCS	SYMBOL		
0										
8										
10	S-2-10		HA				CI		CLAY SAND: Fine to medium sand with fine to fine, some silt; moderate to slight hydric carbon color; slightly moist	
15										
20										
25										
30										

 Denotes Laboratory Sample Interval

BORING: B-3

PROJECT NAME: MACILLAN BLVD. TRUL		PROJECT NO. 512-258
LOCATION COORDINATES:		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	SAMPLING METHOD: Hand Auger (BA)
INITIATED: 9-21-87	DEPTH: no groundwater encountered	DRILLING CO: NA
COMPLETED: 9-21-87	DATE:	DRILLED BY: Ronny Hayes
BACKFILLED: 9-25-87	TIME:	LOGGED BY: John H. Hines
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	SHEET 3 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0								Asphaltic Material on Surface	
1	S-1		BA			SL		SLTY SAND: Medium brown/gray; fine to very fine; micaceous; slight hydric carbon color; slightly moist	
2									
3									
4									
5									
6									
7									
8									
9									
10	S-2-10		BA			SP		SANDY SILT: Light to medium brown; mottled; and very fine to fine; sand; little clay; slightly moist	
11								SAND: Medium gray; very fine to fine; micaceous; slightly moist	
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

BORING: B-4

PROJECT NAME: MACILLAN RING - FEET

PROJECT NO. 537-751

LOCATION COORDINATES: 20' North East of Point 117

RIG TYPE: Hand Auger

SCHEDULE

WATER LEVEL

INITIATED: 9-24-87

DEPTH: no groundwater encountered

COMPLETED: 9-26-87

DATE:

BACKFILLED: 9-25-87

TIME:

SAMPLING METHOD: Hand Auger

DRILLING CO: BA

DRILLED BY: John McHenry

LOGGED BY: Doug Hayes

GROUND ELEVATION: 11A

BORING DEPTH: 30.0'

SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0									
5									
10	S-4-10		11A						
15									
20									
25									
30									

Denotes Laboratory Sample Interval

BORING: B-5

PROJECT NAME: MACMILLAN RING - FREE

PROJECT NO. 512-251

LOCATION COORDINATES:

RIG TYPE: Hand Auger

SCHEDULE

WATER LEVEL

INITIATED: 9-21-87

DEPTH: no groundwater encountered

COMPLETED: 9-21-87

DATE:

BACKFILLED: 9-25-87

TIME:

GROUND ELEVATION: NA

BORING DEPTH: 10.0'

SAMPLING METHOD: Hand Auger

DRILLING CO: NA

DRILLED BY: Doug Hayes

LOGGED BY: John Whitney

SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA						SOIL TYPE	SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE						
0	S-1	0.0	HA				CL	SANDY CLAY. Dark gray; black mottled stain to 1.0'; some very fine to fine sand; strong hydrocarbon odor; slightly moist	
8							ML	SANDY SILT: Medium gray; and fine to very fine sand; slight hydrocarbon odor; decreasing sand downward; slightly moist	
10	S-2	10.0	HA						
15									
20									
25									
30									

Denotes Laboratory Sample Interval

BORING: B-6

PROJECT NAME: <u>WACHILEAN RTIR. - TRILL</u>		PROJECT NO. <u>517-753</u>
LOCATION COORDINATES: <u>51 West of Jack 129</u>		RIG TYPE: <u>Hand Auger</u>
SCHEDULE	WATER LEVEL	
INITIATED: <u>9-21-87</u>	DEPTH: <u>no groundwater encountered</u>	
COMPLETED: <u>9-21-87</u>	DATE:	
BACKFILLED: <u>9-25-87</u>	TIME:	
GROUND ELEVATION: <u>NA</u>	BORING DEPTH: <u>0.00'</u>	SHEET <u>1</u> OF <u>1</u>

TH FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0	5- 8-11		HA			SC		SILTY SAND: Below ground to very fine and silty fine hydric carbon and organic (0.5%) slightly moist	
6									
10	5- 6-10		HA					FINE TO MEDIUM GRAIN SILTY SAND	
25									
30									

BORING: B-7

PROJECT NAME: NACHTIGALL REEF - P101		PROJECT NO. 513-251	
LOCATION COORDINATES: 10° Southeast of Buck 113		RIG TYPE: Hand Auger	
SCHEDULE		SAMPLING METHOD: Hand Auger, 150'	
INITIATED: 9-21-87	DEPTH: no groundwater encountered	DRILLING CO: NA	
COMPLETED: 9-21-87	DATE:	DRILLED BY: Doug Meyer	
BACKFILLED: 9-24-87	TIME:	LOGGED BY: John Miller	
GROUND ELEVATION: NA	BORING DEPTH: NA	SHEET 1 OF 1	

[illegible]

Demographic Laboratory Sample Interval

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BORING: B-8

PROJECT NAME: NACHTSHEIM BIRM 1984		PROJECT NO.: 512751
LOCATION COORDINATES: 15' South of Tank 622		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-21-87	DEPTH: no groundwater encountered	
COMPLETED: 9-21-87	DATE:	
BACKFILLED: 9-24-87	TIME:	
GROUND ELEVATION: SA	BORING DEPTH: 15.0'	SHEET 1 OF 1
		SAMPLING METHOD: Hand Auger - HA
		DRILLING CO: SA
		DRILLED BY: John McInnes
		LOGGED BY: Doug Boyce

DEPTH FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						IS		SAND STILL 11.12' to 15.0' were very fine to fine sand only	
5									
10	S- B- 10		HA			SC		SAND AND SILT very fine to fine sand, trace siltstone to concretion of light to medium	
15									
20									
25									
30									

■ Denotes Laboratory Sample Interval

BORING: B-9

PROJECT NAME: MAINTENANCE HOLE - 1001		PROJECT NO. 517-201
LOCATION COORDINATES: 15' North of rd. Link 526		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	SAMPLING METHOD: Hand Auger (H.A.)
INITIATED: 9-22-87	DEPTH: no groundwater encountered	DRILLING CO: SA
COMPLETED: 9-22-87	DATE:	DRILLED BY: Bong Beyer
BACKFILLED: 9-24-87	TIME:	LOGGED BY: John Williams
ROUND ELEVATION: NA	BORING DEPTH: 10.00'	SHEET 1 OF 1

DEPTH - FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						CL	CL	CLAY SAND: Red-brown; fine to very fine; little silty; dry to slightly moist	
1	S-9-10	10	RA			ML	ML	SANDY SILL: Medium gray; little to very fine sand; occasional slightly moist	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									

BORING: B-10

PROJECT NAME: NATHANIAN RING - FIVE		PROJECT NO.: 907-001
LOCATION COORDINATES: 11' Southeast of Tank 526		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-22-87	DEPTH: no groundwater encountered	
COMPLETED: 9-22-87	DATE:	
BACKFILLED: 9-24-87	TIME:	
GROUND ELEVATION: 8A	BORING DEPTH: 19.0'	SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						OH		CLAY SAND: Dark gray to black, very fine, non-plastic, light brown carbon content; slightly moist	
8						OH		SANDY SILT: Medium gray, little very fine sand; non-plastic, light brown carbon content; slightly moist	
10	S-10-10	8-10-10	ISA					medium gray, light gray, wet (10.5' to 10.10')	
15									
20									
25									
30									

■ Denotes Laboratory Sample Interval

BORING: B-11

PROJECT NAME: MARSHALL BLIND - 1993		PROJECT NO. 45-201
LOCATION COORDINATES: 70° Northeast of Tank 136		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	SAMPLING METHOD: Hand Auger (BA)
INITIATED: 9-27-87	DEPTH: not provided or encountered	DRILLING CO. NA
COMPLETED: 9-27-87	DATE:	DRILLED BY: Doug Harvey
BACKFILLED: 9-25-87	TIME:	LOGGED BY: John Whitney
GROUND ELEVATION: NA	BORING DEPTH: 14.0'	SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0	S-11-2		HS					Asphalt and cobble to 4.0'	
5								Dark brown, very moist, medium fine; MUD to 10'; fine to fine grained; micaceous; slight hydrocarbon color; slightly moist	
10	S-11-10		HA			ML		ST. SAND: pale yellow, black; mottled; fine to very fine; non-silt; moderate hydrocarbon color; slightly moist	
15									
20									
25									
30									

BORING: B-12

PROJECT NAME: MACILLAN RISE ARD		PROJECT NO.: 512-051
LOCATION COORDINATES: 5' Southwest of Light VII		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-22-87	DEPTH: no groundwater encountered	
COMPLETED: 9-22-87	DATE:	
BACKFILLED: 9-26-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	SHEET 1 OF 1
DRILLING CO.: NA		
DRILLED BY: Doug Hughes		
LOGGED BY: Doug Hughes		

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						SI		SLT/SAND: Very loose; fine to very fine; little silt; surface gravelly; trace fine gravel; moderate hydrocarbon odor; slightly moist.	
6						SI		SANDY SILT: Part to medium gray, medium brown, oxidized; little silt; fine to very coarse; moderate hydrocarbon odor; slightly moist.	
10	5-12-10	10	10A			SI		SLT/SAND: Medium gray, green/gray, mostly fine to very fine; little to moderate silt; moderate trace to 5% fine; moderate hydrocarbon odor; slightly moist.	
6									
20									
25									
30									

■ Denotes Laboratory Sample Interval

BORING: B-13

PROJECT NAME: SWANILLAN WIND - 1981		PROJECT NO.: 512-151
LOCATION COORDINATES:		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	SAMPLING METHOD: Hand Auger - SBA
INITIATED: 9-22-87	DEPTH: to groundwater encountered	DRILLING CO.: SA
COMPLETED: 9-27-87	DATE:	DRILLED BY: Doug Hayes
BACKFILLED: 9-24-87	TIME:	LOGGED BY: John Martin
ROUND ELEVATION: 5A	BORING DEPTH: 10.0'	SHEET 1 OF 1

DEPTH, FEET	SAMPLE DATA						SOIL TYPE	SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE						
0							USCS		
							SYMBOL		
0							SC	SANDY SILT - Medium green/brown, medium gray, black, mottled; some very fine sand; slight silt; slightly moist.	
5							SC	SILTY SAND - Medium green/brown; fine to very fine; little silt; slightly moist.	
0	S-13-10		11A						
6									
0									
25									
30									

3ORING: B-14

PROJECT NAME: MAGNILLAN RING - 1997		PROJECT NO. 532-251
LOCATION COORDINATES: 25° Southeast of Land 8		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-22-87	DEPTH: no groundwater encountered	
COMPLETED: 9-22-87	DATE:	
BACKFILLED: 9-22-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 30.0'	SHEET 1 OF 1
DRILLING CO: SA		
DRILLED BY: Doug Hayden		
LOGGED BY: Kim Williams		

DEPTH FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0	S-16-2		HA			CI		SILTY SAND: Medium green/gray, black, mottled, very fine to fine, little silt, little heavy hydrocarbon, moderate heavy hydrocarbon, strong slightly moist to moist. SANDY SILT: Medium green/gray, medium gray, mottled, coarse very fine sand, slightly moist.	
6									
10	S-16-10		HA					at 1' medium green/gray, little very fine sand, slightly moist	
25									
30									

BORING: B-15

PROJECT NAME: MACHILLAN RING - FEET		PROJECT NO.: 912-253																
LOCATION COORDINATES: 1/2 North of Tank 512		RIG TYPE: Hand Auger																
<table border="1"> <tr> <th colspan="2">SCHEDULE</th> </tr> <tr> <td>INITIATED:</td> <td>9-22-87</td> </tr> <tr> <td>COMPLETED:</td> <td>9-27-87</td> </tr> <tr> <td>BACKFILLED:</td> <td>9-28-87</td> </tr> </table>		SCHEDULE		INITIATED:	9-22-87	COMPLETED:	9-27-87	BACKFILLED:	9-28-87	<table border="1"> <tr> <th colspan="2">WATER LEVEL</th> </tr> <tr> <td>DEPTH:</td> <td>no groundwater encountered</td> </tr> <tr> <td>DATE:</td> <td></td> </tr> <tr> <td>TIME:</td> <td></td> </tr> </table>	WATER LEVEL		DEPTH:	no groundwater encountered	DATE:		TIME:	
SCHEDULE																		
INITIATED:	9-22-87																	
COMPLETED:	9-27-87																	
BACKFILLED:	9-28-87																	
WATER LEVEL																		
DEPTH:	no groundwater encountered																	
DATE:																		
TIME:																		
ROUND ELEVATION: NA		SAMPLING METHOD: Hand Auger (3)																
		DRILLING CO: NA																
		DRILLED BY: Doug Hoyer																
		LOGGED BY: John Williams																
		SHEET 1 OF 1																

DEPTH FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						NA		SILTY SAND: gray/gray, bluish, medium to very coarse grained; 10 to 25% silt, trace fine hydro- carbon; slight hydrocarbon odor; slightly moist to moist. at 27' gravel to 12' fine to very fine sand (FH), very slight hydrocarbon odor; slightly moist.	
0	S-15-10		NA						
5									
10									
15									
20									
25									
30									

BORING: B-16

PROJECT NAME: MACMILLAN RING - SKILL

PROJECT NO. 52541

LOCATION COORDINATES: 10° West of Lamb, 50°

RIG TYPE: Heat Sealed

SCHEDULE

WATER LEVEL

INITIATED: 9-27-47

DEPTH: no ground or submerged

COMPLETED: 9-11-47

DATE:

BACKFILED: 9-25-87

TIME:

ROUND ELEVATION: 85

BORING DEPTH: 10.0'

SHEET : OF

[illegible]

Abbreviations Denotes laboratory sample interval

 **ENGINEERING
ENTERPRISES, INC.**

BORING: B-17

PROJECT NAME: MACILLAN FILL - 1981		PROJECT NO. 512-251																	
LOCATION COORDINATES: 25° 30' 00" N, 100° 00' 00" W		RIG TYPE: Hand Auger																	
<table border="1"> <tr> <th colspan="2">SCHEDULE</th> <th colspan="2">WATER LEVEL</th> </tr> <tr> <td>INITIATED:</td> <td>9-23-87</td> <td>DEPTH:</td> <td>no groundwater encountered</td> </tr> <tr> <td>COMPLETED:</td> <td>9-24-87</td> <td>DATE:</td> <td></td> </tr> <tr> <td>BACKFILLED:</td> <td>9-25-88</td> <td>TIME:</td> <td></td> </tr> </table>		SCHEDULE		WATER LEVEL		INITIATED:	9-23-87	DEPTH:	no groundwater encountered	COMPLETED:	9-24-87	DATE:		BACKFILLED:	9-25-88	TIME:		SAMPLING METHOD: Hand Auger - GHS	
SCHEDULE		WATER LEVEL																	
INITIATED:	9-23-87	DEPTH:	no groundwater encountered																
COMPLETED:	9-24-87	DATE:																	
BACKFILLED:	9-25-88	TIME:																	
GROUND ELEVATION: NA		BORING DEPTH: 30.0'																	
		DRILLING CO: NA																	
		DRILLED BY: Doug Mayes																	
		LOGGED BY: John Whitcomb																	
		SHEET 1 OF 1																	

DEPTH FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0									
6									
10	S-17-10	9-10	HA					STICK SAMPLE: Pink gray, to soft, medium; very fine; some sand; trace clay; silty; some light hydrocarbon odor; slightly moist at 10': Medium brown, medium clay; fine sand; to soft; very fine to fine; silty; slightly moist	
15									
20									
25									
30									

BORING: B-18

PROJECT NAME: NACHULAN BRIDGE - ILL.		PROJECT NO.: 517-251	
LOCATION COORDINATES: 1/4 Section 36, T4N, R10E, S20		RIG TYPE: Hand Auger	
SCHEDULE		WATER LEVEL	
INITIATED: 9-23-87		DEPTH: no groundwater encountered	
COMPLETED: 9-23-87		DATE:	
BACKFILLED: 4-24-87		TIME:	
ROUND ELEVATION: NA		BORING DEPTH: 10.0'	
		SAMPLING METHOD: Hand Auger (HA)	
		DRILLING CO.: NA	
		DRILLED BY: Doug Hayes	
		LOGGED BY: John W. Lutz	
		SHEET 1 OF 1	

DEPTH FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						SP		STIFF SAND: Medium green/brown; fine to very fine; little silt; slightly moist	
10	S-18-10		HA			SP		SAND: Medium green/brown; fine to very fine; trace silt; slightly moist	
26									
30									

BORING: B-19

PROJECT NAME: MACMILLAN WING - LTR		PROJECT NO. 912-251
LOCATION COORDINATES: 30° South of Unit 530		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-24-87	DEPTH: no groundwater encountered	
COMPLETED: 9-24-87	DATE:	
BACKFILLED: 9-25-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	
		SAMPLING METHOD: Hand Auger (BA)
		DRILLING CO: NA
		DRILLED BY: Doug Rogers
		LOGGED BY: John Wilton
		SHEET 1 OF 2

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0	S-19-7	[REDACTED]	BA			25	[SYMBOL]	SILTY SAND: BLK, med. gray, mottled; fine to very fine; little silt; sand fine to coarse gravel; heavy hydrocarbon saturation; moderate hydrocarbon odor; moist	
5						11	[SYMBOL]		
10						10	[SYMBOL]		
0	S-19-10	[REDACTED]	BA					CLAY: BLK, green, mottled; strong hydrocarbon odor; little silt; silt fine to medium; slightly moist SILTY SAND: brownish gray, very fine to fine; little silt; slightly moist	
5									
10									
20									
25									
30									

BORING: B-20

PROJECT NAME: DWIGHTIAN RING - FEET		PROJECT NO. 912-051
LOCATION COORDINATES: 5' North of Link 508		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-23-87	DEPTH: no groundwater encountered	
COMPLETED: 9-23-87	DATE:	
BACKFILLED: 9-25-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	SHEET 1 OF 1
DRILLING CO: AA		
DRILLED BY: John Whitney		
LOGGED BY: Doug Evans		

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0	S-20-2		HA			SP		SAND: Buff gray, clean, well sorted; fine to coarse; trace to coarse gravel; saturated with heavy hydrocarbon soil; some nodules of bentonite. SANDY SILT: Buff gray to tan, dark gray, well sorted; little to very fine sand; some heavy nodules of bentonite; 1.0% to 1.5% clay; nodules of bentonite; slightly acid. SILT SAND: Buff to gray, fine to medium; trace to very fine; little to silty; very slight hydrocarbon oil; slightly acid.	
5						SP			
10	S-20-10		HA			SP			
15									
20									
25									
30									

■ Distress Laboratory Sample Interval

BORING: B-21

PROJECT NAME: MACMILLAN RING - TELL		PROJECT NO. 912-091
LOCATION COORDINATES: 50' North of Tank 508		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-21-87	DEPTH: no groundwater encountered	
COMPLETED: 9-23-87	DATE:	
BACKFILLED: 9-25-87	TIME:	
GROUND ELEVATION: SA	BORING DEPTH: 10.0'	SHEET 1 OF 1
		SAMPLING METHOD: Hand Auger - 10'
		DRILLING CO: SA
		DRILLED BY: Doug Hayes
		LOGGED BY: John Williams

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						CE		SANDY SILT: Medium gray; little to very fine sandy; saturated with light hydrocarbon; strong hydrocarbon odor; wet	
	S-21-2		HA			CI			
5						CH		CLAY: Dark gray; trace very fine sand; moderate hydrocarbon odor; slightly moist	
10	S-21-10		HA			SC		SILT SAND: Green/gray; very fine to fine; trace silt; slightly moist	
15									
20									
25									
30									

BORING: B-22

PROJECT NAME: MACFILLAN ROAD BRIDGE		PROJECT NO. 912-253
LOCATION COORDINATES: 81' West of Northwest Avenue, 25' South of Landfill Road		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-23-87	DEPTH: no groundwater encountered	
COMPLETED: 9-23-87	DATE:	
BACKFILLED: 9-25-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	SHEET 1 OF 1
SAMPLING METHOD: Hand Auger		
DRILLING CO: SA		
DRILLED BY: Doug Hays		
LOGGED BY: Doug Hays		

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0									
2	S-22-2		HA			SC		SANDY SILT: Fine gray to tan; very fine sandy silt; clay more hydrous; color gray to tan; strong reduction color; very moist.	
5									
10	S-22-10		HA					SILT: Medium to coarse; very fine; and silt; slightly moist.	
15									
20									
25									
30									

BORING: B-23

PROJECT NAME: MACMILLAN BRIDGE - FRED		PROJECT NO. 547-251
LOCATION COORDINATES: 70' Southwest of Line 102		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-26-87	DEPTH: no groundwater encountered	SAMPLING METHOD: Hand Auger (cut)
COMPLETED: 9-26-87	DATE:	DRILLING CO: SA
BACKFILLED: 9-27-87	TIME:	DRILLED BY: David Brown
GROUND ELEVATION: 25	BORING DEPTH: 10.0'	LOGGED BY: John Williams
		SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0									
5-20-2			HA			SC		SANDY SILT: Black, dark gray; and very fine to fine sand; saturated with heavy hydrocarbon odor sandy clay lenses 3.0' to 4.5'	
6									
10	8-23-10		HA					SILT: SAND: Medium gray; fine to very fine; some silt; slight to no hydrocarbon odor; slightly moist	
5									
20									
25									
30									

 Denotes Laboratory Sample Interval

BORING: B-24

PROJECT NAME: MACILLAN RISC - FREE		PROJECT NO. 332-251
LOCATION COORDINATES: 5' South of Marker M-1		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-26-87	DEPTH: no groundwater encountered	
COMPLETED: 9-24-87	DATE:	
BACKFILLED: 9-25-87	TIME:	
GROUND ELEVATION: 5A	BORING DEPTH: 18.0'	
		SAMPLING METHOD: Hand Auger - 2" ID
		DRILLING CO.: SA
		DRILLED BY: Doug Bales
		LOGGED BY: John Winters
		SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						SP		SAND: Part passing fine to medium; trace coarse; and the fine grained; saturated with heavy hydrocarbon oil; strong hydrocarbon odor.	
2	S-24-2		HA			SP			
5								SILTY SAND: Part gray; fine to very fine; little silt; slight hydrocarbon odor; slightly moist.	
10	S-24-10		HA						
15								at 5' section to dusty gray/grey; some to med. silty; no hydrocarbon odor.	
20									
25									
30									

Denotes Laboratory Sample Interval

BORING: B-25

PROJECT NAME: MACINTOSH RING - 1111		PROJECT NO. 512-01
LOCATION COORDINATES: 10' Southwest of Lot 517		RIG TYPE: Sand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-24-87	DEPTH: no groundwater encountered	
COMPLETED: 9-24-87	DATE:	
BACKFILLED: 9-24-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	SAMPLING METHOD: Hand Auger, 100%
		DRILLING CO: NA
		DRILLED BY: Doug Meyer
		LOGGED BY: John Phillips
		SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						SP			
5-25-2			SIA					GRAVELLY SAND: Dark gray, black; medium; very fine to coarse; little fine to coarse grained; trace to little silty; saturated with heavy hydrocarbon odor	
5						ML		SANDY SILT: Medium green/gray; some very fine sand; moderate hydrocarbon odor; slightly moist	
10	5-25-10		SIA						
15									
20									
25									
30									

BORING: B-26

PROJECT NAME: MACMILLAN BRNG - 1971		PROJECT NO.: 94-051
LOCATION COORDINATES: 10' South - 1 East 306		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	SAMPLING METHOD: Hand Auger (11')
INITIATED: 9-24-81	DEPTH: no groundwater encountered	DRILLING CO.: EA
COMPLETED: 9-24-81	DATE:	DRILLED BY: Doug Slavin
BACKFILLED: 9-24-81	TIME:	LOGGED BY: Mike Miller
GROUND ELEVATION: NA	BORING DEPTH: 10.0'	SHEET: OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0									
2	S-26-2		HA			SC		STUDY SAMPLE: Thin clay loam; fine to coarse; brown to gray; little silt; some heavy lumps; moderate hydration color; moist	
5						SC		SANDY SILT: Medium to coarse; dark gray; medium to coarse; very fine sandy; little silt; slight hydration color; very moist to wet	
10	S-26-10		HA						
20									
26									
30									

BORING: B-27

PROJECT NAME: <u>MANHATTAN BEING - FIELD</u>		PROJECT NO.: <u>512-051</u>
LOCATION COORDINATES: <u>5' Northwest of Link BR</u>		RIG TYPE: <u>Hand Auger</u>
SCHEDULE	WATER LEVEL	SAMPLING METHOD: <u>Hand Auger - 10'</u>
INITIATED: <u>9-26-87</u>	DEPTH: <u>no groundwater encountered</u>	DRILLING CO.: <u>NA</u>
COMPLETED: <u>9-26-87</u>	DATE:	DRILLED BY: <u>Don Hayes & Robert Van Wagner</u>
BACKFILLED: <u>9-26-87</u>	TIME:	LOGGED BY: <u>John McElroy</u>
GROUND ELEVATION: <u>NA</u>	BORING DEPTH: <u>30.0'</u>	SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA					SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE			USCS	SYMBOL		
0						SI		CLAYEY SILT: Reddish brown; little clay; trace to staining; slightly moist	
5	S-27-5	4.5'	HA						
10									
15									
20									
25									
30									

■ 10' Denotes Laboratory Sample Interval

BORING: B-28

PROJECT NAME: MACMILLAN RIVER TREATMENT PLANT		PROJECT NO. 100-001
LOCATION COORDINATES: 15° Southwest of East 9		RIG TYPE: Hand Auger
SCHEDULE	WATER LEVEL	
INITIATED: 9-25-87	DEPTH: no groundwater encountered	
COMPLETED: 9-25-87	DATE:	
BACKFILLED: 9-25-87	TIME:	
GROUND ELEVATION: NA	BORING DEPTH: 19.6'	SHEET 1 OF 1

DEPTH IN FEET	SAMPLE DATA						SOIL TYPE		SOIL DESCRIPTION	REMARKS
	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE				USCS	SYMBOL		
0										
2	S-28-2	2	HA				SH		STIFF SAND. Medium gray clayey; very fine; some silt; slightly moist; strong hydrocarbon odor	
5							ML		CLAYEY SILT. Medium brown; little clay; trace very fine sand; slightly moist	
10	S-28-10	10	HA						sandy silt; at 5.0'; medium gray to blue gray; little very fine sand; slightly moist	
15										
20										
25										
30										

■ Denotes Laboratory Sample Interval

EXHIBIT 3 – PART II

BORING LOGS (TEC,1998)

PROJECT NAME: FORMER CHEMOIL REFINERY

PROJ. NO. 95-11-1006.31

LOCATION: CHEMOIL'S PARCEL, CENTRAL PORTION OF SITE

WELL NO. B-1

SCHEDULE

WATER LEVEL

SHEET: 1 of 2

LOGGED BY: M. Bowery

INITIATED: 03/09/98

DEPTH: APPROXIMATELY 35 FEET BGS

SAMPLING METHOD: HSA

COMPLETED: 03/09/98

DATE: 03/09/98

DRILLED BY: J.T.

CASING ELEVATION: NA

TIME: 8:25 AM

DRILLING CO: CASCADE DRILLING

SCREEN ELEVATION: NA

WELL DEPTH: 35 FEET BGS

RIG TYPE: MOBILE B-01

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION	
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLWS PID (gpm)		
1			SM				SILTY SAND: light brown; very fine sand; 40-50% orange-brown silt @ 1.0'; slightly moist; slight hydrocarbon odor.	
2								
3								
4			CL		9-1-6	33	2360+	SILTY CLAY: mottled, blue-green, black streaks; some silt; dense; moist, strong hydrocarbon odor.
5								
6								
7			SP		9-1-10	23	2000+	SAND: light olive green; trace silt, trace very fine to fine sand, micaceous; medium dense; moist; strong hydrocarbon odor.
8								
9								
10			SP		9-1-15	38	2000+	dense.
11								
12								
13			SP		9-1-20	45	2000+	dense.
14								
15								
16			SP		9-1-25	45	2000+	dense.
17								
18								
19			SP					
20								
21								
22			SP					
23								
24								
25			SP					
26								
27								

NOTES:

1. REFER TO KEY TO SOIL SYMBOLS AND TERMS
2. ALL DEPTHS AND ELEVATIONS ARE IN FEET.



TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

PROJECT NO. 95-11-1006

P.E. 31

SHEET NO.

DATE: MAY, 1998

DRAWN BY: BC

C-2

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA				SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	GLWS	PID (DDM)	
26			SP		S-1-29	45	3050+	SAND (CONTINUED): light olive green; trace silt, trace very fine to fine sand, micaceous; medium dense; moist; strong hydrocarbon odor.
27								
28								
29								
30								
31					S-1-30	45	3050+	dark grayish brown; wet at 30 feet, dense.
32								
33								
34								
35								
36					S-1-35	55	3050+	wet; very dense; strong hydrocarbon odor.
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								

Boring terminated at 35 feet below ground surface.



TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

PROJECT NO. 94-11-1008
DATE MAY, 1998

FILE: .31
DRAWN BY: BG

PROJECT NO. C-3

PROJECT NAME: FORMER CHEMOIL REFINERY

PROJ. NO. 94-11-1008.31

LOCATION: CHEMOIL'S PARCEL; WESTERN PORTION OF SITE

WELL NO. B-2

SCHEDULE

WATER LEVEL

SHEET: 1 of 2

INITIATED: 03/09/98

DEPTH: APPROXIMATELY 30 FEET BGS

LOGGED BY: M. Bowery

COMPLETED: 03/09/98

DATE: 03/09/98

SAMPLING METHOD: HSA

CASING ELEVATION: NA

TIME: 0:25 AM

DRILLED BY: J.T.

SCREEN ELEVATION: NA

WELL DEPTH: 30 FEET BGS

DRILLING CO: CASCADE DRILLING

RIG TYPE: MOBILE B-61

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PC (ppm)	
1			SM				SILTY SAND: light brown; slightly moist; slight hydrocarbon odor.
2							
3							
4							
5			CL	S-2-5	11	17%	CLAYEY SILT: blue green; 20-40% clay, micaceous, trace very fine sand; moist; medium dense; strong hydrocarbon odor.
6							
7							
8							
9			SM				SILTY SAND: olive green; medium, micaceous; moist; medium dense; slight hydrocarbon odor.
10							
11				S-2-10	28	45%	
12							
13							SAND: moderate olive green; very fine to fine, trace silt, micaceous; moist; medium dense; slight hydrocarbon odor.
14							
15							
16			SP	S-2-15	28	53%	
17							sea shells; very dense; very slight hydrocarbon odor.
18							
19							
20				S-2-20	55	78	
21							medium sand; large shells fragments; moist; very dense; strong hydrocarbon odor.
22							
23							
24							
25							
26				S-2-25	80	2000+	

NOTES:

1. REFER TO KEY TO SOIL SYMBOLS AND TERMS
2. ALL DEPTHS AND ELEVATIONS ARE IN FEET.



TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

PROJECT NO. 95-11-1008

FILE .31

FIGURE NO.

DATE MAY, 1998

DAPAS BY: BG

C-4

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA				SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLOWS	PID (ppm)	
26		SP	SP		S-2-25	60	2000+	SAND (CONTINUED); moderate olive green; very fine to fine, trace silt, micaceous; moist; medium dense; slight hydrocarbon odor.
27								
28								
29								
30					S-2-30	85	2000+	wet; very dense.
31								BORING TERMINATED AT 30 FEET BELOW GROUND SURFACE.
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								



TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

PROJECT NO. 94-11-1006

FILE 31

FIGURE NO.

DATE MAY, 1998

DRAWN BY BG

C-5

PROJECT NAME: FORMER CHEMOIL REFINERY

PROJ. NO. 94-11-1008.31

LOCATION: CHEMOIL'S PARCEL: SOUTHERN PORTION OF SITE

WELL NO. B-3

SCHEDULE

WATER LEVEL

SHEET: 1 of 1

LOGGED BY: M. Bowery

INITIATED: 03/09/98

DEPTH: APPROXIMATELY 25 FEET BGS

SAMPLING METHOD: HSA

COMPLETED: 03/09/98

DATE: 03/09/98

DRILLED BY: J.T.

CASING ELEVATION: NA

TIME: 6:25 AM

DRILLING CO: CASCADE DRILLING

SCREEN ELEVATION: NA

WELL DEPTH: 25.0 FEET BGS

RIG TYPE: MOBILE B-61

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLOWS	P.D. (FPM)	
1		SM					SILTY SAND: light brown; fine sandy silt, micaceous; slightly moist; strong hydrocarbon odor.
2							
3							
4							
5		NL		S-3-5	28	2000+	SANDY SILT: dark olive green to black; micaceous; slightly moist; medium dense, slightly moist; strong hydrocarbon odor.
6							
7							
8							
9							
10		SM		S-3-10	37	2000+	SILTY SAND: dark olive brown to black; very fine, micaceous; moist; dense; strong hydrocarbon odor.
11							
12							
13							
14							
15		SP		S-3-15	35	374	SAND: moderate olive green; very fine to fine, trace silt, micaceous; moist; dense; strong hydrocarbon odor.
16							
17							
18							
19							
20				S-3-20	50	2500+	
21							
22							
23							
24		SM		S-3-25	45	2000+	SILTY SAND: moderate olive green; very fine, micaceous; wet; dense.
25							
26							BORING TERMINATED AT 25 FEET BELOW GROUND SURFACE.

NOTES:

1. REFER TO KEY TO SOIL SYMBOLS AND TERMS.
2. ALL DEPTHS AND ELEVATIONS ARE IN FEET.



TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

PROJECT NO. 95-11-1008

FILE: 31

FIGURE NO.

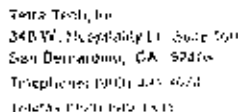
DATE MAY, 1998

DRAWN BY: RG

C-6

EXHIBIT 3 – PART III

BORING LOGS (TetraTech,2006)



BORING/WELL ID: SR1

TOTAL DEPOS. 40'

NOSEHOLE DIA: .251

DRILLING METHOD: CPT/DH

SAMPLING METHOD: Aerial Sweep

PROJECT NUMBER: 18116-01

LOCATION Former Chinese Embassy

Модель:

[illegible]



Tetra Tech, Inc.
348 W. Hacienda Ln, Suite 100
San Bernardino, CA 92410
Telephone: (909) 381-1674
Fax: (909) 381-1391

SOIL BORING LOG

BORING/WELL ID: 531

CLIENT: GEM, Inc.
PROJECT NUMBER: 18116-01
LOCATION: Former Chemical Refinery

GEOLOGIST: D. Bortolacci
REVIEWED BY:
DATE(S) DRILLED: 05/16/2006
DRILLING COMPANY: Grogg Drilling, Inc

TOTAL DEPTH: 48'
BOREHOLE DIA: 1.25'
DRILLING METHOD: CPT/DP
SAMPLING METHOD: Acetate Sleeve

Depth (ft. bgs)	Sample Recovery Blow Counts	Sample Number	Sampling Time	RID-PID	Stratigraphic Zone	Stratigraphic Contact	GROUP SYMBOL	Color	Moisture	% Gravel	% Sand	% Non-plastic Fines	% Plastic Fines	Grading	Plasticity (Fines)	Angularly Sand / Gravel	Grain Size Range (Sand)	Grain Size Range (Gravel)	Max. Grain Size (Gravel)	Comments / Well Construction
20																				
25	X	181-0516-6 25'	1010	0.1			SP	light tan												Strong color
30	/	181-0516-6 30' 181-0516-6 32'	1020 1010	0.1			SP	light tan												Strong color
35	X	181-0516-6 35'	1030	0.1			SP	light tan												Strong color
40	X	181-0516-6 40'	1040	0.1			SP	light tan												Strong color



Tetra Tech, Inc.
18417 Highway 10, Suite 100
San Bernardino, CA 92406
Telephone: 909.391.1111
Telefax: 909.391.1111

SOIL BORING LOG

BORING/WELL ID: S82

CLIENT: G&M, Inc.
PROJECT NUMBER: 18116-01
LOCATION: Former Chemical Refinery

GEOLOGIST: D. Berdick
REVIEWED BY:
DATE(S) DRILLED: 08/15/2006
DRILLING COMPANY: Gregg Drilling Inc.

TOTAL DEPTH: 45'
BOREHOLE DIA: 1.25"
DRILLING METHOD: CPT/DP
SAMPLING METHOD: Acetate Sleeve

Depth (ft. bgs)	Sample Recovery	Run Counts	Sample Number	Sampling Time	Soil (ppm)	Gravel Zone (ppm)	Lithologic Contact (ft. bgs)	GROUP SYMBOL	GROUP NAME / GEOLOGIC DESCRIPTION / ADDITIONAL MODIFIERS	Comments / Notes
1								ML	7-10% clay - 30 60 10 P non low sr VF - -	10' to 15' clay
2										
3								ML	As shown	
4										
5	X		333 01005	11.20	10P	0.0		ML	As shown	
6										
7								ML	As shown	
8										
9								ML	As shown	
10	X		333 01005	11.20	10P	0.0		ML	As shown	
11										
12								ML	As shown	
13										
14								ML	As shown	
15										
16	X		333 01005	11.20	10P	0.0		ML	As shown	
17										
18								ML	As shown	
19										
20	X		333 01005	11.20	10P	0.0		SP	As shown, well sorted	10' to 15' clay
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
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36										
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USCS: G-1, G-2, G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, G-11, G-12, G-13, G-14, G-15, G-16, G-17, G-18, G-19, G-20, G-21, G-22, G-23, G-24, G-25, G-26, G-27, G-28, G-29, G-30, G-31, G-32, G-33, G-34, G-35, G-36, G-37, G-38, G-39, G-40, G-41, G-42, G-43, G-44, G-45, G-46, G-47, G-48, G-49, G-50, G-51, G-52, G-53, G-54, G-55, G-56, G-57, G-58, G-59, G-60, G-61, G-62, G-63, G-64, G-65, G-66, G-67, G-68, G-69, G-70, G-71, G-72, G-73, G-74, G-75, G-76, G-77, G-78, G-79, G-80, G-81, G-82, G-83, G-84, G-85, G-86, G-87, G-88, G-89, G-90, G-91, G-92, G-93, G-94, G-95, G-96, G-97, G-98, G-99, G-100, G-101, G-102, G-103, G-104, G-105, G-106, G-107, G-108, G-109, G-110, G-111, G-112, G-113, G-114, G-115, G-116, G-117, G-118, G-119, G-120, G-121, G-122, G-123, G-124, G-125, G-126, G-127, G-128, G-129, G-130, G-131, G-132, G-133, G-134, G-135, G-136, G-137, G-138, G-139, G-140, G-141, G-142, G-143, G-144, G-145, G-146, G-147, G-148, G-149, G-150, G-151, G-152, G-153, G-154, G-155, G-156, G-157, G-158, G-159, G-160, G-161, G-162, G-163, G-164, G-165, G-166, G-167, G-168, G-169, G-170, G-171, G-172, G-173, G-174, G-175, G-176, G-177, G-178, G-179, G-180, G-181, G-182, G-183, G-184, G-185, G-186, G-187, G-188, G-189, G-190, G-191, G-192, G-193, G-194, G-195, G-196, G-197, G-198, G-199, G-200, G-201, G-202, G-203, G-204, G-205, G-206, G-207, G-208, G-209, G-210, G-211, G-212, G-213, G-214, G-215, G-216, G-217, G-218, G-219, G-220, G-221, G-222, G-223, G-224, G-225, G-226, G-227, G-228, G-229, G-230, G-231, G-232, G-233, G-234, G-235, G-236, G-237, G-238, G-239, G-240, G-241, G-242, G-243, G-244, G-245, G-246, G-247, G-248, G-249, G-250, G-251, G-252, G-253, G-254, G-255, G-256, G-257, G-258, G-259, G-260, G-261, G-262, G-263, G-264, G-265, G-266, G-267, G-268, G-269, G-270, G-271, G-272, G-273, G-274, G-275, G-276, G-277, G-278, G-279, G-280, G-281, G-282, G-283, G-284, G-285, G-286, G-287, G-288, G-289, G-290, G-291, G-292, G-293, G-294, G-295, G-296, G-297, G-298, G-299, G-300, G-301, G-302, G-303, G-304, G-305, G-306, G-307, G-308, G-309, G-310, G-311, G-312, G-313, G-314, G-315, G-316, G-317, G-318, G-319, G-320, G-321, G-322, G-323, G-324, G-325, G-326, G-327, G-328, G-329, G-330, G-331, G-332, G-333, G-334, G-335, G-336, G-337, G-338, G-339, G-340, G-341, G-342, G-343, G-344, G-345, G-346, G-347, G-348, G-349, G-350, G-351, G-352, G-353, G-354, G-355, G-356, G-357, G-358, G-359, G-360, G-361, G-362, G-363, G-364, G-365, G-366, G-367, G-368, G-369, G-370, G-371, G-372, G-373, G-374, G-375, G-376, G-377, G-378, G-379, G-380, G-381, G-382, G-383, G-384, G-385, G-386, G-387, G-388, G-389, G-390, G-391, G-392, G-393, G-394, G-395, G-396, G-397, G-398, G-399, G-400, G-401, G-402, G-403, G-404, G-405, G-406, G-407, G-408, G-409, G-410, G-411, G-412, G-413, G-414, G-415, G-416, G-417, G-418, G-419, G-420, G-421, G-422, G-423, G-424, G-425, G-426, G-427, G-428, G-429, G-430, G-431, G-432, G-433, G-434, G-435, G-436, G-437, G-438, G-439, G-440, G-441, G-442, G-443, 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G-1014, G-1015, G-1016, G-1017, G-1018, G-1019, G-1020, G-1021, G-1022, G-1023, G-1024, G-1025, G-1026, G-1027, G-1028, G-1029, G-1030, G-1031, G-1032, G-1033, G-1034, G-1035, G-1036, G-1037, G-1038, G-1039, G-1040, G-1041, G-1042, G-1043, G-1044, G-1045, G-1046, G-1047, G-1048, G-1049, G-1050, G-1051, G-1052, G-1053, G-1054, G-1055, G-1056, G-1057, G-1058, G-1059, G-1060, G-1061, G-1062, G-1063, G-1064, G-1065, G-1066, G-1067, G-1068, G-1069, G-1070, G-1071, G-1072, G-1073, G-1074, G-1075, G-1076, G-1077, G-1078, G-1079, G-1080, G-1081, G-1082, G-1083, G-1084, G-1085, G-1086, G-1087, G-1088, G-1089, G-1090, G-1091, G-1092, G-1093, G-1094, G-1095, G-1096, G-1097, G-1098, G-1099, G-1100, G-1101, G-1102, G-1103, G-1104, G-1105, G-1106, G-1107, G-1108, G-1109, G-1110, G-1111, G-1112, G-1113, G-1114, G-1115, G-1116, G-1117, G-1118, G-1119, G-1120, G-1121, G-1122, G-1123, G-1124, G-1125, G-1126, G-1127, G-1128, G-1129, G-1130, G-1131, G-1132, G-1133, G-1134, G-1135, G-1136, G-1137, G-1138, G-1139, G-1140, G-1141, G-1142, G-1143, G-1144, G-1145, G-1146, G-1147, G-1148, G-1149, G-1150, G-1151, G-1152, G-1153, G-1154, G-1155, G-1156, G-1157, G-1158, G-1159, G-1160, G-1161, G-1162, G-1163, G-1164, G-1165, G-1166, G-1167, G-1168, G-1169, G-1170, G-1171, G-1172, G-1173, G-1174, G-1175, G-1176, G-1177, G-1178, G-1179, G-1180, G-1181, G-1182, G-1183, G-1184, G-1185, G-1186, G-1187, G-1188, G-1189, G-1190, G-1191, G-1192, G-1193, G-1194, G-1195, G-1196, G-1197, G-1198, G-1199, G-1200, G-1201, G-1202, G-1203, G-1204, G-1205, G-1206, G-1207, G-1208, G-1209, G-1210, G-1211, G-1212, G-1213, G-1214, G-1215, G-1216, G-1217, G-1218, G-1219, G-1220, G-1221, G-1222, G-1223, G-1224, G-1225, G-1226, G-1227, G-1228, G-1229, G-1230, G-1231, G-1232, G-1233, G-1234, G-1235, G-1236, G-1237, G-1238, G-1239, G-1240, G-1241, G-1242, G-1243, G-1244, G-1245, G-1246, G-1247, G-1248, G-1249, G-1250, G-1251, G-1252, G-1253, G-1254, G-1255, G-1256, G-1257, G-1258, G-1259, G-1260, G-1261, G-1262, G-1263, 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G-1389, G-1390, G-1391, G-1392, G-1393, G-1394, G-1395, G-1396, G-1397, G-1398, G-1399, G-1400, G-1401, G-1402, G-1403, G-1404, G-1405, G-1406, G-1407, G-1408, G-1409, G-1410, G-1411, G-1412, G-1413, G-1414, G-1415, G-1416, G-1417, G-1418, G-1419, G-1420, G-1421, G-1422, G-1423, G-1424, G-1425, G-1426, G-1427, G-1428, G-1429, G-1430, G-1431, G-1432, G-1433, G-1434, G-1435, G-1436, G-1437, G-1438, G-1439, G-1440, G-1441, G-1442, G-1443, G-1444, G-1445, G-1446, G-1447, G-1448, G-1449, G-1450, G-1451, G-1452, G-1453, G-1454, G-1455, G-1456, G-1457, G-1458, G-1459, G-1460, G-1461, G-1462, G-1463, G-1464, G-1465, G-1466, G-1467, G-1



315 W. Alessandro Ln, Suite 100
San Bernardino, CA 92408
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SOIL BORING LOG

BORING/WELL ID: 5150

CLIENT: OEM, Inc

PROJECT NUMBER: 18116-01

LOCATION: Former Chertoff Refinery

GEOLOGIST: D. Bertolacci

REVIEWED BY:

DATE(S) DRILLED: 05/15/2006

DRILLING COMPANY: Gregg Drilling, Inc

TOTAL DEPTH: 45'

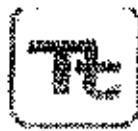
BORHOLE DIA: 1.25'

DRILLING METHOD: CPT/DP

SAMPLING METHOD: Acetate Sleeve

Depth (ft. bgs)	Sample Recovery	Blow Counts	Sample Number	Sampling Time	FS Spd (ppm)	Freezing Zone PID	Lithologic Contact (ft. bgs)	GROUP SYMBOL	GROUP NAME / GEOLOGIC DESCRIPTION / ADDITIONAL MODIFIERS	Comments / Other Observations					
								SP	As above	he star & staining					
								SP	As above, brown gravel	he star staining					
								SP	As above, brown gravel	"					
								SP	As above	"					
								SP	As above, increasing non plastic fines (10%)						
								SP	As above, increasing plastic fines						
								SP	As above - more SS - per spec 10.5.12	he star & staining					
								SP	As above	"					
								SP	Total Depth - 45' - per spec 10.5.12						
Notes								See USCS flow chart	Use Unified color chart	Dry Moist Wet	1-4 5-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-100	W: non S: med C: low P: non	A: fine SA: fine ST: med R: coarse	V: fine V: fine Med: Med Coarse: Coarse	odor, staining, moisture, structure, cementation, etc.

USCS flow chart, 10.5.12, 10.5.13, 10.5.14, 10.5.15, 10.5.16, 10.5.17, 10.5.18, 10.5.19, 10.5.20, 10.5.21, 10.5.22, 10.5.23, 10.5.24, 10.5.25, 10.5.26, 10.5.27, 10.5.28, 10.5.29, 10.5.30, 10.5.31, 10.5.32, 10.5.33, 10.5.34, 10.5.35, 10.5.36, 10.5.37, 10.5.38, 10.5.39, 10.5.40, 10.5.41, 10.5.42, 10.5.43, 10.5.44, 10.5.45, 10.5.46, 10.5.47, 10.5.48, 10.5.49, 10.5.50, 10.5.51, 10.5.52, 10.5.53, 10.5.54, 10.5.55, 10.5.56, 10.5.57, 10.5.58, 10.5.59, 10.5.60, 10.5.61, 10.5.62, 10.5.63, 10.5.64, 10.5.65, 10.5.66, 10.5.67, 10.5.68, 10.5.69, 10.5.70, 10.5.71, 10.5.72, 10.5.73, 10.5.74, 10.5.75, 10.5.76, 10.5.77, 10.5.78, 10.5.79, 10.5.80, 10.5.81, 10.5.82, 10.5.83, 10.5.84, 10.5.85, 10.5.86, 10.5.87, 10.5.88, 10.5.89, 10.5.90, 10.5.91, 10.5.92, 10.5.93, 10.5.94, 10.5.95, 10.5.96, 10.5.97, 10.5.98, 10.5.99, 10.5.100



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310 W. Hospital Ln. Suite 100
San Bernardino, CA 92409
Telephone: (909) 397-1674
Telex: TJS 5000, FAX: 397-1671

SOIL BORING LOG

BORING/WELL ID: **533**

CLIENT: GEM, Inc.

GEOLOGIST: D. Berdiacci

TOTAL DEPTH: **30'**

PROJECT NUMBER: **18116-01**

REVIEWED BY:

BORING DIA.: **1.25'**

LOCATION: Former Charnell Refinery

DATE(S) DRILLED: **05/15/2006**

DRILLING METHOD: **CPT/DDP**

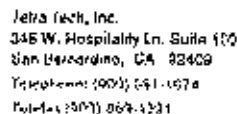
DRILLING COMPANY: **Grogg Drilling, Inc.**

SAMPLING METHOD: **Acetate Sleeve**

Depth (ft log)	Sample Recovery	Soil Conditions	Sample Number	Sampling Time	Soil (gpm)	Seepage Zone (gpm)	Lithologic Contact (ft logs)	GROUP SYMBOL	GROUP NAME / GEOLOGIC DESCRIPTION / ADDITIONAL MODIFIERS											Comments - See Construction
1								SM	light gray clay	10	60	30	-	1	non	SE	VF	F	1/2"	no later
2									silty sand - gravel / coarse etc. 1/2" - 1/4"											
3								SM	light gray clay	10	70	30	-	1	non	SE	VF	-	-	
4	X				122	0.0			silty sand - fine gravel - medium sand - staining, also some clay											some clay staining
5									no clay @ 5'											
6																				
7																				
8								SM	light gray clay	10										some clay staining
9																				
10	X					0.0		SM	As shown	for 10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
11								CL	light gray clay	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
12								CL	light gray clay	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
13								CL	light gray clay	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
14								SM	light gray clay	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
15	X					0.0		SM	light gray clay	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
16								SM	light gray clay	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
17																				
18								SP	As shown	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining
19																				
20	X					0.0		SP	As shown	10' to 12' to 14' to 16' to 18' to 20' to 22' to 24' to 26' to 28' to 30' to 32' to 34' to 36' to 38' to 40' to 42' to 44' to 46' to 48' to 50' to 52' to 54' to 56' to 58' to 60' to 62' to 64' to 66' to 68' to 70' to 72' to 74' to 76' to 78' to 80' to 82' to 84' to 86' to 88' to 90' to 92' to 94' to 96' to 98' to 100'										some clay staining

Notes:

Soil samples were taken at depths of 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 7070, 7080, 7090, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7170, 7180, 7190, 7200, 7210, 7220, 7230, 7240, 7250, 7260, 7270, 7280, 7290, 7300, 7310, 7320, 7330, 7340, 7350, 7360, 7370, 7380, 7390, 7400, 7410, 7420, 7430, 7440, 7450, 7460, 7470, 7480, 7490, 7500, 7510, 7520, 7530, 7540, 7550, 7560, 7570, 7580, 7590, 7600, 7610, 7620, 7630, 7640, 7650, 7660, 7670, 7680, 7690, 7700, 7710, 7720, 7730, 7740, 7750, 7760, 7770, 7780, 7790, 7800, 7810, 7820, 7830, 7840, 7850, 7860, 7870, 7880, 7890, 7900, 7910, 7920, 7930, 7940, 7950, 7960, 7970, 7980, 7990, 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070, 8080, 8090, 8100, 8110, 8120, 8130, 8140, 8150, 8160, 8170, 8180, 8190, 8200, 8210, 8220, 8230, 8240, 8250, 8260, 8270, 8280, 8290, 8300, 8310, 8320, 8330, 8340, 8350, 8360, 8370, 8380, 8390, 8400, 8410, 8420, 8430, 8440, 8450, 8460, 8470, 8480, 8490, 8500, 8510, 8520, 8530, 8540, 8550, 8560, 8570, 8580, 8590, 8600, 8610, 8620, 8630, 8640, 8650, 8660, 8670, 8680, 8690, 8700, 8710, 8720, 8730, 8740, 8750, 8760, 8770, 8780, 8790, 8800, 8810, 8820, 8830, 8840, 8850, 8860, 8870, 8880, 8890, 8900, 8910, 8920, 8930, 8940, 8950, 8960, 8970, 8980, 8990, 9000, 9010, 9020, 9030, 9040, 9050, 9060, 9070, 9080, 9090, 9100, 9110, 9120, 9130, 9140, 9150, 9160, 9170, 9180, 9190, 9200, 9210, 9220, 9230, 9240, 9250, 9260, 9270, 9280, 9290, 9300, 9310, 9320, 9330, 9340, 9350, 9360, 9370, 9380, 9390, 9400, 9410, 9420, 9430, 9440, 9450, 9460, 9470, 9480, 9490, 9500, 9510, 9520, 9530, 9540, 9550, 9560, 9570, 9580, 9590, 9600, 9610, 9620, 9630, 9640, 9650, 9660, 9670, 9680, 9690, 9700, 9710, 9720, 9730, 9740, 9750, 9760, 9770, 9780, 9790, 9800, 9810, 9820, 9830, 9840, 9850, 9860, 9870, 9880, 9890, 9900, 9910, 9920, 9930, 9940, 9950, 9960, 9970, 9980, 9990, 10000.



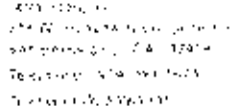
BOHRINGWELL ID: 40

LOCATION: Former Chemical Refinery

DRILLING COMPANY: Greco Drilling, Inc.

SAMPLING METHOD Acetate Sleeve

[illegible]



Unfair Game-playing Loc

TOTAL DEPTH 15' 6" (15.00)

LOCATION: Fanning Chemical Refinery

SHILLING COMPANY: Gregg DeLong has

www.mpl.org.uk | 020 7323 1111 | Accredited by the CMAA

Wettraded - 2 consecutive water years, hydrographs with each indicating positive streamflow trend - one or more probable future flow trends, or at least basin size and state and time covered.



Tetra Tech, Inc.
344 W. Hospitality Ln. Suite 100
Apri Meadows, GA 30408
Telephone: (770) 391-1674
Tollfree (800) 426-1391

SOIL BORING LOG

BORING/WELL ID: SB4

CLIENT: GEM, Inc.

PROJECT NUMBER: 18116-01

LOCATION: Former Chemo's Refinery

GEOLOGIST: D. Bertolucci

REVIEWED BY:

DATE(S) DRILLED: 05/16/2008

DRILLING COMPANY: Gregg Drilling, Inc.

TOTAL DEPTH:

BOREHOLE DIA.: 1.25"

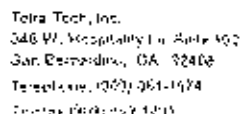
DRILLING METHOD: CPT/DP

SAMPLING METHOD: Acetate Sleeve

Depth (ft. bgs)	Sample Recovery	Blow Counts	Sample Number	Sampling Time	Soil (ppm)	Breaking Zone (ppm)	Lithologic Contact (ft. bgs)	GROUP SYMBOL	GROUP NAME / GEOLOGIC DESCRIPTION / ADDITIONAL MODIFIERS	Comments / Well Construction
1								SH	brn / blk / lg - 60 100 - P non -	red clay, micaceous
2						0.0				
3								SH	blk / blk / lg - 40 100 50 P blk / blk / lg	very dense clay + micaceous
4										
5			SB4-05-06	15	172	0.0		SH	as above, slightly more silty than below	
6										
7										
8						0.0		SH	medium, micaceous, plasticity, as above, 7 1/2	
9										
10			SB4-05-07	15	190	0.0		SH	blk / blk / lg - 40 100 25 P non -	micaceous
11										
12						0.0		SP	blk / blk / lg - 100 - - - 0 non Sp blk / blk / lg	very dense clay + micaceous
13								SH	blk / blk / lg - 60 100 - - - 0 non Sp blk / blk / lg	
14			SB4-05-08	15	175	0.0		SH	As above	
15								SH	blk / blk / lg - 100 - - - 0 non Sp blk / blk / lg	very dense clay + micaceous
16						0.0		SH	As above	
17										
18						0.0		SH	As above	
19										
20			SB4-05-09	20	150	0.0		SP	As above	

Notes:

1. 15-blow, 15-25-blow, 25-40-blow, 40-50-blow, 50-60-blow, 60-70-blow, 70-80-blow, 80-90-blow, 90-100-blow, 100-110-blow, 110-120-blow, 120-130-blow, 130-140-blow, 140-150-blow, 150-160-blow, 160-170-blow, 170-180-blow, 180-190-blow, 190-200-blow, 200-210-blow, 210-220-blow, 220-230-blow, 230-240-blow, 240-250-blow, 250-260-blow, 260-270-blow, 270-280-blow, 280-290-blow, 290-300-blow, 300-310-blow, 310-320-blow, 320-330-blow, 330-340-blow, 340-350-blow, 350-360-blow, 360-370-blow, 370-380-blow, 380-390-blow, 390-400-blow, 400-410-blow, 410-420-blow, 420-430-blow, 430-440-blow, 440-450-blow, 450-460-blow, 460-470-blow, 470-480-blow, 480-490-blow, 490-500-blow, 500-510-blow, 510-520-blow, 520-530-blow, 530-540-blow, 540-550-blow, 550-560-blow, 560-570-blow, 570-580-blow, 580-590-blow, 590-600-blow, 600-610-blow, 610-620-blow, 620-630-blow, 630-640-blow, 640-650-blow, 650-660-blow, 660-670-blow, 670-680-blow, 680-690-blow, 690-700-blow, 700-710-blow, 710-720-blow, 720-730-blow, 730-740-blow, 740-750-blow, 750-760-blow, 760-770-blow, 770-780-blow, 780-790-blow, 790-800-blow, 800-810-blow, 810-820-blow, 820-830-blow, 830-840-blow, 840-850-blow, 850-860-blow, 860-870-blow, 870-880-blow, 880-890-blow, 890-900-blow, 900-910-blow, 910-920-blow, 920-930-blow, 930-940-blow, 940-950-blow, 950-960-blow, 960-970-blow, 970-980-blow, 980-990-blow, 990-1000-blow, 1000-1010-blow, 1010-1020-blow, 1020-1030-blow, 1030-1040-blow, 1040-1050-blow, 1050-1060-blow, 1060-1070-blow, 1070-1080-blow, 1080-1090-blow, 1090-1100-blow, 1100-1110-blow, 1110-1120-blow, 1120-1130-blow, 1130-1140-blow, 1140-1150-blow, 1150-1160-blow, 1160-1170-blow, 1170-1180-blow, 1180-1190-blow, 1190-1200-blow, 1200-1210-blow, 1210-1220-blow, 1220-1230-blow, 1230-1240-blow, 1240-1250-blow, 1250-1260-blow, 1260-1270-blow, 1270-1280-blow, 1280-1290-blow, 1290-1300-blow, 1300-1310-blow, 1310-1320-blow, 1320-1330-blow, 1330-1340-blow, 1340-1350-blow, 1350-1360-blow, 1360-1370-blow, 1370-1380-blow, 1380-1390-blow, 1390-1400-blow, 1400-1410-blow, 1410-1420-blow, 1420-1430-blow, 1430-1440-blow, 1440-1450-blow, 1450-1460-blow, 1460-1470-blow, 1470-1480-blow, 1480-1490-blow, 1490-1500-blow, 1500-1510-blow, 1510-1520-blow, 1520-1530-blow, 1530-1540-blow, 1540-1550-blow, 1550-1560-blow, 1560-1570-blow, 1570-1580-blow, 1580-1590-blow, 1590-1600-blow, 1600-1610-blow, 1610-1620-blow, 1620-1630-blow, 1630-1640-blow, 1640-1650-blow, 1650-1660-blow, 1660-1670-blow, 1670-1680-blow, 1680-1690-blow, 1690-1700-blow, 1700-1710-blow, 1710-1720-blow, 1720-1730-blow, 1730-1740-blow, 1740-1750-blow, 1750-1760-blow, 1760-1770-blow, 1770-1780-blow, 1780-1790-blow, 1790-1800-blow, 1800-1810-blow, 1810-1820-blow, 1820-1830-blow, 1830-1840-blow, 1840-1850-blow, 1850-1860-blow, 1860-1870-blow, 1870-1880-blow, 1880-1890-blow, 1890-1900-blow, 1900-1910-blow, 1910-1920-blow, 1920-1930-blow, 1930-1940-blow, 1940-1950-blow, 1950-1960-blow, 1960-1970-blow, 1970-1980-blow, 1980-1990-blow, 1990-2000-blow, 2000-2010-blow, 2010-2020-blow, 2020-2030-blow, 2030-2040-blow, 2040-2050-blow, 2050-2060-blow, 2060-2070-blow, 2070-2080-blow, 2080-2090-blow, 2090-2100-blow, 2100-2110-blow, 2110-2120-blow, 2120-2130-blow, 2130-2140-blow, 2140-2150-blow, 2150-2160-blow, 2160-2170-blow, 2170-2180-blow, 2180-2190-blow, 2190-2200-blow, 2200-2210-blow, 2210-2220-blow, 2220-2230-blow, 2230-2240-blow, 2240-2250-blow, 2250-2260-blow, 2260-2270-blow, 2270-2280-blow, 2280-2290-blow, 2290-2300-blow, 2300-2310-blow, 2310-2320-blow, 2320-2330-blow, 2330-2340-blow, 2340-2350-blow, 2350-2360-blow, 2360-2370-blow, 2370-2380-blow, 2380-2390-blow, 2390-2400-blow, 2400-2410-blow, 2410-2420-blow, 2420-2430-blow, 2430-2440-blow, 2440-2450-blow, 2450-2460-blow, 2460-2470-blow, 2470-2480-blow, 2480-2490-blow, 2490-2500-blow, 2500-2510-blow, 2510-2520-blow, 2520-2530-blow, 2530-2540-blow, 2540-2550-blow, 2550-2560-blow, 2560-2570-blow, 2570-2580-blow, 2580-2590-blow, 2590-2600-blow, 2600-2610-blow, 2610-2620-blow, 2620-2630-blow, 2630-2640-blow, 2640-2650-blow, 2650-2660-blow, 2660-2670-blow, 2670-2680-blow, 2680-2690-blow, 2690-2700-blow, 2700-2710-blow, 2710-2720-blow, 2720-2730-blow, 2730-2740-blow, 2740-2750-blow, 2750-2760-blow, 2760-2770-blow, 2770-2780-blow, 2780-2790-blow, 2790-2800-blow, 2800-2810-blow, 2810-2820-blow, 2820-2830-blow, 2830-2840-blow, 2840-2850-blow, 2850-2860-blow, 2860-2870-blow, 2870-2880-blow, 2880-2890-blow, 2890-2900-blow, 2900-2910-blow, 2910-2920-blow, 2920-2930-blow, 2930-2940-blow, 2940-2950-blow, 2950-2960-blow, 2960-2970-blow, 2970-2980-blow, 2980-2990-blow, 2990-3000-blow, 3000-3010-blow, 3010-3020-blow, 3020-3030-blow, 3030-3040-blow, 3040-3050-blow, 3050-3060-blow, 3060-3070-blow, 3070-3080-blow, 3080-3090-blow, 3090-3100-blow, 3100-3110-blow, 3110-3120-blow, 3120-3130-blow, 3130-3140-blow, 3140-3150-blow, 3150-3160-blow, 3160-3170-blow, 3170-3180-blow, 3180-3190-blow, 3190-3200-blow, 3200-3210-blow, 3210-3220-blow, 3220-3230-blow, 3230-3240-blow, 3240-3250-blow, 3250-3260-blow, 3260-3270-blow, 3270-3280-blow, 3280-3290-blow, 3290-3300-blow, 3300-3310-blow, 3310-3320-blow, 3320-3330-blow, 3330-3340-blow, 3340-3350-blow, 3350-3360-blow, 3360-3370-blow, 3370-3380-blow, 3380-3390-blow, 3390-3400-blow, 3400-3410-blow, 3410-3420-blow, 3420-3430-blow, 3430-3440-blow, 3440-3450-blow, 3450-3460-blow, 3460-3470-blow, 3470-3480-blow, 3480-3490-blow, 3490-3500-blow, 3500-3510-blow, 3510-3520-blow, 3520-3530-blow, 3530-3540-blow, 3540-3550-blow, 3550-3560-blow, 3560-3570-blow, 3570-3580-blow, 3580-3590-blow, 3590-3600-blow, 3600-3610-blow, 3610-3620-blow, 3620-3630-blow, 3630-3640-blow, 3640-3650-blow, 3650-3660-blow, 3660-3670-blow, 3670-3680-blow, 3680-3690-blow, 3690-3700-blow, 3700-3710-blow, 3710-3720-blow, 3720-3730-blow, 3730-3740-blow, 3740-3750-blow, 3750-3760-blow, 3760-3770-blow, 3770-3780-blow, 3780-3790-blow, 3790-3800-blow, 3800-3810-blow, 3810-3820-blow, 3820-3830-blow, 3830-3840-blow, 3840-3850-blow, 3850-3860-blow, 3860-3870-blow, 3870-3880-blow, 3880-3890-blow, 3890-3900-blow, 3900-3910-blow, 3910-3920-blow, 3920-3930-blow, 3930-3940-blow, 3940-3950-blow, 3950-3960-blow, 3960-3970-blow, 3970-3980-blow, 3980-3990-blow, 3990-4000-blow, 4000-4010-blow, 4010-4020-blow, 4020-4030-blow, 4030-4040-blow, 4040-4050-blow, 4050-4060-blow, 4060-4070-blow, 4070-4080-blow, 4080-4090-blow, 4090-4100-blow, 4100-4110-blow, 4110-4120-blow, 4120-4130-blow, 4130-4140-blow, 4140-4150-blow, 4150-4160-blow, 4160-4170-blow, 4170-4180-blow, 4180-4190-blow, 4190-4200-blow, 4200-4210-blow, 4210-4220-blow, 4220-4230-blow, 4230-4240-blow, 4240-4250-blow, 4250-4260-blow, 4260-4270-blow, 4270-4280-blow, 4280-4290-blow, 4290-4300-blow, 4300-4310-blow, 4310-4320-blow, 4320-4330-blow, 4330-4340-blow, 4340-4350-blow, 4350-4360-blow, 4360-4370-blow, 4370-4380-blow, 4380-4390-blow, 4390-4400-blow, 4400-4410-blow, 4410-4420-blow, 4420-4430-blow, 4430-4440-blow, 4440-4450-blow, 4450-4460-blow, 4460-4470-blow, 4470-4480-blow, 4480-4490-blow, 4490-4500-blow, 4500-4510-blow, 4510-4520-blow, 4520-4530-blow, 4530-4540-blow, 4540-4550-blow, 4550-4560-blow, 4560-4570-blow, 4570-4580-blow, 4580-4590-blow, 4590-4600-blow, 4600-4610-blow, 4610-4620-blow, 4620-4630-blow, 4630-4640-blow, 4640-4650-blow, 4650-4660-blow, 4660-4670-blow, 4670-4680-blow, 4680-4690-blow, 4690-4700-blow, 4700-4710-blow, 4710-4720-blow, 4720-4730-blow, 4730-4740-blow, 4740-4750-blow, 4750-4760-blow, 4760-4770-blow, 4770-4780-blow, 4780-4790-blow, 4790-4800-blow, 4800-4810-blow, 4810-4820-blow, 4820-4830-blow, 4830-4840-blow, 4840-4850-blow, 4850-4860-blow, 4860-4870-blow, 4870-4880-blow, 4880-4890-blow, 4890-4900-blow, 4900-4910-blow, 4910-4920-blow, 4920-4930-blow, 4930-4940-blow, 4940-4950-blow, 4950-4960-blow, 4960-4970-blow, 4970-4980-blow, 4980-4990-blow, 4990-5000-blow, 5000-5010-blow, 5010-5020-blow, 5020-5030-blow, 5030-5040-blow, 5040-5050-blow, 5050-5060-blow, 5060-5070-blow, 5070-5080-blow, 5080-5090-blow, 5090-5100-blow, 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7580-7590-blow, 7590-7600-blow, 7600-7610-blow, 7610-7620-blow, 7620-7630-blow, 7630-7640-blow, 7640-7650-blow, 7650-7660-blow, 7660-7670-blow, 7670-7680-blow, 7680-7690-blow, 7690-7700-blow, 7700-7710-blow, 7710-7720-blow, 7720-7730-blow, 7730-7740-blow, 7740-7750-blow, 7750-7760-blow, 7760-7770-blow, 7770-7780-blow, 7780-7790-blow, 7790-7800-blow, 7800-7810-blow, 7810-7820-blow, 7820-7830-blow, 7830-7840-blow, 7840-7850-blow, 7850-7860-blow, 7860-7870-blow, 7870-7880-blow, 7880-7890-blow, 7890-7900-blow,



BOHNG/WELL ID: 584

SAMPLING METHOD: Acetate Sieve

[illegible][illegible]

Modifying the 3- α -androstenedione sulfate levels decreased with androstenedione sulfate sulfate

These results show that the size of the network is not a good indicator of the size of the population.

and a vector $\mathbf{v}$ is a linear combination of the columns of $\mathbf{A}$ if and only if $\mathbf{v} = \mathbf{A}\mathbf{x}$ for some vector $\mathbf{x}$.



Tetra Tech, Inc.
238 W. Hospitality Ln. Suite 100
San Bernardino, CA 92408
Telephone: (909) 381-1674
Telefax: (909) 381-1001

SOIL BORING LOG

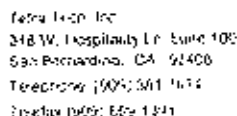
BORING/WELL ID: DSB1

CLIENT: GEM, Inc.
PROJECT NUMBER: 18116-01
LOCATION: Former Chemical Refinery

GEOLOGIST: D. Bortolucci
REVIEWED BY: _____
DATE(S) DRILLED: 05/16/2006
DRILLING COMPANY: Gregg Drilling, Inc.

TOTAL DEPTH: _____
BOREHOLE DIA.: 1.25"
DRILLING METHOD: CPT/DP
SAMPLING METHOD: Acetate Shovel

Depth (ft)	Soil Sample	Soil Color	Soil Moisture	% Gravel	% Sand	% Non-plastic Fines	% Plastic Fines	Gravel	Plasticity (Fines)	Angularity (Sand / Gravel)	Grain Size Range (Sand)	Grain Size Range (Gravel)	Max. Grain Size (Gravel)	Soil Moisture / Wet Condition
0.0	Surface	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1.0	1.0 - 1.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2.0	2.0 - 2.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3.0	3.0 - 3.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
4.0	4.0 - 4.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
5.0	5.0 - 5.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
6.0	6.0 - 6.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
7.0	7.0 - 7.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
8.0	8.0 - 8.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
9.0	9.0 - 9.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
10.0	10.0 - 10.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
11.0	11.0 - 11.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
12.0	12.0 - 12.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
13.0	13.0 - 13.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
14.0	14.0 - 14.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
15.0	15.0 - 15.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
16.0	16.0 - 16.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
17.0	17.0 - 17.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
18.0	18.0 - 18.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
19.0	19.0 - 19.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
20.0	20.0 - 20.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
21.0	21.0 - 21.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
22.0	22.0 - 22.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
23.0	23.0 - 23.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
24.0	24.0 - 24.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
25.0	25.0 - 25.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
26.0	26.0 - 26.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
27.0	27.0 - 27.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
28.0	28.0 - 28.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
29.0	29.0 - 29.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
30.0	30.0 - 30.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
31.0	31.0 - 31.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
32.0	32.0 - 32.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
33.0	33.0 - 33.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
34.0	34.0 - 34.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
35.0	35.0 - 35.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
36.0	36.0 - 36.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
37.0	37.0 - 37.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
38.0	38.0 - 38.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
39.0	39.0 - 39.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
40.0	40.0 - 40.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
41.0	41.0 - 41.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
42.0	42.0 - 42.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
43.0	43.0 - 43.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
44.0	44.0 - 44.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
45.0	45.0 - 45.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
46.0	46.0 - 46.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
47.0	47.0 - 47.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
48.0	48.0 - 48.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
49.0	49.0 - 49.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
50.0	50.0 - 50.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
51.0	51.0 - 51.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
52.0	52.0 - 52.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
53.0	53.0 - 53.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
54.0	54.0 - 54.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
55.0	55.0 - 55.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
56.0	56.0 - 56.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
57.0	57.0 - 57.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
58.0	58.0 - 58.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
59.0	59.0 - 59.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
60.0	60.0 - 60.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
61.0	61.0 - 61.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
62.0	62.0 - 62.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
63.0	63.0 - 63.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
64.0	64.0 - 64.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
65.0	65.0 - 65.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
66.0	66.0 - 66.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
67.0	67.0 - 67.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
68.0	68.0 - 68.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
69.0	69.0 - 69.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
70.0	70.0 - 70.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
71.0	71.0 - 71.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
72.0	72.0 - 72.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
73.0	73.0 - 73.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
74.0	74.0 - 74.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
75.0	75.0 - 75.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
76.0	76.0 - 76.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
77.0	77.0 - 77.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
78.0	78.0 - 78.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
79.0	79.0 - 79.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
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81.0	81.0 - 81.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
82.0	82.0 - 82.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
83.0	83.0 - 83.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
84.0	84.0 - 84.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
85.0	85.0 - 85.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
86.0	86.0 - 86.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
87.0	87.0 - 87.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
88.0	88.0 - 88.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
89.0	89.0 - 89.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
90.0	90.0 - 90.5	Light Brown	Moist	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
91.0	91.0 - 91.5	Light Brown	Moist	0%	100%	0%								



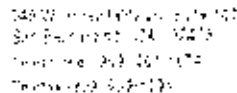
BORING/WELL ID: E-1

GEOLOGIST: D. Bertolacci
REVIEWED BY: _____
DATE(S) DRILLED: _____
DRILLING COMPANY: _____

TOTAL DEPTH:
BOREHOLE DIA.:
DRILLING METHOD:
SAMPLING METHOD:

[illegible]

Well Graded - 5 or more different sizes, % decreases with each decreasing particle size
Poorly Graded - one or more particle sizes missing (Gap Graded) or all particles basically same size (Uniform Graded)



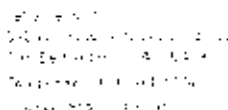
BORING/WELL ID: E-1A

LOCATION Former Chemical Refinery

DRILLING COMPANY: Gregg Drilling, Inc.

SAMPLING METHOD ~~Agar~~ Sieve

1. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the status of the land owned by the United States in the State of Nevada:



BORING/WELL ID: E-18

TOTAL DEPTS. 34'

9074670.0 DIA 1.25"

CHILDRICK, M. J. & COLEMAN, C. H. 1977

7. $\text{Al}_2\text{S}_3 + 6\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2\text{S}$ ~~Aluminum Sulfide~~

1. What is the purpose of the study?
The purpose of the study is to determine the effect of the use of the computer on the learning of the English language in the classroom.



101 W. Highway 101, Suite 100
 San Bernardino, CA 92415
 Telephone: (909) 399-1111
 Telex: 309-474-1111

SOIL BORING LOG

BORING/WELL ID: E-1C

CLIENT GEM, Inc.

GEOLOGIST: D. Bertolacci

TOTAL DEPTH

PROJECT NUMBER 18116-04

REVIEWED BY:

BORERHOLE DIA: 7.5"

LOCATION Former Chemoil Refinery

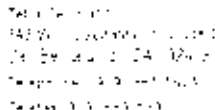
DATE(S) DRILLED: 6/01 / 2006

DRILLING METHOD: CPT/DP

DRILLING COMPANY Gregg Drilling, Inc.

SAMPLING METHOD: Auger No Gleeve

Depth (ft) from Sample Recovery Point	Sample Number	Sampling Time	Soil Type HID PID	Geologic Contact to Top	GROUP SYMBOL	GROUP NAME / GEOLOGIC DESCRIPTION / ADDITIONAL MODIFIERS	Comments / Well Construction
1.0							
2.0							
3.0							
4.0							
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							
14.0							
15.0							
16.0							
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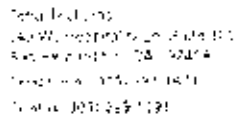
BORING/WELL ID: E-34

LOCATION: Framet Chemical Solvent

DRILLING COMPANY	Gregg Drilling Inc.
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SAMPLING METHOD *Antibiotic Syringe*

1. *Journal of the American Medical Association*, 1974; 230: 1000-1001.



BORING/WELL ID: E-5

TOTAL DEPTH: 53'

BCREF401521A 1351

DEFLUNG METHOD CPT:08

SAMPLING METHOD *Agaric Sterilized*

PROJECT NUMBER 18116-004

LOCATION: Bremer Canyon Bridge

Depth (ft. depth)		Sample Recovery		Below Gravel		Section Number		Section Title		Soil color		Soil Moisture		Soil Temperature		Soil pH		Soil Conductivity		Soil Resistivity		Soil Permeability		Soil Saturation		Soil Grain Size		Soil Organic Content		Soil Nutrient Content		Soil Contaminant Concentration		Soil Use	
Depth (ft. depth)		Sample Recovery		Below Gravel		Section Number		Section Title		Soil color		Soil Moisture		Soil Temperature		Soil pH		Soil Conductivity		Soil Resistivity		Soil Permeability		Soil Saturation		Soil Grain Size		Soil Organic Content		Soil Nutrient Content		Soil Contaminant Concentration		Soil Use	
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$\frac{d}{dt} \left(\frac{1}{\rho} \right) = - \frac{1}{\rho^2} \frac{d\rho}{dt}$

[illegible][illegible][illegible]

EXHIBIT 3 – PART IV

WELL CONSTRUCTION DETAILS (1987-Present)

WELL: MW-1

PROJECT NAME : MACMILLAN BLIND - FILL CARSON TANK FARM

PROJECT NO. 532-451

LOCATION/COORDINATES : North End of Site

RIG TYPE: Mobile Well

SCHEDULE

WATER LEVEL

INITIATED: 9-21-87

DEPTH: 28.85

COMPLETED: 9-21-87

DATE: 10-1-87

BACKFILLED: NA

TIME: NA

CASING ELEVATION: 16.58

GROUND ELEVATION: 15.00

WELL DEPTH: 44'

BORING DEPTH: 45'

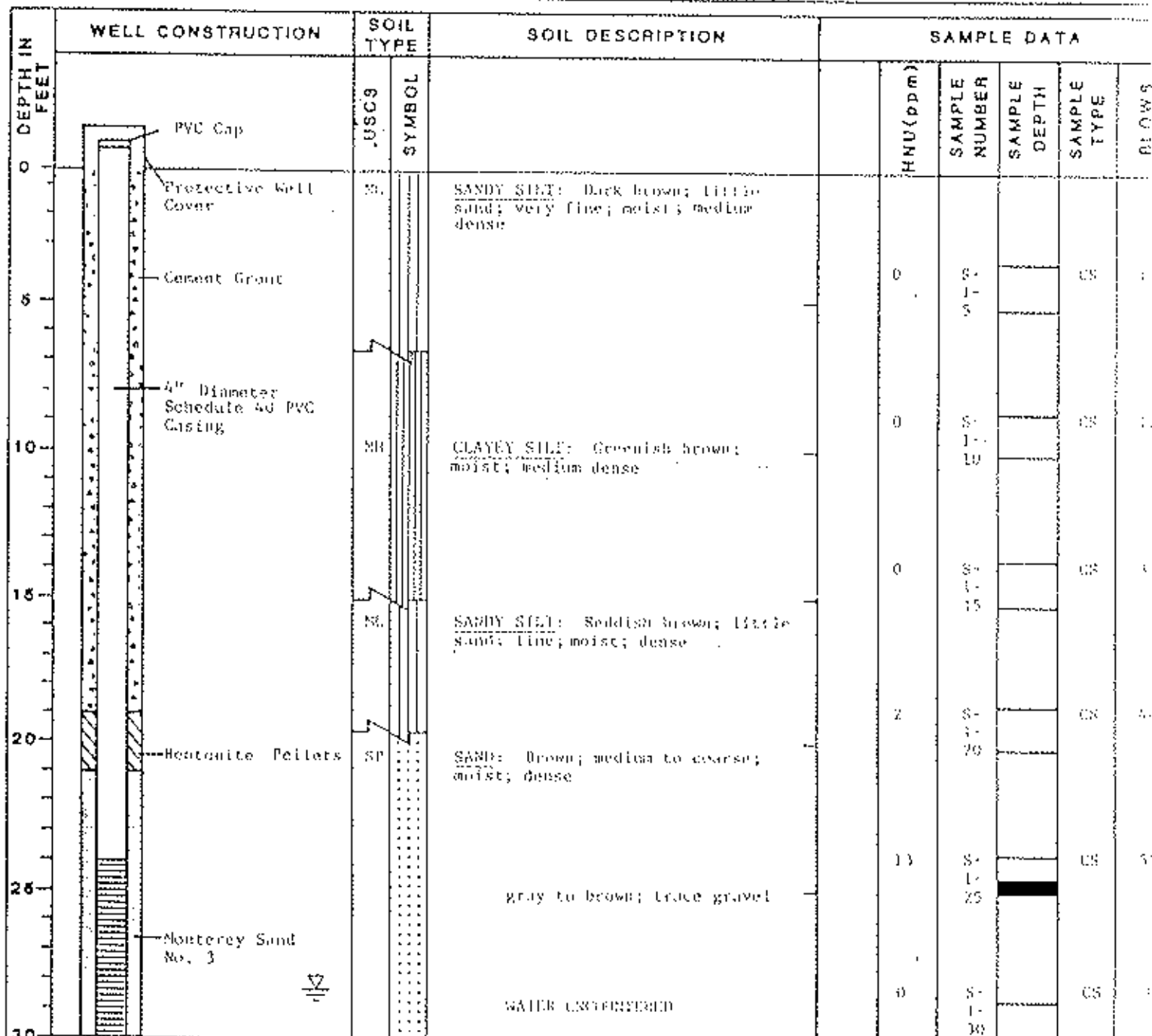
SAMPLING METHOD: California Sampler (CS)

DRILLING CO: Baker Exploration

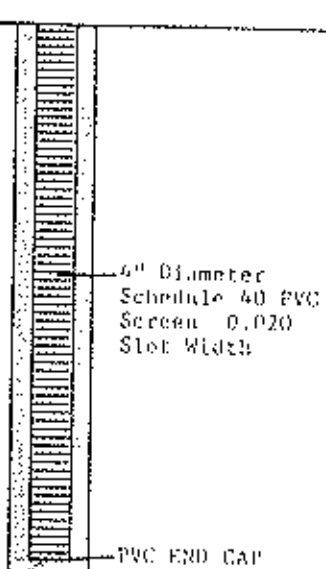
DRILLED BY: James R. Brown

LOGGED BY: Kevin Van Sargent

SHEET 1 OF 2



Denotes Laboratory Sample

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
		USCS	SYMBOL		MMU (ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	
30	 4" Diameter Schedule 40 PVC Screen 0.020 Slot Width PVC END CAP			very wet					
35				little silt					
40				CLAYEY SILT; Green; very moist					
45									
50									
55									
60									
65									
70									

WELL: MW-1A		BORING:		FILE NAME: MW1A	
PROJECT NAME: MACMILLAN RING-FREE				PROJECT NO. 512-085.05	
LOCATION/COORDINATES:				RIG TYPE: B-61	
SCHEDULE		WATER LEVEL		SAMPLING METHOD: CS	
INITIATED: 4-4-88		DEPTH: 25.0'		DRILLING CO: Datum Exploration	
COMPLETED: 4-4-88		DATE: 4-4-88		DRILLED BY: Dudley Zuidema	
BACKFILLED:		TIME:		LOGGED BY: D. Hayes	
CASING ELEVATION: 22.86		GROUND ELEVATION: 21.46		SHEET 1 OF 2	
WELL DEPTH: 34.0'		BORING DEPTH: 25.0			

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA					
		U S C S	S Y M B O L		S A M P L E	D E P T H	T Y P E	B L O W S	P I D	ppm
0	8" Dia. Locking Metal Well Cover									
	PVC End Cap	ML								
5	4" Dia. Sch 40 PVC Casing			SANDY SILT: Greenish-gray; fine; micaceous; moist			CS	25	5	
	Cement/Bentonite Grout									
10	Bentonite Seal						CS	29	5	
15	Monterey Sand #3	SP		SAND: Greenish-gray; fine to very fine; trace shell fragments; micaceous; moist			CS	22	10	
20	4" Dia. Sch 40 PVC (0.020" Slot Size)			gray: fine to medium			CS	75	10	



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DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA					
		USCS	SYMBOL		SAMPLE NUMBER	DEPTH	TYPE	BLOWS	PID ppm	
25	4" Dia. Sch 40 PVC Screen (0.020" Slot Size)	SP		SAND: Gray; fine to very fine; micaceous; wet			CS	71	15	
30	Monterey Sand #3									
35	PVC Threaded End Cap									
40										
45										
50										

E E I

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WELL: MW-2

PROJECT NAME : MACHILLAN RING - FREE CARSON TANK FARM

PROJECT NO. 512-251

LOCATION/COORDINATES : Southwest area of Tank Farm

RIG TYPE: Mobile Well
California Sample

SCHEDULE

WATER LEVEL

INITIATED: 9-21-87

DEPTH: 30.71

COMP: 160 9-21-87

DATE: 10-1-87

BACKFILLED: NA

TIME: NA

CASING ELEVATION: 18.09

GROUND ELEVATION: 16.40

WELL DEPTH: 45'

BORING DEPTH: 40'

SAMPLING METHOD: (CS)

DRILLING CO: Saturn Exploration

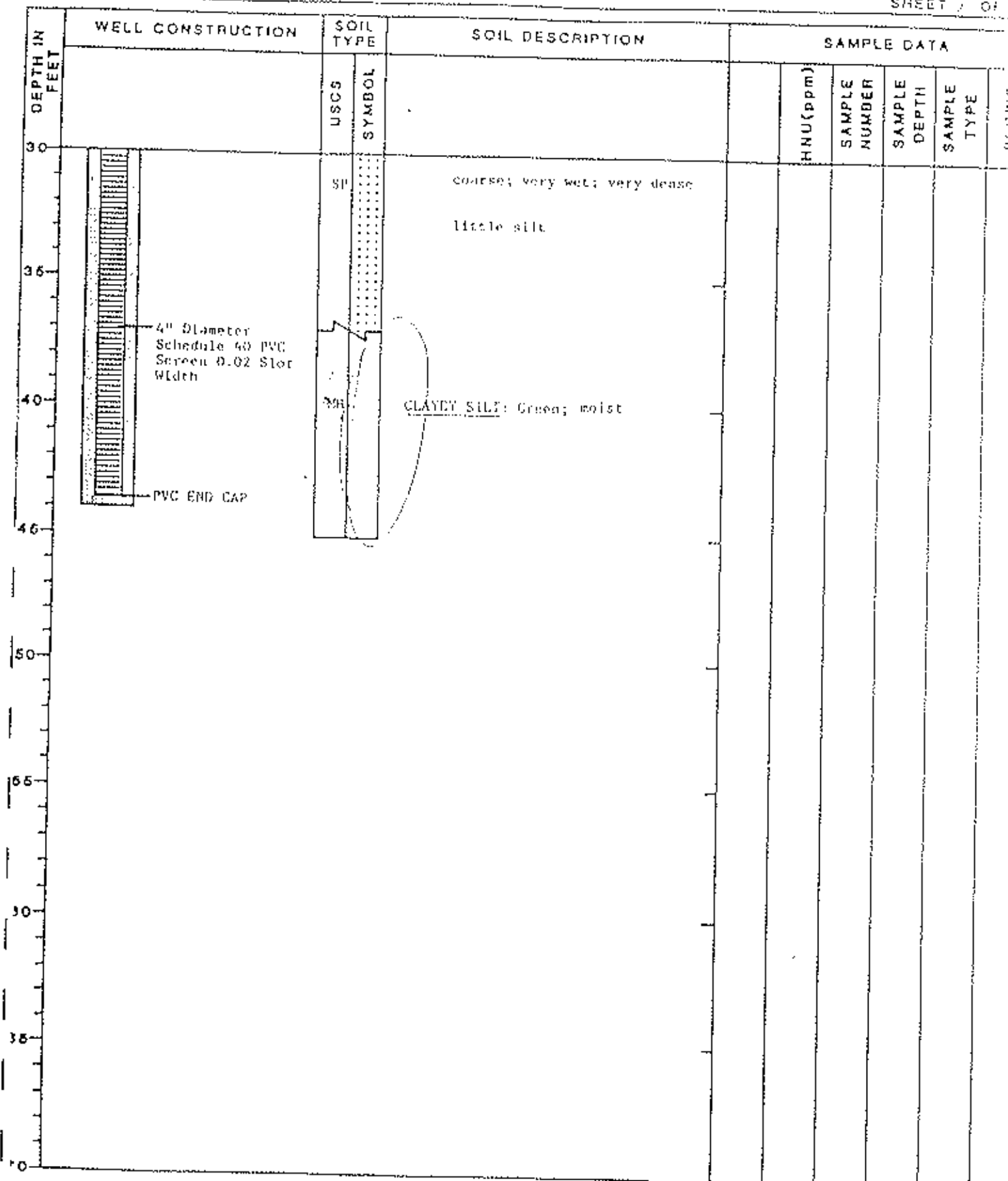
DRILLED BY: James E. Hearn

LOGGED BY: Bryan Van Kester

SHEET 1 OF 1

DEPTH IN FEET	WELL CONSTRUCTION		SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
			USCS	SYMBOL		RMU (ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	FLUWS
0	PVC Cap									
	Protective Well Cover				SANDY SILT: Dark brown; little sand; very fine; moist; very loose					
5	Cement Grout					0	S-2-5		CS	1
10	4" Diameter Schedule 40 PVC Casing		MH		CLAYEY SILT: Dark brown; moist; medium dense	0	S-2-10		CS	1
15			ML		SANDY SILT: Dark brown; little sand; very fine; moist; very loose	0	S-2-15		CS	21
20	Bentonite Pellets		SP		SAND: Brown; fine to medium; trace silt; moist; medium dense	2	S-2-20		CS	21
25	Monterey Sand No. 1				Light to medium brown; medium to coarse; trace gravel; moist; dense	3	S-2-25		CS	61
30					WATER ENCOUNTERED	0	S-2-30		CS	61

Denotes Laboratory Sample

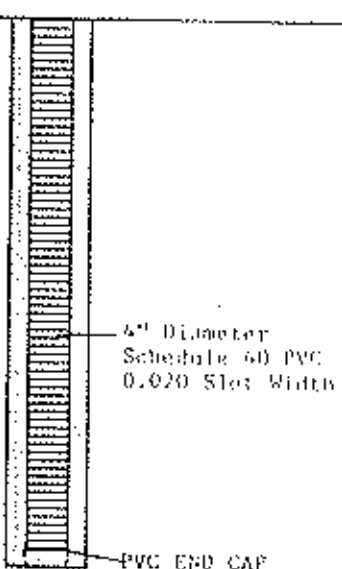


WELL: MW-3

PROJECT NAME : MACHILLAM RING - FREE CARSON TANK FARM		PROJECT NO. 512-257
LOCATION/COORDINATES : West Central Area of Tank Farm		RIG TYPE: Mobile Bore
SCHEDULE	WATER LEVEL	SAMPLING METHOD: (CS)
INITIATED: 9-21-87	DEPTH: 29.82	DRILLING CO: Dames Exploration
COMPLETED: 9-22-87	DATE: 10-1-87	DRILLED BY: Jerry Kilburn
BACKFILLED: NA	TIME: RA	LOGGED BY: Bryan Van Noyen
CASING ELEVATION: 17.72	GROUND ELEVATION: 16.00	
WELL DEPTH: 44'	BORING DEPTH: 45'	SHEET 1 OF 2

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA					
		USCS	SYMBOL		HNU (ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	BLOWS	
0	PVC Cap	ML		SANDY SILT: Dark brown; little sand; fine; moist; loose				CS	8	
6	Cement Grout	ML			0	S-3-5		CS		
10	4" Diameter Schedule 40 PVC Casing	ML		SILT: Dark brown; wet; medium dense	0	S-3-10		CS	11	
16		ML		SANDY SILT: Reddish brown; some sand; fine; slightly moist; medium dense	0	S-3-15		CS	20	
20	Bentonite Pellets	SP		green; fine to medium; moist; hydrocarbon odor	3	S-3-20		CS	17	
25	Monterey Sand No. 3	SP		SAND: Green to gray; medium; trace gravel; very moist; dense	11	S-1-25		CS	17	
30				WATER ENCOUNTERED	0	S-3-30		CS	64	

Denotes Laboratory Sample

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
		USCS	SYMBOL		HNH(ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	STOPS
30	 4" Diameter Schedule 60 PVC 0.020 Slot Width PVC END CAP	SP		medium to coarse; little gravel					
35		MI		fine to medium; some silt					
40				CLAYEY SILT: Reddish brown; trace sand; fine; moist					
45									
50									
55									
60									
65									
70									

WELL: MW-4

PROJECT NAME : NACHILLAN RICE - FREE CARSON TANK FARM

PROJECT NO. 512-251

LOCATION/COORDINATES : Southwest corner of Tank Farm

RIG TYPE: Mobile Bore

SCHEDULE

WATER LEVEL

INITIATED: 9-22-87

DEPTH: 30.44

COMPLETED: 9-27-87

DATE: 10-1-87

BACKFILLED: NA

TIME: NA

CASING ELEVATION: 18.32

GROUND ELEVATION: 14.80

WELL DEPTH: 44'

BORING DEPTH: 47'

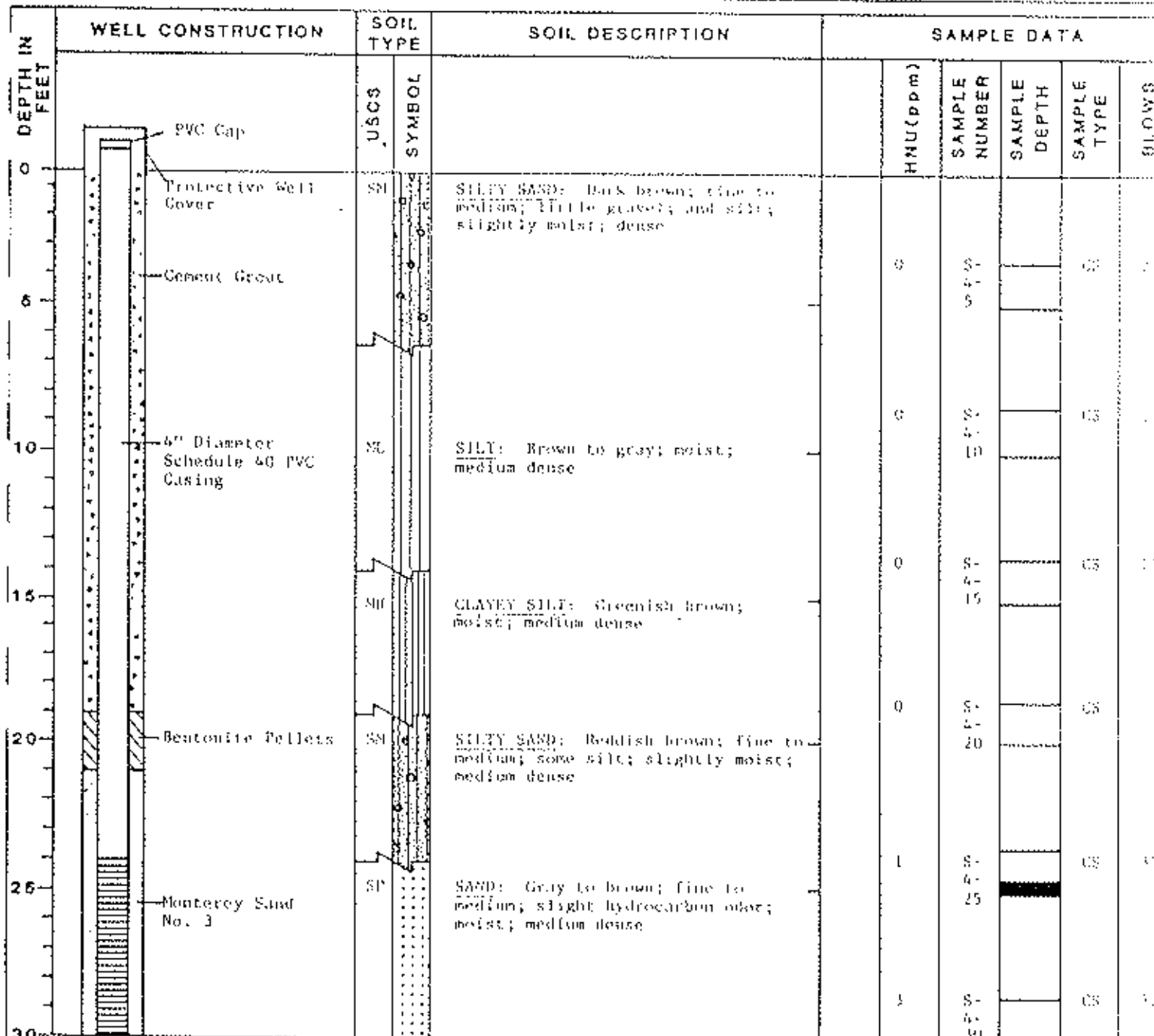
SAMPLING METHOD: California Sampler

DRILLING CO: Datum Exploratory

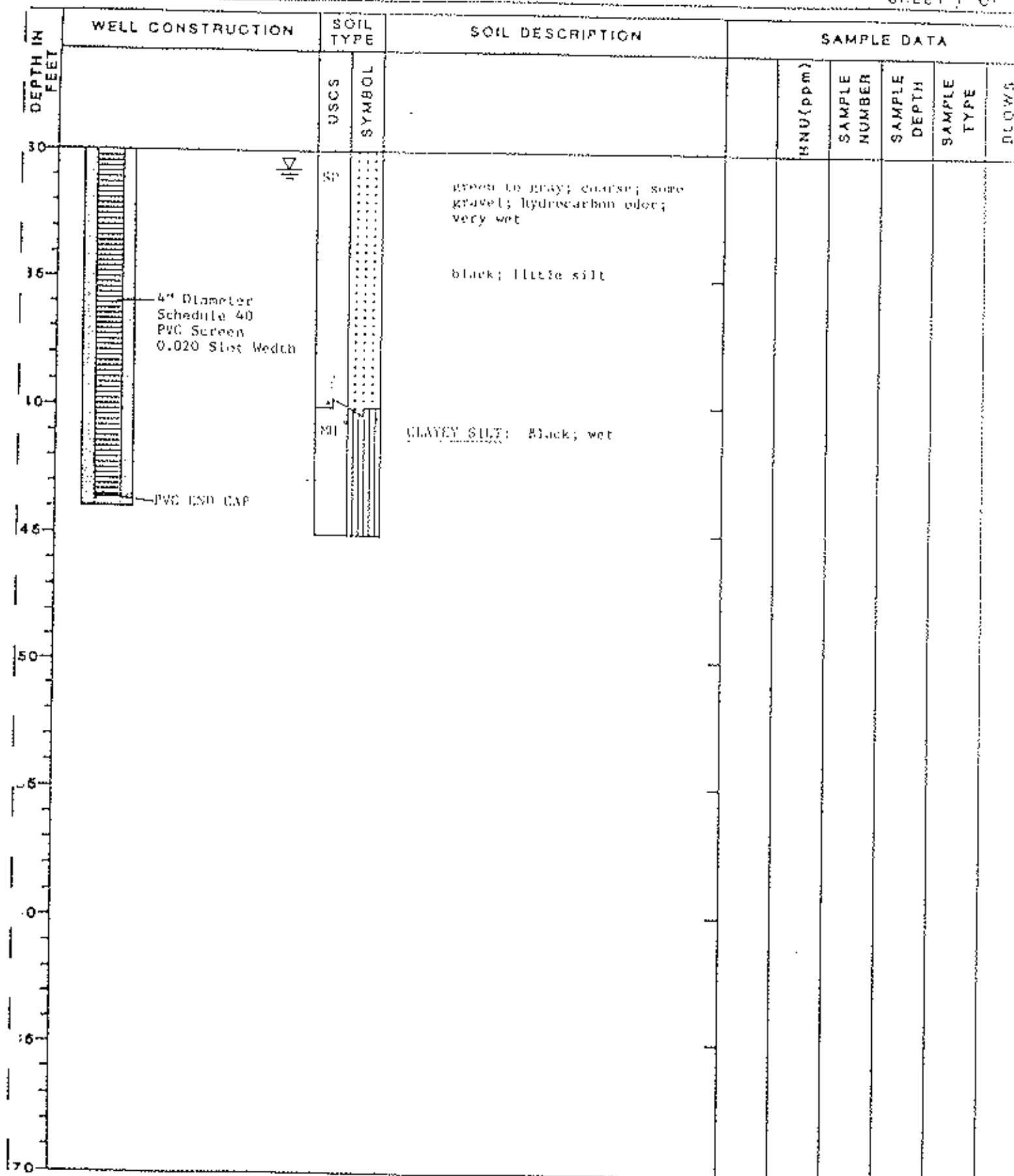
DRILLED BY: James R. Smith

LOGGED BY: Bryan Van Wagner

SHEET 1 OF 2



Denotes Laboratory Sample



WELL: MW-5

PROJECT NAME : MACMILLAN FERT + FUEL CARGON TANK FARM

PROJECT NO. 512-251

LOCATION/COORDINATES : Admin Office Building

RIG TYPE: Mobile Drill

California Sampling

SAMPLING METHOD: CCS

SCHEDULE

WATER LEVEL

INITIATED: 6-22-87

DEPTH: 30.27

COMPLETED: 6-23-87

DATE: 10-1-87

BACKFILLED: NA

TIME: NA

CASING ELEVATION: 17.61

GROUND ELEVATION: 15.60

WELL DEPTH: 44'

BORING DEPTH: 44'

DRILLING CO: Barnes Exploration

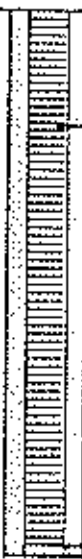
DRILLED BY: James Futhum

LOGGED BY: Bryan Van Sapp

SHEET: OF 2

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
		USCS	SYMBOL		HNU (ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	BLOWS
0	PVC Cap								
	Protective Well Cover	ML		Silt: Dark brown; slightly moist; medium dense				CS	
6	Cement Grout				0	S-2-5		CS	
10	4" Diameter Schedule 40 PVC Casing	SH		SILTY SAND: Dark brown; fine to very fine; and silt; moist; loose	0	S-5-10		CS	
15				reddish brown; fine to medium; wet; medium dense	0	S-5-15		CS	
20	Bentonite Pellets	SP		SAND: Greenish brown; fine to medium; moist; dense	0	S-5-20		CS	
25	Monterey Sand No. 3			green to gray; medium trace gravel; very moist; dense	0	S-5-25		CS	
30				WATER ENCOUNTERED	0	S-5-30		CS	

■ Denotes Laboratory Sample

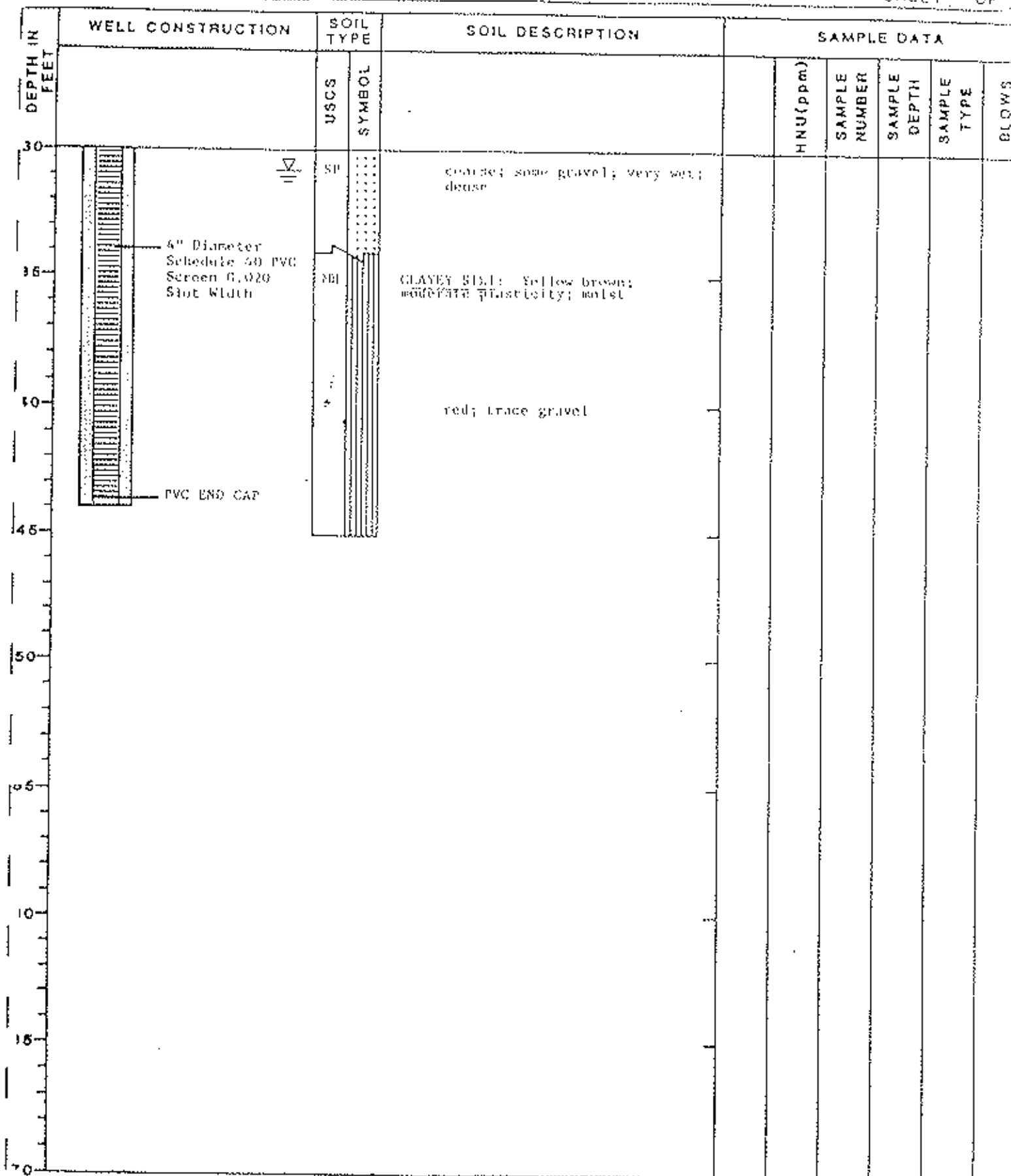
DEPTH IN FEET	WELL CONSTRUCTION		SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
			USCS	SYMBOL		HNU(ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	BLOWS
30	 4" Diameter Schedule 40 PVC Screen 0.020 5102 WIDTH PVC END CAP				coarse; some gravel; very wet; very dense					
36					black; medium to coarse; hydrocarbon odor					
40			MR		<u>CLAYEY SILT</u> : Green; very moist					
46										
50										
56										
60										
66										
70										

WELL: MW-6

PROJECT NAME : MACMILLAN BLVD. - FRIED CARSON TANK FARM		PROJECT NO. 512-751
LOCATION/COORDINATES : West Side of East Tank Farm Area		RIG TYPE: Mobile B-61
SCHEDULE	WATER LEVEL	SAMPLING METHOD: California Sampler
INITIATED: 9-23-87	DEPTH: 39.54	SAMPLING METHOD: (CS)
COMPLETED: 9-23-87	DATE: 10-1-87	DRILLING CO: Datus Explorations
BACKFILLED: NA	TIME: NA	DRILLED BY: James Kilburn
CASING ELEVATION: 17.96	GROUND ELEVATION: 16.30	LOGGED BY: Bryan Van Wagner
WELL DEPTH: 56'	BORING DEPTH: 43'	SHEET 1 OF 2

DEPTH IN FEET	WELL CONSTRUCTION		SOIL TYPE	SOIL DESCRIPTION	SAMPLE DATA				
	USCS	SYMBOL			HNU(ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	BLOWS
0			ML	SANDY SILT: Brown; little sand; fine to very fine; slightly moist	0	5-6-25		CS	1
6				SILT: Dark brown; moist; medium dense					
10			MR	CLAYEY SILT: Greenish brown; slightly wet; loose	0	5-6-10		CS	1
16			SM	SILTY SAND: Reddish brown; fine; and silt; slight hydrocarbon odor; moist; medium dense	5	5-6-15		CS	1
20				medium; little clay; hydrocarbon odor; medium dense	0	5-6-20		CS	1
26			SP	SAND: Gray to brown; medium; slight hydrocarbon odor; moist; dense	0	5-6-25		CS	1
30					7	5-6-30		CS	1

Denotes Laboratory Sample



WELL: MW-7

PROJECT NAME : MACMILLAN RING - FREE CARSON TANK FARM

PROJECT NO. 512-751

LOCATION/COORDINATES : Central Area of Site

RIG TYPE: Mobile B-61

SCHEDULE

WATER LEVEL

INITIATED: 9-23-87

DEPTH: 29.93

COMPLETED: 9-23-87

DATE: 09-23-87

BACKFILLED: NA

TIME: NA

CASING ELEVATION: 17.63

GROUND ELEVATION: 16.30

WELL DEPTH: 45'

BORING DEPTH: 45'

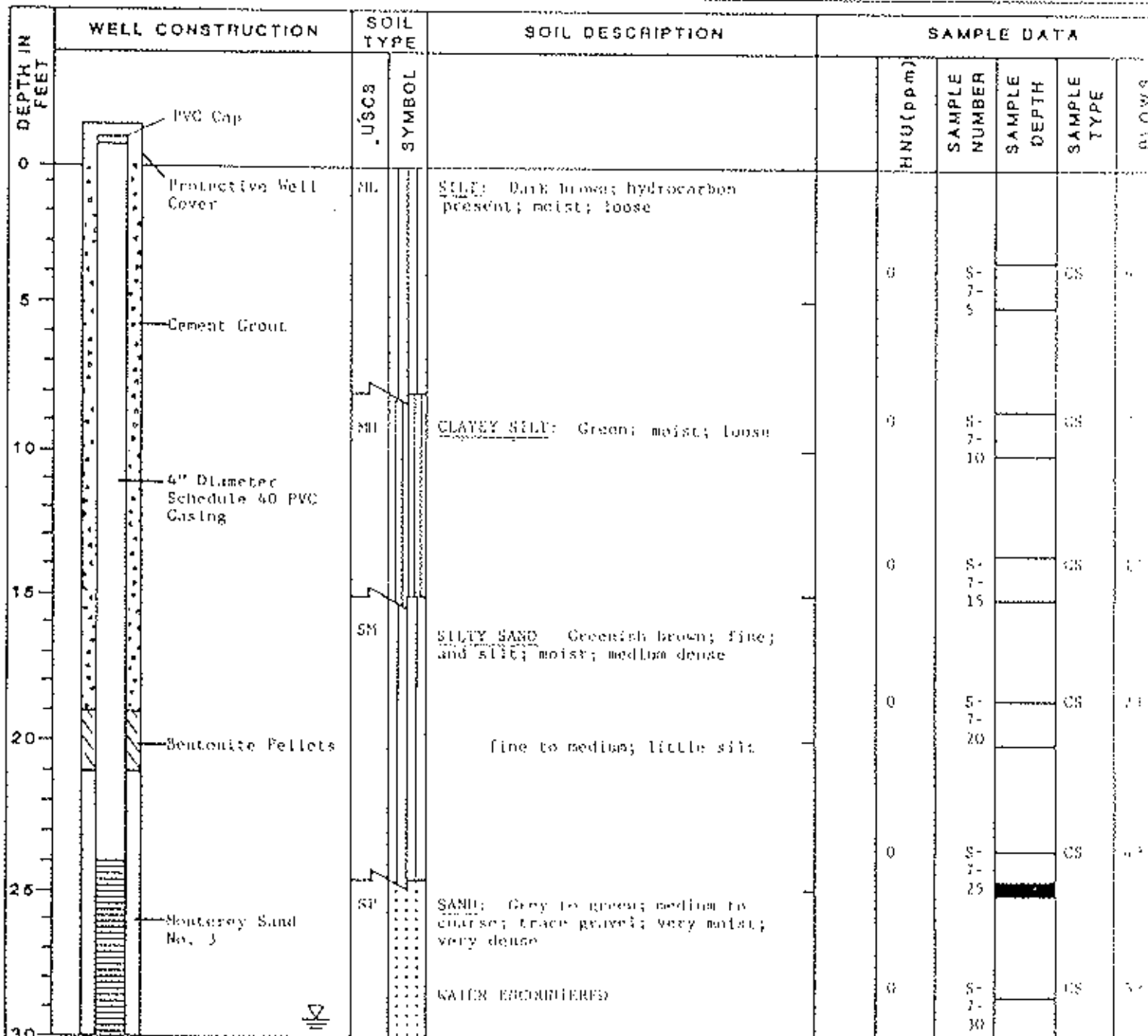
SAMPLING METHOD: 1055

DRILLING CO: Dutton Exploration

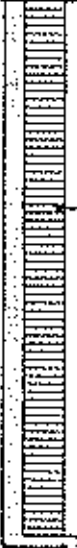
DRILLED BY: James Kilburn

LOGGED BY: Bryan Van Buren

SHEET 1 OF 2

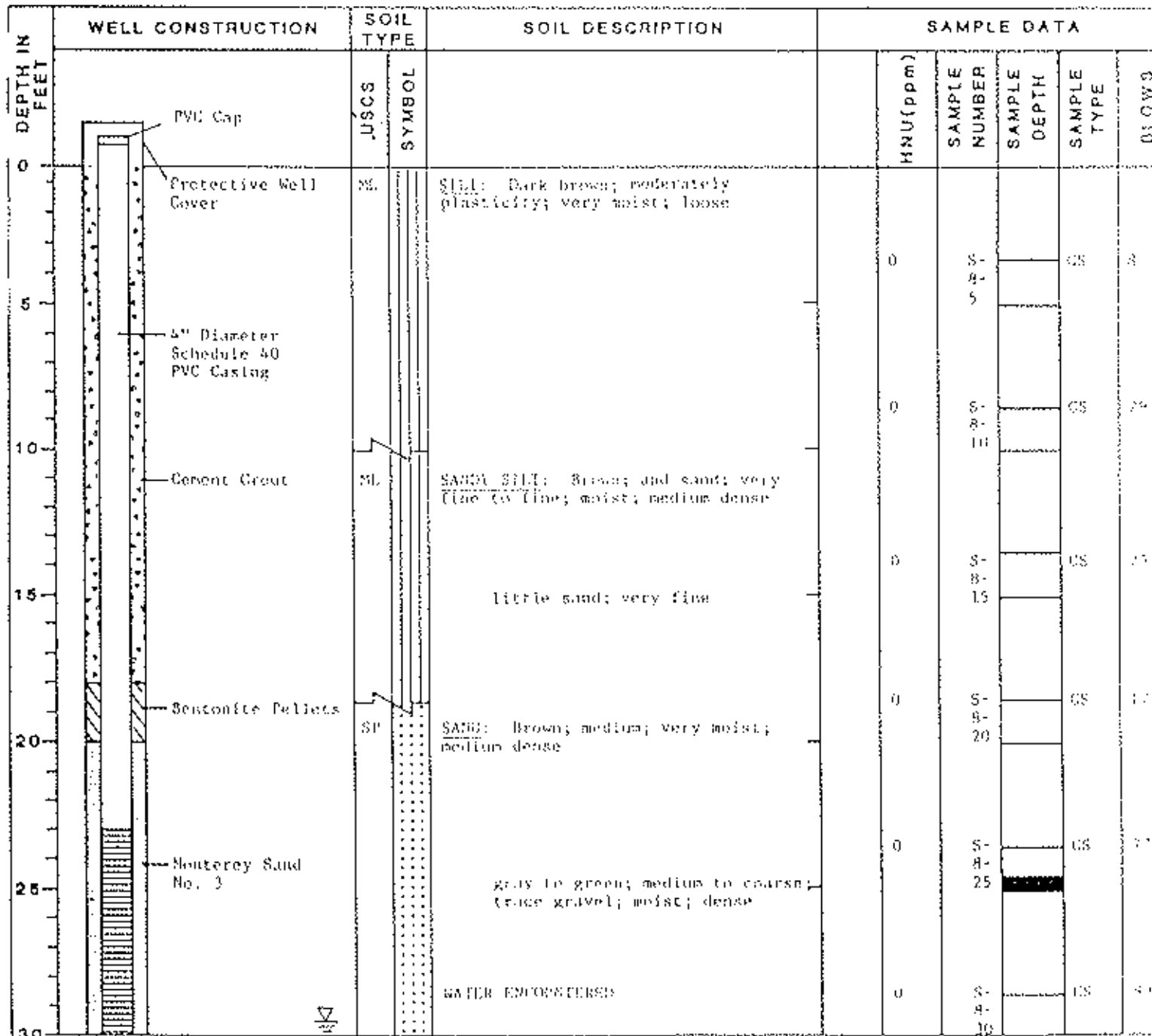


Denotes Laboratory Sample

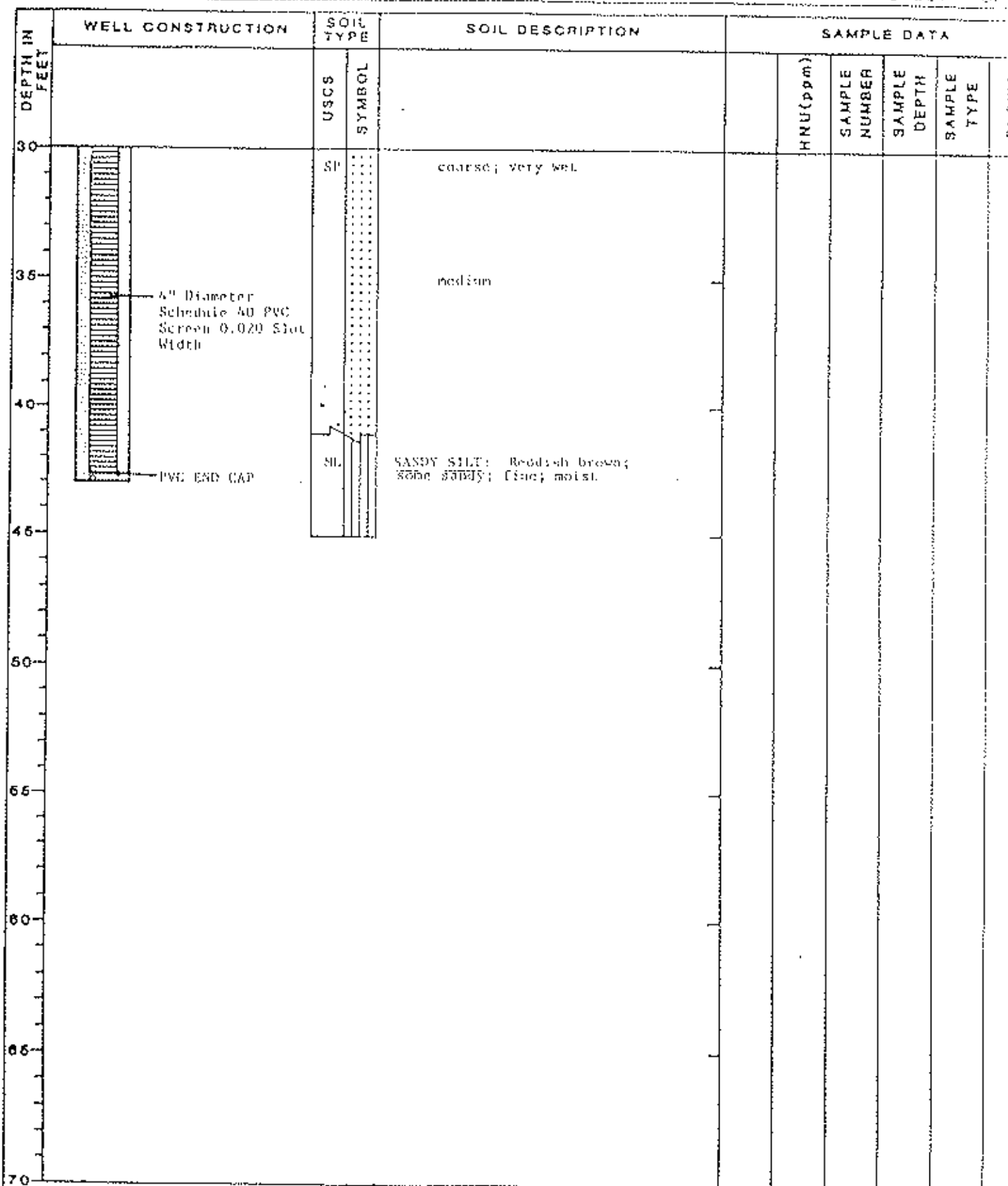
DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
		USCS	SYMBOL		WNU(ppm)	SAMPLE NUMBER	SAMPLE DEPTH	SAMPLE TYPE	BLOWS
30	 4" Diameter Schedule 40 PVC Screen 0.020 Slot Width PVC END CAP	SP		coarse; some gravel; very wet; very dense					
36				dark gray; medium to coarse; strong hydrocarbon odor					
40		NH		CLAYEY SILT: Green; little sand; wet					
46									
50									
56									
60									
66									
70									

WELL: MW-8

PROJECT NAME : MAGNELLAS RING - FREE CARSON DASH FARM		PROJECT NO. 512-751
LOCATION/COORDINATES : East Side of Main Tank Farm		RIG TYPE: Mobile Drill
SCHEDULE	WATER LEVEL	SAMPLING METHOD: California Sampler (US)
INITIATED: 9-24-87	DEPTH: 29.71	DRILLING CO: Dalton Exploration
COMPLETED: 9-24-87	DATE: 10-1-87	DRILLED BY: James Ellburn
BACKFILLED: NA	TIME: 10	LOGGED BY: Bryan Van Wageningen
CASING ELEVATION: 17.49	GROUND ELEVATION: 15.10	SHEET 1 OF 2
WELL DEPTH: 43'	BORING DEPTH: 43'	



■ Denotes Laboratory Sample



WELL: MW-9		BORING:		FILE NAME: MW9	
PROJECT NAME: MACMILLAN RING-FREE				PROJECT NO. 512-085.05	
LOCATION/COORDINATES:				RIG TYPE: B-61	
SCHEDULE		WATER LEVEL		SAMPLING METHOD: CS	
INITIATED: 4-5-88		DEPTH: 35.0		DRILLING CO: Datum Exploration	
COMPLETED: 4-5-88		DATE: 4-5-88		DRILLED BY: Dudley Zuidema	
BACKFILLED:		TIME:		LOGGED BY: D. Hayes	
CASING ELEVATION: 36.73		GROUND ELEVATION: 35.35		SHEET 1 OF 2	
WELL DEPTH: 49.0		BORING DEPTH: 35.0			

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
		US CS S	SY MBOL		S A M P L E R	D E P T H	T Y P E	B L O W S	P I D ppm
0	8" Dia. Locking Metal Well Cover								
	PVC End Cap	ML							
5	Cement/ Bento- nite Grout			SANDY SILT: Brown; fine to very fine; trace fine gravel; micaceous; moist			CS	43	0
10	4" Dia. Sch 40 PVC Casing						CS	27	0
15		SP		SAND: Light brown; fine to very fine; trace shell fragments; micaceous; slightly moist			CS	90	0
20							CS	95	0



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WELL: MW-9

Cont.

BORING:

Cont.

FILE NAME: MW9-2

SHEET 2 OF 2

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA					
		USCS	SYMBOL		SAMPLE NUMBER	DEPTH	TYPE	B L O W S	P I D ppm	
25	Bento- nite Seal	SP		SAND: Grey; fine to very fine; micaceous; moist						
30	Monterey Sand #3			greenish-gray; trace silt; trace iron staining			CS	68	0	
35	4" Dia. Sch 40 PVC Screen (0.020" Slot Size)			wet			CS	70	20	
40										
45										
50	PVC Threaded End Cap									

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WELL: MW-10

BORING:

FILE NAME: MW10

PROJECT NAME: MACMILLAN RING-FREE

PROJECT NO. 512-085.05

LOCATION/COORDINATES:

RIG TYPE: B-61

SCHEDULE

WATER LEVEL

SAMPLING METHOD: C.S.

INITIATED: 4-4-88

DEPTH: 32.0'

DRILLING CO:
Datum Exploration

COMPLETED: 4-5-88

DATE: 4-5-88

DRILLED BY:
Dudley Zuidema

B. DRILLED:

TIME:

LOGGED BY: D. Hayes

CASING ELEVATION: 31.39

GROUND ELEVATION: 29.82

SHEET 1 OF 2

WELL DEPTH: 46.0'

BORING DEPTH: 40.0'

DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA					
		US CS S	SY MB OL		S A M P L E R	D E P T H	T Y P E	B L O W S	P I D ppm	
0	8" Dia. Locking Metal Well Cover									
	PVC End Cap	ML								
	Cement/ Bento- nite Grout			SANDY SILT: Green; fine; trace small gravel; moist			CS	70	5	
	4" Dia. Sch 40 PVC Casing			brown; mica- ceous; clay blebs- trace			CS	24	5	
15				SAND: Gray; fine to medium; moist			CS	57	15	
20	Bento- nite Seal	SP		fine to very fine; trace shell frag- ments			CS	41	10	

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DEPTH IN FEET	WELL CONSTRUCTION	SOIL TYPE		SOIL DESCRIPTION	SAMPLE DATA				
		U S C S	S Y M B O L		S A M P L E R	D E P T H	T Y P E	B L O W S	P I D ppm
2	Bentonite Seal	SP							
2	4" Dia. Sch 40 PVC Casing			SAND: Gray; fine to very fine; trace shell fragments; micaceous; moist			CS	86	20
3							CS	53	20
5	4" Dia. Sch 40 PVC Screen (0.020" slot size)	SM		SILTY SAND: Greenish gray; some organics; trace iron staining; wet			CS	62	15
40	Monterey Sand #3	SP		SAND: Gray; fine to very fine; some shell fragments; wet			CS	45	20
45	PVC Threaded End Cap								
50									



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PROJECT NAME: Former Chemoil refinery site - Phase II assessment		PROJ. NO. 94-1008
LOCATION: On-site adjacent to former R-4 in Western Parcel		WELL NO. MW-11
SCHEDULE INITIATED: 2:00 P. M. COMPLETED: 6:30 P. M. CASING ELEVATION: Not determined SCREEN ELEVATION: Not determined WATER LEVEL DEPTH: Approx. 30 feet bgs. DATE: 04/27/09 TIME: 3:30 P. M. WELL DEPTH: Approx. 45 feet bgs. SHEET: 1 of 2 LOGGED BY: S. M. Testa SAMPLING METHOD: HSA DRILLED BY: D.C. Castillo DRILLING CO: Gregg Drilling RIG TYPE: Mobile truck mounted rig		

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
1		ML					
2							
3							
4							
5				6-5.5	S-11-5	3500	Silt: dark greenish gray (5GY 4/1); moist; slight hydrocarbon odor.
6		ML					
7							
8							
9							
10				10-10.5	S-11-10	4000	same
11							
12							
13							
14							
15		SP		15-15.5	S-11-15	10000	SAND: light olive gray (5Y 6/2); fine to very fine; slightly moist, moderate hydrocarbon odor.
16							
17							
18							
19							
20				20-20.5	S-11-20	18000	olive gray (5Y 5/2); very fine to fine, trace silt; moist; slight to moderate hydrocarbon odor.
21							
22							
23							
24							
25				25-25.5	S-11-25	25000	gray (5Y 6/1); very fine to fine, trace silt; moist; moderate to strong hydrocarbon odor.
26							



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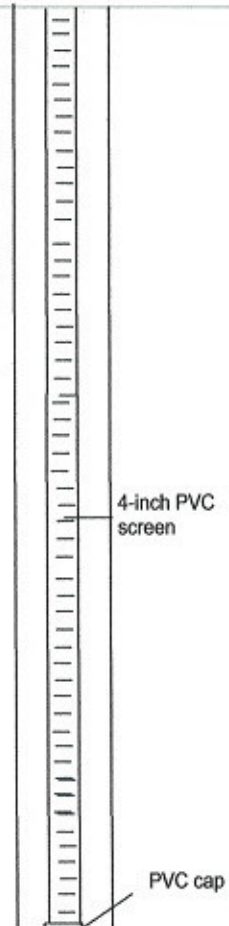
PROJECT NO. 94-1008

FILE: 65

FIGURE NO.

DATE: September 2009

DRAWN BY: SMT

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
26		SP					SAND (Continued): gray (5Y 6/1); very fine to fine, trace silt; moist; moderate to high hydrocarbon odor.
27							
28							
29							
30		SM		30-30.5	S-11-30	45,000	SILTY SAND: dark gray (5Y 4/1); very fine to fine, trace silt; siltier with depth; very moist; wet; strong hydrocarbon odor.
31							
32							
33							
34							
35		ML		35-35.5	S-11-35	1000	SANDY SILT: dark greenish gray (5GY 4/1); very fine; laminated (<fmm.); moist; slight hydrocarbon odor.
36							
37							
38							
39							
40		SM		40-40.5	S-11-40	30,000	SILTY SAND: dark greenish gray (5GY 4/1); very fine, some silt; micaceous; very moist; slight to moderate hydrocarbon odor.
41							
42							
43		SP		45-45.5	S-11-45	10,000	SAND: dark gray (5Y 4/1); very fine; micaceous; wet; moderate to strong hydrocarbon odor.
44							
45							
46							Boring terminated at depth of 45 feet bgs.
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							

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PROJECT NO: 94-1008

FILE: .65

FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

PROJECT NAME: Former Chemoil refinery - Phase II assessment		PROJ. NO. 94-1008
LOCATION: Off-site immediately west of former R-5 along Gundry Avenue.		WELL NO. MW-12
SCHEDULE	WATER LEVEL	SHEET: 1 of 2
INITIATED: 6:30 A. M.	DEPTH: Approx. 20 feet bgs	SAMPLING METHOD: HSA
COMPLETED: 8:45 A. M.	DATE: 04/28/09	DRILLED BY: D.C. Castillo
CASING ELEVATION: Not determined	TIME: 8:30 A. M.	DRILLING CO: Gregg Drilling
SCREEN ELEVATION: Not determined	WELL DEPTH: Approx. 35 feet bgs.	RIG TYPE: Mobile truck mounted rig

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
1		ML		5-5.5	S-12-5	15	CLAYEY SILT: dark gray (5Y 4/1); mottled; fine sand; slightly moist; no hydrocarbon odor.
2							
3							
4							
5		ML		10-10.5	S-12-10	1,000	SILT: dark greenish gray (5G 4/1); fine; slightly moist; contact at 10 feet; no hydrocarbon odor.
6							
7							
8							
9		ML		15-15.5	S-12-15	10,000	SANDY SILT: dark greenish gray (5G 4/1); very fine; laminated; slightly moist; slight hydrocarbon odor.
10							
11							
12							
13		SP		20-20.5	S-12-20	60,000	SAND: dark gray (N 4/1); medium to fine, trace silt; shell fragments; wet; moderate to strong hydrocarbon odor.
14							
15							
16							
17		SM		25-25.5	S-12-25	10,000	dark greenish gray (5GY 4/1) at 22.5 feet; very fine; micaceous; moist; moderate to strong hydrocarbon odor.
18							
19							
20							
21		SP					
22							
23							
24							
25		SP					
26							



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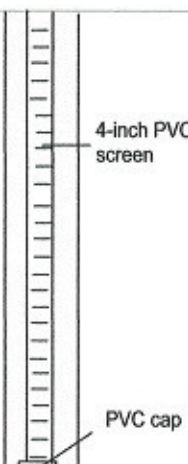
PROJECT NO: 94-1008

FILE: .65

FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
26		SP		30-30.5	S-12-30	20,000	SAND: dark gray (5Y 4/1); fine to medium grained; wet; moderate hydrocarbon odor.
27							
28							
29							
30							
31							
32							
33							
34							
35							
36		SM		35-35.5	S-12-35	15	SILTY SAND: olive brown (2.5Y 4/3); very fine, and silt; mottled; weakly laminated; moist; slight hydrocarbon odor.
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
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56							
57							

Boring terminated at a depth of 35 feet bgs.

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PROJECT NO: 94-1008

FILE: .65

FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

PROJECT NAME: Former Chemoil refinery site - Phase II assessment		PROJ. NO. 94-1008
LOCATION: On-site adjacent to former MW-7 along southern perimeter of site		WELL NO. MW-13
SCHEDULE INITIATED: 7:00 A. M. COMPLETED: 10:50 A. M. CASING ELEVATION: Not determined SCREEN ELEVATION: Not determined WATER LEVEL DEPTH: Approx. 17 feet bgs DATE: 04/29/09 TIME: 8:50 A. M. WELL DEPTH: Approximate depth of 35 feet bgs SHEET: 1 of 2 LOGGED BY: S. M. Testa SAMPLING METHOD: HSA DRILLED BY: D.C. Castillo DRILLING CO: Gregg Drilling RIG TYPE: Mobile truck mounted rig		

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
1		SM		5-5.5	S-13-5	10	SANDY SILT: very dark grayish brown (10YR 3/1); mottled; fine; moist; no hydrocarbon odor.
2							
3							
4							
5							
6		CL		10-10.5	S-13-10	150	SILT: very dark gray (5Y 3/1); very fine, trace sand; mottled; moist; no hydrocarbon odor. slight hydrocarbon odor
7							
8							
9							
10							
11		SP		15-15.5	S-13-15	10,000	SAND: dark gray (5Y 4/1); fine to very fine; moist; slight hydrocarbon odor.
12							
13							
14							
15							
16				20-20.5	S-13-20	5,500	very dark gray (2.5YR 3/1); fine; very moist; moderate to strong hydrocarbon odor.
17							
18							
19							
20							
21				25-25.5	S-13-25	8,000	micaceous.
22							
23							
24							
25							
26							



TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

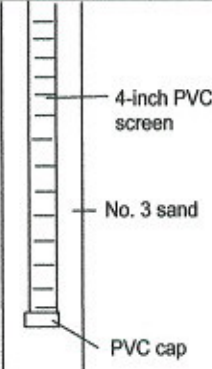
PROJECT NO: 94-1008

FILE: .65

FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
26		SP		30-30.5	S-13-30	5,000	SAND (Continued): very dark gray (7.5YR 31); fine to medium; micaceous; shell fragments; wet; moderate to strong hydrocarbon odor.
27							very dark gray (7.5YR 31); fine to medium; micaceous; shell fragments; wet; moderate to strong hydrocarbon odor.
28							
29							
30							very dark gray (7.5YR 31); fine to medium; micaceous; shell fragments; wet; moderate to strong hydrocarbon odor.
31							
32							
33							sample lost (clean wet sand).
34							
35							
36							Boring terminated at a depth of 35 feet bgs.
37							
38							
39							
40							
41							
42							
43							
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57							

TEC

TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

PROJECT NO: 94-1008

FILE: .65

FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

PROJECT NAME: Former Chemoil refinery site - Phase II assessment		PROJ. NO. 94-1008
LOCATION: Off-site immediately south-southeast of the site		WELL NO. MW-14
SCHEDULE	WATER LEVEL	SHEET: 1 of 2
INITIATED: 2:30 P.M.	DEPTH: Approx. 12 feet bgs	SAMPLING METHOD: HSA
COMPLETED: 6:00 P.M.	DATE: 06/25/09	DRILLED BY:
CASING ELEVATION: Not determined	TIME: 3:15 P.M.	DRILLING CO: Gregg Drilling
SCREEN ELEVATION: Not determined	WELL DEPTH: 27 feet bgs	RIG TYPE: Mobile truck mounted rig

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA				SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLOWS	PID (ppm)	
1		ML						CLAYEY SILT: 5YR-3/4 (dark reddish Brown), mottled; very fine; slightly moist; no odor.
2								
3								
4								
5				5-5.5	S-14-5		0	
6								
7								
8								
9								
10				10-10.5	S-14-10		0	
11		SP						5YR-4/4 (reddish brown), mottled; very fine, some fine sand; moist; no odor.
12								
13								
14								
15				15-15.5	S-14-15		0	
16								
17								
18								
19								
20				20-20.5	S-14-20		0	
21								
22								
23								
24								
25				25-25.5	S-14-25		0	
26								

BORING/WELL NUMBER **MW-14**SHEET 2 of 2

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA				SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLOWS	PID (ppm)	
26	 4-inch PVC screen PVC Cap	SP						SAND (Continued): yellowish brown (10YR 5/4); very fine; micaceous; wet
27								
28								Boring terminated at a depth of 27 feet bgs.
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
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43								
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TEC**TESTA ENVIRONMENTAL CORPORATION***Earth Sciences & Environmental Specialists*

PROJECT NO: 94-1008

FILE: .65

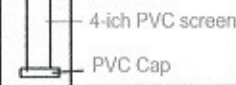
FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

PROJECT NAME: Former Chemoil Refinery - Phase II Assessment		PROJ. NO. 94-11-1008
LOCATION: Off-site immediately south of the site		WELL NO. MW-15
SCHEDULE	WATER LEVEL	SHEET: 1 of 2
INITIATED: 7:30 A. M.	DEPTH: Approx. 12 feet bgs	LOGGED BY: Fletcher/Testa
COMPLETED: 12:30 P. M.	DATE: 06/25/09	SAMPLING METHOD: HSA
CASING ELEVATION: Not determined	TIME: 10:00 A. M.	DRILLED BY:
SCREEN ELEVATION: Not determined	WELL DEPTH: Approx. 27 feet bgs	DRILLING CO: Gregg Drilling
		RIG TYPE: Mobile truck mounted rig

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION				
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)					
1	Locking PVC cap Cement grout Bentonite 4-inch PVC screen No. 3 sand	ML		5-5.5	S-15-5	0	SILT: drk grayish brown (4/2), mottled; tracefine sand; slightly moist; no hydrocarbon odor.				
2											
3											
4											
5											
6		SP		10-10.5	S-15-10	110	SAND: dark olive gray (3/2); very fine snd at 8.0 feet bgs; slightly mosit.				
7											
8											
9											
10											
11											
12											
13											
14											
15								15-15.5	S-15-15	180	olive gray (4.2); clean very fine to fine sand; mosit.
16											
17											
18											
19											
20								20-20.5	S-15-20	1000	medium to fine, grading to very fine at 17 feet bgs; wet.
21											
22											
23											
24											
25								25-25.5	S-15-25	1160	same; hydrocarbon sheen in cuttings.
26											

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA				SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLOWS	PID (ppm)	
26		SP						SAND (Continued): medium to fin; wet; hydrocarbon sheen in cuttings.
27								
28								Boring terminated at depth of 27 feet bgs.
29								
30								
31								
32								
33								
34								
35								
36								
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TESTA ENVIRONMENTAL CORPORATION
Earth Sciences & Environmental Specialists

PROJECT NO: 94-1008

FILE: .65

FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

PROJECT NAME: Former Chemoil refinery site - Phase II assessment		PROJ. NO. 94-11-1008.65
LOCATION: Immediately offsite southwest of site		WELL NO. MW-16
SCHEDULE	WATER LEVEL	SHEET: 1 of 2
INITIATED: 7:00 A.M.	DEPTH: Approx. 13 feet bgs	LOGGED BY: Fletcher/Testa
COMPLETED: 12:30 P.M.	DATE: 06/25/09	SAMPLING METHOD: HSA
CASING ELEVATION: Not determined	TIME: 9:00 A.M.	DRILLED BY:
SCREEN ELEVATION: Not determined	WELL DEPTH: Approx. 28 feet bgs	DRILLING CO: Gregg Drilling
		RIG TYPE: Mobile truck-mounted Rig

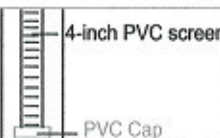
DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA				SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLOWS	PID (ppm)	
1		ML		5-5.5	S-16-5		0	SILT: dark brown (7.5YR 4/4), mottled, moist; no odor.
2								
3								
4		ML		10-10.5	S-16-10		0	SANDY SILT: very dark grayish brown (5Y 4/1); very fine, trace silt, moist; no odor.
5								
6								
7		SM		15-15.5	S-16-15		5	SILTY SAND: drk gray (5Y 4/1); trace silt; moist; wet; slight hydrocarbon odor.
8								
9								
10		SP		20-20.5	S-16-20		20	SAND: olive gray (5Y 4/2); very fine to fine; micaceous; wet; slight hydrocarbon odor.
11								
12								
13				25-25.5	S-16-25		1500	olive gray (5Y 5/2); moderate hydrocarbon odor.
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								



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PROJECT NO: 1008-	FILE:	FIGURE NO:
DATE: July 2009	DRAWN BY: SMT	

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA				SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	BLOWS	PID (ppm)	
26		SP		25-25.5	S-16-25		1500	SAND (Continued): olive gray (5Y 5/2); fine, micaceous; wet; moderate hydrocarbon odor.
27								
28								Boring terminated at depth of 28 feet bgs.
29								
30								
31								
32								
33								
34								
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TEC

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Earth Sciences & Environmental Specialists

PROJECT NO: 94-11-1008

FILE: .65

FIGURE NO:

DATE: September 2009

DRAWN BY: SMT

PROJECT NAME: Signal Hill Holding Company - Former Chemoil Refinery Site		PROJ. NO. 94-1008
LOCATION: Adjacent property west of the site; western portion of Alenco Property		WELL NO. MW-17
SCHEDULE	WATER LEVEL	SHEET: 1 of 2
INITIATED: 9:45 A. M.	DEPTH: Approximately 16.5 feet bgs	LOGGED BY: S. M. Testa
COMPLETED: 4:00 P. M.	DATE: August 30, 2010	SAMPLING METHOD: HSA
CASING ELEVATION: Not determined	TIME: Approximately 11:00 A. M.	DRILLED BY: Jeff Marivian
SCREEN ELEVATION: Not determined	WELL DEPTH: Approximately 27 feet bgs	DRILLING CO: Gregg Drilling
		RIG TYPE: Truck-mounted HSA rig

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
1		ML			S-17-2	0	CLAYEY SILT: dark gray (5Y 4/2), mottled; slightly moist.
2							
3							
4							
5				5-5.5	S-17-5	5	dark gray (5Y 4/1), mottled; moist.
6		ML					
7							
8							
9							
10				10-10.5	S-17-10	10	SILT: dark greenish gray (5G 4/1); slightly moist; contact at 9.5 feet bgs.
11		SM					
12							
13							
14							
15				15-15.5	S-17-15	10	SILTY SAND: light gray (N 5/); very fine; micaceous; moist; slight hydrocarbon odor.
16		SP					
17							
18							
19							
20				20-20.5	S-17-20	80	SAND: dark gray (N 4/); medium; trace silt, micaceous; very moist; slight hydrocarbon odor.
21							
22							
23							
24							
25				25-25.5	S-17-25	120	dark gray (5Y 4/1); fine to medium; trace silt, micaceous; moderate hydrocarbon odor.
26							


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PROJECT NO: 94-1008	FILE: 70	FIGURE NO:
DATE: October 2010	DRAWN BY: SMT	B-1

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
26	 4-inch PVC screen PVC cap	SP		25-25.5	S-17-25		SAND: dark gray (5Y 4/1); fine to medium grained; wet; moderate hydrocarbon odor.
27							
28							Boring terminated at a depth of 27 feet bgs.
29							
30							
31							
32							
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34							
35							
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39							
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TESTA ENVIRONMENTAL CORPORATION
Earth Sciences & Environmental Specialists

PROJECT NO: 94-1008

FILE: .70

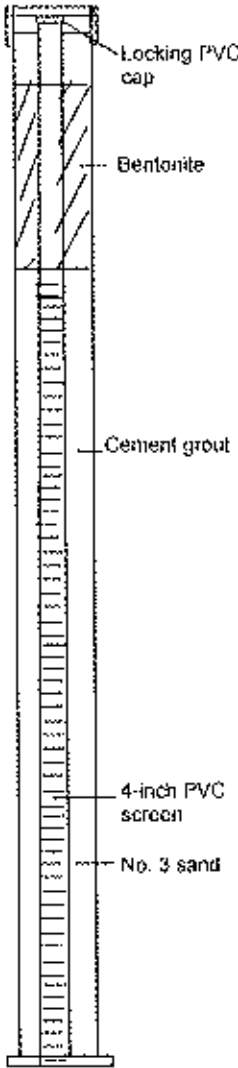
FIGURE NO:

DATE: October 2010

DRAWN BY: SMT

B-2

PROJECT NAME: Signal Hill Holding Company - Former Chemoil Refinery Site		PROJ. NO. 94-1008
LOCATION: Within Leigh Court situated offsite approximately 450 feet west of the site.		WELL NO. MW-18
SCHEDULE		WATER LEVEL
INITIATED: 8:00 A. M.	DEPTH: Approximately 13 feet below ground surface.	SHEET: 1 of 1
COMPLETED: 2:00 A. M.	DATE: December 3, 2010	LOGGED BY: S. M. Testa
CASING ELEVATION: Not determined	TIME: 2:00 P. M.	SAMPLING METHOD: HSA
SCREEN ELEVATION: Not determined	WELL DEPTH: 23.5 feet below ground surface.	DRILLED BY: D.C.
		DRILLING CO: Gregg Drilling
		RIG TYPE: Truck-mounted HSA rig

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
1		ML		5-5.5	S-18-5	0	CLAYEY SILT: Brown/dark brown (7.5YR 4/4), mottled; moist.
2							
3							
4							
5		ML		10-10.5	S-18-10	0	SILT: Dark grayish brown (2.5Y 3/2), mottled; trace fine sand; moist.
6							
7							
8							
9		SM		15-15.5	S-18-15	0	SILTY SAND: Dark olive gray (5Y 3/2); very fine to fine; micaceous, wet.
10							
11							
12							
13		SP		20-20.5	S-18-20	0	SAND: Olive gray (5Y 4/2); fine; micaceous; wet.
14							
15							
16							
17						0	Olive brown (2.5Y 4/3); fine; micaceous; wet.
18							
19							
20							
21						0	Boring terminated at a depth of 23.5 feet bgs.
22							
23							
24							
25							
26							

TEC TESTA ENVIRONMENTAL CORPORATION
Earth Sciences & Environmental Specialists

PROJECT NO: 94-1008	FILE: 72	FIGURE NO: B-1
DATE: January 2011	DRAWN BY: SMT	

DEPTH	WELL DIAGRAM	SOIL TYPE		SAMPLE DATA			SOIL DESCRIPTION
		USCS	SYMBOL	SAMPLE DEPTH	SAMPLE NO.	PID (ppm)	
26	 4-inch PVC screen PVC cap	SP		25-25.5	S-17-25		SAND: dark gray (5Y 4/1); fine to medium grained; wet; moderate hydrocarbon odor.
27							
28							Boring terminated at a depth of 27 feet bgs.
29							
30							
31							
32							
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57							

TEC

TESTA ENVIRONMENTAL CORPORATION

Earth Sciences & Environmental Specialists

PROJECT NO: 94-1008

FILE: .70

FIGURE NO:

DATE: October 2010

DRAWN BY: SMT

B-2

EXHIBIT 4

SOIL QUALITY DATA

EXHIBIT 4 – PART I

LABORATORY REPORTS FOR SOIL STOCKPILES

September 07, 2010



Stephen Testa
Testa Environmental Corporation
19814 Jesus Maria Road
Mokelumne Hill, CA 95245

TEL: (209) 754-1422
FAX: (209) 754-1422

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 113490

RE: SHHC MW 17

Attention: Stephen Testa

Enclosed are the results for sample(s) received on August 30, 2010 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie E. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology
Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Project: SHIC MW 17
Lab Order: 113490

CASE NARRATIVE

Analytical Comments for Method 8015 (GRO)

Dilution was necessary for sample 113490-005A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 113492-001AMS and 113492-001AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for sample 113492-001AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for Method 8260

Surrogate recovery biased high for sample 113490-006A, possibly due to matrix interferences.

Analytical Comments for Method 8270

Dilution was necessary for samples 113490-001A and 113490-002A, due to sample matrix.

Surrogate recovery biased low for sample 113490-006A, possibly due to matrix interferences.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SUIC MW 17
Lab ID: 113490-001A

Client Sample ID: S-17-2
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID:	GC16_100831A	QC Batch:	66627	PrepDate:	8/30/2010	Analyst:	CBR
ORO	1100	10	mg/Kg	1	8/31/2010 06:08 PM		
Surr: p-Terphenyl	92.7	63-152	%REC	1	8/31/2010 06:08 PM		

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID:	GC2_100831A	QC Batch:	E10VS270	PrepDate:		Analyst:	DDL
GRO	ND	1.0	mg/Kg	1	8/31/2010 01:40 PM		
Surr: Bromofluorobenzene (FID)	100	56-137	%REC	1	8/31/2010 01:40 PM		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MSS_100902A	QC Batch:	T10VS175	PrepDate:		Analyst:	BD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,1-Dichloroethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,1-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,1-Dichloropropene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	9/2/2010 02:54 PM		
1,2-Dibromoethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2-Dichloroethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,2-Dichloropropane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,3-Dichloropropane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
2,2-Dichloropropane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
2-Chlorotoluene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
4-Chlorotoluene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		
4-Isopropyltoluene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	U	Holdup times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHIC MW 17
Lab ID: 113490-001A

Client Sample ID: S-17-2
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175	PrepDate:	Analyst: BD		
Benzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Bromobenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Bromoforn	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Bromomethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Chlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Chloroethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Chloroform	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Chloromethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Dibromomethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Ethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
m,p-Xylene	ND	10	µg/Kg	1	9/2/2010 02:54 PM
Methylene chloride	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
MTBE	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Naphthalene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
o-Xylene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Styrene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Tert-Butanol	ND	100	µg/Kg	1	9/2/2010 02:54 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Toluene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DC Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-001A

Client Sample ID: S-17-2
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100802A	QC Batch: T10VS175	PrepDate:	Analyst: BD		
Trichloroethene	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Vinyl chloride	ND	5.0	µg/Kg	1	9/2/2010 02:54 PM
Surr: 1,2-Dichloroethane-d4	95.4	70-130	%REC	1	9/2/2010 02:54 PM
Surr: 4-Bromofluorobenzene	106	70-130	%REC	1	9/2/2010 02:54 PM
Surr: Dibromofluoromethane	96.2	70-130	%REC	1	9/2/2010 02:54 PM
Surr: Toluene-d8	106	70-130	%REC	1	9/2/2010 02:54 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3560B

EPA 8270C

RunID: MS 13_100631A	QC Batch: 66531	PrepDate: 8/31/2010	Analyst: DMP		
1,2,4-Trichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
1,2-Dichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
1,3-Dichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
1,4-Dichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2,4,5-Trichlorophenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2,4,6-Trichlorophenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2,4-Dichlorophenol	ND	8200	µg/Kg	5	8/31/2010 03:23 PM
2,4-Dimethylphenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2,4-Dinitrophenol	ND	8200	µg/Kg	5	8/31/2010 03:23 PM
2,4-Dinitrotoluene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2,6-Dinitrotoluene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2-Chloronaphthalene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2-Chlorophenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2-Methylnaphthalene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2-Methylphenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
2-Nitroaniline	ND	8200	µg/Kg	5	8/31/2010 03:23 PM
2-Nitrophenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
3,3'-Dichlorobenzidine	ND	3300	µg/Kg	5	8/31/2010 03:23 PM
3-Nitroaniline	ND	8200	µg/Kg	5	8/31/2010 03:23 PM
4,6-Dinitro-2-methylphenol	ND	8200	µg/Kg	5	8/31/2010 03:23 PM
4-Bromophenyl-phenylether	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
4-Chloro-3-methylphenol	ND	3300	µg/Kg	5	8/31/2010 03:23 PM
4-Chloroaniline	ND	3300	µg/Kg	5	8/31/2010 03:23 PM
4-Chlorophenyl-phenylether	ND	1600	µg/Kg	5	8/31/2010 03:23 PM
4-Methylphenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM

Qualifiers:	H	Analyte detected in the associated Method Blank	E	Value above quantitation range
	15	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-001A

Client Sample ID: S-17-2
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS 13_100831A	QC Batch: 66531				PrepDate: 8/31/2010	Analyst: DMP
4-Nitroaniline	ND	8200		µg/Kg	5	8/31/2010 03:23 PM
4-Nitrophenol	ND	8200		µg/Kg	5	8/31/2010 03:23 PM
Acenaphthene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Acenaphthylene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Anthracene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Benzidine (M)	ND	8200		µg/Kg	5	8/31/2010 03:23 PM
Benzo(a)anthracene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Benzo(a)pyrene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Benzo(b)fluoranthene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Benzo(g,h,i)perylene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Benzo(k)fluoranthene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Benzoic acid	ND	8200		µg/Kg	5	8/31/2010 03:23 PM
Benzyl alcohol	ND	3300		µg/Kg	5	8/31/2010 03:23 PM
Bis(2-chloromethoxy)methane	ND	1500		µg/Kg	5	8/31/2010 03:23 PM
Bis(2-chloroethyl)ether	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Bis(2-chloroisopropyl)ether	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Bis(2-ethylhexyl)phthalate	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Butylbenzylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Chrysene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Di-n-butylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Di-n-octylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Dimenz(a,h)anthracene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Dibenzofuran	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Diethylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Dimethylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Fluoranthene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Fluorene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Hexachlorobenzene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Hexachlorobutadiene	ND	3300		µg/Kg	5	8/31/2010 03:23 PM
Hexachlorocyclopentadiene	ND	3300		µg/Kg	5	8/31/2010 03:23 PM
Hexachloroethane	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Indeno(1,2,3-cd)pyrene	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
Isophorone	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
N-Nitrosod-n-propylamine	ND	1600		µg/Kg	5	8/31/2010 03:23 PM
N-Nitrosodiphenylamine	ND	1600		µg/Kg	5	8/31/2010 03:23 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories**ANALYTICAL RESULTS**

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation

Client Sample ID: S-17-2

Lab Order: 113490

Collection Date: 8/30/2010

Project: SHHC MW 17

Matrix: SOIL

Lab ID: 113490-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 3550B****EPA 8270C**

RunID:	MS 13_103831A	QC Batch:	66531	PropDate:	8/31/2010	Analyst: DMP
Naphthalene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM	
Nitrobenzene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM	
Pentachlorophenol	ND	8200	µg/Kg	5	8/31/2010 03:23 PM	
Phenanthrene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM	
Phenol	ND	1600	µg/Kg	5	8/31/2010 03:23 PM	
Pyrene	ND	1600	µg/Kg	5	8/31/2010 03:23 PM	
Surr: 1,2-Dichlorobenzene-d4	76.7	46-105	%REC	5	8/31/2010 03:23 PM	
Surr: 2,4,6-Tribromophenol	76.3	41-129	%REC	5	8/31/2010 03:23 PM	
Surr: 2-Chlorophenol-d4	81.3	65-108	%REC	5	8/31/2010 03:23 PM	
Surr: 2-Fluorobiphenyl	80.2	56-114	%REC	5	8/31/2010 03:23 PM	
Surr: 2-Fluorophenol	80.8	50-108	%REC	5	8/31/2010 03:23 PM	
Surr: 4-Terphenyl-d14	74.2	59-141	%REC	5	8/31/2010 03:23 PM	
Surr: Nitrobenzene-d5	79.9	45-114	%REC	5	8/31/2010 03:23 PM	
Surr: Phenol-d5	78.5	46-118	%REC	5	8/31/2010 03:23 PM	

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DD Surrogate Diluted Out

- F Value above quantitation range
- ND Not Detected at the Reporting Limit
- Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755

Tel: 562.989.4045

Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SIHC MW 17
Lab ID: 113490-002A

Client Sample ID: S-17-5
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID:	GC16_100831A	QC Batch:	86627	PrepDate:	8/30/2010	Analyst:	CBR
PRO	160	10	mg/Kg	1	8/31/2010 05:46 PM		
Surr: p-Terphenyl	89.5	63-152	%REC	1	8/31/2010 05:46 PM		

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID:	GC2_100831A	QC Batch:	E10VS270	PrepDate:		Analyst:	DDL
GRO	ND	1.0	mg/Kg	1	8/31/2010 02:39 PM		
Surr: Bromofluorobenzene (FID)	105	56-137	%REC	1	8/31/2010 02:39 PM		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100902A	QC Batch:	T10VS175	PrepDate:		Analyst:	BD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,1-Dichloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,1-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,1-Dichloropropene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	9/2/2010 03:16 PM		
1,2-Dibromoethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2-Dichloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,2-Dichloropropane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,3-Dichloropropane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
2,2-Dichloropropane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
2-Chlorotoluene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
4-Chlorotoluene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		
4-Isopropyltoluene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM		

Qualifiers: H Analyte detected in the associated Method Blank
B Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-002A

Client Sample ID: S-17-5
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175	PrepDate:	Analyst: BD
Benzene	ND	5.0	µg/Kg
Bromobenzene	ND	5.0	µg/Kg
Bromodichloromethane	ND	5.0	µg/Kg
Bromoform	ND	5.0	µg/Kg
Bromomethane	ND	5.0	µg/Kg
Carbon tetrachloride	ND	5.0	µg/Kg
Chlorobenzene	ND	5.0	µg/Kg
Chloroethane	ND	5.0	µg/Kg
Chloroform	ND	5.0	µg/Kg
Chloromethane	ND	5.0	µg/Kg
cis-1,2-Dichloroethene	ND	5.0	µg/Kg
cis-1,3-Dichloropropene	ND	5.0	µg/Kg
Di-isopropyl ether	ND	5.0	µg/Kg
Dibromochloromethane	ND	5.0	µg/Kg
Dibromomethane	ND	5.0	µg/Kg
Dichlorodifluoromethane	ND	5.0	µg/Kg
Ethyl Tert-butyl ether	ND	5.0	µg/Kg
Ethylbenzene	ND	5.0	µg/Kg
Hexachlorobutadiene	ND	5.0	µg/Kg
Isopropylbenzene	ND	5.0	µg/Kg
m,p-Xylene	ND	10	µg/Kg
Methylene chloride	ND	5.0	µg/Kg
MTBE	ND	5.0	µg/Kg
n-Butylbenzene	ND	5.0	µg/Kg
n-Propylbenzene	ND	5.0	µg/Kg
Naphthalene	ND	5.0	µg/Kg
o-Xylene	ND	5.0	µg/Kg
sec-Butylbenzene	ND	5.0	µg/Kg
Styrene	ND	5.0	µg/Kg
Tert-amyl methyl ether	ND	5.0	µg/Kg
Tert-Butanol	ND	100	µg/Kg
tert-Butylbenzene	ND	5.0	µg/Kg
Tetrachloroethene	ND	5.0	µg/Kg
Toluene	ND	5.0	µg/Kg
trans-1,2-Dichloroethene	ND	5.0	µg/Kg

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DD Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation

Client Sample ID: S-17-5

Lab Order: 113490

Collection Date: 8/30/2010

Project: SHHC MW 17

Matrix: SOIL

Lab ID: 113490-002A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100902A	QC Batch:	T10VS175	PrepDate:	Analyst:	BD
Trichloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	9/2/2010 03:16 PM	
Surr: 1,2-Dichloroethane-d4	97.3	70-130	%REC	1	9/2/2010 03:16 PM	
Surr: 4-Bromofluorobenzene	110	70-130	%REC	1	9/2/2010 03:16 PM	
Surr: Dibromofluoromethane	97.9	70-130	%REC	1	9/2/2010 03:16 PM	
Surr: Toluene-d8	108	70-130	%REC	1	9/2/2010 03:16 PM	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS 13_100831A	QC Batch:	G6531	PrepDate:	8/31/2010	Analyst:	DMP
1,2,4-Trichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
1,2-Dichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
1,3-Dichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
1,4-Dichlorobenzene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2,4,5-Trichlorophenol	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2,4,6-Trichlorophenol	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2,4-Dichlorophenol	ND	8200	µg/Kg	5	8/31/2010 03:50 PM		
2,4-Dimethylphenol	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2,4-Dinitrophenol	ND	8200	µg/Kg	5	8/31/2010 03:50 PM		
2,4-Dinitrotoluene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2,6-Dinitrotoluene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2-Chloronaphthalene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2-Chlorophenol	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2-Methylnaphthalene	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2-Methylphenol	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
2-Nitroaniline	ND	8200	µg/Kg	5	8/31/2010 03:50 PM		
2-Nitrophenol	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
3,3'-Dichlorobenzidine	ND	3300	µg/Kg	5	8/31/2010 03:50 PM		
3-Nitroaniline	ND	8200	µg/Kg	5	8/31/2010 03:50 PM		
4,6-Dinitro-2-methylphenol	ND	8200	µg/Kg	5	8/31/2010 03:50 PM		
4-Bromophenyl-phenylether	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
4-Chloro-3-methylphenol	ND	3300	µg/Kg	5	8/31/2010 03:50 PM		
4-Chloroaniline	ND	3300	µg/Kg	5	8/31/2010 03:50 PM		
4-Chlorophenyl-phenylether	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		
4-Methylphenol	ND	1600	µg/Kg	5	8/31/2010 03:50 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology
Laboratories

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ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-002A

Client Sample ID: S-17-5
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_100831A	QC Batch: 66531				PrepDate: 8/31/2010	Analyst: DMP
4-Nitroaniline	ND	8200		µg/Kg	5	8/31/2010 03:50 PM
4-Nitrophenol	ND	8200		µg/Kg	5	8/31/2010 03:50 PM
Acenaphthene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Acenaphthylene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Anthracene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Benzidine (M)	ND	6200		µg/Kg	5	8/31/2010 03:50 PM
Benzo(a)anthracene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Benzo(a)pyrene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Benzo(b)fluoranthene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Benzo(g,h,i)perylene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Benzo(k)fluoranthene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Benzoic acid	ND	8200		µg/Kg	5	8/31/2010 03:50 PM
Benzyl alcohol	ND	3300		µg/Kg	5	8/31/2010 03:50 PM
Bis(2-chloroethoxy)methane	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Bis(2-chloroethyl)ether	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Bis(2-chloroisopropyl)ether	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Bis(2-ethoxyethyl)phthalate	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Butylbenzylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Chrysene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Di-n-butylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Di-n-octylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Dibenz(a,h)anthracene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Dibenzofuran	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Diethylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Dimethylphthalate	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Fluoranthene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Fluorene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Hexachlorobenzene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Hexachlorobutadiene	ND	3300		µg/Kg	5	8/31/2010 03:50 PM
Hexachlorocyclopentadiene	ND	3300		µg/Kg	5	8/31/2010 03:50 PM
Hexachloroethane	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Indeno(1,2,3-cd)pyrene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Isophorone	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
N-Nitrosodi-n-propylamine	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
N-Nitrosodiphenylamine	ND	1600		µg/Kg	5	8/31/2010 03:50 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DD Surrogate Diluted Out



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Laboratories

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Advanced Technology Laboratories**ANALYTICAL RESULTS**

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation

Client Sample ID: S-17-5

Lab Order: 113490

Collection Date: 8/30/2010

Project: SHHC MW 17

Matrix: SOIL

Lab ID: 113490-002A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_100831A	QC Batch: 86531			PrepDate: 8/31/2010	Analyst: DMP	
Naphthalene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Nitrobenzene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Pentachlorophenol	ND	8200		µg/Kg	5	8/31/2010 03:50 PM
Phenanthrene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Phenol	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Pyrene	ND	1600		µg/Kg	5	8/31/2010 03:50 PM
Surr: 1,2-Dichlorobenzene-d4	70.1	45-105		%REC	5	8/31/2010 03:50 PM
Surr: 2,4,6-Tribromophenol	72.7	41-129		%REC	5	8/31/2010 03:50 PM
Surr: 2-Chlorophenol-d4	75.2	55-108		%REC	5	8/31/2010 03:50 PM
Surr: 2-Fluorobiphenyl	79.5	56-114		%REC	5	8/31/2010 03:50 PM
Surr: 2-Fluorophenol	70.7	50-108		%REC	5	8/31/2010 03:50 PM
Surr: 4-Terphenyl-d14	79.5	59-141		%REC	5	8/31/2010 03:50 PM
Surr: Nitrobenzene-d5	68.4	45-114		%REC	5	8/31/2010 03:50 PM
Surr: Phenol-d5	71.3	46-118		%REC	5	8/31/2010 03:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DD Surrogate Diluted Out

F Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-003A

Client Sample ID: S-17-10
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_100831A	QC Batch: 68527			PrepDate: 8/30/2010	Analyst: CBR
DRO	ND	10		mg/Kg	1
Surf: p-Terphenyl	114	63-152		%REC	1

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_100831A	QC Batch: E10VS270			PrepDate:	Analyst: DDL
GRO	ND	1.0		mg/Kg	1
Surf: Bromofluorobenzene (FID)	116	56-137		%REC	1

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175			PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1
1,1-Dichloroethane	ND	5.0		µg/Kg	1
1,1-Dichloroethene	ND	5.0		µg/Kg	1
1,1-Dichloropropene	ND	5.0		µg/Kg	1
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1
1,2-Dibromoethane	ND	5.0		µg/Kg	1
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1
1,2-Dichloroethane	ND	5.0		µg/Kg	1
1,2-Dichloropropane	ND	5.0		µg/Kg	1
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1
1,3-Dichloropropene	ND	5.0		µg/Kg	1
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1
2,2-Dichloropropane	ND	5.0		µg/Kg	1
2-Chlorotoluene	ND	5.0		µg/Kg	1
4-Chlorotoluene	ND	5.0		µg/Kg	1
4-Isopropyltoluene	ND	5.0		µg/Kg	1

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
ND Not Detected at the Reporting Limit

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Laboratories

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ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation

Client Sample ID: S-17-10

Lab Order: 113490

Collection Date: 8/30/2010

Project: SHHC MW 17

Matrix: SOIL

Lab ID: 113490-003A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175	PropDate:	Analyst: BD		
Benzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Bromobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Bromoform	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Bromomethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Chlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Chloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Chloroform	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Chloromethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
cis-1,2-Dichloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Dibromomethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Ethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
m,p-Xylene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Methylene chloride	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
MTBE	S 3	5.0	µg/Kg	1	9/2/2010 03:37 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Naphthalene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
o-Xylene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Styrene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Tert-Butanol	ND	100	µg/Kg	1	9/2/2010 03:37 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Toluene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM

Qualifiers: B Analyte detected in the associated Method Blank
 B Bolding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 SD Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation

Client Sample ID: S-17-10

Lab Order: 113490

Collection Date: 8/30/2010

Project: SHIC MW 17

Matrix: SOIL

Lab ID: 113490-003A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS176	PrepDate:	Analyst: BD		
Trichloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Vinyl chloride	ND	5.0	µg/Kg	1	9/2/2010 03:37 PM
Surr: 1,2-Dichloroethane-d4	95.9	70-130	%REC	1	9/2/2010 03:37 PM
Surr: 4-Bromofluorobenzene	110	70-130	%REC	1	9/2/2010 03:37 PM
Surr: Dibromofluoromethane	93.0	70-130	%REC	1	9/2/2010 03:37 PM
Surr: Toluene-d8	109	70-130	%REC	1	9/2/2010 03:37 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID: MS 13_100831A	QC Batch: 65531	PrepDate: 8/31/2010	Analyst: DMP		
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
1,2-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
1,3-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
1,4-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2,4,5-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2,4-Dichlorophenol	ND	1600	µg/Kg	1	8/31/2010 04:18 PM
2,4-Dimethylphenol	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2,4-Dinitrophenol	ND	1600	µg/Kg	1	8/31/2010 04:18 PM
2,4-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2,6-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2-Chloronaphthalene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2-Chlorophenol	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2-Methylnaphthalene	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2-Methylphenol	ND	330	µg/Kg	1	8/31/2010 04:18 PM
2-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 04:18 PM
2-Nitrophenol	ND	330	µg/Kg	1	8/31/2010 04:18 PM
3,3'-Dichlorobenzidine	ND	600	µg/Kg	1	8/31/2010 04:18 PM
3-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 04:18 PM
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	8/31/2010 04:18 PM
4-Bromophenyl-phenylether	ND	330	µg/Kg	1	8/31/2010 04:18 PM
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	8/31/2010 04:18 PM
4-Chloroaniline	ND	660	µg/Kg	1	8/31/2010 04:18 PM
4-Chlorophenyl-phenylether	ND	330	µg/Kg	1	8/31/2010 04:18 PM
4-Methylphenol	ND	330	µg/Kg	1	8/31/2010 04:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding time for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology
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ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation

Client Sample ID: S-17-10

Lab Order: 113490

Collection Date: 8/30/2010

Project: SHIC MW 17

Matrix: SOIL

Lab ID: 113490-003A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_100831A	QC Batch: 60531	PrepDate: 8/31/2010		Analyst: DMP		
4-Nitroaniline	ND	1600		µg/Kg	1	8/31/2010 04:18 PM
4-Nitrophenol	ND	1600		µg/Kg	1	8/31/2010 04:18 PM
Acenaphthene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Acenaphthylene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Anthracene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Benzidine (M)	ND	1600		µg/Kg	1	8/31/2010 04:18 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Benzo(a)pyrene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Benzoic acid	ND	1600		µg/Kg	1	8/31/2010 04:18 PM
Benzyl alcohol	ND	660		µg/Kg	1	8/31/2010 04:18 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Chrysene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Dibenzofuran	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Diethylphthalate	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Dioctylphthalate	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Fluoranthene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Fluorene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Hexachlorobenzene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Hexachlorobutadiene	ND	660		µg/Kg	1	8/31/2010 04:18 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	8/31/2010 04:18 PM
Hexachlorocyclohexane	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Isophorone	ND	330		µg/Kg	1	8/31/2010 04:18 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	8/31/2010 04:18 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	8/31/2010 04:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DD Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-003A

Client Sample ID: S-17-10
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_100831A	QC Batch: 66631			PrepDate: 8/31/2010		Analyst: DMP
Naphthalene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Nitrobenzene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Pentachlorophenol	ND	1600		µg/Kg	1	8/31/2010 04:18 PM
Phenanthrene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Phenol	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Pyrene	ND	330		µg/Kg	1	8/31/2010 04:18 PM
Sum: 1,2-Dichlorobenzene-d4	62.0	45-105		%REC	1	8/31/2010 04:18 PM
Sum: 2,4,6-Tribromophenol	83.7	41-129		%REC	1	8/31/2010 04:18 PM
Sum: 2-Chlorophenol-d4	63.4	55-108		%REC	1	8/31/2010 04:18 PM
Sum: 2-Fluorobiphenyl	67.3	56-114		%REC	1	8/31/2010 04:18 PM
Sum: 2-Fluorophenol	63.9	50-108		%REC	1	8/31/2010 04:18 PM
Sum: 4-Terphenyl-d14	78.8	59-141		%REC	1	8/31/2010 04:18 PM
Sum: Nitrobenzene-d5	63.0	45-114		%REC	1	8/31/2010 04:18 PM
Sum: Phenol-d5	66.3	40-118		%REC	1	8/31/2010 04:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DD Surrogate Diluted Out
F Value above quantitative range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 07-Sep-10

Client: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-004A

Client Sample ID: S-17-15
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_100831A	QC Batch: 66627	PrepDate: 8/30/2010	Analyst: CBR
DRO	11	10	mg/Kg
Surr: p-Tolphenyl	104	63-152	%REC

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_100831A	QC Batch: E10VS270	PrepDate:	Analyst: DDL
GRO	ND	1.0	mg/Kg
Surr: Bromofluorobenzene (FID)	107	56-137	%REC

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175	PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,1-Trichloroethane	ND	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,2-Trichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethene	ND	5.0	µg/Kg
1,1-Dichloropropene	ND	5.0	µg/Kg
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg
1,2,3-Trichloropropane	ND	5.0	µg/Kg
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg
1,3,4-Trimethylbenzene	ND	5.0	µg/Kg
1,2-Dibromo-3-chloropropane	ND	5.0	µg/Kg
1,2-Dibromochloroethane	ND	5.0	µg/Kg
1,2-Dichlorobenzene	ND	5.0	µg/Kg
1,2-Dichloroethane	ND	5.0	µg/Kg
1,2-Dichloropropane	ND	5.0	µg/Kg
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg
1,3-Dichlorobenzene	ND	5.0	µg/Kg
1,3-Dichloropropane	ND	5.0	µg/Kg
1,4-Dichlorobenzene	ND	5.0	µg/Kg
2,2-Dichloropropane	ND	5.0	µg/Kg
2-Chlorotoluene	ND	5.0	µg/Kg
4-Chlorotoluene	ND	5.0	µg/Kg
4-Isopropyltoluene	ND	5.0	µg/Kg

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DC Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-004A

Client Sample ID: S-17-15
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175	PrepDate:	Analyst: BD		
Benzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Bromobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Bromoforn	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Bromomethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Chlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Chloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Chloroform	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Chloromethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Dibromomethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Ethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
m,p-Xylene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Methylene chloride	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
MTBE	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Naphthalene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
o-Xylene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Styrene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Tert-Butanol	ND	100	µg/Kg	1	9/2/2010 03:59 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
Toluene	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM
trans-1,2-Dichloroethane	ND	5.0	µg/Kg	1	9/2/2010 03:59 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DQ Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Project: SHHC MW 17
Lab ID: 113490-004A

Client Sample ID: S-17-15
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100862A	QC Batch: T10VS175	PrepDate:	Analyst: BD		
Trichloroethene	ND	5.0	µg/Kg	1	9/2/2010 03:58 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	9/2/2010 03:58 PM
Vinyl chloride	ND	5.0	µg/Kg	1	9/2/2010 03:58 PM
Surr. 1,2-Dichloroethane-d4	96.6	70-130	%REC	1	9/2/2010 03:58 PM
Surr. 4-Bromofluorobenzene	110	70-130	%REC	1	9/2/2010 03:58 PM
Surr. Dibromofluoromethane	95.9	70-130	%REC	1	9/2/2010 03:58 PM
Surr. Toluene-d8	108	70-130	%REC	1	9/2/2010 03:58 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID: MS 13_100831A	QC Batch: 66531	PrepDate: 8/31/2010	Analyst: DMP		
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
1,2-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
1,3-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
1,4-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2,4,5-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2,4-Dichlorophenol	ND	1600	µg/Kg	1	8/31/2010 04:45 PM
2,4-Danethylphenol	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2,4-Dinitrophenol	ND	1600	µg/Kg	1	8/31/2010 04:45 PM
2,4-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2,6-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2-Chloronaphthalene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2-Chlorophenol	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2-Methylnaphthalene	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2-Methylphenol	ND	330	µg/Kg	1	8/31/2010 04:45 PM
2-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 04:45 PM
2-Nitrophenol	ND	330	µg/Kg	1	8/31/2010 04:45 PM
3,3'-Dichlorobenzidine	ND	660	µg/Kg	1	8/31/2010 04:45 PM
3-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 04:45 PM
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	8/31/2010 04:45 PM
4-Bromophenyl-phenylketone	ND	330	µg/Kg	1	8/31/2010 04:45 PM
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	8/31/2010 04:45 PM
4-Chloroaniline	ND	660	µg/Kg	1	8/31/2010 04:45 PM
4-Chlorophenyl-phenylketone	ND	330	µg/Kg	1	8/31/2010 04:45 PM
4-Methylphenol	ND	330	µg/Kg	1	8/31/2010 04:45 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	B	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Deleted Out		



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ANALYTICAL RESULTS

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 Lab Order: 113490
 Project: SHHC MW 17
 Lab ID: 113490-004A

Client Sample ID: S-17-15
 Collection Date: 8/30/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS 13_100831A	QC Batch: 66631	PrepDate: 8/31/2010		Analyst: DMP		
4-Nitroaniline	ND	1600		µg/Kg	1	8/31/2010 04:45 PM
4-Nitrophenol	ND	1600		µg/Kg	1	8/31/2010 04:45 PM
Acenaphthene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Acenaphthylene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Anthracene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Benzidine (M)	ND	1600		µg/Kg	1	8/31/2010 04:45 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Benzo(a)pyrene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Benzoic acid	ND	1600		µg/Kg	1	8/31/2010 04:45 PM
Benzyl alcohol	ND	660		µg/Kg	1	8/31/2010 04:45 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Chrysene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Dibenzofuran	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Diethylphthalate	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Dimethylphthalate	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Fluoranthene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Fluorene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Hexachlorobenzene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Hexachlorobutadiene	ND	660		µg/Kg	1	8/31/2010 04:45 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	8/31/2010 04:45 PM
Hexachloroethane	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Isophthalic acid	ND	330		µg/Kg	1	8/31/2010 04:45 PM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	8/31/2010 04:45 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	8/31/2010 04:45 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DC Surrogate Diluted Out

L Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
 Lab Order: 113490
 Project: SHHC MW 17
 Lab ID: 113490-004A

Client Sample ID: S-17-15
 Collection Date: 8/30/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_106831A	QC Batch: 66531				PrepDate: 8/31/2010	Analyst: DMP
Naphthalene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Nitrobenzene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Pentachlorophenol	ND	1600		µg/Kg	1	8/31/2010 04:45 PM
Phenanthrene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Phenol	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Pyrene	ND	330		µg/Kg	1	8/31/2010 04:45 PM
Surf: 1,2-Dichlorobenzene-d4	61.6	45-106		%REC	1	8/31/2010 04:45 PM
Surf: 2,4,6-Tribromophenol	61.3	41-129		%REC	1	8/31/2010 04:45 PM
Surf: 2-Chlorophenol-d4	64.6	55-108		%REC	1	8/31/2010 04:45 PM
Surf: 2-Fluorobiphenyl	68.5	66-114		%REC	1	8/31/2010 04:45 PM
Surf: 2-Fluorophenol	64.6	50-108		%REC	1	8/31/2010 04:45 PM
Surf: 4-Terphenyl-d14	77.4	59-141		%REC	1	8/31/2010 04:45 PM
Surf: Nitrobenzene-d5	64.3	45-114		%REC	1	8/31/2010 04:45 PM
Surf: Phenol-d5	64.6	46-116		%REC	1	8/31/2010 04:45 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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ANALYTICAL RESULTS

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CLIENT: Testa Environmental Corporation
Lab Order: 113490
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Lab ID: 113490-005A

Client Sample ID: S-17-20
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_100831A	QC Batch: 66527	PrepDate: 8/30/2010	Analyst: CBR
DRO	170	10	mg/Kg
Surr: p-Terphenyl	89.4	63-152	%REC

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_100831A	QC Batch: E10VS270	PrepDate:	Analyst: DDL
GRO	ND	1.0	mg/Kg
Surr: Bromofluorobenzene (FID)	107	56-137	%REC

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175	PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,1-Trichloroethane	ND	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,2-Trichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethene	ND	5.0	µg/Kg
1,1-Dichloropropene	ND	5.0	µg/Kg
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg
1,2,3-Trichloropropane	ND	5.0	µg/Kg
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/Kg
1,2-Dibromobenzene	ND	5.0	µg/Kg
1,2-Dichlorobenzene	ND	5.0	µg/Kg
1,2-Dichloroethane	ND	5.0	µg/Kg
1,2-Dichloropropane	ND	5.0	µg/Kg
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg
1,3-Dichlorobenzene	ND	5.0	µg/Kg
1,3-Dichloropropane	ND	5.0	µg/Kg
1,4-Dichlorobenzene	ND	5.0	µg/Kg
2,2-Dichloropropane	ND	5.0	µg/Kg
2-Chlorotoluene	ND	5.0	µg/Kg
4-Chlorotoluene	ND	5.0	µg/Kg
4-Isopropyltoluene	ND	5.0	µg/Kg

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DQ Surrogate Diluted Out



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Lab ID: 113490-005A

Client Sample ID: S-17-20
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Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: 110VS175	PrepDate:	Analyst: BD		
Benzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Bromobenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Bromoform	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Bromomethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Chlorobenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Chloroethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Chloroform	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Chloromethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Dibromomethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Ethylbenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
m,p-Xylene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Methylene chloride	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
MTBE	0.5	5.0	µg/Kg	1	9/2/2010 04:42 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Naphthalene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
n-Xylene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Styrene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Tert-Butanol	ND	100	µg/Kg	1	9/2/2010 04:42 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Toluene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DD Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



Advanced Technology
Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-005A

Client Sample ID: S-17-20
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100902A	QC Batch: T10VS175	PrepDate:	Analyst: BD		
Trichloroethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Vinyl chloride	ND	5.0	µg/Kg	1	9/2/2010 04:42 PM
Surr: 1,2-Dichloroethane-d4	95.4	70-130	%REC	1	9/2/2010 04:42 PM
Surr: 4-Bromofluorobenzene	109	70-130	%REC	1	9/2/2010 04:42 PM
Surr: Dibromofluoromethane	96.8	70-130	%REC	1	9/2/2010 04:42 PM
Surr: Toluene-d8	110	70-130	%REC	1	9/2/2010 04:42 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID: MS 13_100831A	QC Batch: 66534	PrepDate: 8/31/2010	Analyst: DMP		
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
1,2-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
1,3-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
1,4-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2,4-Dichlorophenol	ND	1600	µg/Kg	1	8/31/2010 05:12 PM
2,4-Dimethylphenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2,4-Dinitrophenol	ND	1600	µg/Kg	1	8/31/2010 05:12 PM
2,4-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2,6-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2-Chloronaphthalene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2-Chlorophenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2-Methylnaphthalene	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2-Methylphenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM
2-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 05:12 PM
2-Nitrophenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM
3,3'-Dichlorobenzidine	ND	660	µg/Kg	1	8/31/2010 05:12 PM
3-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 05:12 PM
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	8/31/2010 05:12 PM
4-Bromophenyl-phenylether	ND	330	µg/Kg	1	8/31/2010 05:12 PM
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	8/31/2010 05:12 PM
4-Chloroaniline	ND	660	µg/Kg	1	8/31/2010 05:12 PM
4-Chlorophenyl-phenylether	ND	330	µg/Kg	1	8/31/2010 05:12 PM
4-Methylphenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM

Qualifiers: B Analyte detected in the associated Method Blank.
H Holding times for preparation or analysis exceeded.
S Spike/Surrogate outside of limits due to matrix interference.
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Laboratories

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ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHIC MW 17
Lab ID: 113490-005A

Client Sample ID: S-17-20
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_100831A	QC Batch: 66531			PrepDate: 8/31/2010		Analyst: DMP
4-Nitroaniline	ND	1600		µg/Kg	1	8/31/2010 05:12 PM
4-Nitrophenol	ND	1600		µg/Kg	1	8/31/2010 05:12 PM
Acenaphthene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Acenaphthylene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Anthracene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Benzidine (M)	ND	1600		µg/Kg	1	8/31/2010 05:12 PM
Benzo(a)anthracene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Benzo(a)pyrene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Benzoic acid	ND	1600		µg/Kg	1	8/31/2010 05:12 PM
Benzyl alcohol	ND	660		µg/Kg	1	8/31/2010 05:12 PM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Butylbenzylphthalate	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Chrysene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Di-n-butylphthalate	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Di-n-octylphthalate	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Dibenzofuran	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Diethylphthalate	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Dimethylphthalate	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Fluoranthene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Fluorene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Hexachlorobenzene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Hexachlorobutadiene	ND	660		µg/Kg	1	8/31/2010 05:12 PM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	8/31/2010 05:12 PM
Hexachloronaphthalene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	8/31/2010 05:12 PM
Isophorone	ND	330		µg/Kg	1	8/31/2010 05:12 PM
N-Nitrosodipropylamine	ND	330		µg/Kg	1	8/31/2010 05:12 PM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	8/31/2010 05:12 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Laboratories

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ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-005A

Client Sample ID: S-17-20
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_100831A	QC Batch: 66531	PrepDate: 8/31/2010		Analyst: DMP		
Naphthalene	ND	330	µg/Kg	1	8/31/2010 05:12 PM	
Nitrobenzene	ND	330	µg/Kg	1	8/31/2010 05:12 PM	
Pentachlorophenol	ND	1000	µg/Kg	1	8/31/2010 05:12 PM	
Phenanthrene	ND	330	µg/Kg	1	8/31/2010 05:12 PM	
Phenol	ND	330	µg/Kg	1	8/31/2010 05:12 PM	
Pyrene	ND	330	µg/Kg	1	8/31/2010 05:12 PM	
Surr: 1,2-Dichlorobenzene-d4	60.3	45-105	%REC	1	8/31/2010 05:12 PM	
Surr: 2,4,6-Tribromophenol	76.3	41-129	%REC	1	8/31/2010 05:12 PM	
Surr: 2-Chlorophenol-d4	64.2	55-108	%REC	1	8/31/2010 05:12 PM	
Surr: 2-Fluorobiphenyl	67.8	56-114	%REC	1	8/31/2010 05:12 PM	
Surr: 2-Fluorophenol	63.8	50-108	%REC	1	8/31/2010 05:12 PM	
Surr: 4-Terphenyl-d14	70.0	59-141	%REC	1	8/31/2010 05:12 PM	
Surr: Nitrobenzene-d5	62.8	46-114	%REC	1	8/31/2010 05:12 PM	
Surr: Phenol-d5	63.7	46-118	%REC	1	8/31/2010 05:12 PM	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out

V Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-006A

Client Sample ID: S-17-25
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_100831A	QC Batch: 66627			PrepDate: 8/30/2010	Analyst: CBR
DRO	100	10	mg/Kg	1	8/31/2010 03:54 PM
Sum: p-Terphenyl	93.3	63-152	%REC	1	8/31/2010 03:54 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_100831A	QC Batch: E10VS270			PrepDate:	Analyst: DDL
GRO	160	5.0	mg/Kg	5	8/31/2010 02:53 PM
Sum: Bromobenzene (FID)	57.1	56-137	%REC	5	8/31/2010 02:53 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_100903A	QC Batch: K10VS236	PrepDate:	Analyst: BD		
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,1-Dichloroethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,1-Dichloroethene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,1-Dichloropropene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	9/3/2010 03:18 PM
1,2-Dibromoethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2-Dichloroethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,2-Dichloropropane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,3-Dichloropropane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
2,2-Dichloropropane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
2-Chlorotoluene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
4-Chlorotoluene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
4-Isopropyltoluene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DB Surrogate Diluted Out

E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified



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Laboratories

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
 Lab Order: 113490
 Project: SHBC MW 17
 Lab ID: 113490-006A

Client Sample ID: S-17-25
 Collection Date: 8/30/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_100903A	QC Batch:	K10VS236	PrepDate:	Analyst: BD
Benzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Bromobenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Bromoform	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Bromomethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Chlorobenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Chloroethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Chloroform	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Chloromethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Dibromomethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Ethylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Hexachlorocycladiene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
m,p-Xylene	ND	10	µg/Kg	1	9/3/2010 03:18 PM
Methylene chloride	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
MTBE	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Naphthalene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
o-Xylene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Styrene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Tert-Butanol	ND	100	µg/Kg	1	9/3/2010 03:18 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
Toluene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out

U Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation

Client Sample ID: S-17-25

Lab Order: 113490

Collection Date: 8/30/2010

Project: SIBIC MW 17

Matrix: SOIL

Lab ID: 113490-006A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_100803A	QC Batch:	K10VS236	PrepDate:	Analyst:	BD
Trichloroethene	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	9/3/2010 03:18 PM	
Surr: 1,2-Dichloroethane-d4	76.3	70-130	%REC	1	9/3/2010 03:18 PM	
Surr: 4-Bromofluorobenzene	174	70-130	%REC	1	9/3/2010 03:18 PM	
Surr: Dibromofluoromethane	77.6	70-130	%REC	1	9/3/2010 03:18 PM	
Surr: Toluene-d8	82.9	70-130	%REC	1	9/3/2010 03:18 PM	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS 13_100831A	QC Batch:	66531	PrepDate:	8/31/2010	Analyst:	DMP
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
1,2-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
1,3-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
1,4-Dichlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2,4,5-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2,4-Dichlorophenol	ND	1600	µg/Kg	1	8/31/2010 05:40 PM		
2,6-Dimethylphenol	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2,4-Dinitrophenol	ND	1600	µg/Kg	1	8/31/2010 05:40 PM		
2,4-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2,6-Dinitrotoluene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2-Chloronaphthalene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2-Chlorophenol	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2-Methylnaphthalene	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2-Methylphenol	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
2-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 05:40 PM		
2-Nitrophenol	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
3,3'-Dichlorobenzidine	ND	660	µg/Kg	1	8/31/2010 05:40 PM		
3-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 05:40 PM		
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	8/31/2010 05:40 PM		
4-Bromophenyl-phenylether	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	8/31/2010 05:40 PM		
4-Chloroaniline	ND	660	µg/Kg	1	8/31/2010 05:40 PM		
4-Chlorophenyl-phenylether	ND	330	µg/Kg	1	8/31/2010 05:40 PM		
4-Methylphenol	ND	330	µg/Kg	1	8/31/2010 05:40 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
 Lab Order: 113490
 Project: SHHC MW 17
 Lab ID: 113490-006A

Client Sample ID: S-17-25
 Collection Date: 8/30/2010
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS 13_100831A	QC Batch:	85531	PrepDate:	8/31/2010	Analyst: DMP
4-Nitroaniline	ND	1600	µg/Kg	1	8/31/2010 05:40 PM	
4-Nitrophenol	ND	1600	µg/Kg	1	8/31/2010 05:40 PM	
Acenaphthene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Acenaphthylene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Anthracene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Benidine (M)	ND	1600	µg/Kg	1	8/31/2010 05:40 PM	
Benzo(a)anthracene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Benzo(a)pyrene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Benzo(b)fluoranthene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Benzo(g,h,i)perylene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Benzo(k)fluoranthene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Benzoic acid	ND	1600	µg/Kg	1	8/31/2010 05:40 PM	
Benzyl alcohol	ND	660	µg/Kg	1	8/31/2010 05:40 PM	
Bis(2-chloroethoxy)methane	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Bis(2-chloroethyl)ether	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Bis(2-chloroisopropyl)ether	ND	530	µg/Kg	1	8/31/2010 05:40 PM	
Bis(2-ethylhexyl)phthalate	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Butylbenzylphthalate	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Chrysene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Di-n-butylphthalate	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Di-n-octylphthalate	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Dibenz(a,h)anthracene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Dibenzofuran	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Diethylphthalate	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Dimethylphthalate	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Fluorenone	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Fluorene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Hexachlorobenzene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Hexachlorobutadiene	ND	660	µg/Kg	1	8/31/2010 05:40 PM	
Hexachlorocyclopentadiene	ND	660	µg/Kg	1	8/31/2010 05:40 PM	
Hexachloroethane	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Indeno(1,2,3-cd)pyrene	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
Isophorone	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
N-Nitrosodi-n-propylamine	ND	330	µg/Kg	1	8/31/2010 05:40 PM	
N-Nitrosodiphenylamine	ND	330	µg/Kg	1	8/31/2010 05:40 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology
 Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Sep-10

CLIENT: Testa Environmental Corporation
Lab Order: 113490
Project: SHHC MW 17
Lab ID: 113490-006A

Client Sample ID: S-17-25
Collection Date: 8/30/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS_13_100831A	QC Batch: 66531			PrepDate: 8/31/2010		Analyst: DMP
Naphthalene	ND	330		µg/Kg	1	8/31/2010 05:40 PM
Nitrobenzene	ND	330		µg/Kg	1	8/31/2010 05:40 PM
Pentafluorophenol	ND	1600		µg/Kg	1	8/31/2010 05:40 PM
Phenanthrene	ND	330		µg/Kg	1	8/31/2010 05:40 PM
Phenol	ND	330		µg/Kg	1	8/31/2010 05:40 PM
Pyrene	ND	330		µg/Kg	1	8/31/2010 05:40 PM
Surr: 1,2-Dichlorobenzene-d4	50.6	45-105		%REC	1	8/31/2010 05:40 PM
Surr: 2,4,6-Tribromophenol	75.2	41-129		%REC	1	8/31/2010 05:40 PM
Surr: 2-Chlorophenol-d4	53.5	55-108	S	%REC	1	8/31/2010 05:40 PM
Surr: 2-Fluorobiphenyl	60.8	56-114		%REC	1	8/31/2010 05:40 PM
Surr: 2-Fluorophenol	53.8	50-108		%REC	1	8/31/2010 05:40 PM
Surr: 4-Terphenyl-d14	72.8	59-141		%REC	1	8/31/2010 05:40 PM
Surr: Nitrobenzene-d5	62.7	45-114		%REC	1	8/31/2010 05:40 PM
Surr: Phenol-d5	55.0	46-118		%REC	1	8/31/2010 05:40 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DD Surrogate Diluted Out



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 07-Sep-10

CLIENT: Tesla Environmental Corporation
Work Order: 113490
Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DSL H

Sample ID: MB-66527	SampleType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 8/30/2010	RunNo: 124588						
Client ID: PBS	Batch ID: 66527	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/31/2010	SeqNo: 2003228						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO ND 10

Sum: p-Terphenyl

80.00 115 63 152

Sample ID: LCS-66527	SampleType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 8/30/2010	RunNo: 124588						
Client ID: LCSS	Batch ID: 66527	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/31/2010	SeqNo: 2003229						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO 953.870 10 1000 0 95.1 76 139

Sum: p-Terphenyl

80.00 110 63 152

Sample ID: 113484-002AMS	Sample Type: MS	TestCode: 8015_S_DSL	Unit: mg/Kg	Prep Date: 8/30/2010	RunNo: 124588						
Client ID: ZZZZZZ	Batch ID: 66527	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/31/2010	SeqNo: 2003232						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO 949.240 10 1000 0 94.9 60 152

Sum: p-Terphenyl

80.00 100 63 152

Sample ID: 113484-002AMS	Sample Type: MSD	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 8/30/2010	RunNo: 124588						
Client ID: ZZZZZZ	Batch ID: 66527	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/31/2010	SeqNo: 2003233						
Analyte	Result:	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO 947.165 10 1000 0 94.7 60 158

Sum: p-Terphenyl

80.00 107 63 152

0.219

0

20

Qualifiers

B	Analyte detected in the associated Method Blank	F	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	S	RPD outside accepted recovery limits	S	Spike Nitrogen outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



Advanced Technology
Laboratories

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CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: E100831MB1	SampleType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 124592						
Client ID: PBS	Batch ID: E10VS270	TestNo: EPA 8015B(M)		Analysis Date: 8/31/2010	SeqNo: 2003520						
Analyte	Result:	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surf. Bromofluorobenzene (FID)	65.982		100.0		86.0	55	137				

Sample ID: 113492-001AMS	Sample Type: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 124592						
Client ID: ZZZZZZ	Batch ID: E10VS270	TestNo: EPA 8015B(M)		Analysis Date: 8/31/2010	SeqNo: 2003523						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 113492-001AMSD	Sample Type: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 124592						
Client ID: ZZZZZZ	Batch ID: E10VS270	TestNo: EPA 8015B(M)		Analysis Date: 8/31/2010	SeqNo: 2003524						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.013	1.0	5.000	3.355	43.1	40	121	5.284	27.3	20	SR
Surf. Bromofluorobenzene (FID)	67.221		100.0		67.2	56	137		0	0	

Sample ID: E100831LCS1	Sample Type: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 124592						
Client ID: LCSS	Batch ID: E10VS270	TestNo: EPA 8015B(M)		Analysis Date: 8/31/2010	SeqNo: 2003525						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.272	1.0	5.000	0	105	70	130				
Surf. Bromofluorobenzene (FID)	106.725		100.0		107	56	137				

Qualifiers

R Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 ND Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

11 Holding times for preparation or analysis exceeded
 S Spike Surrogate outside of limits due to matrix interference



Advanced Technology
 Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755

Tel: 562.989.4945

Fax: 562.989.4640

CLIENT: Terra Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: K100903LCS1	SampleType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124702						
Client ID: LCSS	Batch ID: K10VS236	TestNo: EPA 8260B		Analysis Date: 9/3/2010	SeqNo: 2005020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	36.776	5.0	50.00	0	77.5	70	130				
Benzene	89.150	5.0	100.0	0	89.2	70	130				
Chlorobenzene	43.680	5.0	50.00	0	97.4	62	130				
MIBK	45.480	5.0	50.00	0	90.9	70	130				
Toluene	90.200	5.0	100.0	0	90.2	70	130				
Trichloroethene	45.120	5.0	50.00	0	90.2	77	130				
Sum: 1,2-Dichloroethane-d4	41.540		50.00		83.1	70	130				
Sum: 4-Bromofluorobenzene	48.710		50.00		93.4	70	130				
Sum: Dibromofluoromethane	40.780		50.00		81.8	70	130				
Sum: Toluene-d8	41.100		50.00		82.2	70	130				

Sample ID: K100903MB2MS	Sample Type: MS	Test Code: 8260_S	Units: µg/Kg	Prep Date:	Run No: 124702						
Client ID: ZZZZZZ	Batch ID: K10VS236	Test No: EPA 8260B		Analysis Date: 9/3/2010	Seq No: 2005021						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethane	36.080	5.0	50.00	0	76.2	70	130				
Benzene	88.860	5.0	100.0	0	88.9	70	130				
Chlorobenzene	46.870	5.0	50.00	0	97.3	70	130				
MIBK	45.080	5.0	50.00	0	90.2	70	130				
Toluene	91.410	5.0	100.0	0	91.4	70	130				
Trichloroethane	44.970	5.0	50.00	0	89.9	70	130				
Sum: 1,2-Dichloroethane-d4	41.270		50.00		82.5	70	130				
Sum: 4-Bromofluorobenzene	44.740		50.00		89.5	70	130				
Sum: Dibromofluoromethane	40.270		50.00		80.5	70	130				
Sum: Toluene-d8	41.260		50.00		82.5	70	130				

Sample ID: K100903MB2MSD	Sample Type: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124702						
Client ID: ZZZZZZ	Batch ID: K10VS236	TestNo: EPA 8260B		Analysis Date: 9/3/2010	SeqNo: 2005022						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DD Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside assigned recovery limits
 S Spike Surrogate outside of limits due to matrix interference
 Calculations are based on raw values



CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: K100903MB2	Sample Type: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124702						
Client ID: P65	Batch ID: K10VS236	TestNo: EPA 8260B		Analysis Date: 9/3/2010	SeqNo: 2005023						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trinitrobenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chloroethene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromochloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DD Surrogate Diluted Out
 E Value above quantitation range
 R RPD exceeds accepted recovery limits
 S Spike Surrogate outside of limits due to matrix interference
 Holding times for preparation or analysis exceeded



Advanced Technology
 Laboratories

1253 Walnut Avenue, Signal Hill, CA 90753 Tel: 562.989.4043 Fax: 562.989.4040

CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: K100903MB2	SampleType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124702						
Client ID: PBS	Batch ID: K10VS236	TestNo: EPA 8260B		Analysis Date: 9/3/2010	SeqNo: 2005023						
Analyte	Result	PCL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methylene chloride	NO	5.0									
MTBE	NO	5.0									
n-Butylbenzene	NO	5.0									
n-Propylbenzene	NO	5.0									
Naphthalene	NO	5.0									
o-Xylene	NO	5.0									
sec-Butylbenzene	NO	5.0									
Styrene	NO	5.0									
Tert-amyl methyl ether	NO	5.0									
Tert-Butanol	NO	100									
tert-Butylbenzene	NO	5.0									
Tetrachloroethene	NO	5.0									
Toluene	NO	5.0									
trans-1,2-Dichloroethene	NO	5.0									
Trichloroethene	NO	5.0									
Trichlorofluoromethane	NO	5.0									
Vinyl chloride	NO	5.0									
Sum: 1,2-Dichloroethane-d4	42.350		50.00		84.7	70	130				
Sum: 4-Bromofluorobenzene	43.850		50.00		87.3	70	130				
Sum: Dibromofluoromethane	40.530		50.00		81.1	70	130				
Sum: Toluene-d8	42.350		50.00		84.1	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DD Surrogate Diluted Out
 E Value above quantification range
 R RPD outside accepted recovery limits
 S Spike Surrogate outside of limits due to matrix interference
 Calculations are based on raw values



Advanced Technology Laboratories
 2275 Walnut Avenue, Napa, CA 94558
 Tel: 562.980.4905 Fax: 562.980.4940

CLIENT: Terra Environmental Corporation
 Work Order: 113490
 Project: SHBC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100902LCS1	SampleType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124663						
Client ID: LCSS	Batch ID: T10VS175	TestNo: EPA 8260B		Analysis Date: 9/2/2010	SeqNo: 2004149						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	43.930	5.0	50.00	0	87.7	70	130				
Benzene	111.890	5.0	100.0	0	112	70	130				
Chlorobenzene	52.830	5.0	50.00	0	106	62	130				
MTBE	51.400	5.0	50.00	0	102	70	130				
Toluene	113.760	5.0	100.0	0	114	70	130				
Trichloroethene	55.230	5.0	50.00	0	110	77	130				
Sum: 1,2-Dichloroethane-d4	46.360		50.00		92.5	70	130				
Sum: 4-Bromofluorobenzene	56.030		50.00		112	70	130				
Sum: Dibromofluoromethane	48.420		50.00		96.8	70	130				
Sum: Toluene-d8	54.160		50.00		108	70	130				

Sample ID: T100902MB3MS	SampleType: MS	TestCode: 8260_S	Units: µg/Kg	Prop Date:	RunNo: 124663						
Client ID: ZZZZZZ	Batch ID: T10VS175	TestNo: EPA 8260B		Analysis Date: 9/2/2010	SeqNo: 2004150						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	47.910	5.0	50.00	0	95.8	70	130				
Benzene	116.760	5.0	100.0	0	117	70	130				
Chlorobenzene	55.470	5.0	50.00	0	111	70	130				
MTBE	56.750	5.0	50.00	0	114	70	130				
Toluene	120.220	5.0	100.0	0	120	70	130				
Trichloroethene	58.150	5.0	50.00	0	116	70	130				
Sum: 1,2-Dichloroethane-d4	49.510		50.00		97.0	70	130				
Sum: 4-Bromofluorobenzene	55.920		50.00		112	70	130				
Sum: Dibromofluoromethane	50.350		50.00		101	70	130				
Sum: Toluene-d8	54.700		50.00		109	70	130				

Sample ID: T100902MB3MSD	SampleType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124663						
Client ID: ZZZZZZ	Batch ID: T10VS175	TestNo: EPA 8260B		Analysis Date: 9/2/2010	SeqNo: 2004151						
Analyte	Result	POL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 PO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 H Holding times for preparation or analysis exceeded
 S Spike Surrogate outside of limits due to matrix interference
 Calculations are based on raw values



CLIENT: Terra Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100902MB3MSD		SampleType: MSD	TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 124663		
Client ID: ZZZZZZ		Batch ID: T10VS175	TestNo: EPA 8260B				Analysis Date: 9/2/2010		SeqNo: 2004151		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	48.370	5.0	50.00	0	92.7	70	130	47.91	3.27	20	
Benzene	111.655	5.0	100.0	0	112	70	130	116.7	4.42	20	
Chlorobenzene	55.660	5.0	50.00	0	111	70	130	55.47	0.342	20	
MTBE	55.630	5.0	50.00	0	111	70	130	56.75	1.99	20	
Toluene	115.990	5.0	100.0	0	116	70	130	120.2	3.58	20	
Trichloroethane	55.552	5.0	50.00	0	111	70	130	58.15	4.56	20	
Sum: 1,2-Dichloroethane-d4	51.870		50.00		103	70	130		0	0	
Sum: 4-Bromofluorobenzene	56.870		50.00		117	70	130		0	0	
Sum: Dibromofluoromethane	51.800		50.00		104	70	130		0	0	
Sum: Toluene-d8	55.570		50.00		111	70	130		0	0	

Sample ID: T100902MB3	SampleType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124663						
Client ID: PBS	Batch ID: T10VS175	TestNo: EPA 8260B		Analysis Date: 9/2/2010	SeqNo: 2004152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropene	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Triethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromooethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DD Surrogate Blinded Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 Calculations are based on raw values



CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100902MB3	Sample Type: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124663						
Client ID: PBS	Batch ID: T10VS175	TestNo: EPA 8260B		Analysis Date: 9/2/2010	SeqNo: 2004152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoforn	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Sample Date Dated Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- S Spike Surrogate outside of limits due to matrix interference

CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: Y100902MB3	Sample Type: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 124663						
Client ID: PBS	Batch ID: Y10VS175	TestNo: EPA 8260B		Analysis Date: 9/2/2010	SecNo: 2004152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethane	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethane	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Sum: 1,2-Dichloroethane-d4	49.070		50.00		96.1	70		130			
Sum: 4-Bromofluorobenzene	54.340		50.00		109	70		130			
Sum: D-bromofluoromethane	50.560		50.00		101	70		130			
Sum: Toluene-d8	54.800		50.00		109	70		130			

Qualifiers:

R Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Sample(s) Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike Sample(s) outside of limits due to matrix interference
 H Holding times for preparation or analysis exceeded
 Calculations are based on raw values



Advanced Technology Laboratories
 12751 Alabaster Avenue, Signal Hill, CA 90755
 Tel: 562-989-2625 Fax: 562-989-4940

CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: MS-66531	Sample Type: MBLK	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 8/31/2010	RunNo: 124601						
Client ID: PBS	Batch ID: 66531	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 8/31/2010	SeqNo: 2003030						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	1800									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1800									
2,4-Dinitrotoluene	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									
3-Chlorophenol	ND	330									
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1800									
2-Nitrophenol	ND	330									
3,3'-Dichlorobenzidine	ND	850									
3-Nitroaniline	ND	1800									
4,6-Dinitro-2-methylphenol	ND	1500									
4-Bromophenyl-phenyl ether	ND	330									
4-Chloro-3-methylphenol	ND	660									
4-Chloroaniline	ND	660									
4-Chlorophenyl-phenyl ether	ND	330									
4-Methylphenol	ND	330									
4-Nitroaniline	ND	1800									
4-Nitrophenol	ND	1800									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitative range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

SI Holding times for preparation or analysis exceeded
 S Spike Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 113490
Project: SHHC MW 17

ANALYTICAL OC SUMMARY REPORT

TestCode: 8270 S FULL

[illegible]

Qualifiers:

B	Analysis detected in the associated Method Blank	f	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPT outside accepted recovery limits	S	Spike Surrogate outside of limits due to matrix interference
DO	Surrogate Dilution Out		Calculations are based on raw values		

f. Value above quantitation range

H Holding times for preparation or analysis exceeded

CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SEHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: MB-66531	Sample Type: MBLK	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 8/31/2010	RunNo: 124601						
Client ID: PBS	Batch ID: 66531	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 8/31/2010	SeqNo: 2003030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									
Sum: 1,2-Dichlorobenzene-d4	2743.667		3330		82.4	45	105				
Sum: 2,4,6-Trinitrophenol	2572.000		3330		77.4	41	129				
Sum: 2-Chlorophenol-d4	2845.667		3330		85.5	55	108				
Sum: 2-Fluorobiphenyl	2533.667		3330		88.1	56	114				
Sum: 2-Fluorophenol	2816.333		3330		84.6	50	108				
Sum: 4-Terphenyl-d14	2750.667		3330		81.1	59	141				
Sum: Nitrobenzene-d5	2846.000		3330		85.5	45	114				
Sum: Phenol-d5	2886.000		3330		86.1	46	118				

Sample ID: LCS-66531	Sample Type: LCS	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 8/31/2010	RunNo: 124601						
Client ID: LCSS	Batch ID: 66531	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 8/31/2010	SeqNo: 2003031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2686.667	330	3330	0	80.7	67	107				
1,4-Dichlorobenzene	2651.333	330	3330	0	78.6	64	99				
2,4-Dinitrotoluene	5325.000	330	3330	0	99.8	81	122				
2-Chlorophenol	2628.000	330	3330	0	76.9	62	112				
4-Chloro-3-methylphenol	3127.667	660	3330	0	93.9	64	136				
4-Nitrophenol	3589.000	1600	3330	0	108	60	142				
Acenaphthene	2680.000	330	3330	0	86.5	70	116				
N-Nitrosodi-n-propylamine	2905.333	330	3330	0	84.2	73	115				
Pentachlorophenol	2654.000	1600	3330	0	86.9	59	135				
Phenol	2723.000	330	3330	0	81.8	61	120				
Pyrene	3269.000	330	3330	0	98.2	75	117				

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected in the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantification range
 R RPD outside accepted recovery limits
 S Spike Surrogate outside of limits due to matrix interference
 H Holding times for preparation or analysis exceeded
 (Calculations are based on raw values)



Advanced Technology Laboratories
 1375 Walnut Avenue, Signal Hill, CA 90755
 Tel: 562.986.4945 Fax: 562.986.4946

CLIENT: Testa Environmental Corporation
 Work Order: 113-490
 Project: SHHC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: LCS-66531	Sample Type: LCS	Test Code: 8270_S_FULL	Units: µg/Kg	Prep Date: 8/31/2010	Run No: 124601						
Client ID: LCSS	Batch ID: 66531	Test No: EPA 8270C	EPA 3350B	Analysis Date: 8/31/2010	Seq No: 2003031						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sum: 1,2-Dichlorobenzene-d4	2565.667		3330		77.0	45	105				
Sum: 2,4,6-Tribromophenol	3155.333		3330		94.8	41	129				
Sum: 2-Chlorophenol-d4	2600.333		3330		72.1	55	108				
Sum: 2-Fluorobiphenyl	2755.333		3330		82.7	56	114				
Sum: 2-Fluorophenol	2556.667		3330		76.6	50	108				
Sum: 4-Terphenyl-d14	2782.333		3330		83.0	59	141				
Sum: N-toluenzene-d5	2678.667		3330		80.4	45	114				
Sum: Phenol-d5	2675.000		3330		80.3	46	118				

Sample ID: 113484-001AMS	SampleType: MS	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 8/31/2010	RunNo: 124601						
Client ID: ZZZZZZ	Batch ID: 66531	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 8/31/2010	SeqNo: 2003032						
Analyte	Result	POL	SPX value	SPX Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2402.667	330	3330	0	72.2	62	109				
1,4-Dichlorobenzene	2207.000	330	3330	0	66.3	57	99				
2,4-Dinitrochlorene	3307.333	330	3330	0	99.3	76	126				
2-Chlorophenol	2436.000	330	3330	0	73.2	52	120				
4-Chloro-3-methylphenol	3150.000	660	3330	0	94.6	63	137				
4-Nitrophenol	3753.333	1650	3330	0	113	52	144				
Acenaphthene	2889.667	330	3330	0	86.2	61	121				
N-Nitrosodipropylamine	2427.333	330	3330	0	72.9	67	116				
Perchloroethanol	3096.333	1600	3330	0	102	47	143				
Phenol	2507.000	330	3330	0	75.3	54	126				
Pyrene	3230.000	330	3330	0	97.0	68	121				
Sum: 1,2-Dichlorobenzene-d4	2130.000		3330		64.0	45	105				
Sum: 2,4,6-Trichlorophenol	3224.667		3330		96.6	41	129				
Sum: 2-Chlorophenol-d4	2571.333		3330		71.2	53	106				
Sum: 2-Fluorobiphenyl	2579.667		3330		77.5	56	114				
Sum: 2-Fluorophenol	2566.667		3330		71.1	50	106				
Sum: 4-Terphenyl-d14	2968.000		3330		89.1	59	141				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DC Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
 Work Order: 113490
 Project: SUEC MW 17

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID: 113484-001AMS	Sample Type: MS	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 8/31/2010	RunNo: 124601						
Client ID: ZZZZZZ	Batch ID: 66531	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 8/31/2010	SeqNo: 2003032						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sum: Nitrobenzene-d5	2314.667		3330		69.5	45	114				
Sum: Phenol-d5	2454.335		3330		73.7	45	118				

Sample ID: 113484-001AMSD	Sample Type: MSD	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 8/31/2010	RunNo: 124601						
Client ID: ZZZZZZ	Batch ID: 66531	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 8/31/2010	SeqNo: 2003033						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	2609.000	330	3330	0	78.3	62	109	2403	8.23	20	
1,4-Dichlorobenzene	2432.333	330	3330	0	73.0	57	99	2207	9.71	20	
2,4-Dinitrotoluene	3378.333	330	3330	0	101	76	126	3307	2.12	20	
2-Chlorophenol	2589.333	330	3330	0	77.8	52	120	2438	6.02	20	
4-Chloro-3-methylphenol	3215.000	660	3330	0	96.5	63	137	3150	2.04	20	
4-Nitrophenol	3813.333	1600	3330	0	115	52	144	3753	1.59	20	
Acenaphthene	3237.333	330	3330	0	91.2	61	121	2870	5.63	20	
N-Nitrosodi-n-propylamine	2585.333	330	3330	0	77.0	67	116	2427	5.53	20	
Pentachlorophenol	3445.000	1600	3330	0	105	47	143	3396	1.42	20	
Phenol	2640.333	330	3330	0	79.3	54	125	2607	5.18	20	
Pyrene	3405.667	330	3330	0	102	68	121	3230	5.32	20	
Sum: 1,2-Dichlorobenzene-d4	2380.000		3330		71.5	45	105		0	0	
Sum: 2,4,6-Trichlorophenol	3391.333		3330		102	41	129		0	0	
Sum: 2-Chlorophenol-d4	2675.333		3330		77.3	55	108		0	0	
Sum: 2-Fluorobiphenyl	2790.000		5330		83.6	56	114		0	0	
Sum: 2-Fluorophenol	2555.337		3330		76.7	50	109		0	0	
Sum: 4-Terphenyl-d14	2979.667		3330		89.5	59	141		0	0	
Sum: Nitrobenzene-d5	2469.000		3330		74.7	45	114		0	0	
Sum: Phenol-d5	2815.667		3330		78.5	46	118		0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- EQ Surrogate Picked Out
- F Value above quantitation range
- R RPD outside accepted recovery limits
- S Spikes Surrogate outside of limits due to matrix interference



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4049

CHAIN OF CUSTODY RECORD

Pg. 1 of 1

FOR LABORATORY USE ONLY:

ADVANCED TECHNOLOGIES LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040		Method of Transport ☒ Client ☐ ATL ☐ OnTrac ☐ FedEx ☐ GSO ☐ Other:		Sample Condition Upon Receipt 1. Cooled ☒ Y ☐ N ☐ 4. Sealed ☒ Y ☐ N ☐ 2. HeadSpace (N/A) ☒ Y ☐ N ☐ 5. # of SFLS MATCH DOC ☒ Y ☐ N ☐ 3. Containers Intact ☒ Y ☐ N ☐ 6. Preserved ☒ Y ☐ N ☐	
Project Name: SAHC MW 17 Date: 8/30/10 Time: 1315		Project #: 1315 Date: 8/30/10 Time: 1315		Project Mgr / Submitter: B. Fletcher Date: 8/30/10 Time: 1315	

Client: Testa Attn: Testa Address: 1734 90th St City: Signal Hill State: CA Zip: 90755		Project #: 1734 90th St Date: 8/30/10 Time: 1315		Project Mgr / Submitter: B. Fletcher Date: 8/30/10 Time: 1315	
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Project Name: **SAHC MW 17**
 Date: **8/30/10**
 Time: **1315**

Project Mgr / Submitter: **B. Fletcher**
 Date: **8/30/10**
 Time: **1315**

Project #: **1734 90th St**
 Date: **8/30/10**
 Time: **1315**

Project Mgr / Submitter: **B. Fletcher**
 Date: **8/30/10**
 Time: **1315**

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
1734 90th St	5-17-2	5-17-2	8/30/10	
1734 90th St	5-17-5	5-17-5	8/30/10	
1734 90th St	10	10	8/30/10	
1734 90th St	15	15	8/30/10	
1734 90th St	20	20	8/30/10	
1734 90th St	25	25	8/30/10	

TAT: LA= ☐ Emergency ☐ Next workday ☐ Next workday ☐		TAT: LA= ☐ Emergency ☐ Next workday ☐ Next workday ☐	
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Beaker G=Glass P=Plastic M=Metal		Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Beaker G=Glass P=Plastic M=Metal	

Rev. 2010-0325

DISTRIBUTION: White with report. Yellow to (older). Pink to submitter.

March 03, 2011



Stephen Testa
Testa Environmental Corporation
19814 Jesus Maria Road
Mokelumne Hill, CA 95245

TEL: (209) 754-1422

FAX: (209) 754-1422

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 116402

RE: MW-19

Attention: Stephen Testa

Enclosed are the results for sample(s) received on February 16, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Testa Environmental Corporation
Project: MW-19
Lab Order: 116402

CASE NARRATIVE

Analytical Comments for Method 8015 (DRO)

Surrogate recovery was diluted out for samples 116459-001AMS and 116459-001AMSD (non-client specific samples).

Analytical Comments for Method 8270

Surrogate recovery biased low for sample 116402-004A, possibly due to matrix interferences.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 116426-008AMS and 116426-008AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-001A

Client Sample ID: S-19-5
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID						
LUFT			EPA 8015B(M)			
RunID: GC16_110222A	QC Batch: 70895			PrepDate: 2/22/2011		Analyst: CBR
DRO	23	10		mg/Kg	1	2/23/2011 05:30 PM
Surr: p-Terphenyl	103	63-152		%REC	1	2/23/2011 05:30 PM
GASOLINE RANGE ORGANICS BY GC/FID						
			EPA 8015B(M)			
RunID: GC2_110221A	QC Batch: E11VS082			PrepDate:		Analyst: TP
GRO	ND	1.0		mg/Kg	1	2/21/2011 01:25 PM
Surr: Bromofluorobenzene (FID)	116	62-153		%REC	1	2/21/2011 01:25 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS5_110218A	QC Batch: T11VS043			PrepDate:		Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	2/18/2011 03:11 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	2/18/2011 03:11 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-001A

Client Sample ID: S-19-5
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110218A	QC Batch:	T11VS043	PrepDate:	Analyst:	DDL
Benzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Bromobenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Bromoform	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Bromomethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Chloroethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Chloroform	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Chloromethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Di-isopropyl ether	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Dibromomethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
m,p-Xylene	ND	10	µg/Kg	1	2/18/2011 03:11 PM	
Methylene chloride	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
MTBE	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Naphthalene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
o-Xylene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Styrene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Tert-Butanol	ND	100	µg/Kg	1	2/18/2011 03:11 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
Toluene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-001A

Client Sample ID: S-19-5
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110218A	QC Batch:	T11VS043	PrepDate:	Analyst: DDL
Trichloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM
Vinyl chloride	ND	5.0	µg/Kg	1	2/18/2011 03:11 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	1	2/18/2011 03:11 PM
Surr: 4-Bromofluorobenzene	81.7	70-130	%REC	1	2/18/2011 03:11 PM
Surr: Dibromofluoromethane	102	70-130	%REC	1	2/18/2011 03:11 PM
Surr: Toluene-d8	89.7	70-130	%REC	1	2/18/2011 03:11 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS 13_110228C	QC Batch:	71059	PrepDate:	2/25/2011	Analyst: MFR
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
1,2-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
1,3-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
1,4-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2,4,5-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2,4-Dichlorophenol	ND	1600	µg/Kg	1	3/1/2011 04:23 AM	
2,4-Dimethylphenol	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2,4-Dinitrophenol	ND	1600	µg/Kg	1	3/1/2011 04:23 AM	
2,4-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2,6-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2-Chloronaphthalene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2-Chlorophenol	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2-Methylnaphthalene	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2-Methylphenol	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
2-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 04:23 AM	
2-Nitrophenol	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
3,3'-Dichlorobenzidine	ND	660	µg/Kg	1	3/1/2011 04:23 AM	
3-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 04:23 AM	
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	3/1/2011 04:23 AM	
4-Bromophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	3/1/2011 04:23 AM	
4-Chloroaniline	ND	660	µg/Kg	1	3/1/2011 04:23 AM	
4-Chlorophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 04:23 AM	
4-Methylphenol	ND	330	µg/Kg	1	3/1/2011 04:23 AM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-001A

Client Sample ID: S-19-5
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS 13_110228C	QC Batch: 71059			PrepDate: 2/25/2011	Analyst: MFR	
4-Nitroaniline	ND	1600		µg/Kg	1	3/1/2011 04:23 AM
4-Nitrophenol	ND	1600		µg/Kg	1	3/1/2011 04:23 AM
Acenaphthene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Acenaphthylene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Anthracene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Benidine (M)	ND	1600		µg/Kg	1	3/1/2011 04:23 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Benzo(a)pyrene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Benzoic acid	ND	1600		µg/Kg	1	3/1/2011 04:23 AM
Benzyl alcohol	ND	660		µg/Kg	1	3/1/2011 04:23 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Chrysene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Dibenzofuran	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Diethylphthalate	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Dimethylphthalate	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Fluoranthene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Fluorene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Hexachlorobenzene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Hexachlorobutadiene	ND	660		µg/Kg	1	3/1/2011 04:23 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	3/1/2011 04:23 AM
Hexachloroethane	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Isophorone	ND	330		µg/Kg	1	3/1/2011 04:23 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	3/1/2011 04:23 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	3/1/2011 04:23 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-001A

Client Sample ID: S-19-5
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS 13_110228C	QC Batch: 71059				PrepDate: 2/25/2011	Analyst: MFR
Naphthalene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Nitrobenzene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Pentachlorophenol	ND	1600		µg/Kg	1	3/1/2011 04:23 AM
Phenanthrene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Phenol	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Pyrene	ND	330		µg/Kg	1	3/1/2011 04:23 AM
Surr: 1,2-Dichlorobenzene-d4	70.6	45-105		%REC	1	3/1/2011 04:23 AM
Surr: 2,4,6-Tribromophenol	74.1	41-129		%REC	1	3/1/2011 04:23 AM
Surr: 2-Chlorophenol-d4	70.6	55-108		%REC	1	3/1/2011 04:23 AM
Surr: 2-Fluorobiphenyl	76.6	56-114		%REC	1	3/1/2011 04:23 AM
Surr: 2-Fluorophenol	67.7	50-108		%REC	1	3/1/2011 04:23 AM
Surr: 4-Terphenyl-d14	79.5	59-141		%REC	1	3/1/2011 04:23 AM
Surr: Nitrobenzene-d5	67.6	45-114		%REC	1	3/1/2011 04:23 AM
Surr: Phenol-d5	67.9	46-118		%REC	1	3/1/2011 04:23 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified	
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-002A

Client Sample ID: S-19-10
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_110222A	QC Batch: 70895	PrepDate: 2/22/2011	Analyst: CBR
DRO	28	10	mg/Kg
Surr: p-Terphenyl	103	63-152	%REC

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110221A	QC Batch: E11VS082	PrepDate:	Analyst: TP
GRO	ND	1.0	mg/Kg
Surr: Bromofluorobenzene (FID)	112	62-153	%REC

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110218A	QC Batch: T11VS043	PrepDate:	Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,1-Trichloroethane	ND	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,2-Trichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethene	ND	5.0	µg/Kg
1,1-Dichloropropene	ND	5.0	µg/Kg
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg
1,2,3-Trichloropropane	ND	5.0	µg/Kg
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg
1,2-Dibromoethane	ND	5.0	µg/Kg
1,2-Dichlorobenzene	ND	5.0	µg/Kg
1,2-Dichloroethane	ND	5.0	µg/Kg
1,2-Dichloropropane	ND	5.0	µg/Kg
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg
1,3-Dichlorobenzene	ND	5.0	µg/Kg
1,3-Dichloropropane	ND	5.0	µg/Kg
1,4-Dichlorobenzene	ND	5.0	µg/Kg
2,2-Dichloropropane	ND	5.0	µg/Kg
2-Chlorotoluene	ND	5.0	µg/Kg
4-Chlorotoluene	ND	5.0	µg/Kg
4-Isopropyltoluene	ND	5.0	µg/Kg

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-002A

Client Sample ID: S-19-10
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110218A	QC Batch:	T11VS043	PrepDate:	Analyst:	DDL
Benzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Bromobenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Bromoform	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Bromomethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Chloroethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Chloroform	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Chloromethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Di-isopropyl ether	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Dibromomethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
m,p-Xylene	ND	10	µg/Kg	1	2/18/2011 03:29 PM	
Methylene chloride	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
MTBE	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Naphthalene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
o-Xylene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Styrene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Tert-Butanol	ND	100	µg/Kg	1	2/18/2011 03:29 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Toluene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-002A

Client Sample ID: S-19-10
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110218A	QC Batch:	T11VS043	PrepDate:	Analyst:	DDL
Trichloroethene	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	2/18/2011 03:29 PM	
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	2/18/2011 03:29 PM	
Surr: 4-Bromofluorobenzene	84.6	70-130	%REC	1	2/18/2011 03:29 PM	
Surr: Dibromofluoromethane	108	70-130	%REC	1	2/18/2011 03:29 PM	
Surr: Toluene-d8	97.1	70-130	%REC	1	2/18/2011 03:29 PM	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS 13_110228C	QC Batch:	71059	PrepDate:	2/25/2011	Analyst:	MFR
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
1,2-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
1,3-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
1,4-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2,4,5-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2,4-Dichlorophenol	ND	1600	µg/Kg	1	3/1/2011 04:51 AM		
2,4-Dimethylphenol	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2,4-Dinitrophenol	ND	1600	µg/Kg	1	3/1/2011 04:51 AM		
2,4-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2,6-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2-Chloronaphthalene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2-Chlorophenol	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2-Methylnaphthalene	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2-Methylphenol	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
2-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 04:51 AM		
2-Nitrophenol	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
3,3'-Dichlorobenzidine	ND	660	µg/Kg	1	3/1/2011 04:51 AM		
3-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 04:51 AM		
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	3/1/2011 04:51 AM		
4-Bromophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	3/1/2011 04:51 AM		
4-Chloroaniline	ND	660	µg/Kg	1	3/1/2011 04:51 AM		
4-Chlorophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 04:51 AM		
4-Methylphenol	ND	330	µg/Kg	1	3/1/2011 04:51 AM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-002A

Client Sample ID: S-19-10
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS 13_110228C	QC Batch: 71059			PrepDate: 2/25/2011	Analyst: MFR	
4-Nitroaniline	ND	1600		µg/Kg	1	3/1/2011 04:51 AM
4-Nitrophenol	ND	1600		µg/Kg	1	3/1/2011 04:51 AM
Acenaphthene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Acenaphthylene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Anthracene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Benzidine (M)	ND	1600		µg/Kg	1	3/1/2011 04:51 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Benzo(a)pyrene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Benzoic acid	ND	1600		µg/Kg	1	3/1/2011 04:51 AM
Benzyl alcohol	ND	660		µg/Kg	1	3/1/2011 04:51 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Chrysene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Dibenzofuran	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Diethylphthalate	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Dimethylphthalate	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Fluoranthene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Fluorene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Hexachlorobenzene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Hexachlorobutadiene	ND	660		µg/Kg	1	3/1/2011 04:51 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	3/1/2011 04:51 AM
Hexachloroethane	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Isophorone	ND	330		µg/Kg	1	3/1/2011 04:51 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	3/1/2011 04:51 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	3/1/2011 04:51 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology Laboratories**ANALYTICAL RESULTS**

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-002A

Client Sample ID: S-19-10
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B						
EPA 8270C						
RunID: MS 13_110228C	QC Batch: 71059			PrepDate: 2/25/2011		Analyst: MFR
Naphthalene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Nitrobenzene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Pentachlorophenol	ND	1600		µg/Kg	1	3/1/2011 04:51 AM
Phenanthrene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Phenol	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Pyrene	ND	330		µg/Kg	1	3/1/2011 04:51 AM
Surr: 1,2-Dichlorobenzene-d4	66.3	45-105		%REC	1	3/1/2011 04:51 AM
Surr: 2,4,6-Tribromophenol	67.4	41-129		%REC	1	3/1/2011 04:51 AM
Surr: 2-Chlorophenol-d4	66.2	55-108		%REC	1	3/1/2011 04:51 AM
Surr: 2-Fluorobiphenyl	72.2	56-114		%REC	1	3/1/2011 04:51 AM
Surr: 2-Fluorophenol	64.6	50-108		%REC	1	3/1/2011 04:51 AM
Surr: 4-Terphenyl-d14	75.2	59-141		%REC	1	3/1/2011 04:51 AM
Surr: Nitrobenzene-d5	64.1	45-114		%REC	1	3/1/2011 04:51 AM
Surr: Phenol-d5	64.0	46-118		%REC	1	3/1/2011 04:51 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-003A

Client Sample ID: S-19-15
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_110222A	QC Batch: 70895	PrepDate: 2/22/2011	Analyst: CBR
DRO	280	10	mg/Kg
Surr: p-Terphenyl	136	63-152	%REC

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110221A	QC Batch: E11VS082	PrepDate:	Analyst: TP
GRO	2.4	1.0	mg/Kg
Surr: Bromofluorobenzene (FID)	97.9	62-153	%REC

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110221A	QC Batch: T11VS044	PrepDate:	Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,1-Trichloroethane	ND	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,2-Trichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethene	ND	5.0	µg/Kg
1,1-Dichloropropene	ND	5.0	µg/Kg
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg
1,2,3-Trichloropropane	ND	5.0	µg/Kg
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg
1,2-Dibromoethane	ND	5.0	µg/Kg
1,2-Dichlorobenzene	ND	5.0	µg/Kg
1,2-Dichloroethane	ND	5.0	µg/Kg
1,2-Dichloropropane	ND	5.0	µg/Kg
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg
1,3-Dichlorobenzene	ND	5.0	µg/Kg
1,3-Dichloropropane	ND	5.0	µg/Kg
1,4-Dichlorobenzene	ND	5.0	µg/Kg
2,2-Dichloropropane	ND	5.0	µg/Kg
2-Chlorotoluene	ND	5.0	µg/Kg
4-Chlorotoluene	ND	5.0	µg/Kg
4-Isopropyltoluene	ND	5.0	µg/Kg

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



Advanced Technology Laboratories**ANALYTICAL RESULTS**

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-003A

Client Sample ID: S-19-15
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 8260B**

RunID:	MS5_110221A	QC Batch:	T11VS044	PrepDate:	Analyst: DDL
Benzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Bromobenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Bromoform	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Bromomethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Chlorobenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Chloroethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Chloroform	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Chloromethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Dibromomethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Ethylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
m,p-Xylene	ND	10	µg/Kg	1	2/21/2011 12:24 PM
Methylene chloride	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
MTBE	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Naphthalene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
o-Xylene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Styrene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Tert-Butanol	ND	100	µg/Kg	1	2/21/2011 12:24 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
Toluene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-003A

Client Sample ID: S-19-15
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110221A	QC Batch:	T11VS044	PrepDate:	Analyst:	DDL
Trichloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	2/21/2011 12:24 PM	
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC	1	2/21/2011 12:24 PM	
Surr: 4-Bromofluorobenzene	112	70-130	%REC	1	2/21/2011 12:24 PM	
Surr: Dibromofluoromethane	107	70-130	%REC	1	2/21/2011 12:24 PM	
Surr: Toluene-d8	91.2	70-130	%REC	1	2/21/2011 12:24 PM	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS 13_110228C	QC Batch:	71059	PrepDate:	2/25/2011	Analyst:	MFR
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
1,2-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
1,3-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
1,4-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2,4,5-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2,4-Dichlorophenol	ND	1600	µg/Kg	1	3/1/2011 05:18 AM		
2,4-Dimethylphenol	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2,4-Dinitrophenol	ND	1600	µg/Kg	1	3/1/2011 05:18 AM		
2,4-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2,6-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2-Chloronaphthalene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2-Chlorophenol	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2-Methylnaphthalene	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2-Methylphenol	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
2-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 05:18 AM		
2-Nitrophenol	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
3,3'-Dichlorobenzidine	ND	660	µg/Kg	1	3/1/2011 05:18 AM		
3-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 05:18 AM		
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	3/1/2011 05:18 AM		
4-Bromophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	3/1/2011 05:18 AM		
4-Chloroaniline	ND	660	µg/Kg	1	3/1/2011 05:18 AM		
4-Chlorophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 05:18 AM		
4-Methylphenol	ND	330	µg/Kg	1	3/1/2011 05:18 AM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-003A

Client Sample ID: S-19-15
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 350B			EPA 8270C			
RunID: MS 13_110228C	QC Batch: 71059	PrepDate: 2/25/2011		Analyst: MFR		
4-Nitroaniline	ND	1600		µg/Kg	1	3/1/2011 05:18 AM
4-Nitrophenol	ND	1600		µg/Kg	1	3/1/2011 05:18 AM
Acenaphthene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Acenaphthylene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Anthracene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Benzidine (M)	ND	1600		µg/Kg	1	3/1/2011 05:18 AM
Benzo(a)anthracene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Benzo(a)pyrene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Benzo(b)fluoranthene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Benzo(k)fluoranthene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Benzoic acid	ND	1600		µg/Kg	1	3/1/2011 05:18 AM
Benzyl alcohol	ND	660		µg/Kg	1	3/1/2011 05:18 AM
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Bis(2-ethylhexyl)phthalate	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Butylbenzylphthalate	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Chrysene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Di-n-butylphthalate	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Di-n-octylphthalate	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Dibenzofuran	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Diethylphthalate	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Dimethylphthalate	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Fluoranthene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Fluorene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Hexachlorobenzene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Hexachlorobutadiene	ND	660		µg/Kg	1	3/1/2011 05:18 AM
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	3/1/2011 05:18 AM
Hexachloroethane	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Isophorone	ND	330		µg/Kg	1	3/1/2011 05:18 AM
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	3/1/2011 05:18 AM
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	3/1/2011 05:18 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories**ANALYTICAL RESULTS**

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-003A

Client Sample ID: S-19-15
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B						
EPA 8270C						
RunID: MS 13_110228C	QC Batch: 71059			PrepDate: 2/25/2011		Analyst: MFR
Naphthalene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Nitrobenzene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Pentachlorophenol	ND	1600		µg/Kg	1	3/1/2011 05:18 AM
Phenanthrene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Phenol	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Pyrene	ND	330		µg/Kg	1	3/1/2011 05:18 AM
Surr: 1,2-Dichlorobenzene-d4	65.1	45-105		%REC	1	3/1/2011 05:18 AM
Surr: 2,4,6-Tribromophenol	67.7	41-129		%REC	1	3/1/2011 05:18 AM
Surr: 2-Chlorophenol-d4	67.0	55-108		%REC	1	3/1/2011 05:18 AM
Surr: 2-Fluorobiphenyl	73.7	56-114		%REC	1	3/1/2011 05:18 AM
Surr: 2-Fluorophenol	63.6	50-108		%REC	1	3/1/2011 05:18 AM
Surr: 4-Terphenyl-d14	73.0	59-141		%REC	1	3/1/2011 05:18 AM
Surr: Nitrobenzene-d5	65.8	45-114		%REC	1	3/1/2011 05:18 AM
Surr: Phenol-d5	63.9	46-118		%REC	1	3/1/2011 05:18 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-004A

Client Sample ID: S-19-20
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_110222A	QC Batch: 70895	PrepDate: 2/22/2011	Analyst: CBR
DRO	360	10	mg/Kg
Surr: p-Terphenyl	100	63-152	%REC

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110221A	QC Batch: E11VS082	PrepDate:	Analyst: TP
GRO	3.2	1.0	mg/Kg
Surr: Bromofluorobenzene (FID)	99.4	62-153	%REC

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110221A	QC Batch: T11VS044	PrepDate:	Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,1-Trichloroethane	ND	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg
1,1,2-Trichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethane	ND	5.0	µg/Kg
1,1-Dichloroethene	ND	5.0	µg/Kg
1,1-Dichloropropene	ND	5.0	µg/Kg
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg
1,2,3-Trichloropropane	ND	5.0	µg/Kg
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg
1,2-Dibromoethane	ND	5.0	µg/Kg
1,2-Dichlorobenzene	ND	5.0	µg/Kg
1,2-Dichloroethane	ND	5.0	µg/Kg
1,2-Dichloropropane	ND	5.0	µg/Kg
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg
1,3-Dichlorobenzene	ND	5.0	µg/Kg
1,3-Dichloropropane	ND	5.0	µg/Kg
1,4-Dichlorobenzene	ND	5.0	µg/Kg
2,2-Dichloropropane	ND	5.0	µg/Kg
2-Chlorotoluene	ND	5.0	µg/Kg
4-Chlorotoluene	ND	5.0	µg/Kg
4-Isopropyltoluene	ND	5.0	µg/Kg

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-004A

Client Sample ID: S-19-20
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110221A	QC Batch:	T11VS044	PrepDate:	Analyst:	DDL
Benzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Bromobenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Bromoform	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Bromomethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Chloroethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Chloroform	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Chloromethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Di-isopropyl ether	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Dibromomethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
m,p-Xylene	ND	10	µg/Kg	1	2/21/2011 12:42 PM	
Methylene chloride	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
MTBE	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Naphthalene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
o-Xylene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Styrene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Tert-Butanol	ND	100	µg/Kg	1	2/21/2011 12:42 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Toluene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories**ANALYTICAL RESULTS**

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-004A

Client Sample ID: S-19-20
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 8260B**

RunID:	MS5_110221A	QC Batch:	T11VS044	PrepDate:	Analyst:	DDL
Trichloroethene	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	2/21/2011 12:42 PM	
Surr: 1,2-Dichloroethane-d4	96.5	70-130	%REC	1	2/21/2011 12:42 PM	
Surr: 4-Bromofluorobenzene	88.0	70-130	%REC	1	2/21/2011 12:42 PM	
Surr: Dibromofluoromethane	100	70-130	%REC	1	2/21/2011 12:42 PM	
Surr: Toluene-d8	90.0	70-130	%REC	1	2/21/2011 12:42 PM	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 3550B****EPA 8270C**

RunID:	MS 13_110228C	QC Batch:	71059	PrepDate:	2/25/2011	Analyst:	MFR
1,2,4-Trichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
1,2-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
1,3-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
1,4-Dichlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2,4,5-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2,4,6-Trichlorophenol	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2,4-Dichlorophenol	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
2,4-Dimethylphenol	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2,4-Dinitrophenol	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
2,4-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2,6-Dinitrotoluene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2-Chloronaphthalene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2-Chlorophenol	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2-Methylnaphthalene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2-Methylphenol	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
2-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
2-Nitrophenol	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
3,3'-Dichlorobenzidine	ND	660	µg/Kg	1	3/1/2011 05:45 AM		
3-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
4,6-Dinitro-2-methylphenol	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
4-Bromophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
4-Chloro-3-methylphenol	ND	660	µg/Kg	1	3/1/2011 05:45 AM		
4-Chloroaniline	ND	660	µg/Kg	1	3/1/2011 05:45 AM		
4-Chlorophenyl-phenylether	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
4-Methylphenol	ND	330	µg/Kg	1	3/1/2011 05:45 AM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-004A

Client Sample ID: S-19-20
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS 13_110228C	QC Batch:	71059	PrepDate:	2/25/2011	Analyst:	MFR
4-Nitroaniline	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
4-Nitrophenol	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
Acenaphthene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Acenaphthylene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Anthracene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Benidine (M)	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
Benzo(a)anthracene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Benzo(a)pyrene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Benzo(b)fluoranthene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Benzo(g,h,i)perylene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Benzo(k)fluoranthene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Benzoic acid	ND	1600	µg/Kg	1	3/1/2011 05:45 AM		
Benzyl alcohol	ND	660	µg/Kg	1	3/1/2011 05:45 AM		
Bis(2-chloroethoxy)methane	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Bis(2-chloroethyl)ether	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Bis(2-chloroisopropyl)ether	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Bis(2-ethylhexyl)phthalate	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Butylbenzylphthalate	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Chrysene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Di-n-butylphthalate	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Di-n-octylphthalate	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Dibenz(a,h)anthracene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Dibenzofuran	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Diethylphthalate	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Dimethylphthalate	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Fluoranthene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Fluorene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Hexachlorobenzene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Hexachlorobutadiene	ND	660	µg/Kg	1	3/1/2011 05:45 AM		
Hexachlorocyclopentadiene	ND	660	µg/Kg	1	3/1/2011 05:45 AM		
Hexachloroethane	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Indeno(1,2,3-cd)pyrene	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
Isophorone	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
N-Nitrosodi-n-propylamine	ND	330	µg/Kg	1	3/1/2011 05:45 AM		
N-Nitrosodiphenylamine	ND	330	µg/Kg	1	3/1/2011 05:45 AM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 03-Mar-11

CLIENT: Testa Environmental Corporation
Lab Order: 116402
Project: MW-19
Lab ID: 116402-004A

Client Sample ID: S-19-20
Collection Date: 2/11/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 3550B			EPA 8270C			
RunID: MS 13_110228C	QC Batch: 71059				PrepDate: 2/25/2011	Analyst: MFR
Naphthalene	ND	330		µg/Kg	1	3/1/2011 05:45 AM
Nitrobenzene	ND	330		µg/Kg	1	3/1/2011 05:45 AM
Pentachlorophenol	ND	1600		µg/Kg	1	3/1/2011 05:45 AM
Phenanthrene	ND	330		µg/Kg	1	3/1/2011 05:45 AM
Phenol	ND	330		µg/Kg	1	3/1/2011 05:45 AM
Pyrene	ND	330		µg/Kg	1	3/1/2011 05:45 AM
Surr: 1,2-Dichlorobenzene-d4	54.8	45-105		%REC	1	3/1/2011 05:45 AM
Surr: 2,4,6-Tribromophenol	49.8	41-129		%REC	1	3/1/2011 05:45 AM
Surr: 2-Chlorophenol-d4	54.8	55-108	S	%REC	1	3/1/2011 05:45 AM
Surr: 2-Fluorobiphenyl	61.2	56-114		%REC	1	3/1/2011 05:45 AM
Surr: 2-Fluorophenol	52.7	50-108		%REC	1	3/1/2011 05:45 AM
Surr: 4-Terphenyl-d14	63.4	59-141		%REC	1	3/1/2011 05:45 AM
Surr: Nitrobenzene-d5	53.5	45-114		%REC	1	3/1/2011 05:45 AM
Surr: Phenol-d5	52.4	46-118		%REC	1	3/1/2011 05:45 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified	
	DO	Surrogate Diluted Out		





Advanced Technology Laboratories

CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

Date: 03-Mar-11

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DSL H

Sample ID MB-70895	SampType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 2/22/2011	RunNo: 130226						
Client ID: PBS	Batch ID: 70895	TestNo: EPA 8015B(M LUFT		Analysis Date: 2/22/2011	SeqNo: 2118374						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	10									
Surr: p-Terphenyl	102.090		80.00		128	63	152				
Sample ID LCS-70895	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 2/22/2011	RunNo: 130226						
Client ID: LCSS	Batch ID: 70895	TestNo: EPA 8015B(M LUFT		Analysis Date: 2/22/2011	SeqNo: 2118375						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1043.650	10	1000	0	104	76	139				
Surr: p-Terphenyl	74.610		80.00		93.3	63	152				
Sample ID 116459-001AMS	SampType: MS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 2/22/2011	RunNo: 130226						
Client ID: ZZZZZZ	Batch ID: 70895	TestNo: EPA 8015B(M LUFT		Analysis Date: 2/22/2011	SeqNo: 2118379						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	4772.900	100	1000	4092	68.1	60	158				
Surr: p-Terphenyl	0		80.00		0	63	152				SDO
Sample ID 116459-001AMSD	SampType: MSD	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 2/22/2011	RunNo: 130226						
Client ID: ZZZZZZ	Batch ID: 70895	TestNo: EPA 8015B(M LUFT		Analysis Date: 2/22/2011	SeqNo: 2118380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	5500.900	100	1000	4092	141	60	158	4773	14.2	20	
Surr: p-Terphenyl	0		80.00		0	63	152		0	0	SDO

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation

Work Order: 116402

Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID	E110221LC1	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 130173						
Client ID:	LCSS	Batch ID: E11VS082	TestNo: EPA 8015B(M)		Analysis Date: 2/21/2011	SeqNo: 2116454						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		4.399	1.0	5.000	0	88.0	70	130				
Surr: Bromofluorobenzene (FID)		92.221		100.0		92.2	62	153				

Sample ID	E110221MB1MS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 130173						
Client ID:	ZZZZZZ	Batch ID: E11VS082	TestNo: EPA 8015B(M)		Analysis Date: 2/21/2011	SeqNo: 2116455						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		4.875	1.0	5.000	0	97.5	49	131				
Surr: Bromofluorobenzene (FID)		87.449		100.0		87.4	62	153				

Sample ID	E110221MB1MSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 130173						
Client ID:	ZZZZZZ	Batch ID: E11VS082	TestNo: EPA 8015B(M)		Analysis Date: 2/21/2011	SeqNo: 2116456						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		5.105	1.0	5.000	0	102	49	131	4.875	4.61	20	
Surr: Bromofluorobenzene (FID)		91.728		100.0		91.7	62	153		0	0	

Sample ID	E110221MB1	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 130173						
Client ID:	PBS	Batch ID: E11VS082	TestNo: EPA 8015B(M)		Analysis Date: 2/21/2011	SeqNo: 2116457						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		ND	1.0									
Surr: Bromofluorobenzene (FID)		86.505		100.0		86.5	62	153				

Sample ID	116402-002AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 130173						
Client ID:	S-19-10	Batch ID: E11VS082	TestNo: EPA 8015B(M)		Analysis Date: 2/21/2011	SeqNo: 2116468						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		4.148	1.0	5.000	0.2860	77.2	49	131				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 116402

Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID 116402-002AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 130173						
Client ID: S-19-10	Batch ID: E11VS082	TestNo: EPA 8015B(M)		Analysis Date: 2/21/2011	SeqNo: 2116468						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID 116402-002AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 130173						
Client ID: S-19-10	Batch ID: E11VS082	TestNo: EPA 8015B(M)		Analysis Date: 2/21/2011	SeqNo: 2116469						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.241	1.0	5.000	0.2860	79.1	49	131	4.148	2.22	20	
Surr: Bromofluorobenzene (FID)	105.608		100.0		106	62	153		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 116402

Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	T110218LCS1	Sample Type: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117					
Client ID: LCSS	Batch ID: T11VS043	TestNo: EPA 8260B			Analysis Date: 2/18/2011	SeqNo: 2115821					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.860	5.0	50.00	0	95.7	70	130				
Benzene	97.130	5.0	100.0	0	97.1	70	130				
Chlorobenzene	49.070	5.0	50.00	0	98.1	82	130				
MTBE	50.240	5.0	50.00	0	100	70	130				
Toluene	96.880	5.0	100.0	0	96.9	70	130				
Trichloroethene	57.590	5.0	50.00	0	115	77	130				
Surr: 1,2-Dichloroethane-d4	49.500		50.00		99.0	70	130				
Surr: 4-Bromofluorobenzene	38.460		50.00		76.9	70	130				
Surr: Dibromofluoromethane	48.370		50.00		96.7	70	130				
Surr: Toluene-d8	48.030		50.00		96.1	70	130				

Sample ID	T110218MB1MS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117					
Client ID:	ZZZZZZ	Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115822					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	45.330	5.0	50.00	0	90.7	70	130				
Benzene	93.920	5.0	100.0	0	93.9	70	130				
Chlorobenzene	48.550	5.0	50.00	0	97.1	70	130				
MTBE	50.340	5.0	50.00	0	101	70	130				
Toluene	93.900	5.0	100.0	0	93.9	70	130				
Trichloroethene	54.290	5.0	50.00	0	109	70	130				
Surr: 1,2-Dichloroethane-d4	48.610		50.00		97.2	70	130				
Surr: 4-Bromofluorobenzene	41.380		50.00		82.8	70	130				
Surr: Dibromofluoromethane	48.530		50.00		97.1	70	130				
Surr: Toluene-d8	47.160		50.00		94.3	70	130				

Sample ID	T110218MB1MSD	Sample Type:	MSD	Test Code:	8260_S	Units:	µg/Kg	Prep Date:		RunNo:	130117
Client ID:	ZZZZZZ	Batch ID:	T11VS043	TestNo:	EPA 8260B			Analysis Date:	2/18/2011	SeqNo:	2115823
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

Sample ID	T110218MB1MSD	Sample Type: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117					
Client ID: ZZZZZZ		Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115823					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	46.450	5.0	50.00	0	92.9	70	130	45.33	2.44	20	
Benzene	96.880	5.0	100.0	0	96.9	70	130	93.92	3.10	20	
Chlorobenzene	48.480	5.0	50.00	0	97.0	70	130	48.55	0.144	20	
MTBE	50.910	5.0	50.00	0	102	70	130	50.34	1.13	20	
Toluene	96.040	5.0	100.0	0	96.0	70	130	93.90	2.25	20	
Trichloroethene	56.090	5.0	50.00	0	112	70	130	54.29	3.26	20	
Surr: 1,2-Dichloroethane-d4	48.860		50.00		97.7	70	130		0	0	
Surr: 4-Bromofluorobenzene	39.030		50.00		78.1	70	130		0	0	
Surr: Dibromofluoromethane	48.210		50.00		96.4	70	130		0	0	
Surr: Toluene-d8	47.610		50.00		95.2	70	130		0	0	

Sample ID	T110218MB1	Sample Type: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117					
Client ID: PBS		Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115824					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation

Work Order: 116402

Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T110218MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117						
Client ID: PBS	Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115824						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation

Work Order: 116402

Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	T110218MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117					
Client ID:	PBS	Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115824					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.770		50.00		99.5	70	130				
Surr: 4-Bromofluorobenzene	37.520		50.00		75.0	70	130				
Surr: Dibromofluoromethane	46.070		50.00		92.1	70	130				
Surr: Toluene-d8	47.620		50.00		95.2	70	130				

Sample ID	116369-007BMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117					
Client ID:	ZZZZZZ	Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115832					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	38.300	5.0	50.00	0	76.6	70	130				
Benzene	80.860	5.0	100.0	0	80.9	70	130				
Chlorobenzene	40.150	5.0	50.00	0	80.3	70	130				
MTBE	43.940	5.0	50.00	0	87.9	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: 116369-007BMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117						
Client ID: ZZZZZZ	Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	77.430	5.0	100.0	0	77.4	70	130				
Trichloroethene	41.560	5.0	50.00	0	83.1	70	130				
Surr: 1,2-Dichloroethane-d4	44.230		50.00		88.5	70	130				
Surr: 4-Bromofluorobenzene	38.310		50.00		76.6	70	130				
Surr: Dibromofluoromethane	46.430		50.00		92.9	70	130				
Surr: Toluene-d8	44.920		50.00		89.8	70	130				

Sample ID	116369-007BMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130117					
Client ID:	ZZZZZZ	Batch ID: T11VS043	TestNo: EPA 8260B		Analysis Date: 2/18/2011	SeqNo: 2115833					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	40.270	5.0	50.00	0	80.5	70	130	38.30	5.01	20	
Benzene	84.880	5.0	100.0	0	84.9	70	130	80.86	4.85	20	
Chlorobenzene	39.830	5.0	50.00	0	79.7	70	130	40.15	0.800	20	
MTBE	47.220	5.0	50.00	0	94.4	70	130	43.94	7.20	20	
Toluene	83.000	5.0	100.0	0	83.0	70	130	77.43	6.94	20	
Trichloroethene	42.590	5.0	50.00	0	85.2	70	130	41.56	2.45	20	
Surr: 1,2-Dichloroethane-d4	48.530		50.00		97.1	70	130		0	0	
Surr: 4-Bromofluorobenzene	39.290		50.00		78.6	70	130		0	0	
Surr: Dibromofluoromethane	50.740		50.00		101	70	130		0	0	
Surr: Toluene-d8	47.740		50.00		95.5	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	T110221LCS1	Sample Type:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	RunNo: 130210		
Client ID:	LCSS	Batch ID:	T11VS044	TestNo:	EPA 8260B			Analysis Date:	SeqNo: 2116826		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	46.980	5.0	50.00	0	94.0	70	130				
Benzene	98.180	5.0	100.0	0	98.2	70	130				
Chlorobenzene	48.560	5.0	50.00	0	97.1	82	130				
MTBE	49.560	5.0	50.00	0	99.1	70	130				
Toluene	98.050	5.0	100.0	0	98.0	70	130				
Trichloroethene	56.800	5.0	50.00	0	114	77	130				
Surr: 1,2-Dichloroethane-d4	45.300		50.00		90.6	70	130				
Surr: 4-Bromofluorobenzene	40.010		50.00		80.0	70	130				
Surr: Dibromofluoromethane	46.540		50.00		93.1	70	130				
Surr: Toluene-d8	47.620		50.00		95.2	70	130				

Sample ID	T110221MB1MS	Sample Type:	MS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	RunNo:	130210	
Client ID:	ZZZZZZ	Batch ID:	T11VS044	TestNo:	EPA 8260B			Analysis Date:	SeqNo:	2116827	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	46.540	5.0	50.00	0	93.1	70	130				
Benzene	95.070	5.0	100.0	0	95.1	70	130				
Chlorobenzene	46.490	5.0	50.00	0	93.0	70	130				
MTBE	48.420	5.0	50.00	0	96.8	70	130				
Toluene	95.520	5.0	100.0	0	95.5	70	130				
Trichloroethene	54.940	5.0	50.00	0	110	70	130				
Surr: 1,2-Dichloroethane-d4	47.130		50.00		94.3	70	130				
Surr: 4-Bromofluorobenzene	37.540		50.00		75.1	70	130				
Surr: Dibromofluoromethane	50.220		50.00		100	70	130				
Surr: Toluene-d8	47.430		50.00		94.9	70	130				

Sample ID	T110221MB1MSD	Sample Type:	MSD	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	RunNo: 130210		
Client ID:	ZZZZZZ	Batch ID:	T11VS044	TestNo:	EPA 8260B			Analysis Date:	SeqNo: 2116828		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW.19

Sample ID	T110221MB1MSD	Sample Type:	MSD	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	RunNo:	130210	
Client ID:	ZZZZZZ	Batch ID:	T11VS044	TestNo:	EPA 8260B			Analysis Date:	2/21/2011	SeqNo:	2116828
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	49.300	5.0	50.00	0	98.6	70	130	46.54	5.76	20	
Benzene	95.490	5.0	100.0	0	95.5	70	130	95.07	0.441	20	
Chlorobenzene	48.580	5.0	50.00	0	97.2	70	130	46.49	4.40	20	
MTBE	51.580	5.0	50.00	0	103	70	130	48.42	6.32	20	
Toluene	94.230	5.0	100.0	0	94.2	70	130	95.52	1.36	20	
Trichloroethene	55.810	5.0	50.00	0	112	70	130	54.94	1.57	20	
Surr: 1,2-Dichloroethane-d4	48.050		50.00		96.1	70	130		0	0	
Surr: 4-Bromofluorobenzene	39.350		50.00		78.7	70	130		0	0	
Surr: Dibromofluoromethane	50.000		50.00		100	70	130		0	0	
Surr: Toluene-d8	46.470		50.00		92.9	70	130		0	0	

Sample ID	T110221MB1	SampType:	MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130210				
Client ID:	PBS	Batch ID:	T11VS044	TestNo: EPA 8260B		Analysis Date: 2/21/2011	SeqNo: 2116829				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	T110221MB1	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	RunNo:	130210		
Client ID:	PBS	Batch ID:	T11VS044	TestNo:	EPA 8260B			Analysis Date:	SeqNo:	2116829		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane		ND	5.0									
1,3,5-Trimethylbenzene		ND	5.0									
1,3-Dichlorobenzene		ND	5.0									
1,3-Dichloropropane		ND	5.0									
1,4-Dichlorobenzene		ND	5.0									
2,2-Dichloropropane		ND	5.0									
2-Chlorotoluene		ND	5.0									
4-Chlorotoluene		ND	5.0									
4-Isopropyltoluene		ND	5.0									
Benzene		ND	5.0									
Bromobenzene		ND	5.0									
Bromodichloromethane		ND	5.0									
Bromoform		ND	5.0									
Bromomethane		ND	5.0									
Carbon tetrachloride		ND	5.0									
Chlorobenzene		ND	5.0									
Chloroethane		ND	5.0									
Chloroform		ND	5.0									
Chloromethane		ND	5.0									
cis-1,2-Dichloroethene		ND	5.0									
cis-1,3-Dichloropropene		ND	5.0									
Di-isopropyl ether		ND	5.0									
Dibromochloromethane		ND	5.0									
Dibromomethane		ND	5.0									
Dichlorodifluoromethane		ND	5.0									
Ethyl Tert-butyl ether		ND	5.0									
Ethylbenzene		ND	5.0									
Hexachlorobutadiene		ND	5.0									
Isopropylbenzene		ND	5.0									
m,p-Xylene		ND	10									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation

Work Order: 116402

Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	T110221MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130210					
Client ID:	PBS	Batch ID: T11VS044	TestNo: EPA 8260B		Analysis Date: 2/21/2011	SeqNo: 2116829					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.960		50.00		99.9	70	130				
Surr: 4-Bromofluorobenzene	36.800		50.00		73.6	70	130				
Surr: Dibromofluoromethane	49.080		50.00		98.2	70	130				
Surr: Toluene-d8	45.100		50.00		90.2	70	130				

Sample ID	116426-001AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130210					
Client ID:	ZZZZZZ	Batch ID: T11VS044	TestNo: EPA 8260B		Analysis Date: 2/21/2011	SeqNo: 2116879					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.360	5.0	50.00	0	86.7	70	130				
Benzene	84.140	5.0	100.0	0	84.1	70	130				
Chlorobenzene	41.110	5.0	50.00	0	82.2	70	130				
MTBE	49.710	5.0	50.00	0	99.4	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	116426-001AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130210					
Client ID:	ZZZZZZ	Batch ID: T11VS044	TestNo: EPA 8260B		Analysis Date: 2/21/2011	SeqNo: 2116879					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	82.250	5.0	100.0	0	82.2	70	130				
Trichloroethene	46.590	5.0	50.00	0	93.2	70	130				
Surr: 1,2-Dichloroethane-d4	48.970		50.00		97.9	70	130				
Surr: 4-Bromofluorobenzene	38.130		50.00		76.3	70	130				
Surr: Dibromofluoromethane	51.270		50.00		103	70	130				
Surr: Toluene-d8	48.000		50.00		96.0	70	130				

Sample ID	116426-001AMS	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 130210					
Client ID:	ZZZZZZ	Batch ID: T11VS044	TestNo: EPA 8260B		Analysis Date: 2/21/2011	SeqNo: 2116880					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	46.260	5.0	50.00	0	92.5	70	130	43.36	6.47	20	
Benzene	89.110	5.0	100.0	0	89.1	70	130	84.14	5.74	20	
Chlorobenzene	42.380	5.0	50.00	0	84.8	70	130	41.11	3.04	20	
MTBE	51.570	5.0	50.00	0	103	70	130	49.71	3.67	20	
Toluene	87.960	5.0	100.0	0	88.0	70	130	82.25	6.71	20	
Trichloroethene	48.560	5.0	50.00	0	97.1	70	130	46.59	4.14	20	
Surr: 1,2-Dichloroethane-d4	50.210		50.00		100	70	130		0	0	
Surr: 4-Bromofluorobenzene	38.210		50.00		76.4	70	130		0	0	
Surr: Dibromofluoromethane	52.130		50.00		104	70	130		0	0	
Surr: Toluene-d8	45.500		50.00		91.0	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 116402

Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	MB-71059	SampType:	MBLK	TestCode:	8270_S_FUL	Units:	µg/Kg	Prep Date:	2/25/2011	RunNo:	130468		
Client ID:	PBS	Batch ID:	71059	TestNo:	EPA 8270C	EPA	3550B	Analysis Date:	3/1/2011	SeqNo:	2121886		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		ND		330									
1,2-Dichlorobenzene		ND		330									
1,3-Dichlorobenzene		ND		330									
1,4-Dichlorobenzene		ND		330									
2,4,5-Trichlorophenol		ND		330									
2,4,6-Trichlorophenol		ND		330									
2,4-Dichlorophenol		ND		1600									
2,4-Dimethylphenol		ND		330									
2,4-Dinitrophenol		ND		1600									
2,4-Dinitrotoluene		ND		330									
2,6-Dinitrotoluene		ND		330									
2-Chloronaphthalene		ND		330									
2-Chlorophenol		ND		330									
2-Methylnaphthalene		ND		330									
2-Methylphenol		ND		330									
2-Nitroaniline		ND		1600									
2-Nitrophenol		ND		330									
3,3'-Dichlorobenzidine		ND		660									
3-Nitroaniline		ND		1600									
4,6-Dinitro-2-methylphenol		ND		1600									
4-Bromophenyl-phenylether		ND		330									
4-Chloro-3-methylphenol		ND		660									
4-Chloroaniline		ND		660									
4-Chlorophenyl-phenylether		ND		330									
4-Methylphenol		ND		330									
4-Nitroaniline		ND		1600									
4-Nitrophenol		ND		1600									
Acenaphthene		ND		330									
Acenaphthylene		ND		330									
Anthracene		ND		330									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	MB-71059	SampType: MBLK	TestCode: 8270_S_FUL	Units: µg/Kg	Prep Date: 2/25/2011	RunNo: 130468					
Client ID:	PBS	Batch ID: 71059	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/1/2011	SeqNo: 2121886					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzidine (M)	ND	1600									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzoic acid	ND	1600									
Benzyl alcohol	ND	660									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl)ether	ND	330									
Bis(2-chloroisopropyl)ether	ND	330									
Bis(2-ethylhexyl)phthalate	ND	330									
Butylbenzylphthalate	ND	330									
Chrysene	ND	330									
Di-n-butylphthalate	ND	330									
Di-n-octylphthalate	ND	330									
Dibenz(a,h)anthracene	ND	330									
Dibenzofuran	ND	330									
Diethylphthalate	ND	330									
Dimethylphthalate	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Hexachlorobenzene	ND	330									
Hexachlorobutadiene	ND	660									
Hexachlorocyclopentadiene	ND	660									
Hexachloroethane	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Isophorone	ND	330									
N-Nitrosodi-n-propylamine	ND	330									
N-Nitrosodibenzylamine	ND	330									

Qualifiers:
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 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	MB-71059	SampType:	MBLK	TestCode:	8270_S_FULL	Units:	µg/Kg	Prep Date:	2/25/2011	RunNo:	130468
Client ID:	PBS	Batch ID:	71059	TestNo:	EPA 8270C	EPA	3550B	Analysis Date:	3/1/2011	SeqNo:	2121886
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									
Surr: 1,2-Dichlorobenzene-d4	1950.667		3330		58.6	45	105				
Surr: 2,4,6-Tribromophenol	1905.000		3330		57.2	41	129				
Surr: 2-Chlorophenol-d4	1963.000		3330		58.9	55	108				
Surr: 2-Fluorobiphenyl	2139.333		3330		64.2	56	114				
Surr: 2-Fluorophenol	1926.667		3330		57.9	50	108				
Surr: 4-Terphenyl-d14	2572.000		3330		77.2	59	141				
Surr: Nitrobenzene-d5	1895.333		3330		56.9	45	114				
Surr: Phenol-d5	1927.333		3330		57.9	46	118				

Sample ID	116426-008AMS	SampType:	MS	TestCode:	8270_S_FULL	Units:	µg/Kg	Prep Date:	2/25/2011	RunNo:	130468
Client ID:	ZZZZZZ	Batch ID:	71059	TestNo:	EPA 8270C	EPA	3550B	Analysis Date:	3/1/2011	SeqNo:	2121888
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2139.667	330	3330	0	64.3	62	109				S
1,4-Dichlorobenzene	1826.000	330	3330	0	54.8	57	99				
2,4-Dinitrotoluene	2963.000	330	3330	0	89.0	76	126				
2-Chlorophenol	1969.000	330	3330	0	59.1	52	120				
4-Chloro-3-methylphenol	2577.333	660	3330	0	77.4	63	137				
4-Nitrophenol	2635.000	1600	3330	0	79.1	52	144				
Acenaphthene	2917.333	330	3330	0	87.6	61	121				
N-Nitrosodi-n-propylamine	2142.000	330	3330	0	64.3	67	116				S
Pentachlorophenol	2563.000	1600	3330	0	77.0	47	143				
Phenol	1982.333	330	3330	0	59.5	54	126				
Pyrene	3133.667	330	3330	0	94.1	68	121				

Qualifiers:

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 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
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 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	116426-008AMS	SampType: MS	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 2/25/2011	RunNo: 130468					
Client ID:	ZZZZZZ	Batch ID: 71059	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/1/2011	SeqNo: 2121888					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4
Surr: 2,4,6-Tribromophenol
Surr: 2-Chlorophenol-d4
Surr: 2-Fluorobiphenyl
Surr: 2-Fluorophenol
Surr: 4-Terphenyl-d14
Surr: Nitrobenzene-d5
Surr: Phenol-d5

Sample ID	116426-008AMS	SampType: MSD	TestCode: 8270_S_FULL	Units: µg/Kg	Prep Date: 2/25/2011	RunNo: 130468					
Client ID:	ZZZZZZ	Batch ID: 71059	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/1/2011	SeqNo: 2121889					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
2,4-Dinitrotoluene
2-Chlorophenol
4-Chloro-3-methylphenol
4-Nitrophenol
Acenaphthene
N-Nitrosodi-n-propylamine
Pentachlorophenol
Phenol
Pyrene
Surr: 1,2-Dichlorobenzene-d4
Surr: 2,4,6-Tribromophenol
Surr: 2-Chlorophenol-d4
Surr: 2-Fluorobiphenyl
Surr: 2-Fluorophenol
Surr: 4-Terphenyl-d14

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 116402
Project: MW-19

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	116426-008AMSD	SampType: MSD	TestCode: 8270_S_FUL	Units: µg/Kg	Prep Date: 2/25/2011	RunNo: 130468					
Client ID: ZZZZZZ		Batch ID: 71059	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/1/2011	SeqNo: 2121889					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Nitrobenzene-d5	2027.667	3330	3330		60.9	45	114		0	0	0
Surr: Phenol-d5	2025.000	3330	3330		60.8	46	118		0	0	0

Sample ID	LCS-71059	SampType:	LCS	TestCode:	8270_S_FULL	Units:	µg/Kg	Prep Date:	2/25/2011	RunNo:	130468
Client ID:	LCSS	Batch ID:	71059	TestNo:	EPA 8270C		EPA 3550B	Analysis Date:	3/1/2011	SeqNo:	2122453
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	2871.667	330	3330	0	86.2	67	107				
1,4-Dichlorobenzene	2705.333	330	3330	0	81.2	64	99				
2,4-Dinitrotoluene	3062.333	330	3330	0	92.0	81	122				
2-Chlorophenol	2606.000	330	3330	0	78.3	62	112				
4-Chloro-3-methylphenol	2753.333	660	3330	0	82.7	64	138				
4-Nitrophenol	2572.000	1600	3330	0	77.2	60	142				
Acenaphthene	3170.667	330	3330	0	95.2	70	116				
N-Nitrosodi-n-propylamine	2763.667	330	3330	0	83.0	73	115				
Pentachlorophenol	1975.000	1600	3330	0	59.3	59	135				
Phenol	2624.667	330	3330	0	78.8	61	120				
Pyrene	3208.000	330	3330	0	96.3	75	117				
Surr: 1,2-Dichlorobenzene-d4	2663.000		3330		80.0	45	105				
Surr: 2,4,6-Tribromophenol	2841.000		3330		85.3	41	129				
Surr: 2-Chlorophenol-d4	2650.667		3330		79.6	55	108				
Surr: 2-Fluorobiphenyl	2823.667		3330		84.8	56	114				
Surr: 2-Fluorophenol	2571.667		3330		77.2	50	108				
Surr: 4-Terphenyl-d14	2918.333		3330		87.6	59	141				
Surr: Nitrobenzene-d5	2751.000		3330		82.6	45	114				
Surr: Phenol-d5	2645.667		3330		79.4	46	118				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 H Holding times for preparation or analysis exceeded
 Calculations are based on raw values

CHAIN OF CUSTODY RECORD

Pg. _____ of _____

FOR LABORATORY USE ONLY:			
ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-0445 • Fax: (562) 989-4040		Method of Transport: ☐ Client ☐ ATL ☐ OnTrac ☐ FedEx ☐ GSO ☐ Other:	
P.O. #: _____ Logged By: _____ Date: 2/16/11		Sample Condition Upon Receipt: 1. FILLED ☐ Y ☐ N ☒ SEALED 2. HEADSPACE (VOL/VOL) ☐ Y ☐ N ☒ 5. # OF SPLS. W/CH. COC ☐ Y ☐ N 3. CONTAINER INTACT ☐ Y ☐ N ☒ 6. PRESERVED ☐ Y ☐ N	
NOTE: Please include your Quote No. to ensure proper pricing of your project.			
Client: <u>Strata</u> Attn: <u>Testa</u>		Address: _____ City: _____ State: _____ Zip: _____	
Project #: _____ Project Name: <u>mw-19</u>		Sampler: <u>B. Becker</u> Received by: <u>Signature and Printed Name</u> Date: <u>2/16/11</u> Time: <u>4:00</u>	
Relinquished by: <u>Signature and Printed Name</u> Date: _____ Time: _____		Received by: <u>Signature and Printed Name</u> Date: _____ Time: _____	
Relinquished by: <u>Signature and Printed Name</u> Date: _____ Time: _____		Received by: <u>Signature and Printed Name</u> Date: _____ Time: _____	
I hereby authorize ATL to perform the work indicated below. Project Mgr./Submitter: <u>B. Becker</u>		Bill To: Attn: <u>Testa</u> Co: _____ Address: _____ City: _____ State: _____ Zip: _____	
Sample/Records: Archival & Dispose! Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage fees (applies when storage is requested): • Sample: \$2.00 / sample / mo (after 45 days) • Records: \$1.00 / ATL workorder / mo (after 1 year)		Specify Appropriate Matrix: Aqueous _____ Stormwater _____ Groundwater _____ Drinking Water _____ Soil _____ Sediment _____ Other: _____	
LAB USE ONLY: Batch #: _____ Lab No.: _____		Q.A./Q.C. RTNE _____ CT _____ Legal _____ SWRCS _____ Logcode _____ OTHER _____	
Sample Description: Sample I.D. / Location: <u>S-19-5</u> <u>1-10</u> <u>-15</u> <u>-20</u>		Date: <u>2/16/11</u>	
TAT starts 8 a.m. following day if samples received after 5 p.m.		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4% Z=Zn(Ac) ₂ O=NaOH T=Na ₂ S ₂ O ₅	

EXHIBIT 4 – PART II

LABORATORY REPORTS FOR SOIL STOCKPILES

March 22, 2010



Stephen Testa
Testa Environmental Corporation
19814 Jesus Maria Road
Mokelumne Hill, CA 95245

TEL: (209) 754-1422
FAX: (209) 754-1422

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 110711

RE:

Attention: Stephen Testa

Enclosed are the results for sample(s) received on March 12, 2010 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.





Advanced Technology Laboratories

INVOICE

INVOICE NUMBER: 0112325-IN

Invoice Date: 3/25/2010

Order Number: 0110711

Order Date: 3/12/2010

Customer Number: HARCH01

SOLD TO:

Signal Hill Holding Co.
4353 Silva Court
Palo Alto, CA 94306

SHIP TO:

Testa Environmental Corp.
19814 Jesus Maria Road
Mokelumne Hill, CA 95245

Customer P.O.

N/A

F.O.B.

Terms

Net 30 Days

Item Number	Item Description	Unit	Shipped	Price	Amount
6010CCR_ME	Title 22 Metals	EA	1.00	105.00	105.00
7471_ME	Mercury by Cold Vapor	EA	1.00	0.00	0.00
SILICAGEL_SM	Silica Gel Cleanup	EA	6.00	100.00	600.00
8015MD_SM	TPH(Diesel) w/Silica Gel Clean	EA	6.00	42.00	252.00
8015MG_VL	TPH(Gasoline)	EA	6.00	35.00	210.00
8260-OXYGEN_VL	8260 & Oxygenates	EA	6.00	105.00	630.00
8270-625_SM	Semi-Volatile Organics	EA	6.00	192.50	1,155.00

Net Invoice:	2,952.00
Less Discount:	0.00
Freight:	0.00
Sales Tax:	0.00
Invoice Total:	2,952.00

For your convenience, we now accept Visa and Master Card. To use this new service, please complete, sign, and return this invoice to ATL.

MC ☐ VISA ☐ Card No.: _____ Exp. Date: _____

Invoice No.: _____ Amount: _____

Printed Name: _____ Signature: _____

TERMS: Net 30. Discounts & special pricing are applicable only if paid within 60 days, otherwise pay list price.

REMIT TO: P.O. Box 92797 Long Beach, CA 90809-2797
Tel: 562 989-4045 Fax: 562 989-6348

CLIENT: Testa Environmental Corporation**Project:****Lab Order:** 110711**CASE NARRATIVE**

Analytical Comments for Method 8270

Dilution was necessary for samples 110711-001A, 110711-002A, 110711-003A, 110711-004A, 110711-005A and 110711-006A due to sample extract was black.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Lab Order: 110711
Project:
Lab ID: 110711-001A

Client Sample ID: SS-EP-1
Collection Date: 3/10/2010
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
LUFT						
EPA 8015B(M)						
RunID: GC16_100316E	QC Batch: 62708				PrepDate: 3/16/2010	Analyst: CBR
DRO	65	10		mg/Kg	1	3/17/2010 06:05 AM
Surr: p-Terphenyl	135	63-152		%REC	1	3/17/2010 06:05 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC2_100315A	QC Batch: E10VS076				PrepDate:	Analyst: DDL
GRO	ND	1.0		mg/Kg	1	3/15/2010 05:17 PM
Surr: Bromofluorobenzene (FID)	86.9	56-137		%REC	1	3/15/2010 05:17 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS5_100316A	QC Batch: T10VS038				PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	3/16/2010 08:21 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	3/16/2010 08:21 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Lab Order: 110711
Project:
Lab ID: 110711-001A

Client Sample ID: SS-EP-1
Collection Date: 3/10/2010
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100316A	QC Batch:	T10VS038	PrepDate:	Analyst:	BD
Benzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Bromobenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Bromoform	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Bromomethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Chloroethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Chloroform	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Chloromethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Di-isopropyl ether	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Dibromomethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
m,p-Xylene	ND	10	µg/Kg	1	3/16/2010 08:21 PM	
Methylene chloride	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
MTBE	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Naphthalene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
o-Xylene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Styrene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Tert-Butanol	ND	100	µg/Kg	1	3/16/2010 08:21 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
Toluene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Lab Order: 110711
Project:
Lab ID: 110711-001A

Client Sample ID: SS-EP-1
Collection Date: 3/10/2010
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100316A	QC Batch:	T10VS038	PrepDate:	Analyst: BD
Trichloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM
Vinyl chloride	ND	5.0	µg/Kg	1	3/16/2010 08:21 PM
Surr: 1,2-Dichloroethane-d4	80.4	70-130	%REC	1	3/16/2010 08:21 PM
Surr: 4-Bromofluorobenzene	82.6	70-130	%REC	1	3/16/2010 08:21 PM
Surr: Dibromofluoromethane	78.9	70-130	%REC	1	3/16/2010 08:21 PM
Surr: Toluene-d8	88.8	70-130	%REC	1	3/16/2010 08:21 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270C

RunID:	MS6_100321B	QC Batch:	62730	PrepDate:	3/17/2010	Analyst: DMP
Acenaphthene	ND	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Acenaphthylene	ND	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Anthracene	ND	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Benzo(a)anthracene	59	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Benzo(a)pyrene	80	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Benzo(b)fluoranthene	95	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Benzo(g,h,i)perylene	89	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Benzo(k)fluoranthene	25	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Chrysene	87	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Dibenz(a,h)anthracene	14	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Fluoranthene	94	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Fluorene	ND	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Indeno(1,2,3-cd)pyrene	41	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Naphthalene	ND	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Phenanthrene	36	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Pyrene	120	12	µg/Kg	2.5	3/21/2010 07:37 PM	
Surr: 1,2-Dichlorobenzene-d4	82.8	36-108	%REC	2.5	3/21/2010 07:37 PM	
Surr: 2-Fluorobiphenyl	99.5	43-109	%REC	2.5	3/21/2010 07:37 PM	
Surr: 4-Terphenyl-d14	128	34-158	%REC	2.5	3/21/2010 07:37 PM	
Surr: Nitrobenzene-d5	79.7	39-108	%REC	2.5	3/21/2010 07:37 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Lab Order: 110711
Project:
Lab ID: 110711-002A

Client Sample ID: SS-EP-2
Collection Date: 3/10/2010
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
LUFT						
EPA 8015B(M)						
RunID: GC16_100316E	QC Batch: 62708				PrepDate: 3/16/2010	Analyst: CBR
DRO	150	10		mg/Kg	1	3/17/2010 06:14 AM
Surr: p-Terphenyl	79.2	63-152		%REC	1	3/17/2010 06:14 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC2_100315A	QC Batch: E10VS076				PrepDate:	Analyst: DDL
GRO	ND	1.0		mg/Kg	1	3/15/2010 05:31 PM
Surr: Bromofluorobenzene (FID)	87.9	56-137		%REC	1	3/15/2010 05:31 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS5_100316A	QC Batch: T10VS038				PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	3/16/2010 08:43 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	3/16/2010 08:43 PM
Qualifiers:	B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded S Spike/Surrogate outside of limits due to matrix interference DO Surrogate Diluted Out E Value above quantitation range ND Not Detected at the Reporting Limit Results are wet unless otherwise specified					



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
 Lab Order: 110711
 Project:
 Lab ID: 110711-002A

Client Sample ID: SS-EP-2
 Collection Date: 3/10/2010
 Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100316A	QC Batch: T10VS038	PrepDate:	Analyst: BD		
Benzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Bromobenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Bromoform	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Bromomethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Chlorobenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Chloroethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Chloroform	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Chloromethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Dibromomethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Ethylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
m,p-Xylene	ND	10	µg/Kg	1	3/16/2010 08:43 PM
Methylene chloride	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
MTBE	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Naphthalene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
o-Xylene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Styrene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Tert-Butanol	ND	100	µg/Kg	1	3/16/2010 08:43 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Toluene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories**ANALYTICAL RESULTS**

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-2

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-002A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS**EPA 8260B**

RunID: MS5_100316A	QC Batch: T10VS038	PrepDate:	Analyst: BD		
Trichloroethene	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Vinyl chloride	ND	5.0	µg/Kg	1	3/16/2010 08:43 PM
Surr: 1,2-Dichloroethane-d4	83.4	70-130	%REC	1	3/16/2010 08:43 PM
Surr: 4-Bromofluorobenzene	83.9	70-130	%REC	1	3/16/2010 08:43 PM
Surr: Dibromofluoromethane	80.0	70-130	%REC	1	3/16/2010 08:43 PM
Surr: Toluene-d8	86.8	70-130	%REC	1	3/16/2010 08:43 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM**EPA 3550B****EPA 8270C**

RunID: MS6_100321B	QC Batch: 62730	PrepDate: 3/17/2010	Analyst: DMP		
Acenaphthene	ND	12	µg/Kg	2.5	3/21/2010 08:05 PM
Acenaphthylene	ND	12	µg/Kg	2.5	3/21/2010 08:05 PM
Anthracene	ND	12	µg/Kg	2.5	3/21/2010 08:05 PM
Benzo(a)anthracene	68	12	µg/Kg	2.5	3/21/2010 08:05 PM
Benzo(a)pyrene	83	12	µg/Kg	2.5	3/21/2010 08:05 PM
Benzo(b)fluoranthene	100	12	µg/Kg	2.5	3/21/2010 08:05 PM
Benzo(g,h,i)perylene	95	12	µg/Kg	2.5	3/21/2010 08:05 PM
Benzo(k)fluoranthene	27	12	µg/Kg	2.5	3/21/2010 08:05 PM
Chrysene	81	12	µg/Kg	2.5	3/21/2010 08:05 PM
Dibenz(a,h)anthracene	17	12	µg/Kg	2.5	3/21/2010 08:05 PM
Fluoranthene	110	12	µg/Kg	2.5	3/21/2010 08:05 PM
Fluorene	ND	12	µg/Kg	2.5	3/21/2010 08:05 PM
Indeno(1,2,3-cd)pyrene	57	12	µg/Kg	2.5	3/21/2010 08:05 PM
Naphthalene	ND	12	µg/Kg	2.5	3/21/2010 08:05 PM
Phenanthrene	40	12	µg/Kg	2.5	3/21/2010 08:05 PM
Pyrene	140	12	µg/Kg	2.5	3/21/2010 08:05 PM
Surr: 1,2-Dichlorobenzene-d4	73.1	36-108	%REC	2.5	3/21/2010 08:05 PM
Surr: 2-Fluorobiphenyl	86.2	43-109	%REC	2.5	3/21/2010 08:05 PM
Surr: 4-Terphenyl-d14	110	34-158	%REC	2.5	3/21/2010 08:05 PM
Surr: Nitrobenzene-d5	67.0	39-108	%REC	2.5	3/21/2010 08:05 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-3

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-003A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
LUFT						
EPA 8015B(M)						
RunID: GC16_100316E	QC Batch: 62708			PrepDate: 3/16/2010		Analyst: CBR
DRO	46	10		mg/Kg	1	3/17/2010 05:37 AM
Surr: p-Terphenyl	124	63-152		%REC	1	3/17/2010 05:37 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC2_100315A	QC Batch: E10VS076			PrepDate:		Analyst: DDL
GRO	ND	1.0		mg/Kg	1	3/15/2010 05:46 PM
Surr: Bromofluorobenzene (FID)	92.8	56-137		%REC	1	3/15/2010 05:46 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS5_100316A	QC Batch: T10VS038			PrepDate:		Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	3/16/2010 09:06 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	3/16/2010 09:06 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-3

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-003A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100316A	QC Batch:	T10VS038	PrepDate:	Analyst: BD
Benzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Bromobenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Bromoform	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Bromomethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Carbon tetrachloride	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Chlorobenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Chloroethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Chloroform	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Chloromethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Dibromomethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Ethylbenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
m,p-Xylene	ND	10	µg/Kg	1	3/16/2010 09:06 PM
Methylene chloride	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
MTBE	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Naphthalene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
o-Xylene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Styrene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Tert-Butanol	ND	100	µg/Kg	1	3/16/2010 09:06 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
Toluene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-3

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-003A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100316A	QC Batch:	T10VS038	PrepDate:	Analyst:	BD
Trichloroethene	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	3/16/2010 09:06 PM	
Surr: 1,2-Dichloroethane-d4	79.7	70-130	%REC	1	3/16/2010 09:06 PM	
Surr: 4-Bromofluorobenzene	84.9	70-130	%REC	1	3/16/2010 09:06 PM	
Surr: Dibromofluoromethane	83.9	70-130	%REC	1	3/16/2010 09:06 PM	
Surr: Toluene-d8	88.3	70-130	%REC	1	3/16/2010 09:06 PM	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270C

RunID:	MS6_100321B	QC Batch:	62730	PrepDate:	3/17/2010	Analyst:	DMP
Acenaphthene	ND	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Acenaphthylene	ND	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Anthracene	ND	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Benzo(a)anthracene	34	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Benzo(a)pyrene	42	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Benzo(b)fluoranthene	49	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Benzo(g,h,i)perylene	52	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Benzo(k)fluoranthene	15	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Chrysene	42	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Dibenz(a,h)anthracene	ND	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Fluoranthene	48	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Fluorene	ND	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Indeno(1,2,3-cd)pyrene	27	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Naphthalene	ND	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Phenanthrene	16	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Pyrene	66	12	µg/Kg	2.5	3/21/2010 08:32 PM		
Surr: 1,2-Dichlorobenzene-d4	81.9	36-108	%REC	2.5	3/21/2010 08:32 PM		
Surr: 2-Fluorobiphenyl	79.9	43-109	%REC	2.5	3/21/2010 08:32 PM		
Surr: 4-Terphenyl-d14	123	34-158	%REC	2.5	3/21/2010 08:32 PM		
Surr: Nitrobenzene-d5	73.2	39-108	%REC	2.5	3/21/2010 08:32 PM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	II	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Lab Order: 110711
Project:
Lab ID: 110711-004A

Client Sample ID: SS-EP-4
Collection Date: 3/10/2010
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
LUFT						
EPA 8015B(M)						
RunID: GC16_100316E	QC Batch: 62708				PrepDate: 3/16/2010	Analyst: CBR
DRO	53	10		mg/Kg	1	3/17/2010 05:28 AM
Surr: p-Terphenyl	147	63-152		%REC	1	3/17/2010 05:28 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC2_100315A	QC Batch: E10VS076				PrepDate:	Analyst: DDL
GRO	ND	1.0		mg/Kg	1	3/15/2010 06:00 PM
Surr: Bromofluorobenzene (FID)	83.9	56-137		%REC	1	3/15/2010 06:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS5_100316B	QC Batch: T10VS039				PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	3/17/2010 02:46 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Qualifiers:						
B	Analyte detected in the associated Method Blank	E	Value above quantitation range			
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit			
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified			
DO	Surrogate Diluted Out					



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-4

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-004A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100316B

QC Batch: T10VS039

PrepDate:

Analyst: BD

Benzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Bromobenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Bromoform	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Bromomethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Chlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Chloroethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Chloroform	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Chloromethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Di-isopropyl ether	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Dibromochloromethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Dibromomethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Ethyl Tert-butyl ether	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Ethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
m,p-Xylene	ND	10		µg/Kg	1	3/17/2010 02:46 AM
Methylene chloride	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
MTBE	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Naphthalene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
o-Xylene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Styrene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Tert-amyl methyl ether	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Tert-Butanol	ND	100		µg/Kg	1	3/17/2010 02:46 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
Toluene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	3/17/2010 02:46 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-4

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-004A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100316B	QC Batch:	T10VS039	PrepDate:	Analyst: BD
Trichloroethene	ND	5.0	µg/Kg	1	3/17/2010 02:46 AM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	3/17/2010 02:46 AM
Vinyl chloride	ND	5.0	µg/Kg	1	3/17/2010 02:46 AM
Surr: 1,2-Dichloroethane-d4	77.7	70-130	%REC	1	3/17/2010 02:46 AM
Surr: 4-Bromofluorobenzene	81.6	70-130	%REC	1	3/17/2010 02:46 AM
Surr: Dibromofluoromethane	77.8	70-130	%REC	1	3/17/2010 02:46 AM
Surr: Toluene-d8	86.4	70-130	%REC	1	3/17/2010 02:46 AM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270C

RunID:	MS6_100321B	QC Batch:	62730	PrepDate:	3/17/2010	Analyst: DMP
Acenaphthene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Acenaphthylene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Anthracene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Benzo(a)anthracene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Benzo(a)pyrene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Benzo(b)fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Benzo(g,h,i)perylene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Benzo(k)fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Chrysene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Dibenz(a,h)anthracene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Fluorene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Indeno(1,2,3-cd)pyrene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Naphthalene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Phenanthrene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Pyrene	ND	12	µg/Kg	2.5	3/21/2010 08:59 PM	
Surr: 1,2-Dichlorobenzene-d4	70.9	36-108	%REC	2.5	3/21/2010 08:59 PM	
Surr: 2-Fluorobiphenyl	69.1	43-109	%REC	2.5	3/21/2010 08:59 PM	
Surr: 4-Terphenyl-d14	108	34-158	%REC	2.5	3/21/2010 08:59 PM	
Surr: Nitrobenzene-d5	65.0	39-108	%REC	2.5	3/21/2010 08:59 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-5

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-005A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
LUFT						
EPA 8015B(M)						
RunID: GC16_100316E	QC Batch: 62708				PrepDate: 3/16/2010	Analyst: CBR
DRO	44	10		mg/Kg	1	3/17/2010 05:56 AM
Surr: p-Terphenyl	128	63-152		%REC	1	3/17/2010 05:56 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC2_100315A	QC Batch: E10VS076				PrepDate:	Analyst: DDL
GRO	ND	1.0		mg/Kg	1	3/15/2010 06:15 PM
Surr: Bromofluorobenzene (FID)	87.2	56-137		%REC	1	3/15/2010 06:15 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS5_100316B	QC Batch: T10VS039				PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	3/17/2010 03:32 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified	
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-5

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-005A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100316B

QC Batch: T10VS039

PrepDate:

Analyst: BD

Benzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Bromobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Bromodichloromethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Bromoform	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Bromomethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Carbon tetrachloride	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Chlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Chloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Chloroform	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Chloromethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Di-isopropyl ether	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Dibromochloromethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Dibromomethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Ethyl Tert-butyl ether	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Ethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Hexachlorobutadiene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Isopropylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
m,p-Xylene	ND	10		µg/Kg	1	3/17/2010 03:32 AM
Methylene chloride	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
MTBE	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
n-Butylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
n-Propylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Naphthalene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
o-Xylene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
sec-Butylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Styrene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Tert-amyl methyl ether	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Tert-Butanol	ND	100		µg/Kg	1	3/17/2010 03:32 AM
tert-Butylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Tetrachloroethene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
Toluene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	3/17/2010 03:32 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-5

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-005A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100316B	QC Batch:	T10VS039	PrepDate:	Analyst:	BD
Trichloroethene	ND	5.0	µg/Kg	1	3/17/2010 03:32 AM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	3/17/2010 03:32 AM	
Vinyl chloride	ND	5.0	µg/Kg	1	3/17/2010 03:32 AM	
Surr: 1,2-Dichloroethane-d4	79.6	70-130	%REC	1	3/17/2010 03:32 AM	
Surr: 4-Bromofluorobenzene	79.0	70-130	%REC	1	3/17/2010 03:32 AM	
Surr: Dibromofluoromethane	82.4	70-130	%REC	1	3/17/2010 03:32 AM	
Surr: Toluene-d8	85.1	70-130	%REC	1	3/17/2010 03:32 AM	

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270C

RunID:	MS6_100321B	QC Batch:	62730	PrepDate:	3/17/2010	Analyst:	DMP
Acenaphthene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Acenaphthylene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Anthracene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Benzo(a)anthracene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Benzo(a)pyrene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Benzo(b)fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Benzo(g,h,i)perylene	13	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Benzo(k)fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Chrysene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Dibenz(a,h)anthracene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Fluorene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Indeno(1,2,3-cd)pyrene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Naphthalene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Phenanthrene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Pyrene	ND	12	µg/Kg	2.5	3/21/2010 09:26 PM		
Surr: 1,2-Dichlorobenzene-d4	62.9	36-108	%REC	2.5	3/21/2010 09:26 PM		
Surr: 2-Fluorobiphenyl	83.0	43-109	%REC	2.5	3/21/2010 09:26 PM		
Surr: 4-Terphenyl-d14	111	34-158	%REC	2.5	3/21/2010 09:26 PM		
Surr: Nitrobenzene-d5	67.0	39-108	%REC	2.5	3/21/2010 09:26 PM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Lab Order: 110711
Project:
Lab ID: 110711-006A

Client Sample ID: SS-EP-6
Collection Date: 3/10/2010
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SILICA GEL CLEANUP DRO BY GC-FID						
LUFT						
EPA 8015B(M)						
RunID: GC16_100316E	QC Batch: 62708				PrepDate: 3/16/2010	Analyst: CBR
DRO	42	10		mg/Kg	1	3/17/2010 05:47 AM
Surr: p-Terphenyl	120	63-152		%REC	1	3/17/2010 05:47 AM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B(M)						
RunID: GC2_100316A	QC Batch: E10VS077				PrepDate:	Analyst: DDL
GRO	ND	1.0		mg/Kg	1	3/16/2010 01:56 PM
Surr: Bromofluorobenzene (FID)	89.6	56-137		%REC	1	3/16/2010 01:56 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
EPA 8260B						
RunID: MS5_100316B	QC Batch: T10VS039				PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	3/17/2010 03:54 AM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
2-Chlorotoluene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
4-Chlorotoluene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	3/17/2010 03:54 AM
Qualifiers:	B Analyte detected in the associated Method Blank			E Value above quantitation range		
	H Holding times for preparation or analysis exceeded			ND Not Detected at the Reporting Limit		
	S Spike/Surrogate outside of limits due to matrix interference			Results are wet unless otherwise specified		
	DO Surrogate Diluted Out					



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Lab Order: 110711
Project:
Lab ID: 110711-006A

Client Sample ID: SS-EP-6
Collection Date: 3/10/2010
Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_100316B	QC Batch: T10VS039	PrepDate:	Analyst: BD		
Benzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Bromobenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Bromodichloromethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Bromoform	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Bromomethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Carbon tetrachloride	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Chlorobenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Chloroethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Chloroform	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Chloromethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Di-isopropyl ether	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Dibromochloromethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Dibromomethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Ethylbenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Isopropylbenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
m,p-Xylene	ND	10	µg/Kg	1	3/17/2010 03:54 AM
Methylene chloride	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
MTBE	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
n-Butylbenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
n-Propylbenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Naphthalene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
o-Xylene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
sec-Butylbenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Styrene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Tert-Butanol	ND	100	µg/Kg	1	3/17/2010 03:54 AM
tert-Butylbenzene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Tetrachloroethene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Toluene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-6

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-006A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_100316B	QC Batch:	T10VS039	PrepDate:	Analyst: BD
Trichloroethene	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Vinyl chloride	ND	5.0	µg/Kg	1	3/17/2010 03:54 AM
Surr: 1,2-Dichloroethane-d4	80.7	70-130	%REC	1	3/17/2010 03:54 AM
Surr: 4-Bromofluorobenzene	83.6	70-130	%REC	1	3/17/2010 03:54 AM
Surr: Dibromofluoromethane	78.0	70-130	%REC	1	3/17/2010 03:54 AM
Surr: Toluene-d8	87.3	70-130	%REC	1	3/17/2010 03:54 AM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270C

RunID:	MS6_100321B	QC Batch:	62730	PrepDate:	3/17/2010	Analyst: DMP
Acenaphthene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Acenaphthylene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Anthracene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Benzo(a)anthracene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Benzo(a)pyrene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Benzo(b)fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Benzo(g,h,i)perylene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Benzo(k)fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Chrysene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Dibenz(a,h)anthracene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Fluoranthene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Fluorene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Indeno(1,2,3-cd)pyrene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Naphthalene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Phenanthrene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Pyrene	ND	12	µg/Kg	2.5	3/21/2010 09:53 PM	
Surr: 1,2-Dichlorobenzene-d4	68.3	36-108	%REC	2.5	3/21/2010 09:53 PM	
Surr: 2-Fluorobiphenyl	72.5	43-109	%REC	2.5	3/21/2010 09:53 PM	
Surr: 4-Terphenyl-d14	118	34-158	%REC	2.5	3/21/2010 09:53 PM	
Surr: Nitrobenzene-d5	64.1	39-108	%REC	2.5	3/21/2010 09:53 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Mar-10

CLIENT: Testa Environmental Corporation

Client Sample ID: SS-EP-COMPOSITE

Lab Order: 110711

Collection Date: 3/10/2010

Project:

Matrix: SOLID

Lab ID: 110711-007A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP10_100317G	QC Batch: 62720	PrepDate: 3/17/2010	Analyst: CL
Antimony	ND	2.0	mg/Kg
Arsenic	4.6	1.0	mg/Kg
Barium	120	1.0	mg/Kg
Beryllium	ND	1.0	mg/Kg
Cadmium	ND	1.0	mg/Kg
Chromium	17	1.0	mg/Kg
Cobalt	7.5	1.0	mg/Kg
Copper	23	2.0	mg/Kg
Lead	8.0	1.0	mg/Kg
Molybdenum	ND	1.0	mg/Kg
Nickel	14	1.0	mg/Kg
Selenium	ND	1.0	mg/Kg
Silver	ND	1.0	mg/Kg
Thallium	ND	1.0	mg/Kg
Vanadium	33	1.0	mg/Kg
Zinc	53	1.0	mg/Kg

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID: AA1_100317C	QC Batch: 62722	PrepDate: 3/17/2010	Analyst: IL
Mercury	ND	0.10	mg/Kg

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		





Advanced Technology Laboratories

Date: 22-Mar-10

CLIENT: Testa Environmental Corporation
Work Order: 110711
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-62720	SampleType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119254						
Client ID: PBS	Batch ID: 62720	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 3/17/2010	SeqNo: 1898995						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	0.019	1.0									
Chromium	0.142	1.0									
Cobalt	0.019	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	0.148	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	0.023	1.0									
Zinc	ND	1.0									

Sample ID: LCS-62720	SampleType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119254						
Client ID: LCSS	Batch ID: 62720	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 3/17/2010	SeqNo: 1898996						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	43.339	2.0	50.00	0	86.7	80	120				
Arsenic	45.536	1.0	50.00	0	91.1	80	120				
Barium	50.664	1.0	50.00	0	101	80	120				
Beryllium	49.514	1.0	50.00	0	99.0	80	120				
Cadmium	48.678	1.0	50.00	0.01889	97.3	80	120				
Chromium	49.413	1.0	50.00	0.1417	98.5	80	120				
Cobalt	50.987	1.0	50.00	0.01872	102	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 110711
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-62720	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119254						
Client ID: LCSS	Batch ID: 62720	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 3/17/2010	SeqNo: 1898996						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	49.124	2.0	50.00	0	98.2	80	120				
Lead	49.281	1.0	50.00	0	98.6	80	120				
Molybdenum	50.988	1.0	50.00	0	102	80	120				
Nickel	49.860	1.0	50.00	0.1479	99.4	80	120				
Selenium	45.744	1.0	50.00	0	91.5	80	120				
Silver	47.349	1.0	50.00	0	94.7	80	120				
Thallium	46.480	1.0	50.00	0	93.0	80	120				
Vanadium	49.992	1.0	50.00	0.02287	99.9	80	120				
Zinc	48.305	1.0	50.00	0	96.6	80	120				

Sample ID: 110729-009A-MS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119254						
Client ID: ZZZZZZ	Batch ID: 62720	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 3/17/2010	SeqNo: 1899016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	77.502	2.0	125.0	0.2951	61.8	32	105				
Arsenic	113.651	1.0	125.0	14.16	79.6	49	106				
Barium	177.578	1.0	125.0	66.94	88.5	31	133				
Beryllium	106.500	1.0	125.0	0	85.2	56	106				
Cadmium	102.183	1.0	125.0	0.3320	81.5	51	103				
Chromium	121.133	1.0	125.0	12.80	86.7	45	114				
Cobalt	112.230	1.0	125.0	7.404	83.9	52	106				
Copper	152.872	2.0	125.0	40.06	90.2	54	125				
Lead	116.823	1.0	125.0	14.26	82.0	34	126				
Molybdenum	102.416	1.0	125.0	0	81.9	54	106				
Nickel	115.633	1.0	125.0	10.67	84.0	45	111				
Selenium	103.980	1.0	125.0	0	83.2	47	104				
Silver	110.380	1.0	125.0	0.1529	88.2	56	112				
Thallium	96.214	1.0	125.0	0	77.0	46	101				
Vanadium	141.715	1.0	125.0	30.65	88.9	54	114				
Zinc	340.627	1.0	125.0	238.5	81.7	28	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation
Work Order: 110711
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 110729-009A-MSD		SampType: MSD	TestCode: 6010_S		Units: mg/Kg	Prep Date: 3/17/2010		RunNo: 119254			
Client ID: ZZZZZZ	Batch ID: 62720		TestNo: EPA 6010B		EPA 3050B	Analysis Date: 3/17/2010		SeqNo: 1899017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	77.160	2.0	125.0	0.2951	61.5	32	105	77.50	0.443	20	
Arsenic	115.377	1.0	125.0	14.16	81.0	49	106	113.7	1.51	20	
Barium	176.612	1.0	125.0	66.94	87.7	31	133	177.6	0.546	20	
Beryllium	108.013	1.0	125.0	0	86.4	56	106	106.5	1.41	20	
Cadmium	103.873	1.0	125.0	0.3320	82.8	51	103	102.2	1.64	20	
Chromium	122.551	1.0	125.0	12.80	87.8	45	114	121.1	1.16	20	
Cobalt	113.578	1.0	125.0	7.404	84.9	52	106	112.2	1.19	20	
Copper	155.278	2.0	125.0	40.06	92.2	54	125	152.9	1.56	20	
Lead	118.063	1.0	125.0	14.26	83.0	34	126	116.8	1.06	20	
Molybdenum	103.120	1.0	125.0	0	82.5	54	106	102.4	0.685	20	
Nickel	117.061	1.0	125.0	10.67	85.1	45	111	115.6	1.23	20	
Selenium	104.916	1.0	125.0	0	83.9	47	104	104.0	0.896	20	
Silver	111.458	1.0	125.0	0.1529	89.0	56	112	110.4	0.971	20	
Thallium	97.197	1.0	125.0	0	77.8	46	101	96.21	1.02	20	
Vanadium	143.195	1.0	125.0	30.65	90.0	54	114	141.7	1.04	20	
Zinc	340.565	1.0	125.0	238.5	81.6	28	125	340.6	0.0182	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation
Work Order: 110711
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-62722	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119245
Client ID: PBS	Batch ID: 62722	TestNo: EPA 7471A		Analysis Date: 3/17/2010	SeqNo: 1898749
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	ND	0.10			

Sample ID: LCS-62722	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119245
Client ID: LCSS	Batch ID: 62722	TestNo: EPA 7471A		Analysis Date: 3/17/2010	SeqNo: 1898750
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.847	0.10	0.8300	0	102

Sample ID: 110741-003A-MS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119245
Client ID: ZZZZZZ	Batch ID: 62722	TestNo: EPA 7471A		Analysis Date: 3/17/2010	SeqNo: 1898751
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.863	0.10	0.8300	0.03773	99.4

Sample ID: 110741-003A-MSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 3/17/2010	RunNo: 119245
Client ID: ZZZZZZ	Batch ID: 62722	TestNo: EPA 7471A		Analysis Date: 3/17/2010	SeqNo: 1898752
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Mercury	0.862	0.10	0.8300	0.03773	99.3

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DSL HSGT

Sample ID: LCS-62708	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 3/16/2010	RunNo: 119270						
Client ID: LCSS	Batch ID: 62708	TestNo: EPA 8015B(M LUFT		Analysis Date: 3/17/2010	SeqNo: 1899320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 110711-004AMS	Batch ID: 62708	SampType: MS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 3/16/2010	RunNo: 119270					
Client ID: SS-EP-4			TestNo: EPA 8015B(M LUFT		Analysis Date: 3/17/2010	SeqNo: 1899327					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 110711-004AMSD	SampType: MSD	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 3/16/2010	RunNo: 119270						
Client ID: SS-EP-4	Batch ID: 62708	TestNo: EPA 8015B(M LUFT		Analysis Date: 3/17/2010	SeqNo: 1899328						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-62708	SampleType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 3/16/2010	RunNo: 119270						
Client ID: PBS	Batch ID: 62708	TestNo: EPA 8015B(M LUFT		Analysis Date: 3/17/2010	SeqNo: 1899329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: E100315LCS2	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119152
Client ID: LCSS	Batch ID: E10VS076	TestNo: EPA 8015B(M)		Analysis Date: 3/15/2010	SeqNo: 1897790
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
GRO	6.139	1.0	5.000	0	123 70 130
Surr: Bromofluorobenzene (FID)	94.119		100.0		94.1 56 137

Sample ID: E100315MB1	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119152
Client ID: PBS	Batch ID: E10VS076	TestNo: EPA 8015B(M)		Analysis Date: 3/15/2010	SeqNo: 1897791
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
GRO	ND	1.0			
Surr: Bromofluorobenzene (FID)	86.559		100.0		86.6 56 137

Sample ID: 110686-014AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119152
Client ID: ZZZZZZ	Batch ID: E10VS076	TestNo: EPA 8015B(M)		Analysis Date: 3/15/2010	SeqNo: 1897796
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
GRO	5.555	1.0	5.000	0	111 40 121
Surr: Bromofluorobenzene (FID)	88.849		100.0		88.8 56 137

Sample ID: 110686-014AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119152
Client ID: ZZZZZZ	Batch ID: E10VS076	TestNo: EPA 8015B(M)		Analysis Date: 3/15/2010	SeqNo: 1897797
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
GRO	5.219	1.0	5.000	0	104 40 121
Surr: Bromofluorobenzene (FID)	93.651		100.0		93.7 56 137

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: E100316LCS2	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119238						
Client ID: LCSS	Batch ID: E10VS077	TestNo: EPA 8015B(M)		Analysis Date: 3/16/2010	SeqNo: 1898929						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 110711-006AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119238						
Client ID: SS-EP-6	Batch ID: E10VS077	TestNo: EPA 8015B(M)		Analysis Date: 3/16/2010	SeqNo: 1898930						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 110711-006AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119238						
Client ID: SS-EP-6	Batch ID: E10VS077	TestNo: EPA 8015B(M)		Analysis Date: 3/16/2010	SeqNo: 1898931						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: E100316MB1	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 119238						
Client ID: PBS	Batch ID: E10VS077	TestNo: EPA 8015B(M)		Analysis Date: 3/16/2010	SeqNo: 1898932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100316LCS1	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119237						
Client ID: LCSS	Batch ID: T10VS038	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	45.990	5.0	50.00	0	92.0	70	130				
Benzene	102.530	5.0	100.0	0	103	70	130				
Chlorobenzene	51.450	5.0	50.00	0	103	82	130				
MTBE	58.450	5.0	50.00	0	117	70	130				
Toluene	104.400	5.0	100.0	0	104	70	130				
Trichloroethene	54.500	5.0	50.00	0	109	77	130				
Surr: 1,2-Dichloroethane-d4	40.270		50.00		80.5	70	130				
Surr: 4-Bromofluorobenzene	45.350		50.00		90.7	70	130				
Surr: Dibromofluoromethane	39.920		50.00		79.8	70	130				
Surr: Toluene-d8	43.690		50.00		87.4	70	130				

Sample ID: 110663-014AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119237						
Client ID: ZZZZZZ	Batch ID: T10VS038	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898562						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	45.200	5.0	50.00	0	90.4	70	130				
Benzene	95.110	5.0	100.0	0	95.1	70	130				
Chlorobenzene	45.950	5.0	50.00	0	91.9	70	130				
MTBE	50.810	5.0	50.00	0	102	70	130				
Toluene	94.480	5.0	100.0	0	94.5	70	130				
Trichloroethene	50.550	5.0	50.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	41.060		50.00		82.1	70	130				
Surr: 4-Bromofluorobenzene	45.010		50.00		90.0	70	130				
Surr: Dibromofluoromethane	40.530		50.00		81.1	70	130				
Surr: Toluene-d8	43.470		50.00		86.9	70	130				

Sample ID: 110663-014AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119237						
Client ID: ZZZZZZ	Batch ID: T10VS038	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: 110663-014AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119237						
Client ID: ZZZZZZ	Batch ID: T10VS038	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.780	5.0	50.00	0	89.6	70	130	45.20	0.934	20	
Benzene	94.960	5.0	100.0	0	95.0	70	130	95.11	0.158	20	
Chlorobenzene	47.080	5.0	50.00	0	94.2	70	130	45.95	2.43	20	
MTBE	49.840	5.0	50.00	0	99.7	70	130	50.81	1.93	20	
Toluene	96.570	5.0	100.0	0	96.6	70	130	94.48	2.19	20	
Trichloroethene	50.860	5.0	50.00	0	102	70	130	50.55	0.611	20	
Surr: 1,2-Dichloroethane-d4	37.860		50.00		75.7	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	44.460		50.00		88.9	70	130	0	0	0	
Surr: Dibromofluoromethane	39.750		50.00		79.5	70	130	0	0	0	
Surr: Toluene-d8	42.120		50.00		84.2	70	130	0	0	0	

Sample ID: T100316MB2	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119237						
Client ID: PBS	Batch ID: T10VS038	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100316MB2	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119237						
Client ID: PBS	Batch ID: T10VS038	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898564						
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
dis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100316MB2	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119237						
Client ID: PBS	Batch ID: T10VS038	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	41.490		50.00			83.0	70	130			
Surr: 4-Bromofluorobenzene	42.990		50.00			86.0	70	130			
Surr: Dibromofluoromethane	43.460		50.00			86.9	70	130			
Surr: Toluene-d8	47.640		50.00			95.3	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100316LCS2	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119246						
Client ID: LCSS	Batch ID: T10VS039	TestNo: EPA 8260B		Analysis Date: 3/16/2010	SeqNo: 1898758						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	49.880	5.0	50.00	0	99.8	70	130				
Benzene	109.920	5.0	100.0	0	110	70	130				
Chlorobenzene	51.990	5.0	50.00	0	104	82	130				
MTBE	59.620	5.0	50.00	0	119	70	130				
Toluene	111.530	5.0	100.0	0	112	70	130				
Trichloroethene	56.430	5.0	50.00	0	113	77	130				
Surr: 1,2-Dichloroethane-d4	39.350		50.00		78.7	70	130				
Surr: 4-Bromofluorobenzene	43.840		50.00		87.7	70	130				
Surr: Dibromofluoromethane	43.150		50.00		86.3	70	130				
Surr: Toluene-d8	43.700		50.00		87.4	70	130				

Sample ID: 110713-015AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119246						
Client ID: ZZZZZZ	Batch ID: T10VS039	TestNo: EPA 8260B		Analysis Date: 3/17/2010	SeqNo: 1898760						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	40.010	5.0	50.00	0	80.0	70	130				
Benzene	77.260	5.0	100.0	0	77.3	70	130				
Chlorobenzene	36.220	5.0	50.00	0	72.4	70	130				
MTBE	37.900	5.0	50.00	0	75.8	70	130				
Toluene	79.090	5.0	100.0	0	79.1	70	130				
Trichloroethene	41.610	5.0	50.00	0	83.2	70	130				
Surr: 1,2-Dichloroethane-d4	40.770		50.00		81.5	70	130				
Surr: 4-Bromofluorobenzene	43.790		50.00		87.6	70	130				
Surr: Dibromofluoromethane	39.000		50.00		78.0	70	130				
Surr: Toluene-d8	42.910		50.00		85.8	70	130				

Sample ID: 110713-015AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119246						
Client ID: ZZZZZZ	Batch ID: T10VS039	TestNo: EPA 8260B		Analysis Date: 3/17/2010	SeqNo: 1898761						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: 110713-015AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119246						
Client ID: ZZZZZZ	Batch ID: T10VS039	TestNo: EPA 8260B		Analysis Date: 3/17/2010	SeqNo: 1898761						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.830	5.0	50.00	0	87.7	70	130	40.01	9.11	20	
Benzene	86.560	5.0	100.0	0	86.6	70	130	77.26	11.4	20	
Chlorobenzene	40.380	5.0	50.00	0	80.8	70	130	36.22	10.9	20	
MTBE	39.900	5.0	50.00	0	79.8	70	130	37.90	5.14	20	
Toluene	89.500	5.0	100.0	0	89.5	70	130	79.09	12.3	20	
Trichloroethene	47.660	5.0	50.00	0	95.3	70	130	41.61	13.6	20	
Surr: 1,2-Dichloroethane-d4	41.190		50.00		82.4	70	130		0	0	
Surr: 4-Bromofluorobenzene	44.550		50.00		89.1	70	130		0	0	
Surr: Dibromofluoromethane	39.950		50.00		79.9	70	130		0	0	
Surr: Toluene-d8	44.140		50.00		88.3	70	130		0	0	

Sample ID: T100316MB4	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 119246						
Client ID: PBS	Batch ID: T10VS039	TestNo: EPA 8260B		Analysis Date: 3/17/2010	SeqNo: 1898762						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100316MB4		SampType: MBLK		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 119246	
Client ID: PBS		Batch ID: T10VS039		TestNo: EPA 8260B				Analysis Date: 3/17/2010		SeqNo: 1898762	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T100316MB4		SampType: MBLK		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 119246	
Client ID: PBS		Batch ID: T10VS039		TestNo: EPA 8260B				Analysis Date: 3/17/2010		SeqNo: 1898762	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	39.910		50.00		79.8	70		130			
Surr: 4-Bromofluorobenzene	42.250		50.00		84.5	70		130			
Surr: Dibromofluoromethane	39.690		50.00		79.4	70		130			
Surr: Toluene-d8	42.350		50.00		84.7	70		130			

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation

Work Order: 110711

Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_SIM

Sample ID: MB-62730	SampType: MBLK	TestCode: 8270_S_SIM	Units: µg/Kg	Prep Date: 3/17/2010	RunNo: 119327						
Client ID: PBS	Batch ID: 62730	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/21/2010	SeqNo: 1900563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	ND	5.0									
Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									

Surr: 1,2-Dichlorobenzene-d4	11.110										
Surr: 2-Fluorobiphenyl	11.231										
Surr: 4-Terphenyl-d14	19.371										
Surr: Nitrobenzene-d5	9.103										

Sample ID: LCS-62730	SampType: LCS	TestCode: 8270_S_SIM	Units: µg/Kg	Prep Date: 3/17/2010	RunNo: 119327						
Client ID: LCSS	Batch ID: 62730	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/21/2010	SeqNo: 1900564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acenaphthene	21.019	5.0	33.33	0	63.1	48	103				
Phenanthrene	22.877	5.0	33.33	0	68.6	56	110				
Pyrene	21.309	5.0	33.33	0	63.9	62	110				
Surr: 1,2-Dichlorobenzene-d4	10.085		16.67		60.5	36	108				
Surr: 2-Fluorobiphenyl	10.736		16.67		64.4	43	109				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out

- E Value above quantitation range
 - R RPD outside accepted recovery limits
- Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Testa Environmental Corporation
Work Order: 110711
Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_SIM

Sample ID: LCS-62730	SampType: LCS	TestCode: 8270_S_SIM	Units: µg/Kg	Prep Date: 3/17/2010	RunNo: 119327						
Client ID: LCSS	Batch ID: 62730	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/21/2010	SeqNo: 1900564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-62730MS	SampType: MS	TestCode: 8270_S_SIM	Units: µg/Kg	Prep Date: 3/17/2010	RunNo: 119327						
Client ID: ZZZZZZ	Batch ID: 62730	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/21/2010	SeqNo: 1900565						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: MB-62730MSD	SampType: MSD	TestCode: 8270_S_SIM	Units: µg/Kg	Prep Date: 3/17/2010	RunNo: 119327						
Client ID: ZZZZZZ	Batch ID: 62730	TestNo: EPA 8270C	EPA 3550B	Analysis Date: 3/21/2010	SeqNo: 1900566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CHAIN OF CUSTODY RECORD

Pg of

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 (562) 989-4045 • Fax (562) 989-4040		P.O.#: <u> </u> Logged By: <u> </u> Date: <u>3/12/10</u>		Method of Transport Client ☒ ATL ☐ CA OverN ☐ FEDEX ☐ Other: <u> </u>		Sample Condition Upon Receipt 1. CHILLED <u>3.4</u> Y ☒ N ☐ 4. CUSTODY SEAL Y ☐ N ☒ 2. HEADSPACE (VOA) Y ☒ N ☐ 5. # OF SPLS MATCH COC Y ☒ N ☐ 3. CONTAINER INTACT Y ☒ N ☐ 6. PRESERVED Y ☐ N ☒	
Client: <u>Stanta</u> Attn: <u> </u>		Address: <u> </u> City: <u> </u> State: <u> </u> Zip Code: <u> </u>		TEL: (<u> </u>) FAX: (<u> </u>)			

Project Name: <u> </u> Relinquished by: (Signature and Printed Name) <u>B. Fletcher</u> Date: <u>3/12/10</u> Time: <u>12:35</u> Relinquished by: (Signature and Printed Name) <u>Mary Off</u> Date: <u>3/12/10</u> Time: <u>12:37</u> Relinquished by: (Signature and Printed Name) <u> </u> Date: <u> </u> Time: <u> </u>		Project #: <u> </u> Sampler: <u>B. Fletcher</u> Received by: (Signature and Printed Name) <u> </u> Date: <u> </u> Time: <u> </u> Received by: (Signature and Printed Name) <u> </u> Date: <u> </u> Time: <u> </u> Received by: (Signature and Printed Name) <u> </u> Date: <u> </u> Time: <u> </u>	
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I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <u>B. Fletcher</u> Date: <u>3/11/10</u> Print Name <u> </u> Signature <u> </u>		Send Report To: Attn: <u>TESTA</u> Co: <u> </u> Address: <u> </u> City: <u> </u> State: <u> </u> Zip: <u> </u>		Bill To: Attn: <u>TESTA</u> Co: <u> </u> Address: <u> </u> City: <u> </u> State: <u> </u> Zip: <u> </u>	
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LAB USE ONLY:			Sample Description		Sample I.D. / Location		Date	Time
LAB USE ONLY:	Batch #:	Lab No.						
1	110711-001		SS-EP-1		3/10			
2			1		3/10			
3			2		3/10			
4			3		3/10			
5			4		3/10			
6			5		3/10			
7			6		3/10			
			SS-EP-Composite		3/10			

TAT: A= Overnight ≤ 24 hr B= Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays		Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃	
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DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

TABLE 4-2
SUMMARY OF CURRENT GROUNDWATER GAUGING DATA ^(a)
DECEMBER 2010
Week 2011

Well No.	Top of Casing (feet) (b)	Well Depth (feet)	Depth to Groundwater (feet)(c)	Groundwater Elevation (feet)	Screened Interval		Increase/Decrease (-) in Elevation (feet)(d)	Remarks
					In Elevation (feet)	Bottom		
MMW-2	19.66	46.02	18.70 <i>18.30</i>	0.96 <i>1.36</i>	-7.60	-27.60	-0.40	0.4
MMW-3	19.38	45.83	18.40 <i>18.00</i>	0.98 <i>1.38</i>	-7.70	-27.20	-0.50	0.4
MMW-4	20.11	45.92	19.10 <i>18.60</i>	0.09 <i>1.51</i>	-7.20	-27.20	-0.40	1.42
MMW-5	20.09	46.28	20.00 <i>19.60</i>	0.10 <i>0.49</i>	-8.40	-28.40	-0.40	0.39
MMW-6	<u>20.40</u>	46.40	20.30 <i>20.40</i>	0.04 <i>0.00</i>	-7.90	-27.90	-0.40	20.4
MMW-7	20.05	45.43	20.00 <i>19.60</i>	0.05 <i>0.45</i>	-6.76	-26.76	-0.40	0.4
MMW-9R	ND ^(e) <i>20.25</i>	30.00 <i>30.00</i>	18.70 <i>18.30</i>	ND <i>1.49</i>	ND	ND	ND	ND
MMW-10	20.60	48.00	20.80 <i>20.40</i>	-0.20 <i>0.20</i>	-8.62	-28.62	0.50	0.40

(a) Gauging data presented was generated on December 28, 2010. *March 3*

(b) Elevation in feet relative to measures level datum. *19.79*

(c) Depth in feet measured relative to top of well casing. *10.2*

(d) Relative to the last gauging event conducted on September 8, 2009. *10.2*

(e) ND = Not determined; well MMW-9 was dirt-filled, and top of casings elevations were not reestablished at time of gauging/sampling following well casing maintenance and installation of flush-mounted well casings. *18.79*

19.79 ~~20.25~~ *18.79* *18.30* *1.49* *1.19* *18.4-19.2* *2.11* *1.240 (3)*

1.449 *1.49* *18.79* *18.30* *1.09* *1.87(5)* *2.11* *1.240 (3)*

1.09 *1.09* *1.09* *1.09* *1.09* *1.09* *1.09* *1.09*

EXHIBIT 4 – PART III

SUMMARY OF SOIL QUALITY (TetraTach, 2006)



Figure 1 - Phase I and II Boring Locations, Former Chemoil Refinery, Signal Hill, California

Table 1
Soil Analytical Data Summary - Total Petroleum Hydrocarbon
Northern and Southern Parcels, Former Chemoil Refinery, Signal Hill, California

Boring - Sample ID (Date and Depth Sampled)	Laboratory Results																			
	TPH (mg/kg)																			
	TPH - Carbon Range C5-C6	TPH - Carbon Range C7-C8	TPH - Carbon Range C9-C10	TPH - Carbon Range C11-C12	TPH - Carbon Range C12-C13	TPH - Carbon Range C14-C15	TPH - Carbon Range C16-C17	TPH - Carbon Range C18-C19	TPH - Carbon Range C20-C21	TPH - Carbon Range C22-C23	TPH - Carbon Range C24-C25	TPH - Carbon Range C26-C27	TPH - Carbon Range C28-C29	TPH - Carbon Range C30-C31	TPH - Carbon Range C32-C33	TPH - Carbon Range C34-C35	TPH - Carbon Range C36-C37	TPH - Carbon Range C38-C39	TPH - Carbon Range C40-C41	
LARWQCB Screening Level ⁽¹⁾ (mg/Kg)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Practical Quantitation Limit ⁽²⁾ (mg/Kg)	1.0	1.0	1.0	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Method Detection Limit ⁽³⁾ (mg/Kg)	0.5	0.5	0.5	0.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SB1 (GW ~31' bgs)																				
SB1-051606-4'	369	96.8	375	506	3,538	4,338	4,350	2,620	1,210	701	340	156	116	56.0	ND	ND	ND	ND	ND	ND
SB1-051606-10'	955	119	50.3	50.7	671	1,198	1,230	609	294	144	73.4	46.2	27.7	11.4	ND	ND	ND	ND	ND	ND
SB1-051606-15'	195	466	822	614	746	1,498	1,580	722	337	149	64.4	31.8	14.0	ND	ND	ND	ND	ND	ND	ND
SB1-051606-20'	210	310	581	298	917	1,126	1,150	555	274	113	49.9	26.9	13.6	ND	ND	ND	ND	ND	ND	ND
SB1-051606-25'	245	364	670	467	994	1,888	2,000	1,130	438	205	92.0	49.0	24.8	ND	ND	ND	ND	ND	ND	ND
SB1-051606-30'	206	274	611	421	100	176	193	91.3	41.7	18.4	8.11	12.6	5.90	ND	ND	ND	ND	ND	ND	ND
SB1-051606-35'	141	278	482	247	296	643	669	294	128	55.7	25.1	12.6	5.90	ND	ND	ND	ND	ND	ND	ND
SB2 (GW ~34' bgs)																				
SB2-051506-5'	1,180	523	460	205	448	1,010	1,270	1,438	1,520	1,520	1,400	1,350	988	1,650	653	408	360	208	100	ND
SB2-051506-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB2-051506-16'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB2-051506-20'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB2-051506-25'	1.33	0.956	0.907	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB2-051506-30'	ND	0.846	1.33	0.583	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB2-051506-35'	473	447	940	632	1,520	1,650	731	253	118	38.4	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB3 (GW ~24' bgs)																				
SB3-051506-4'	142	60.8	1,230	856	1,220	1,450	1,388	966	534	408	270	242	225	168	109	70.8	49.0	27.6	10.0	ND
SB3-051506-10'	79.6	200	532	224	177	121	64.5	34.8	16.8	9.85	5.64	ND	5.03	ND	ND	ND	ND	ND	ND	ND
SB3-051506-15'	521	1,250	1,950	942	1,250	942	677	441	220	118	60.9	39.2	31.0	16.0	ND	ND	ND	ND	ND	ND
SB3-051506-20'	23.0	69.6	161	105	3,800	3,420	3,100	1,560	943	487	239	166	109	55.0	ND	ND	ND	ND	ND	ND
SB3-051506-25'	243	565	1,240	835	1,200	1,090	925	594	281	142	75.4	47.4	36.5	19.2	ND	ND	ND	ND	ND	ND
SB4 (GW ~36' bgs)																				
SB4-051606-5'	63.3	2,380	5,060	3,688	1,400	341	10.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB4-051606-10'	216	552	1,190	876	999	101	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB4-051606-15'	488	1,120	2,750	1,540	677	118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB4-051606-20'	530	1,200	2,470	1,310	667	158	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB4-051606-25'	61.5	249	621	393	854	211	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB4-051606-30'	292	848	1,610	897	304	71.0	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB4-051606-35'	1,180	2,210	4,270	2,640	1,090	982	492	448	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB4-051606-40'	679	1,030	2,500	1,250	640	274	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: Only analytes positively detected are presented in this table. For a complete list of constituents analyzed, refer to the laboratory data package.

⁽¹⁾ California Regional Water Quality Control Board, Los Angeles Region (LARWQCB), 1996 Soil Screening Levels

⁽²⁾ Practical Quantitation Limit (PQL) and Method Detection Limit (MDL) data presented for unblinded samples; diluted samples have higher PQL/MDL values based upon each sample's dilution factor

Highlighted cell/bold value indicates those results detected above the LARWQCB Screening Level

ND = not detected at or above laboratory reporting limits

J = analyte was detected, however, analyte concentration is an estimated value which is between the method detection limit and the practical quantitation limit.

mg/kg = milligrams per kilogram

TPH = total petroleum hydrocarbons

Table 2
Soil Analytical Data Summary - Organic Analytes
Northern and Southern Parcels, Former Chemoil Refinery, Signal Hill, California

Boring - Sample ID (Date and Depth Sampled)	Laboratory Results																							
	Volatile Organic Compounds (mg/kg)												Polycyclic Aromatic Hydrocarbons (mg/kg)											
	TPH (mg/kg)																							
	TPH - Carbon Range C4-C12	TPH - Carbon Range C13-C22	TPH - Carbon Range C23-C40	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	o-Xylene	m-Xylene	p-Xylene	Isopropylbenzene	n-Propylbenzene	tert-Butyl alcohol (TBA)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes, o,p	Xylenes, m,p	Acetophenone	Anthracene	Phenanthrene	Fluorene	Pyrene	
LABWQCB Screening Level ⁽¹⁾ (mg/kg)	100	100	1000	0.011	-	-	-	2.0	-	-	-	190	240	-	0.45	-	-	5.3	5.3	20,000	100,000	100,000	190	20,000
Preliminary Remediation Goal ⁽²⁾ (mg/kg)	-	-	-	0.010	0.010	0.010	0.020	400	-	-	-	4,200	430	0.500	0.010	0.010	0.010	0.010	0.010	0.020	0.020	0.020	0.020	0.020
Practical Quantities Limit ⁽³⁾ (mg/kg)	10.0	10.0	10.0	0.005	0.005	0.005	0.025	0.002	0.002	0.002	0.002	0.005	0.005	0.002	0.005	0.005	0.005	0.002	0.002	0.010	0.010	0.010	0.010	0.010
Method Detection Limit ⁽⁴⁾ (mg/kg)	0.3	0.3	0.3	0.002	0.002	0.002	0.005	0.002	0.002	0.002	0.002	0.005	0.005	0.002	0.005	0.005	0.002	0.002	0.010	0.010	0.010	0.010	0.010	
SBI (GW -31' bgs)	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-4 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-10 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-15 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-20 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-25 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-30 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-35 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-40 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-45 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-50 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-55 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-60 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-65 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-70 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-75 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-80 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-85 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-90 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-95 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-100 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-105 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-110 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-115 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-120 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-125 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-130 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-135 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-140 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-145 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-150 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-155 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-160 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-165 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-170 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-175 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-180 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-185 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-190 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-195 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-200 ⁽⁵⁾	1,300	1,300	1,300	0.011	240	390	400	-	-	-	-	16,800	1,000	ND	0.263	2,770	0.02511	0.218	0.260	0.794	0.134	ND	0.097	1,240
SBI-051606-205 ⁽⁵⁾	1,300	1,300	1,300	0.011	240																			

Table 3
Soil Analytical Data Summary - Total Petroleum Hydrocarbon
Eastern Parcel, Former Chemoil Refinery, Signal Hill, California

Boring - Sample ID (Date and Depth Sampled)	Laboratory Results																		
	TPH (mg/kg)																		
	TPH - Carbon Range C5-C6	TPH - Carbon Range C7-C8	TPH - Carbon Range C9-C10	TPH - Carbon Range C11-C12	TPH - Carbon Range C12-C13	TPH - Carbon Range C14-C15	TPH - Carbon Range C16-C17	TPH - Carbon Range C18-C19	TPH - Carbon Range C20-C21	TPH - Carbon Range C22-C23	TPH - Carbon Range C24-C25	TPH - Carbon Range C26-C27	TPH - Carbon Range C28-C29	TPH - Carbon Range C30-C31	TPH - Carbon Range C32-C33	TPH - Carbon Range C34-C35	TPH - Carbon Range C36-C37	TPH - Carbon Range C38-C39	TPH - Carbon Range C40-C41
LARWQCB Screening Level ⁽¹⁾ (mg/Kg)	100	100	100	100	100	100	100	100	100	100	1000	1000	1000	1000	1000	1000	1000	1000	1000
Practical Quantitation Limit ⁽²⁾ (mg/Kg)	1.0	1.0	1.0	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Method Detection Limit ⁽²⁾ (mg/Kg)	0.5	0.5	0.5	0.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
E1B																			
E1B-060106-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E1B-060106-15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E1B-060106-25'	ND	ND	2.53	3.19	ND	ND	7.59J	ND	ND	ND	ND	ND	5.04J	ND	ND	ND	ND	ND	ND
E1C																			
E1C-060106-5'	3.17J	5.08	25.4	31.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E1C-060106-15'	48.8J	95.6J	655	671	717	625	670	534	205	294	383	421	414	292	193	150	97.1	65.2	ND
E1C-060106-25'	73.2J	136	1,630	1,330	3,660	3,270	3,040	2,200	1,840	1,700	1,430	1,580	1,550	1,060	704	521	325	218	ND
E3A																			
E3A-060106-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E5																			
E5-060106-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E5-060106-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E5-060106-15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E5-060106-20'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: Only analytes positively detected are presented in this table. For a complete list of constituents analyzed, refer to the laboratory data package.

⁽¹⁾ California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) 1996 Soil Screening Levels

⁽²⁾ Practical Quantitation Limit (PQL) and Method Detection Limit (MDL) data presented for undiluted samples; diluted samples have higher PQL/MDL values based upon each sample's dilution factor

Highlighted cell/bold value indicates those results detected above the LARWQCB Screening Level

J - analyte was detected; however, analyte concentration is an estimated value which is between the method detection limit and the practical quantitation limit.

mg/Kg - milligrams per kilogram

ND - not detected at or above laboratory reporting limits

TPH - total petroleum hydrocarbons

Table 4
Soil Analytical Data Summary - Organic Analytes
Eastern Parcel, Former Chemoil Refinery, Signal Hill, California

Boring - Sample ID (Date and Depth Sampled)	Laboratory Results																				
	TPH (mg/kg)			Volatile Organic Compounds (mg/kg)											Polycyclic Aromatic Hydrocarbons (mg/kg)						
	TPH - Carbon Range C4-C12	TPH - Carbon Range C13-C22	TPH - Carbon Range C23-C40	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	Diethylbenzene	p-Toluenylbenzene	Naphthalene	Toluene	Xylenes, o	Xylenes, m,p	Acenaphthene	Chrysene	Fluorenone	Naphthalene	Phenanthrene	Pyrene	
LARWQCB Screening Level ⁽¹⁾ (mg/kg)	100	100	1000	0.011	-	-	-	2.6	-	-	-	0.45	5.3	5.3	-	210	22,000	26,000	100	-	20,000
Preliminary Remediation Goal ⁽²⁾ (mg/kg)	-	-	-	1.4	240	220	790	490	-	-	4.2 ⁽³⁾	520	420	420	29,000	1.2 ⁽⁴⁾	1,200	4.2 ⁽⁵⁾	0.020	0.020	
Practical Quantitation Limit ⁽⁶⁾ (mg/kg)	1.0	10.0	10.0	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
Method Detection Limit ⁽⁷⁾ (mg/kg)	0.5	5.0	5.0	0.002	0.005	0.005	0.005	0.002	0.005	0.005	0.005	0.002	0.002	0.002	0.010	0.010	0.010	0.010	0.010	0.010	
E1B																					
E1B-060106-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	
E1B-060106-15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	
E1B-060106-25'	5.7	7.99	5.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	
E1C																					
E1C-060106-5'	61.6	ND	ND	ND	ND	ND	ND	0.0081	ND	0.0050	0.0054	ND	ND	ND	-	-	-	-	-	-	
E1C-060106-15'	1,326	2,751	2,309	ND	1,100	1,100	0.175	ND	2,600	4,320	4,360	0.114	ND	ND	0.221	1.59	0.317	1.19	1.65	0.554	
E1C-060106-25'	3,896	14,010	9,898	ND	1,190	4,360	0.281	0.0744	4,600	9,000	8,660	0.156	0.0483	ND	-	-	-	-	-	-	
E3A																					
E3A-060106-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	
E5																					
E5-060106-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	
E5-060106-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	
E5-060106-15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	
E5-060106-20'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	

Notes: Only analytes positively detected are presented in this table. For a complete list of constituents analyzed, refer to the laboratory data package.
⁽¹⁾ California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) 1995 Soil Screening Levels
⁽²⁾ Industrial Preliminary Remediation Goal (PRG) values from United States Environmental Protection Agency (EPA) Region IX latest revision (October 2004)
⁽³⁾ California PRG (2004, October 2004)
⁽⁴⁾ California PRG (2004, October 2004)
⁽⁵⁾ California PRG (2004, October 2004)
⁽⁶⁾ Screening level of PRG not available for this analyte.
⁽⁷⁾ Analyte not tested for
 ND - not detected at or above laboratory reporting limit
 J - analyte was detected, however, analyte concentration is an estimated value which is between the method detection limit and the practical quantitation limit.
 mg/kg - milligrams per kilogram
 TPH - total petroleum hydrocarbons

Table 5
Soil Analytical Data Summary - Metals
Northern Parcel, Former Chemoil Refinery
Signal Hill, California

Boring - Sample ID (Date and Depth Sampled)	Laboratory Results (mg/Kg)																
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Preliminary Remediation Goal ⁽¹⁾ (mg/Kg)	410	1.6 0.25 ⁽²⁾	67,000	1,900	450	450	1,900	41,000	800	310	5,100	20,000	5,100	5,100	67	1,000	100,000
Practical Quantitation Limit ⁽³⁾ (mg/Kg)	5.0	5.0	5	2.5	5.0	5.0	5.0	5.0	5.0	0.2	5.0	5.0	1.0	5.0	5.0	5.0	5
Method Detection Limit ⁽³⁾ (mg/Kg)	1.0	1.0	2.5	1.3	2.5	2.5	2.5	2.5	2.5	0.1	2.5	2.5	5.0	2.5	1.0	2.5	2.5
SB2	NID	2.70J	186	NID	NID	18.7	8.75	24	4.20J	NID	NID	16.3	NID	NID	NID	33.6	44.1
	NID	4.80J	132	NID	NID	19.7	9.85	28.7	4.90J	NID	NID	16.5	NID	NID	NID	33.9	53.5
	NID	1.55J	29.6	NID	NID	8.5	NID	5.25	NID	NID	NID	3.85J	NID	NID	NID	10.6	13.5
SB4	NID	3.60J	87.5	NID	NID	18.9	7.35	24.1	22.1	2.50	NID	11.4	NID	NID	NID	28.6	58.0
	NID	4.00J	95.0	NID	NID	13.2	6.95	15.1	4.00J	NID	NID	10.9	NID	NID	NID	25.5	37.7
	NID	2.20J	33.2	NID	NID	6.25	2.95J	5.60	NID	NID	NID	4.30J	NID	NID	NID	11.5	16.2

Only analytes positively detected are presented in this table. For a complete list of constituents analyzed, refer to the laboratory data package.

(1) Industrial Preliminary Remediation Goal (PRG) values from United States Environmental Protection Agency (EPA) Region IX latest revision (October 2004)

(2) "Cat-Modified PRG" (EPA, October 2004)

(3) Practical Quantitation Limit (PQL) and Method Detection Limit (MDL) data presented for undiluted samples; diluted samples have higher PQL/MDL values based upon each sample's dilution factor

Blue cell indicates those results detected above the PRG

J - analyte was detected; however, analyte concentration is an estimated value which is between the method detection limit and the practical quantitation limit.

mg/Kg - milligrams per kilogram

MD - not detected at or above laboratory reporting limits