

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

Submitted to: **INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

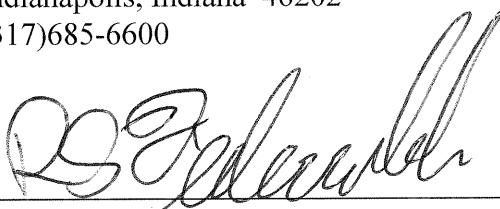
Ms. Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue, Room 1101
Indianapolis, Indiana 46204

Submitted for: **GENUINE PARTS COMPANY**

Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

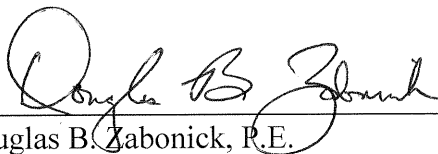
Submitted by: **KERAMIDA INC.**

401 North College Avenue
Indianapolis, Indiana 46202
(317)685-6600



Robert S. Fedorchak, P.E.
Senior Engineer/Project Manager

Reviewed by:



Douglas B. Zabonick, P.E.
President

August 12, 2010

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

Submitted to:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Ms. Erin Brittain, Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Submitted for:

GENUINE PARTS COMPANY

Mr. Bob Lewis
Environmental, Safety and DOT Compliance Manager
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Submitted by:

KERAMIDA INC.
401 North College Avenue
Indianapolis, Indiana 46202
(317)685-6600

August 12, 2010

EXECUTIVE SUMMARY

KERAMIDA Inc. was contracted by the Genuine Parts Company to design and implement remediation to mitigate groundwater contamination at the former General Motors Corporation, Allison Gas Turbine Division, Plant 10 (Site) located at 700 North Olin Avenue, Indianapolis, Indiana. This report documents information collected during remediation activities from April through June 2010 and evaluates remediation performance.

Overall, the combination of remedial system operation, reductive dechlorination and waste/soil excavation activities have contributed to the reduction of both on- and off-Site groundwater contamination levels. All groundwater concentrations are within historical values and no significant changes in values were noted. The Southwest System was the last active remedial system in operation at the Site. For the 7th consecutive quarter, groundwater VOC concentrations were below their respective closure levels in the area (MW-133R and 153) of this system. As discussed in Remediation System Evaluation Report, January through March 2010 (RSER) dated June 24, 2010 and agreed to by the Indiana Department of Environmental Management on March 3, 2010, Southwest System operations were suspended in late-June 2010.

KERAMIDA recommends that current groundwater monitoring activities continue for a minimum of two quarters with the Southwest System shut down to verify that groundwater continues to have stable and/or decreasing trends (See RSER) and to see what affect, if any, groundwater contamination from MW-148R may have on the Southwest System area (MW-153). Once data from the additional quarters of groundwater monitoring are evaluated, KERAMIDA recommends that a meeting be held to discuss the next steps of the project.

TABLES OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	SITE BACKGROUND	1
3.0	CONTAMINANTS OF CONCERN AND CLEANUP CRITERIA.....	2
4.0	REMEDIATION SYSTEM OVERVIEW	3
4.1	AS / SVE SYSTEM	4
4.2	PHYTOREMEDIATION SYSTEM	4
4.3	EAST OFF-SITE AREA BIOREMEDIATION SYSTEM.....	5
5.0	REMEDIATION SYSTEM MONITORING PLAN	5
5.1	AS/SVE SYSTEMS	5
5.2	PHYTOREMEDIATION SYSTEM	5
5.3	SELECTIVE ON-SITE GROUNDWATER MONITORING	6
5.4	ON-SITE GROUNDWATER MONITORING	6
5.5	ON AND OFF-SITE GROUNDWATER MONITORING	7
5.6	EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING ...	8
6.0	IMPLEMENTATION AND MONITORING OF REMEDIATION SYSTEM.....	8
6.1	AS/SVE SYSTEMS	8
6.1.1	East System.....	8
6.1.2	Northwest System	9
6.1.3	Southwest System	10
6.1.4	Liquid Waste Management	13
6.2	PHYTOREMEDIATION SYSTEM	13
6.3	EAST OFF-SITE AREA BIOREMEDIATION SYSTEM.....	13
6.4	SELECTIVE ON-SITE GROUNDWATER MONITORING	14
6.4.1	East System and Associated Monitoring Wells.....	15
6.4.2	Northwest System and Associated Monitoring Wells	15
6.4.3	Southwest System and Associated Monitoring Wells	15
6.5	ON-SITE GROUNDWATER MONITORING	15
6.6	ON AND OFF-SITE GROUNDWATER MONITORING	15
6.7	EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING .	16
7.0	USE OF REPORT.....	16
8.0	LIMITATIONS	17

TABLES

1. Water Level Data Summary
- 2a. Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L)
- 2b. Deep Monitoring Well Groundwater Analytical Results for VOCs (µg/L)
3. East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results

FIGURES

1. Site Location Map
2. Site Map
3. Expanded Site Map
4. Remediation System Layout with Utilities
5. Supplemental Remediation System Layout in “Hot Spot”
6. Groundwater Monitoring Plan
7. Groundwater Potentiometric Surface Map - Shallow Wells, May 2010
8. Groundwater Potentiometric Surface Map - Deep Wells, May 2010

ATTACHMENTS

1. April through June 2010 - Operation & Maintenance Logs
2. May 2010 - Performance Data Log
3. April through May 2010 - Vapor Analytical Reports and Discharge Calculations
4. April through June 2010 - Phytoremediation System Inspection Checklist and Sampling Analytical Reports
5. May 2010 - Groundwater Sample Information Sheets
6. May 2010 - Groundwater Analytical Report

**REMEDATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

1.0 INTRODUCTION

KERAMIDA Inc. (KERAMIDA) was contracted by the Genuine Parts Company (Genuine Parts) to design and implement remediation to mitigate identified groundwater contamination at the former General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10 in Indianapolis, Indiana (Site). Regulatory closure of the Site is being administered through the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP). The purpose of this report is to evaluate the progress of the implemented Final Remediation Work Plan (Final RWP) at the Site as modified/approved in the IDEM's Modified RWP Approval letter, dated March 22, 2005. This report summarizes the following information:

- Site Background
- Contaminants of concern and cleanup criteria
- Design and installation of the remediation system
- Remediation system monitoring plan
- Implementation and monitoring of the remediation system, including general operation & maintenance and performance data, operational parameters, evaluation and recommendations/future activities for each remediation system.

2.0 SITE BACKGROUND

The subject property is located at 700 North Olin Avenue, Indianapolis, Marion County, Indiana (see Figure 1). The property is the former Site of the General Motors Corporation, Allison Gas Turbine Division (AGT) Plant 10. Between 1956 and 1973, BHT Corporation (BHT) operated the facility for carburetor and brake re-manufacturing. General Motors purchased the property from BHT in 1973 and used the facility for warehousing obsolete machines, tooling, and fixtures until the mid-1980s, at which time the property became part of the AGT Division. BHT became part of Genuine Parts, through acquisition and merger, subsequent to the sale of the property to General Motors. AGT continued to use the facility for warehousing until December 1993 when

the property was sold to the Allison Engine Company (AEC). AEC sold the facility to Associated Properties, Inc. in 1998. Associated Properties, Inc. sold the facility to American Art Clay Company, Inc. in 2002, who is the current property owner. Maps showing salient Site features are presented in Figure 2 – Site Map and Figure 3 - Expanded Site Map.

3.0 CONTAMINANTS OF CONCERN AND CLEANUP CRITERIA

Identified contaminants of concern (COC) requiring in-situ remediation include volatile organic compounds (VOC) such as trichloroethene (TCE) and daughter products. Polynuclear aromatic hydrocarbons (PAHs) and three metals (cadmium, chromium, and lead) were other COC but have been addressed by previously completed remediation activities. Indiana VRP Tier II Non-Residential Cleanup Goals for on-Site soil and groundwater and Indiana VRP Tier II Residential Cleanup Goals for off-Site soil and groundwater were used as screening levels to complete Site investigation activities. Two primary source areas of contamination were identified on-Site and are referred to as the eastern source area and the western source area. A small anomalous area of TCE occurrence was also noted in groundwater to the east of the Site across Olin Avenue. A complete summary of on- and off-Site investigation activities were documented in Section 4.0 of the Final RWP dated and submitted to the IDEM on August 16, 2004.

Using the results of the human health and ecological screenings, documented in Sections 4.6 and 5.0 of the Final RWP, the Indiana VRP Tier II Non-Residential Cleanup Goals for subsurface soil and groundwater were selected as the cleanup criteria for Site soils and groundwater (Section 6.0 of Final RWP). Per the IDEM Modified RWP Approval letter, the Indiana VRP Tier II Residential Cleanup Goals are the current cleanup criteria for VOCs in off-Site groundwater attributable to the Site. Because potable water is provided to the area by municipal water supply and the Site vicinity is located in a Marion County No Well Zone, which restricts the installation of water supply wells, the potential for exposure to impacted groundwater is limited.

Off-Site VOC reduction will be monitored for a period of seven years. Should the off-Site concentrations of the VOCs attributable to the Site be reduced to their respective Indiana VRP Tier II Residential Cleanup Goals during the seven year monitoring period, then remediation will be considered complete following four quarters of confirmation sampling. During the seven-year monitoring period, Genuine Parts will work on the establishment of further institutional

control(s) (IC) acceptable to the IDEM that are more restrictive than the current Marion County No Well Zone. If further IC(s) acceptable to the IDEM are secured prior to the end of the seven-year monitoring period, then monitoring will continue during that period to confirm an Indiana VRP Tier III Closure using plume stability. However, if off-Site groundwater cleanup below the Indiana VRP Tier II Residential Cleanup Goals is not achieved or more restrictive IC(s) acceptable to the IDEM cannot be secured, all during the seven-year monitoring period, then an alternate remedy will be identified and implemented.

4.0 REMEDIATION SYSTEM OVERVIEW

Overall remediation consists of source area Air Sparge/Soil Vapor Extraction (AS/SVE) Systems and a Phytoremediation System. The AS/SVE Systems were installed to address groundwater VOC contamination in the eastern and western source areas. The AS/SVE Systems were installed from May 2000 through July 2001 and became operational in July 2001. The Phytoremediation System was installed along the entire southern property boundary of the Site in September 2000 to further mitigate groundwater VOC contamination. A complete summary of the selection, design, and installation of the remediation system was documented in Section 8.2 of the Final RWP. The Final RWP also identified a plan to extend the western source area AS/SVE System to remediate a VOC soil “hot spot.” Expansion included the installation of the four nested SVE wells, associated subsurface piping, and their connection to the AS/SVE System during the period of August 25 through September 18, 2003. The expansion is documented in Section 8.3 of the Final RWP.

As a protective measure, the east off-Site TCE contaminated area is being remediated by reductive dechlorination to health protective levels. Reductive dechlorination is enhancing the naturally occurring processes of degradation. Natural reductive dechlorination takes place in most subsurface systems due to the presence of microbes, which break down the contaminants to harmless constituents. The goal of reductive dechlorination is to enhance the natural processes by the addition of a food source for the microbes. This food source usually consists of a substance with high carbon content. Reductive dechlorination is ideally suited for sites where chlorinated solvents are present and where field indications suggest that natural attenuation is already taking place. A corn syrup injection system was installed in March 2004 after a bench-scale “microcosm” test was completed determining appropriate dosing concentrations. A full

description of the reductive dechlorination process, injection system installation, and the microcosm study is documented in Section 8.2 of the Final RWP.

4.1 AS / SVE SYSTEM

AS/SVE Systems were designed and constructed in phases to aggressively reduce the two separate VOC groundwater plumes on-Site, control off-Site migration, and reduce concentrations in the VOC soil “hot spot.” The AS/SVE System consists of a total of 44 air sparging and 35 soil vapor extraction wells. The AS/SVE System is separated into two western treatment units (Northwest & Southwest Systems) and one eastern treatment unit (East System). Each treatment unit is serviced by separate equipment. The equipment for the two western treatment units is housed in one enclosure/trailer. The equipment for the eastern treatment unit is housed in a separate enclosure/trailer. The following table summarizes the AS/SVE System and its associated components:

Components	Northwest System	Southwest System	East System
SVE Wells	SVE – 1 through 7	SVE-8 through 17 & 28s/d, 29s/d, 31s/d, and 32s/d	SVE-18 through 27
ASV's and Corresponding AS Wells	ASV-1 (AS-1 to 4) ASV-2 (AS-5 to 7) ASV-3 (AS-8 to 10)	ASV-4 (AS-11 to 14) ASV-5 (AS-15 to 19) ASV-6 (AS-20 to 24) ASV-7 (AS-25 to 29)	ASV-8 (AS-30 to 35) ASV-9 (AS-36 to 40) ASV-10 (AS-41 to 44)

ASV = Air Sparging Vault

A layout of the AS/SVE System can be found on Figure 4 - Remediation System Layout with Utilities and Figure 5 - Supplemental Remediation System Layout in “Hot Spot.”

4.2 PHYTOREMEDIATION SYSTEM

Phytoremediation is the use of various plants to remediate environmental media. Phytoremediation has been proven to be effective in the remediation of soil, sediment, groundwater, and surface water contaminated with organic and inorganic chemicals. Phytoremediation applications clean up contaminated media by degrading, extracting, containing, and/or immobilizing the contaminants. In September 2000, phytoremediation was incorporated as part of the Remediation System. It is composed of two staggered rows of hybrid poplar trees, on 5-foot centers, that line the entire southern property boundary. The purpose is to further control the off-Site migration of groundwater COC. Spacing between the rows is a

minimum of 8 feet. A layout of the phytoremediation design in place along the southern property boundary can be found on Figure 4 - Remediation System Layout with Utilities.

4.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM

The east off-Site TCE contaminated area is being remediated by reductive dechlorination. The corn syrup injection system consists of two permanent injection wells, IW-1 and IW-2 installed near MW-163 and in the right of way on the west side of Olin Avenue, on the centerline of Walnut Street. The injection system also consists of ten temporary injection points, all located within the TCE contaminated area. MW-173 was installed approximately 30 feet southeast of existing MW-163 to monitor the treatment process. Existing MW-151 and 156 are used as downgradient sentry wells to monitor the extent of the plume. Permanent well locations are depicted on Figure 3 - Expanded Site Map.

5.0 REMEDIATION SYSTEM MONITORING PLAN

A brief summary of the remediation system monitoring plan is described in this section. A complete summary of the remediation system monitoring plan is documented in Section 8.4 of the Final RWP. Also, please refer to Section 9.0 Operation and Maintenance Plan and the Quality Assurance Project Plan found as Attachment 7 in the Final RWP for complete details.

5.1 AS/SVE SYSTEMS

Weekly Site visits have been made to monitor the AS/SVE Systems operation, to collect performance indicators, and to conduct routine maintenance. Monthly effluent vapor samples have been collected from each SVE blower and submitted for laboratory analysis for VOCs.

The AS/SVE Systems began operating in July 2001. A description of these systems and monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

5.2 PHYTOREMEDIATION SYSTEM

Monthly inspections are conducted during the growing season and quarterly inspections are conducted throughout the dormant period of each year. The growing season for the Site is from April through October. If any trees show signs of distress, disease, or other abnormalities,

corrective actions are taken. Inspection details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

Leaf tissue and transpiration gas sampling and analysis for VOCs, from three randomly selected trees, are to be conducted in June and September of each year to coincide with the early and late stages of the growing season. The results of tissue and gas sampling and analysis are used to evaluate the physical and chemical mechanisms at work in the remediation system, the potential for risk to ecological receptors from exposure to COC-containing plant tissues, and potential COC concentrations released to ambient air in the remediation area. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report.

5.3 SELECTIVE ON-SITE GROUNDWATER MONITORING

The 27th round of quarterly on-Site groundwater monitoring was conducted in May 2010 from seven monitoring wells: MW-10-1R, 132R, 133R, 147AR, 148R, 150 and 153. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and reduction/oxidation (redox) potential. Samples collected for laboratory analysis were analyzed for VOCs at Data Quality Objective (DQO) Level II. The analytical results will aid in the evaluation of progress being made by the remediation system. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6, Groundwater Monitoring Plan for locations of monitoring wells.

Once the analytical results for all seven monitoring wells from four consecutive quarterly groundwater sampling events display asymptotic behavior near or drops below the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, the remediation system will be shut down and selective monitoring will end.

5.4 ON-SITE GROUNDWATER MONITORING

The 8th round of annual on-Site groundwater monitoring will be conducted in November 2010 from 11 monitoring wells: MW-10-1R, 132R, 133R 135, 145, 146, 148R, 150, 152, 153 and 154. Samples will be analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis will be analyzed for VOCs, PAHs, cadmium, total chromium and lead at DQO Level II. The analytical results will be used to evaluate the status of the on-Site attainment of the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, PAHs, cadmium, total chromium, and lead. Monitoring

details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells.

Once the remediation system has been shut down as described in Section 5.3, sampling will change from annual to quarterly events and samples will be analyzed at a DQO Level IV for groundwater confirmation purposes. Once the analytical results in all 11 monitoring wells from four consecutive quarterly groundwater sampling events display asymptotic behavior near or drops below the Indiana VRP Tier II Non-Residential Closure Goals for VOCs, PAHs, cadmium, total chromium and lead, on-Site remedial objectives will be attained and the IDEM will be petitioned for on-Site closure.

5.5 ON AND OFF-SITE GROUNDWATER MONITORING

The 27th round of quarterly on and off-Site groundwater monitoring was conducted in May 2010 from 22 monitoring wells: MW-10-1R, 132R, 146, 148R, 150, 151, 152, 153, 156, 157, 160, 161, 164, 165S, 165D, 166S, 166D, 167S, 167D, 169S, 169D, and 302. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis were analyzed for VOC at DQO Level IV. The analytical results will aid in the evaluation of off-Site natural attenuation and plume stability. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells.

Off-Site VOC concentrations are being monitored quarterly for a seven-year period. Should the off-Site concentrations of the VOCs attributable to the Site be reduced to their respective Indiana VRP Tier II Residential Cleanup Goals during the seven year monitoring period, then remediation will be considered complete following four quarters of confirmation sampling. During the seven-year monitoring period, Genuine Parts will work on the establishment of further institutional control(s) (IC) acceptable to the IDEM that are more restrictive than the current Marion County No Well Zone. If further IC(s) acceptable to the IDEM are secured prior to the end of the seven-year monitoring period, then monitoring will continue during that period to confirm an Indiana VRP Tier III Closure using plume stability. However, if off-Site groundwater cleanup below the Indiana VRP Tier II Residential Cleanup Goals is not achieved or more restrictive IC(s) acceptable to the IDEM cannot be secured, all during the seven-year monitoring period, then an alternate remedy will be identified and implemented.

5.6 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING

The 30th round of east off-Site area bioremediation groundwater monitoring was conducted in May 2010 from six monitoring wells: IW-1, IW-2, MW-151, 156, 163, and MW-173. Samples were analyzed in the field for pH, dissolved oxygen, temperature, specific conductivity, and redox potential. Samples collected for laboratory analysis were analyzed for VOCs and total organic carbon (TOC) by EPA Method 415.1 at DQO Level II. Monitoring details are provided in Section 6.0 Implementation and Monitoring of Remediation System of this report. See Figure 6 - Groundwater Monitoring Plan for locations of monitoring wells. The analytical results from the groundwater sampling from these wells will be used to evaluate the progress of the east off-Site area bioremediation system.

6.0 IMPLEMENTATION AND MONITORING OF REMEDIATION SYSTEM

The project goal is to ensure continued operation of the groundwater remediation system and to maintain and operate it in the most efficient manner possible.

6.1 AS/SVE SYSTEMS

Operational parameters and performance data, maintenance activities, operational evaluation, and recommendations/future activities for each on-Site source area of the AS/SVE System are detailed below. O&M Logs from April through June 2010 are provided in Attachment 1 and Operational Logs with performance data are provided in Attachment 2.

6.1.1 East System

As discussed in Section 6.1.1 of the Remediation System Evaluation Report, October through December 2005, dated February 14, 2006, KERAMIDA shut down the East System on January 30, 2006. This was based on four consecutive quarters of groundwater VOC concentrations below Indiana VRP Tier II Non-Residential Cleanup Goals. Monitoring of groundwater VOC concentrations was conducted in December 2006/January 2007. As discussed in Section 6.4.1 East System and Associated Monitoring Wells, for the 18th quarter, following the shut down of active remediation, all groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals in MW-150. VOC concentrations in groundwater at MW-10-1R are currently below their respective Indiana VRP Tier II Non-Residential Cleanup Goals.

KERAMIDA recommends that quarterly groundwater monitoring activities continue as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.2 Northwest System

As discussed in Section 6.1.2 of the Remediation System Evaluation Report, January through March 2004, dated June 29, 2004, the Northwest System was shut down in late December 2003. Prior to the shut down, historical analytical results of the monitoring wells associated with the Northwest System were reviewed. For the third consecutive quarter, all concentrations were below the Indiana VRP Tier II Non-Residential Cleanup Goals. Because of the trend at the Northwest System and the need to continually operate the Southwest System, the Northwest System was shut down and vacuum application to its SVE wells was then re-directed through the Southwest System SVE blower on December 29, 2003. This configuration was operational from the re-starting of the Southwest System on December 30, 2003 through August 29, 2006.

Operation of the Northwest System SVE wells through the Southwest System SVE blower ended when extraction wells SVE-1 through 7, sparging points AS-1 through 7, monitoring wells MW-132, 147A and 148 and process piping associated with the Northwest System were abandoned and removed as excavation activities were conducted in this area. These activities are detailed in a Remedial Assessment and Soil Excavation Report dated July 23, 2007. Replacement monitoring wells MW-132R, 147AR and 148R were installed and developed following excavation activities on October 10 and 11, 2006.

As discussed in Section 6.4.2 Northwest System and Associated Monitoring Wells, groundwater VOC concentrations are currently below the Indiana VRP Tier II Non-Residential Cleanup Goals, except for vinyl chloride in MW-148R.

KERAMIDA recommends that quarterly groundwater monitoring activities continue as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.3 Southwest System

Operation and Performance

The Southwest System began operating in July 2001 and through June 22, 2010, the SVE blower has operated for 61,268 hours and the AC unit has operated for 58,305 hours. The system operated 85% of the time from April through June 2010.

Various operational and performance data were collected during these O&M visits. The data collected were documented on the O&M and Operational Logs. Tasks completed during the O&M visits are as follows:

- Weekly operational measurements from AS and SVE systems.
- Monthly collection of effluent vapor samples for VOC analysis.
- Adjustments to the applied vacuum and pressures at the vapor extraction and air sparging points were completed to optimize performance.
- A performance data collection event (May 19, 2010) to collect observed, applied, and induced vacuum and pressures and groundwater mounding. These performance data were collected at various vapor extraction wells, air sparging points, and monitoring points.
- Quarterly collection of groundwater samples for VOC analysis from monitoring wells, MW-133R and 153 was completed in May 2010.

The data from the 2001 and 2002 operational and performance data collection events were used to determine optimal operating conditions and associated system performance for the Southwest System. The design operating conditions, and associated system performance were determined by pilot-scale testing; therefore, optimal operating conditions and performance were established based on the evaluation of actual full-scale system conditions and performance. The data collected during the current monitoring period were compared to both the design and optimal operating conditions and performance. The following table summarizes design, optimal and current operating conditions and associated system performance information.

Parameter	Design Conditions and Performance	Optimal Conditions and Performance	Current Conditions and Performance
SVE Wells	45 inches of H ₂ O vacuum/well 28 foot Radius of Influence (ROI)	15-20 inches of H ₂ O 25 foot ROI	8-inches of H ₂ O 25 foot ROI
SVE Blower	70 inches of H ₂ O vacuum at inlet 1,000cfm of influent air flow	35-40 inches of H ₂ O 200-250cfm	13.5-14 inches of H ₂ O 1,000cfm
AS Wells	10psi at 10cfm/well 20 foot ROI	5psi at 5cfm/well 20-foot ROI	8psi at 6-8cfm/well 20 foot ROI
Air Compressor	100psi at outlet (40psi at regulator)	100psi at outlet (25-30psi at regulator)	105-110psi at outlet (40psi at regulator)

A layout of each AS/SVE System with current AS and SVE ROI information is provided in Figure 4 - Remediation System Layout with Utilities.

Southwest System vapor discharge rates, for each vapor sampling event, were determined by using vapor sampling analytical data and flow measurements taken from the effluent stack. Time periods were determined based on the occurrence of vapor sampling events with associated SVE operational hours. Using these data, KERAMIDA estimates 2.09 pounds of VOC vapors have been removed from the subsurface by the Southwest System during the current monitoring period. Copies of VOC vapor discharge calculations and analytical reports are provided in Attachment 3.

As discussed in Section 4.0 Remediation System Overview, the Final RWP also identified a plan to extend the western source area AS/SVE System to remediate a VOC soil “hot spot.” Expansion included the installation of the four nested SVE wells, associated subsurface piping, and their connection to the AS/SVE System during the period of August 25 through September 18, 2003. This configuration was operational through August 29, 2006. Operation through these four nested SVE wells ended when they were abandoned and removed as excavation activities were conducted in this area. These activities are detailed in a Remedial Assessment and Soil Excavation Report dated July 23, 2007.

Evaluation

Differences between the designed, optimal, and actual conditions and performance of the SVE portion of the Southwest System are evident. The design calls for an applied vacuum per well of 45 inches of H₂O column to induce a ROI of approximately 28 feet. Optimal conditions indicate a significantly lower applied vacuum/well of 15-20 inches of H₂O column, resulting in an ROI of

approximately 25 feet, while current conditions result in the same ROI using an applied vacuum of approximately 8-inches of H₂O column. The spacing between SVE wells is approximately 30-40 feet, thus providing an overlap of actual ROIs. The SVE blower is operating at a significantly lower vacuum and flow than designed; this is partially a result of SVE blower throttling and subsurface conditions.

Differences also are evident between the designed, optimal, and actual conditions and performance of the AS portion of the Southwest System. The design calls for an injection of 10 cubic feet per minute (cfm) of air at pressure of 10 pounds per square inch (psi) to achieve a ROI of approximately 20 feet. Optimal conditions indicate an injection of 5 cfm at 5 psi also can achieve an ROI of approximately 20 feet. Current conditions indicate a ROI of approximately 20 feet is achieved at an injection rate of 6 cfm at 8 psi. The spacing between AS wells is approximately 25-30 feet, providing an overlap of actual ROIs. The AC unit is operating as designed; however, because of lower injection rates, the pressure has been set lower.

The purpose of the remediation system is the treatment of VOC-impacted groundwater. Vapor discharge data and calculations indicate that 2.09 pounds of VOC vapors have been removed from the subsurface by the Southwest System during the current monitoring period with a total of 173.78 pounds of VOC vapors removed since initiation in July 2001. This low vapor recovery was expected because of the low dissolved VOC concentrations in the groundwater.

Monitoring of groundwater VOC concentrations was conducted in May 2010. The reduction of these concentrations is a direct means of evaluating remediation progress. As discussed in Section 6.4.3 Southwest System and Associated Monitoring Wells, for the 7th consecutive quarter, groundwater VOC concentrations are below Indiana VRP Tier II Non-Residential Cleanup Goals.

Recommendations

As discussed in Section 6.8 of the Remediation System Evaluation Report, January through March 2010, dated June 24, 2010, KERAMIDA recommended the suspension of continued operation of the Southwest System based on groundwater analytical results and a groundwater plume stability evaluation. This was discussed with and agreed to by the IDEM on March 3, 2010 during a project meeting held between the IDEM, Genuine Parts and KERAMIDA. The On June 22, 2010, the Southwest System was shut down.

KERAMIDA recommends that quarterly groundwater monitoring activities continue as described in Section 5.3 Selective On-Site Groundwater Monitoring.

6.1.4 Liquid Waste Management

Liquid wastes were generated by the drainage of condensate from the vapor extraction blower knock-outs and during groundwater sampling. A 400-gallon poly tank was used to store these liquids. Liquid Waste Removal, Inc. of Indianapolis, Indiana, removes and hauls condensate and groundwater generated for treatment/disposal at Perma-Fix located in Dayton, Ohio, in accordance with applicable federal, state, and local regulations. A total of 7,715-gallons of condensate waters have been disposed of since start-up in July 2001.

6.2 PHYTOREMEDIATION SYSTEM

KERAMIDA conducted monthly inspections during the current monitoring period. Monthly inspections indicated that the majority of poplar trees were intact and stable. Copies of the inspections are found in Attachment 4.

The first round of leaf tissue and transpiration gas sampling and analyses for 2010 was completed from three randomly selected trees in the eastern, central, and western areas of the two poplar tree lines. Leaf tissue and transpiration gas sampling were completed on June 30, 2010. Leaf tissue and transpiration gas analytical results indicated VOCs in all three samples were below laboratory detection levels. Copies of these laboratory analytical reports are provided in Attachment 4.

6.3 EAST OFF-SITE AREA BIOREMEDIATION SYSTEM

Four full-scale injections have been implemented. The first was conducted from July 19 through 21, 2004, the second on October 19, 2004, the third on October 24 and 25, 2006 and the fourth on December 10 and 11, 2007. Prior to and following these injection events, groundwater monitoring was conducted from permanent injection wells IW-1 and 2, and monitoring wells MW-151, 156, 163, and 173.

In July 2004, approximately 1,800 gallons of tap water with 1,000 milligrams per liter (mg/L) TOC from corn syrup were injected into the subsurface via injection wells IW-1 and 2 and 10 push-probe points. This volume and concentration were chosen as sufficient to achieve the

target concentration of corn syrup across the entire treatment area of 120 feet by 30 feet. The injections were performed under minimal pressures (<5 pounds per square inch, psi).

In October 2004, based on results of groundwater monitoring data (July 2004 injection event), approximately 1,800 gallons of tap water with 10,000 mg/L TOC from corn syrup were injected into the subsurface via IW-1 and 2. This volume and concentration were chosen to provide a longer retention time for the corn syrup in the remediation area. The injections were again carried out under minimal pressures (<5 psi).

In October 2006, based on results of groundwater monitoring data indicating slowed reductive dechlorination rates, a third injection was completed. Approximately 1,800 gallons of tap water with 10,000 mg/L TOC from corn syrup were injected into the subsurface via IW-1 and 2. The injections were again carried out under minimal pressures (<5 psi).

Based on results of groundwater monitoring following the October 2006 injection event, a fourth injection was completed in December 2007. Approximately 1,800 gallons of tap water with 10,000 mg/L TOC from corn syrup were injected into the subsurface via IW-1 and two temporary injection wells (TIW-1 & 2). TIW-1 was located approximately 15-feet west of IW-1 and TIW-2 was located approximately 30-feet north and east of MW-173. Each point was injected with 600 gallons of the mixture.

6.4 SELECTIVE ON-SITE GROUNDWATER MONITORING

KERAMIDA conducted the quarterly collection of groundwater samples for field parameters and VOC analyses in May 2010 from MW-10-1R, 132R, 133R, 147AR, 148R, 150 and 153. Groundwater samples were collected from these on-Site monitoring wells using low-flow sampling equipment. All analytical results were compared to their respective Indiana VRP Tier II Non-Residential Cleanup Goals. Field parameter data are documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. A copy of the current laboratory analytical report is provided in Attachment 6. Current and historical analytical results for each system and its associated monitoring wells are evaluated in the following sections.

6.4.1 East System and Associated Monitoring Wells

MW-150 and MW-10-1R are associated with the eastern impacted groundwater plume that the East System was designed to remediate. For the 22nd consecutive quarter and the 18th quarter, following the shut down of active remediation, all groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals in MW-150. VOC concentrations in groundwater at MW-10-1R are currently below their respective Indiana VRP Tier II Non-Residential Cleanup Goals. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L).

6.4.2 Northwest System and Associated Monitoring Wells

MW-132R, MW-147AR, and MW-148R are associated with the western impacted groundwater plume that the Northwest System is designed to remediate. Current concentrations of VOCs in groundwater are below Indiana VRP Tier II Non-Residential Cleanup Goals, except for vinyl chloride in MW-148R. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L).

6.4.3 Southwest System and Associated Monitoring Wells

MW-133R and MW-153 are associated with the western impacted groundwater plume that the Southwest System is designed to remediate. For the 7th consecutive quarter, groundwater VOC concentrations are below the Indiana VRP Tier II Non-Residential Cleanup Goals. Current and historical analytical results were tabulated and can be found in Table 2a – Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L).

6.5 ON-SITE GROUNDWATER MONITORING

The next annual collection of groundwater samples for on-Site groundwater monitoring will be conducted in November 2010.

6.6 ON AND OFF-SITE GROUNDWATER MONITORING

KERAMIDA conducted the quarterly collection of groundwater samples for field parameters and VOC analyses in May 2010 from MW-10-1R, 132R, 146, 148R, 150, 151, 152, 153, 156, 157, 160, 161, 164, 165S, 165D, 166S, 166D, 167S, 167D, 169S, 169D, and 302. Prior to the sampling event, MW-160 was redeveloped to remove mud and both MW-160 and 161 were extended, fitted with new concreted in well covers and resurveyed. Years of flooding, along Eagle Creek where the two wells are located, had washed away the well covers and deposited silt

over the wells, thereby raising the stream bank elevation. Groundwater samples were collected from these monitoring wells using low flow sampling equipment. All groundwater concentrations are within historical values.

Field parameter data are documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. Current and historical analytical results were tabulated and can be found in Table 2a - Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L) and Table 2b - Deep Monitoring Well Groundwater Analytical Results for VOCs (µg/L). A copy of the current laboratory analytical report is provided in Attachment 6.

Shallow and deep groundwater level data from the gauging event, indicate that groundwater was flowing in a southerly direction, as depicted on Figure 7 - Groundwater Potentiometric Surface Map - Shallow Wells, May 2010 and Figure 8 - Groundwater Potentiometric Surface Map - Deep Wells, May 2010.

6.7 EAST OFF-SITE AREA BIOREMEDIATION GROUNDWATER MONITORING

KERAMIDA conducted the collection of groundwater samples for field parameters and VOC and TOC analyses in May 2010 from IW-1, IW-2, MW-151, 156, 163, and MW-173. Groundwater samples were collected from these monitoring wells using low flow sampling equipment. Historical and current field parameter data were tabulated and can be found in Table 3 - East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results. Current field parameter data was documented on Groundwater Sample Information Sheets provided in Attachment 5. Historical and current groundwater elevations were tabulated and can be found in Table 1 – Water Level Data Summary. Current and historical analytical results were tabulated and can be found in Table 2a - Shallow Monitoring Well Groundwater Analytical Results for VOCs (µg/L), and Table 3 - East Off-Site Bioremediation Field Parameter and Select Groundwater Analytical Results. Copies of the current laboratory analytical reports are provided in Attachment 6.

7.0 USE OF REPORT

This report has been prepared for the exclusive use of the Client and persons or organizations to whom the Client wishes to make this report available. This report and the findings, conclusions

and recommendations contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, or used by or relied upon by any other party, without the prior written consent of KERAMIDA.

8.0 LIMITATIONS

This report was prepared in accordance with KERAMIDA contractual guidelines set forth for remediation services. KERAMIDA's professional opinions contained herein are based upon the operation, maintenance, and monitoring/sampling conducted by KERAMIDA personnel during the operation of the remediation system. No other warranty is given or implied by this report.

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

TABLES

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
Shallow Wells							
MW10-1	714.04	--	7-17	--	7/14/1995	14.07	699.97
					9/11/1995	14.25	699.79
					2/5/1997	12.75	701.29
					11/22/1999	14.53	699.51
					2/28/2000	14.37	699.67
	713.71	712.30	7-17	705.30-695.30	11/7/2000	14.62	699.09
					7/24/2001	14.40	699.31
					1/30/2002	14.25	699.46
					7/19/2002	13.45	700.26
					5/7/2003	11.21	699.36
MW-10-1R	714.00	711.75	7-17	704.75-694.75	12/3/2003	14.35	699.65
					3/3/2004	14.40	699.60
					3/10/2004	11.73	702.27
					6/2/2004	14.31	699.69
					12/20/2004	10.40	703.60
					3/16/2005	14.26	699.74
					6/13/2005	14.34	699.66
					9/21/2005	15.35	698.65
					12/5/2005	15.31	698.69
					1/30/2006	14.50	699.50
					3/13/2006	13.40	700.60
					6/12/2006	14.50	699.50
					10/13/2006	14.94	699.06
					12/20/2006	14.43	699.57
					3/19/2007	13.20	700.80
					7/2/2007	14.58	699.42
					9/6/2007	15.07	698.93
					11/27/2007	15.10	698.90
					3/19/2008	14.25	699.75
					5/28/2008	14.15	699.85
					9/22/2008	14.80	699.20
					12/1/2008	15.09	698.91
					3/11/2009	14.66	699.34
					6/16/2009	13.22	700.78
					9/14/2009	15.01	698.99
					11/2/2009	Inaccessible	
					1/26/2010	14.89	699.11
					5/19/2010	14.68	699.32
MW-132	712.17	--	10-20	--	7/14/1995	11.39	700.78
					9/11/1995	11.49	700.68
					2/5/1997	10.25	701.92
					2/26/1997	11.17	701.00
					11/22/1999	12.15	700.02
					2/28/2000	10.76	701.41
	712.19	712.70	10-20	702.70-692.70	11/7/2000	dry	NA
	712.22	712.57	10-20	702.57-692.57	7/24/2001	11.72	700.50
					1/30/2002	11.97	700.25
					7/22/2002	11.98	700.24
					5/7/2003	11.35	700.87
					12/3/2003	11.72	700.50
					3/10/2004	11.46	700.76
					6/2/2004	11.09	701.13
					9/14/2004	12.50	699.72
					12/20/2004	11.95	700.27
					3/16/2005	11.75	700.47
					6/13/2005	11.51	700.71
					9/21/2005	11.90	700.32
					12/5/2005	12.35	699.87
					1/30/2006	11.55	700.67
					3/13/2006	9.65	702.57
					6/12/2006	11.61	700.61
MW-132R	711.74	712.12	9.5-19.5	702.62-692.62	10/13/2006	11.81	699.93
					12/20/2006	11.24	700.50
					3/19/2007	9.91	701.83
					7/2/2007	11.61	700.13
					9/6/2007	11.93	699.81
					11/27/2007	11.73	700.01

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-132R (cont'd.)	711.74	712.12	9.5-19.5	702.62-692.62	3/19/2008	11.00	700.74
					5/28/2008	11.10	700.64
					9/22/2008	11.84	699.90
					12/1/2008	11.90	699.84
					3/11/2009	12.50	699.24
					6/16/2009	10.34	701.40
					9/14/2009	12.03	699.71
					11/2/2009	11.25	700.49
					1/26/2010	11.48	700.26
					5/19/2010	11.32	700.42
MW-133	708.79	--	8-18	--	9/11/1995	8.84	699.95
					2/5/1997	7.29	701.50
					11/22/1999	8.34	700.45
					2/28/2000	8.61	700.18
					11/7/2000	NA	
MW-133R	709.03	--	7-17	--	12/4/2003	9.76	699.27
					3/10/2004	9.19	699.84
					6/2/2004	8.95	700.08
					9/14/2004	9.93	699.10
					12/20/2004	9.74	699.29
					3/16/2005	9.39	699.64
					6/13/2005	9.29	699.74
					9/21/2005	9.74	699.29
					12/5/2005	9.34	699.69
					1/30/2006	9.15	699.88
					3/13/2006	7.85	701.18
					6/12/2006	9.15	699.88
					10/13/2006	9.93	699.10
					12/20/2006	9.40	699.63
					3/19/2007	7.09	701.94
					7/2/2007	9.81	699.22
					9/6/2007	10.25	698.78
					11/27/2007	9.77	699.26
					3/19/2008	9.22	699.81
					5/28/2008	9.00	700.03
					9/22/2008	9.62	699.41
					12/1/2008	10.24	698.79
					3/11/2009	9.68	699.35
					6/16/2009	5.87	703.16
					9/14/2009	10.22	698.81
					11/2/2009	9.51	699.52
					1/26/2010	9.72	699.31
					5/19/2010	9.56	699.47
MW-135	713.69	--	10-20	--	7/14/1995	13.26	700.43
					9/11/1995	13.66	700.03
					2/5/1997	11.96	701.73
					2/26/1997	12.47	701.22
					11/22/1999	14.20	699.49
					2/28/2000	14.05	699.64
	713.70	714.10	10-20	704.10-694.10	11/7/2000	14.12	699.58
					6/20/2001	13.85	699.85
					7/24/2001	13.67	700.03
					1/30/2002	13.80	699.90
					7/15/2002	12.05	701.65
					12/3/2003	13.01	700.69
					3/10/2004	12.97	700.73
					6/2/2004	12.35	701.35
					9/14/2004	13.62	700.08
					12/20/2004	13.40	700.30
					3/16/2005	12.56	701.14
					6/13/2005	12.86	700.84
					9/21/2005	13.83	699.87
					12/5/2005	12.42	701.28
					1/30/2006	13.35	700.35
					3/13/2006	12.00	701.70
					6/12/2006	12.60	701.10
					10/13/2006	13.71	699.99
					12/20/2006	13.04	700.66

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-135 (cont'd.)	713.70	714.10	10-20	704.10-694.10	3/19/2007	11.57	702.13
					7/2/2007	13.02	700.68
					9/6/2007	13.79	699.91
					11/27/2007	14.17	699.53
					3/19/2008	12.88	700.82
					5/28/2008	12.32	701.38
					9/22/2008	13.31	700.39
					12/1/2008	13.91	699.79
					3/11/2009	13.44	700.26
					6/16/2009	11.49	702.21
					9/14/2009	13.51	700.19
					11/2/2009	13.35	700.35
					1/26/2010	13.95	699.75
MW-145	707.90	--	18-28	--	5/19/2010	13.48	700.22
					7/14/1995	8.85	699.05
					9/11/1995	8.85	699.05
					2/5/1997	7.43	700.47
					11/22/1999	9.10	699.80
	707.94	709.00	18-28	691.00-681.00	2/28/2000	8.62	699.28
					11/7/2000	8.74	699.20
	707.98	708.64	18-28	690.64-680.64	6/21/2001	8.82	699.12
					7/24/2001	8.78	699.20
					1/30/2002	8.05	699.93
					7/22/2002	8.89	699.09
					12/4/2003	8.85	699.13
					3/10/2004	8.93	699.05
					6/2/2004	8.51	699.47
					9/14/2004	9.39	698.59
					12/20/2004	9.09	698.89
					3/16/2005	8.90	699.08
					9/21/2005	9.00	698.98
					12/5/2005	9.45	698.53
					1/30/2006	8.40	699.58
					3/13/2006	7.70	700.28
					6/12/2006	8.80	699.18
					10/13/2006	9.22	698.76
					12/20/2006	8.91	699.07
					3/19/2007	7.40	700.58
					7/2/2007	9.20	698.78
					9/6/2007	9.51	698.47
					11/27/2007	8.95	699.03
					3/19/2008	8.51	699.47
					5/28/2008	8.86	699.12
					9/22/2008	9.45	698.53
					12/1/2008	9.40	698.58
					9/14/2009	9.64	698.34
					11/2/2009	8.93	699.05
					1/26/2010	9.00	698.98
					5/19/2010	9.02	698.96
MW-146	708.67	--	15-25	--	7/14/1995	9.41	699.26
					9/11/1995	9.44	699.23
					2/5/1997	7.95	700.72
					11/22/1999	9.73	698.94
					2/28/2000	9.91	698.76
					11/7/2000	8.95	699.76
					6/21/2001	9.48	699.23
					7/24/2001	9.51	699.20
					1/30/2002	9.31	699.40
					7/15/2002	10.09	698.62
					12/3/2003	9.5	699.21
					12/19/2003	9.5	699.21
					3/10/2004	9.46	699.21
					6/2/2004	9.12	699.55
					12/20/2004	9.76	698.91
					3/16/2005	9.46	699.21
					6/13/2005	9.34	699.33
					9/21/2005	9.45	699.22
					12/5/2005	8.44	700.23
					1/30/2006	9.20	699.47

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-146 (cont'd.)	708.67	--	15-25	--	3/13/2006	8.40	700.27
					6/12/2006	9.48	699.19
					10/13/2006	9.89	698.78
					12/20/2006	9.56	699.11
					3/19/2007	8.38	700.29
					7/2/2007	9.71	698.96
					9/6/2007	10.06	698.61
					11/27/2007	9.81	698.86
					3/19/2008	9.23	699.44
					5/28/2008	9.32	699.35
					9/22/2008	10.01	698.66
					12/1/2008	9.98	698.69
					3/11/2009	9.68	698.99
					6/19/2009	8.75	699.92
					9/14/2009	10.27	698.40
MW-147	711.88	--	20-30	--	11/2/2009	9.66	699.01
					1/26/2010	9.80	698.87
					5/19/2010	9.66	699.01
					7/14/1995	11.09	700.79
					9/11/1995	11.20	700.68
MW-147A	711.61	712.07	20-30	691.60-681.60 692.07-682.07	2/5/1997	9.91	701.97
					11/22/1999	11.49	700.39
					2/28/2000	11.44	700.44
					11/7/2000	11.40	700.13
					6/21/2001	12.46	699.15
					7/24/2001	11.22	700.39
					1/30/2002	11.34	700.27
					7/22/2002	11.06	700.55
					5/7/2003	11.50	700.11
					12/3/2003	11.14	700.47
					3/10/2004	10.79	700.82
					6/2/2004	10.45	701.16
					9/14/2004	11.76	699.85
					12/20/2004	11.35	700.26
					3/16/2005	11.19	700.42
					6/13/2005	11.98	699.63
					9/21/2005	11.33	700.28
					12/5/2005	11.66	699.95
					1/30/2006	10.89	700.72
					3/13/2006	9.00	702.61
MW-147AR	711.71	712.03	20-30	692.03-682.03	10/13/2006	11.70	700.01
					12/20/2006	11.19	700.52
					3/19/2007	9.85	701.86
					7/2/2007	11.59	700.12
					9/6/2007	12.00	699.71
					11/27/2007	11.70	700.01
					3/19/2008	10.95	700.76
					5/28/2008	11.00	700.71
					9/22/2008	11.89	699.82
					12/1/2008	11.81	699.90
					3/11/2009	11.43	700.28
					6/16/2009	10.27	701.44
					9/14/2009	11.95	699.76
					11/2/2009	11.21	700.50
					1/26/2010	12.40	699.31
					5/19/2010	11.26	700.45
MW-148	711.00	--	10.5-25.5	--	7/14/1995	10.43	700.57
					9/11/1995	10.50	700.50
					2/5/1997	8.25	702.75
					2/26/1997	10.15	700.85
					11/22/1999	11.50	699.50
					2/28/2000	10.36	700.64
					11/7/2000	10.90	700.14
					6/21/2001	10.73	700.31
					7/24/2001	10.55	700.52
					1/30/2002	10.73	700.34
					7/22/2002	11.31	699.76
					5/7/2003	11.25	699.82
					12/3/2003	10.31	700.76

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-148 (cont'd.)	711.07	712.00	10.5-25.5	701.50-686.50	3/10/2004	10.16	700.91
					6/2/2004	10.11	700.96
					9/14/2004	11.40	699.67
					12/20/2004	11.02	700.05
					3/16/2005	10.89	700.18
					6/13/2005	10.65	700.42
					9/21/2005	10.82	700.25
					12/5/2005	10.71	700.36
					1/30/2006	10.53	700.54
					3/13/2006	8.70	702.37
MW-148R	711.44	711.94	10.5-25.5	701.44-686.44	6/12/2006	10.80	700.27
					10/13/2006	11.71	699.73
					12/20/2006	11.17	700.27
					3/19/2007	9.66	701.78
					7/2/2007	11.57	699.87
					9/6/2007	11.90	699.54
					11/27/2007	11.55	699.89
					3/19/2008	10.94	700.50
					5/28/2008	11.00	700.44
					9/22/2008	11.75	699.69
					12/1/2008	11.73	699.71
					3/11/2009	11.36	700.08
					6/16/2009	10.33	701.11
					9/14/2009	11.95	699.49
					11/2/2009	11.17	700.27
					1/26/2010	11.32	700.12
					5/19/2010	11.23	700.21
MW-150	712.93	--	4-19	--	9/11/1995	13.30	699.63
					2/5/1997	11.75	701.18
					11/22/1999	13.57	699.36
					2/28/2000	13.50	699.43
	712.90	713.30	4-19	709.30-694.30	11/7/2000	13.80	699.10
					6/20/2001	13.51	699.39
	712.96	713.38	4-19	709.38-694.38	7/24/2001	12.88	700.08
					1/30/2002	13.76	699.20
					7/19/2002	12.18	700.78
					5/7/2003	11.85	701.11
					12/3/2003	12.85	700.11
					3/3/2004	12.28	700.68
					3/10/2004	13.00	699.96
					6/2/2004	12.17	700.79
					9/14/2004	13.35	699.61
					12/20/2004	13.65	699.31
					3/16/2005	11.31	701.65
					6/13/2005	13.11	699.85
					9/21/2005	12.66	700.30
					12/5/2005	13.12	699.84
					1/30/2006	13.20	699.76
					3/13/2006	12.10	700.86
					6/12/2006	12.55	700.41
					10/13/2006	11.42	701.54
					12/20/2006	12.87	700.09
					3/19/2007	11.59	701.37
					7/2/2007	12.98	699.98
					9/6/2007	13.57	699.39
					11/27/2007	13.78	699.18
					3/19/2008	12.11	700.85
					5/28/2008	12.33	700.63
					9/22/2008	13.21	699.75
					12/1/2008	13.64	699.32
					3/11/2009	13.22	699.74
					6/16/2009	11.65	701.31
					9/14/2009	13.40	699.56
					11/2/2009	13.13	699.83
					1/26/2010	13.50	699.46
					5/19/2010	13.16	699.80

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-151	712.96	--	5-20	--	7/14/1995	13.93	699.03
					9/11/1995	14.04	698.92
					2/5/1997	12.80	700.16
					11/22/1999	13.97	698.99
					2/28/2000	13.94	699.02
	712.93	713.20	5-20	708.20-693.20	11/7/2000	14.15	698.78
					6/20/2001	13.98	698.95
					7/24/2001	13.88	699.05
					1/30/2002	13.80	699.13
					7/18/2002	13.46	699.47
					12/4/2003	13.85	699.08
					3/3/2004	13.72	699.21
					6/2/2004	13.44	699.49
					7/16/2004	13.98	698.95
					8/16/2004	14.25	698.68
					9/14/2004	14.41	698.52
					10/18/2004	14.29	698.64
					11/19/2004	14.21	698.72
					12/20/2004	14.15	698.78
					1/24/2005	10.85	702.08
					3/16/2005	13.70	699.23
					6/13/2005	12.82	700.11
					9/21/2005	14.05	698.88
					12/5/2005	13.12	699.81
					1/30/2006	13.70	699.23
					3/13/2006	13.00	699.93
					6/12/2006	13.75	699.18
					10/13/2006	14.30	698.63
					11/21/2006	13.77	699.16
					12/20/2006	13.95	698.98
					1/19/2007	12.71	700.22
					3/19/2007	12.71	700.22
					9/6/2007	14.50	698.43
					11/27/2007	14.40	698.53
					3/19/2008	13.65	699.28
					5/28/2008	13.66	699.27
					9/22/2008	14.33	698.60
					12/1/2008	14.48	698.45
					3/11/2009	14.11	698.82
					6/16/2009	13.12	699.81
					9/14/2009	15.66	697.27
					11/2/2009	13.06	699.87
					1/26/2010	14.25	698.68
					5/19/2010	14.05	698.88
MW-152	713.06	--	5-20	--	7/14/1995	13.45	699.61
					9/11/1995	13.57	699.49
					2/5/1997	12.21	700.85
					2/26/1997	12.92	700.14
					11/22/1999	13.90	699.16
	712.93	713.20	5-20	708.20-693.20	2/28/2000	13.38	699.68
					11/7/2000	13.84	699.09
					6/20/2001	13.64	699.29
					7/24/2001	13.54	699.39
					1/30/2002	13.46	699.47
					7/15/2002	12.89	700.04
					12/3/2003	13.31	699.62
					3/10/2004	13.30	699.63
					6/2/2004	12.79	700.14
					9/14/2004	14.01	698.92
					12/20/2004	13.67	699.26
					3/6/2005	13.29	699.64
					6/13/2005	13.21	699.72
					9/21/2005	13.86	699.07
					12/5/2005	13.32	699.61
					1/30/2006	13.30	699.63
					3/13/2006	12.25	700.68
					6/12/2006	13.30	699.63
					10/13/2006	13.98	698.95
					12/20/2006	13.84	699.09

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-152 (cont'd.)	712.93	713.20	5-20	708.20-693.20	3/19/2007	12.31	700.62
					7/2/2007	13.70	699.23
					9/6/2007	14.18	698.75
					11/27/2007	14.01	698.92
					3/19/2008	13.32	699.61
					5/28/2008	13.23	699.70
					9/22/2008	13.95	698.98
					12/1/2008	14.12	698.81
					3/11/2009	13.79	699.14
					6/16/2009	12.68	700.25
					9/14/2009	14.22	698.71
					11/2/2009	13.67	699.26
					1/26/2010	13.95	698.98
MW-153	711.64	709.31	4.5-19.5	704.81-689.81	5/19/2010	13.78	699.15
					7/14/1995	11.77	699.87
					9/11/1995	11.76	699.88
					2/5/1997	9.78	701.86
					2/26/1997	11.14	700.50
					11/22/1999	12.25	699.39
					2/28/2000	11.26	700.38
					11/7/2000	12.15	699.52
					6/21/2001	11.95	699.72
					7/24/2001	11.92	699.75
					1/30/2002	11.83	699.84
					7/22/2002	11.82	699.85
					12/3/2003	12.36	699.31
					3/10/2004	11.44	700.20
					6/2/2004	11.49	700.15
					9/14/2004	12.81	698.83
					12/20/2004	12.68	698.96
					3/16/2005	10.76	700.88
					6/13/2005	8.98	702.66
					9/21/2005	12.16	699.48
					12/5/2005	9.21	702.43
					1/30/2006	12.70	698.94
					3/13/2006	11.25	700.39
					6/12/2006	11.90	699.74
					10/13/2006	12.79	698.85
					12/20/2006	12.07	699.57
					3/19/2007	10.18	701.46
					7/2/2007	12.47	699.17
					9/6/2007	13.07	698.57
					11/27/2007	12.29	699.35
					3/19/2008	12.30	699.34
					5/28/2008	13.00	698.64
					9/22/2008	11.46	700.18
					12/1/2008	12.65	698.99
					3/11/2009	11.98	699.66
					6/16/2009	11.42	700.22
					9/14/2009	13.83	697.81
					11/2/2009	12.05	699.59
					1/26/2010	11.50	700.14
					5/19/2010	12.52	699.12
MW-154	714.22	--	5-20	--	7/14/1995	13.31	700.91
					9/11/1995	13.42	700.80
					2/5/1997	12.17	702.05
					2/26/1997	13.07	701.15
					11/22/1999	14.11	700.11
					2/28/2000	13.38	700.84
	714.26	711.60	5-20	706.60-691.60	11/7/2000	14.02	700.24
					6/21/2001	13.79	700.47
					7/24/2001	13.77	700.49
					1/30/2002	13.88	700.38
					7/22/2002	13.37	700.89
					12/3/2003	13.57	700.69
					3/10/2004	13.41	700.85
					6/2/2004	13.44	700.82

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-154 (cont'd.)	714.26	711.60	5-20	706.60-691.60	9/14/2004	14.25	700.01
					12/20/2004	13.51	700.75
					3/16/2005	13.64	700.62
					6/13/2005	13.35	700.91
					9/21/2005	13.82	700.44
					12/5/2005	14.15	700.11
					1/30/2006	13.45	700.81
					3/13/2006	11.50	702.76
					6/12/2006	13.40	700.86
					10/13/2006	14.10	700.16
					12/20/2006	13.61	700.65
					3/19/2007	12.31	701.95
					7/2/2007	13.98	700.28
					9/6/2007	14.29	699.97
					11/27/2007	14.11	700.15
					3/19/2008	13.32	700.94
					5/28/2008	13.45	700.81
					9/22/2008	14.15	700.11
					12/1/2008	14.25	700.01
					3/11/2009	13.86	700.40
					6/16/2009	12.71	701.55
					9/14/2009	14.34	699.92
					11/2/2009	13.65	700.61
					1/26/2010	13.87	700.39
					5/19/2010	13.70	700.56
MW-156	711.69	712.05	5-20	707.05-692.05	9/11/1995	12.21	699.48
					2/5/1997	10.65	701.04
					11/22/1999	12.52	699.17
					2/28/2000	12.41	699.28
					11/7/2000	12.66	699.06
					6/20/2001	12.43	699.29
					7/24/2001	12.35	699.37
					1/30/2002	12.25	699.47
					7/18/2002	11.46	700.26
					12/4/2003	11.97	699.75
					3/10/2004	11.82	699.87
					6/2/2004	11.48	700.21
					7/16/2004	12.09	699.60
					8/16/2004	12.36	699.33
					9/14/2004	12.55	699.14
					10/18/2004	12.54	699.15
					11/19/2004	12.40	699.29
					12/20/2004	12.40	699.29
					1/24/2005	10.65	701.04
					3/16/2005	11.77	699.92
					6/13/2005	11.61	700.08
					9/21/2005	12.42	699.27
					12/5/2005	12.71	698.98
					1/30/2006	12.10	699.59
					3/13/2006	11.15	700.54
					6/12/2006	11.70	699.99
					10/13/2006	12.51	699.18
					11/21/2006	11.87	699.82
					12/20/2006	12.09	699.60
					1/19/2007	10.53	701.16
					3/19/2007	10.76	700.93
					7/2/2007	12.10	699.59
					9/6/2007	12.63	699.06
					11/27/2007	12.70	698.99
					3/19/2008	11.82	699.87
					5/28/2008	11.60	700.09
					9/22/2008	12.35	699.34
					12/1/2008	12.70	698.99
					3/11/2009	12.31	699.38
					6/19/2009	10.95	700.74
					9/14/2009	12.57	699.12
					11/2/2009	12.21	699.48
					1/26/2010	12.51	699.18
					5/19/2010	12.28	699.41

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-157	711.30	--	5-20	--	2/5/1997	10.71	700.59
					2/26/1997	11.14	700.16
					2/28/2000	12.40	698.90
	711.27	711.50	5-20	706.50-691.50	11/7/2000	12.55	698.72
					6/21/2001	12.34	698.93
					7/24/2001	12.17	699.10
					1/30/2002	12.18	699.09
					7/19/2002	11.10	700.17
					12/4/2003	11.80	699.47
					3/3/2004	10.62	700.65
					3/10/2004	11.66	699.61
					6/2/2004	12.94	698.33
					9/14/2004	12.57	698.70
					12/20/2004	12.19	699.08
					3/16/2005	11.57	699.70
					6/13/2005	11.67	699.60
					9/21/2005	12.35	698.92
					6/12/2006	11.60	699.67
					10/13/2006	12.42	698.85
					12/20/2006	11.81	699.46
					3/19/2007	10.59	700.68
					7/2/2007	11.95	699.32
					9/6/2007	12.53	698.74
					11/27/2007	12.81	698.46
					3/19/2008	11.73	699.54
					5/28/2008	11.34	699.93
					9/22/2008	12.18	699.09
					12/1/2008	12.63	698.64
					3/12/2009	12.20	699.07
					9/14/2009	12.31	698.96
					11/2/2009	12.15	699.12
					1/26/2010	12.49	698.78
					5/19/2010	12.21	699.06
MW-159	710.00	710.40	NA	NA	2/28/2000	11.19	698.81 ⁽³⁾
					11/7/2000	11.47	698.53
					6/21/2001	11.43	698.57
					7/24/2001	11.36	698.64
					1/30/2002	11.22	698.78
					7/19/2002	12.13	697.87
					3/10/2004	12.15	697.85
					6/2/2004	11.94	698.06
					9/21/2005	12.20	697.80
					1/30/2006	11.90	698.10
					3/15/2006	11.35	698.65
					6/12/2006	12.40	697.60
					10/13/2006	14.69	695.31
					12/20/2006	17.32	692.68
					3/19/2007	11.13	698.87
					7/2/2007	12.67	697.33
					9/6/2007	12.53	697.47
					11/27/2007	12.50	697.50
					3/19/2008	11.88	698.12
					5/28/2008	12.28	697.72
					9/22/2008	13.00	697.00
					12/1/2008	12.83	697.17
					3/11/2009	12.32	697.68
					6/16/2009	11.89	698.11
					9/14/2009	12.97	697.03
					11/2/2009	12.46	697.54
					1/26/2010	12.45	697.55
					5/19/2010	12.41	697.59
MW-160	701.1 ⁽²⁾	701.35 ⁽²⁾	3-13	698.35-688.35	11/7/2000	2.17	698.93
					6/21/2001	1.95	699.15
					7/24/2001	2.16	698.94
					1/30/2002	1.78	699.32
					7/17/2002	2.31	698.79
					12/4/2003	2.58	698.52
					3/10/2004	2.55	698.55
					6/4/2004	2.26	698.84

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-160 (cont'd.)	701.1 ⁽²⁾	701.35 ⁽²⁾	3-13	698.35-688.35	9/14/2004	2.70	698.40
					12/20/2004	2.60	698.50
					3/16/2005	2.66	698.44
					6/13/2005	2.68	698.42
					9/23/2005	2.62	698.48
					12/5/2005	3.02	698.08
					1/30/2006	1.90	699.20
					4/5/2006	3.10	698.00
					6/12/2006	2.72	698.38
					10/13/2006	2.78	698.32
					12/20/2006	2.50	698.60
					3/19/2007	1.73	699.37
					7/2/2007	0.89	700.21
					9/6/2007	3.07	698.03
					11/27/2007	2.42	698.68
					3/19/2008	Under Water	
					5/28/2008	2.65	698.45
					9/22/2008	3.13	697.97
					12/1/2008	2.70	698.40
					3/11/2009	2.83	698.27
					3/13/2009	2.83	698.27
					11/2/2009	Full of Mud	
	702.35 ⁽⁴⁾	--	3-13	698.35-688.35	1/26/2010	3.65	698.70
					5/19/2010	4.00	698.35
MW-161	702.99 ⁽²⁾	703.38 ⁽²⁾	3-13	700.38-690.38	11/7/2000	4.01	698.98
					6/21/2001	3.69	699.30
					7/24/2001	4.02	698.97
					1/30/2002	3.58	699.41
					7/18/2002	4.17	698.82
					12/4/2003	3.10	699.89
					3/10/2004	1.07	701.92
					6/4/2004	2.83	700.16
					9/14/2004	4.20	698.79
					12/20/2004	4.26	698.73
					3/16/2005	4.06	698.93
					6/13/2005	4.81	698.18
					9/23/2005	4.00	698.99
					12/5/2005	4.71	698.28
					1/30/2006	3.60	699.39
					4/5/2006	4.90	698.09
					6/12/2006	4.32	698.67
					10/13/2006	4.38	698.61
					12/20/2006	4.11	698.88
					3/19/2007	1.07	701.92
					7/2/2007	1.75	701.24
					9/6/2007	4.82	698.17
					11/27/2007	2.02	700.97
					3/19/2008	Under Water	
					5/28/2008	4.15	698.84
					9/22/2008	4.50	698.49
					12/1/2008	4.30	698.69
					3/13/2009	4.26	698.73
					6/19/2009	3.77	699.22
					11/2/2009	4.08	698.91
	704.18 ⁽⁴⁾	--	3-13	700.38-690.38	1/26/2010	5.28	698.90
					5/19/2010	5.35	698.83
MW-163	712.36	712.90	10-20	702.90-692.90	11/7/2000	13.15	699.21
					6/20/2001	12.83	699.53
					7/24/2001	12.95	699.41
					1/30/2002	12.83	699.53
					7/18/2002	11.22	701.14
					7/16/2004	12.03	700.33
					8/16/2004	11.83	700.53
					10/18/2004	12.64	699.72
					11/19/2004	12.12	700.24
					12/20/2004	11.67	700.69
					1/24/2005	9.95	702.41
					3/16/2005	11.25	701.11
					6/13/2005	10.98	701.38

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-163 (cont'd.)	712.36	712.90	10-20	702.90-692.90	9/21/2005	11.80	700.56
					12/5/2005	11.54	700.82
					1/30/2006	11.65	700.71
					3/13/2006	10.75	701.61
					6/12/2006	11.33	701.03
					10/13/2006	12.18	700.18
					11/21/2006	11.19	701.17
					12/20/2006	11.54	700.82
					1/19/2007	10.11	702.25
					3/22/2007	10.35	702.01
					7/2/2007	11.50	700.86
					9/6/2007	12.13	700.23
					11/27/2007	12.65	699.71
					3/19/2008	11.00	701.36
					5/28/2008	10.95	701.41
					9/22/2008	11.50	700.86
					12/1/2008	12.24	700.12
					3/11/2009	11.72	700.64
					6/16/2009	10.23	702.13
					9/14/2009	12.01	700.35
MW-164	718.56	719.35	16-26	703.35-693.35	11/7/2000	19.87	695.69
					6/21/2001	19.67	698.89
					7/24/2001	19.47	696.09
					1/30/2002	19.45	699.11
					7/19/2002	17.97	700.59
					12/5/2003	18.75	699.81
					3/3/2004	18.56	700.00
					3/10/2004	18.60	699.96
					6/2/2004	19.52	699.04
					9/14/2004	19.42	699.14
					12/20/2004	19.28	699.28
					3/16/2005	18.29	700.27
					6/13/2005	18.78	699.78
					9/21/2005	19.60	698.96
					12/5/2005	18.82	699.74
					1/30/2006	19.50	699.06
					3/13/2006	18.45	700.11
					6/12/2006	19.50	699.06
					10/13/2006	19.39	699.17
					12/20/2006	18.80	699.76
					3/19/2007	17.54	701.02
					7/2/2007	18.84	699.72
					9/6/2007	19.53	699.03
					11/27/2007	20.02	698.54
					3/19/2008	18.75	699.81
					5/28/2008	18.15	700.41
					9/22/2008	19.06	699.50
					12/1/2008	19.61	698.95
					3/11/2009	19.24	699.32
					6/16/2009	17.43	701.13
MW-165S	712.54	712.88	10-20	702.88-692.88	9/14/2009	19.16	699.40
					11/2/2009	19.21	699.35
					1/26/2010	19.66	698.90
					5/19/2010	19.26	699.30
					6/21/2001	13.80	698.74
					7/24/2001	13.71	698.83
					1/30/2002	13.52	699.02
					7/18/2002	13.82	698.72
					12/5/2003	13.56	698.98
					3/10/2004	13.93	698.61
					6/2/2004	13.69	698.85
					9/14/2004	14.49	698.05
					12/20/2004	14.20	698.34
					3/16/2005	13.97	698.57
					6/13/2005	13.29	699.25
					9/21/2005	13.90	698.64

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-165S (cont'd.)	712.54	712.88	10-20	702.88-692.88	12/5/2005	14.35	698.19
					1/30/2006	13.60	698.94
					3/13/2006	13.00	699.54
					6/12/2006	13.95	698.59
					10/13/2006	18.35	694.19
					12/20/2006	13.94	698.60
					3/19/2007	12.82	699.72
					7/2/2007	14.43	698.11
					9/6/2007	14.07	698.47
					11/27/2007	15.13	697.41
					3/19/2008	13.55	698.99
					5/28/2008	13.93	698.61
					9/22/2008	14.63	697.91
					12/1/2008	14.45	698.09
					3/11/2009	13.99	698.55
					6/16/2009	13.56	698.98
					9/14/2009	14.59	697.95
					11/2/2009	14.09	698.45
					1/26/2010	14.15	698.39
					5/19/2010	13.95	698.59
MW-166S	712.99	713.38	10-20	703.38-693.38	7/24/2001	14.32	698.67
					1/30/2002	14.32	698.67
					7/18/2002	14.41	698.58
					12/19/2003	14.69	698.30
					3/10/2004	14.61	698.38
					6/2/2004	14.28	698.71
					9/14/2004	15.24	697.75
					12/20/2004	14.92	698.07
					3/16/2005	14.56	698.43
					6/13/2005	13.98	699.01
					9/21/2005	14.75	698.24
					12/5/2005	15.00	697.99
					1/30/2006	14.30	698.69
					3/13/2006	13.60	699.39
					6/12/2006	14.55	698.44
					10/13/2006	14.89	698.10
					12/20/2006	14.54	698.45
					3/19/2007	13.39	699.60
					7/2/2007	15.14	697.85
					9/6/2007	15.14	697.85
					11/27/2007	14.25	698.74
					3/19/2008	14.28	698.71
					5/28/2008	14.50	698.49
					9/22/2008	15.31	697.68
					12/1/2008	15.52	697.47
					3/11/2009	14.78	698.21
					6/16/2009	13.96	699.03
					9/14/2009	15.40	697.59
					11/2/2009	14.88	698.11
					1/26/2010	14.97	698.02
					5/19/2010	14.83	698.16
MW-167S	716.25	716.55	12-22	704.55-694.55	6/21/2001	17.99	698.26
					7/24/2001	17.81	698.44
					1/30/2002	17.90	698.35
					7/17/2002	17.74	698.51
					12/4/2003	18.12	698.13
					3/10/2004	18.00	698.25
					6/2/2004	17.71	698.54
					9/14/2004	18.75	697.50
					12/20/2004	18.39	697.86
					3/16/2005	17.95	698.30
					6/13/2005	18.20	698.05
					9/21/2005	18.50	697.75
					12/5/2005	17.20	699.05
					1/30/2006	18.00	698.25
					3/13/2006	17.10	699.15
					6/12/2006	17.90	698.35
					10/13/2006	18.83	697.42
					12/20/2006	17.90	698.35

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-167S (cont'd.)	716.25	716.55	12-22	704.55-694.55	3/19/2007	16.98	699.27
					7/2/2007	18.64	697.61
					9/6/2007	18.92	697.33
					11/27/2007	18.81	697.44
					3/19/2008	17.73	698.52
					5/28/2008	17.82	698.43
					9/22/2008	18.82	697.43
					12/1/2008	19.00	697.25
					3/11/2009	18.33	697.92
					6/16/2009	17.13	699.12
					9/14/2009	18.87	697.38
					11/2/2009	18.41	697.84
					1/26/2010	18.56	697.69
MW-168S	715.71	716.12	12-22	704.12-694.12	6/21/2001	17.66	698.05
					7/24/2001	17.60	698.11
					1/30/2002	17.06	697.73
	714.79	715.06	12-22	703.06-693.06	7/18/2002	17.39	697.4
					3/10/2004	17.43	697.36
					6/2/2004	17.33	697.46
					9/14/2004	18.18	696.61
					3/16/2005	17.41	697.38
					6/13/2005	17.12	697.67
					9/21/2005	17.7	697.09
					12/5/2005	18.02	696.77
					1/30/2006	17.39	697.40
					3/13/2006	16.21	698.58
					6/12/2006	16.34	698.45
					10/13/2006	18.12	696.67
					12/20/2006	17.54	697.25
					3/19/2007	16.52	698.27
					7/2/2007	18.08	696.71
					9/6/2007	17.51	697.28
					11/27/2007	17.8	696.99
					3/19/2008	16.18	698.61
					5/28/2008	17.44	697.35
					9/22/2008	18.30	696.49
					12/1/2008	18.20	696.59
					3/11/2009	17.68	697.11
					6/16/2009	16.82	697.97
					9/14/2009	18.31	696.48
					11/2/2009	17.73	697.06
					1/26/2010	17.84	696.95
					5/19/2010	17.60	697.19
MW-169S	715.95	716.25	15-25	701.25-691.25	1/30/2002	19.75	696.20
					7/17/2002	18.91	697.04
					12/4/2003	19.72	696.23
					3/10/2004	19.47	696.48
					6/2/2004	19.56	696.39
					9/14/2004	20.50	695.45
					12/20/2004	20.05	695.90
					3/16/2005	18.91	697.04
					6/13/2005	20.01	695.94
					9/21/2005	20.62	695.33
					12/5/2005	20.50	695.45
					1/30/2006	19.80	696.15
					3/13/2006	19.35	696.60
					6/12/2006	19.30	696.65
					10/13/2006	20.49	695.46
					12/20/2006	19.32	696.63
					3/19/2007	18.62	697.33
					7/2/2007	20.09	695.86
					9/6/2007	20.72	695.23
					11/27/2007	20.31	695.64
					3/19/2008	19.00	696.95
					5/28/2008	19.15	696.80
					9/22/2008	20.48	695.47
					12/1/2008	20.05	695.90

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-169S (cont'd.)	715.95	716.25	15-25	701.25-691.25	3/11/2009	19.86	696.09
					6/16/2009	18.12	697.83
					9/14/2009	20.37	695.58
					11/2/2009	20.39	695.56
					1/26/2010	20.40	695.55
					5/19/2010	20.00	695.95
MW-170S	717.40	717.77	17-27	700.77-690.77	1/30/2002	20.45	696.95
					7/17/2002	19.35	698.05
					3/10/2004	20.19	697.21
					6/2/2004	20.76	696.64
					9/14/2004	21.23	696.17
					12/20/2004	20.85	696.55
					6/15/2005	20.68	696.72
					9/21/2005	21.47	695.93
					12/5/2005	22.31	695.09
					1/30/2006	20.60	696.80
					3/13/2006	20.10	697.30
					6/12/2006	19.90	697.50
					10/13/2006	21.20	696.20
					12/20/2006	19.98	697.42
					3/19/2007	18.83	698.57
					7/2/2007	20.97	696.43
					9/6/2007	21.55	695.85
					11/27/2007	15.27	702.13
					3/19/2008	19.60	697.80
					5/28/2008	19.70	697.70
					9/22/2008	21.20	696.20
					12/1/2008	21.78	695.62
					3/11/2009	20.57	696.83
					6/16/2009	18.62	698.78
					9/14/2009	21.11	696.29
					11/2/2009	21.13	696.27
					1/26/2010	21.20	696.20
					5/19/2010	20.57	696.83
MW-171S	711.83	712.19	12-22	700.19-690.19	1/30/2002	15.29	696.54
					7/17/2002	15.02	696.81
					3/10/2004	15.14	696.69
					12/20/2004	15.55	696.28
					9/21/2005	15.68	696.15
					12/5/2005	15.42	696.41
					10/13/2006	16.33	695.50
					3/19/2007	14.29	697.54
					11/27/2007	15.27	696.56
					9/22/2008	16.05	695.78
					12/1/2008	16.10	695.73
					3/11/2009	15.56	696.27
					6/16/2009	14.58	697.25
					9/14/2009	16.06	695.77
					11/2/2009	15.61	696.22
					1/26/2010	15.65	696.18
					5/19/2010	15.53	696.30
MW-172S	716.23	716.58	15-25	701.58-691.58	9/4/2002	20.45	695.78
					3/10/2004	19.61	696.62
					6/2/2004	19.78	696.45
					9/14/2004	20.93	695.30
					12/20/2004	20.24	695.99
					3/16/2005	18.95	697.28
					6/13/2005	Abandoned	
MW-173	713.23	713.61	8-18	705.61-695.61	3/3/2004	12.72	700.51
					7/16/2004	12.99	700.24
					8/16/2004	13.06	700.17
					10/18/2004	13.56	699.67
					11/19/2004	13.38	699.85
					12/20/2004	13.45	699.78
					1/24/2005	10.55	702.68
					3/16/2005	12.21	701.02
					6/13/2005	12.85	700.38
					9/21/2005	13.50	699.73
					12/5/2005	12.81	700.42

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-173 (cont'd.)	713.23	713.61	8-18	705.61-695.61	1/30/2006	13.30	699.93
					3/13/2006	12.30	700.93
					6/12/2006	12.60	700.63
					10/13/2006	13.59	699.64
					11/21/2006	12.96	700.27
					12/20/2006	13.03	700.20
					1/19/2007	11.28	701.95
					3/19/2007	11.68	701.55
					7/2/2007	13.09	700.14
					9/6/2007	13.74	699.49
					11/27/2007	14.02	699.21
					3/19/2008	12.87	700.36
					5/28/2008	12.36	700.87
					9/22/2008	13.35	699.88
					12/1/2008	13.88	699.35
					3/11/2009	13.50	699.73
					6/16/2009	11.73	701.50
					9/14/2009	13.57	699.66
					11/2/2009	13.38	699.85
					1/26/2010	13.85	699.38
					5/19/2010	13.50	699.73
IW-1	712.54	712.95	10.5-15.5	702.45-697.45	3/3/2004	11.78	700.76
					7/16/2004	12.11	700.43
					8/16/2004	12.05	700.49
					10/18/2004	12.37	700.17
					11/19/2004	12.29	700.25
					12/20/2004	12.02	700.52
					1/24/2005	10.11	702.43
					3/16/2005	11.31	701.23
					6/13/2005	11.12	701.42
					9/21/2005	11.90	700.64
					12/5/2005	10.12	702.42
					1/30/2006	11.80	700.74
					3/13/2006	10.80	701.74
					6/12/2006	11.45	701.09
					10/13/2006	12.19	700.35
					11/21/2006	11.35	701.19
					12/20/2006	11.70	700.84
					1/19/2007	10.18	702.36
					3/22/2007	10.45	702.09
					7/2/2007	11.82	700.72
					9/6/2007	12.29	700.25
					11/27/2007	12.53	700.01
					3/19/2008	11.20	701.34
					5/28/2008	11.12	701.42
					9/22/2008	11.70	700.84
					12/1/2008	12.41	700.13
					3/11/2009	11.93	700.61
					6/16/2009	10.44	702.10
					9/14/2009	12.17	700.37
					11/2/2009	11.43	701.11
					1/26/2010	11.96	700.58
					5/19/2010	11.27	701.27
IW-2	712.83	713.27	12-17	701.27-696.27	3/3/2004	12.23	700.60
					7/16/2004	12.70	700.13
					8/16/2004	13.10	699.73
					10/18/2004	13.25	699.58
					11/19/2004	13.05	699.78
					12/20/2004	13.20	699.63
					1/24/2005	10.03	702.80
					3/16/2005	12.19	700.64
					6/13/2005	11.98	700.85
					9/21/2005	13.06	699.77
					12/5/2005	11.72	701.11
					1/30/2006	12.90	699.93
					3/13/2006	11.85	700.98
					6/12/2006	12.20	700.63
					10/13/2006	13.18	699.65
					11/21/2006	12.56	700.27

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
IW-2 (cont'd.)	712.83	713.27	12-17	701.27-696.27	12/20/2006	12.62	700.21
					1/19/2007	10.98	701.85
					3/19/2007	11.29	701.54
					7/2/2007	12.67	700.16
					9/6/2007	13.34	699.49
					11/27/2007	13.59	699.24
					3/19/2008	13.45	699.38
					5/28/2008	12.06	700.77
					9/22/2008	12.95	699.88
					12/1/2008	13.47	699.36
					3/11/2009	13.02	699.81
					6/16/2009	11.31	701.52
					9/14/2009	13.12	699.71
					11/2/2009	12.90	699.93
1/26/2010	13.31	699.52					
5/19/2010	13.00	699.83					
Deep Wells							
MW-165D	712.34	712.78	42-47	670.78-665.78	1/30/2002	13.33	699.01
					7/18/2002	13.66	698.68
					12/5/2003	13.51	698.83
					3/10/2004	13.71	698.63
					6/2/2004	13.49	698.85
					9/14/2004	14.29	698.05
					12/20/2004	14.00	698.34
					3/16/2005	13.78	698.56
					6/13/2005	13.10	699.24
					9/21/2005	13.75	698.59
					12/5/2005	14.20	698.14
					1/30/2006	13.45	698.89
					3/13/2006	12.80	699.54
					6/12/2006	13.73	698.61
					9/26/2006	14.04	698.30
					12/20/2006	13.72	698.62
					3/19/2007	12.62	699.72
					7/2/2007	14.25	698.09
					9/6/2007	13.92	698.42
					11/27/2007	14.90	697.44
					3/19/2008	13.35	698.99
					5/28/2008	13.79	698.55
					9/22/2008	14.35	697.99
					12/1/2008	14.30	698.04
					3/11/2009	13.79	698.55
					6/16/2009	13.32	699.02
					9/14/2009	14.40	697.94
					11/2/2009	13.88	698.46
1/26/2010	13.95	698.39					
5/19/2010	13.85	698.49					
MW-166D	712.76	713.04	46-51	666.04-661.04	1/30/2002	14.10	698.66
					7/18/2002	14.08	698.68
					1/6/2004	13.03	699.73
					3/10/2004	14.35	698.41
					6/2/2004	14.09	698.67
					9/14/2004	15.02	697.74
					12/20/2004	14.73	698.03
					3/16/2005	14.36	698.40
					6/13/2005	14.22	698.54
					9/21/2005	14.55	698.21
					12/5/2005	15.15	697.61
					1/30/2006	14.36	698.40
					3/13/2006	13.35	699.41
					6/12/2006	14.32	698.44
					9/26/2006	14.74	698.02
					12/20/2006	14.34	698.42
					3/19/2007	13.60	699.16
					7/4/2007	14.90	697.86
					9/6/2007	14.92	697.84
					11/27/2007	14.05	698.71
					3/19/2008	14.07	698.69
					5/28/2008	14.30	698.46

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-166D (cont'd.)	712.76	713.04	46-51	666.04-661.04	9/22/2008	15.09	697.67
					12/1/2008	15.20	697.56
					3/11/2009	14.56	698.20
					6/16/2009	13.75	699.01
					9/14/2009	15.18	697.58
					11/2/2009	14.66	698.10
					1/26/2010	14.74	698.02
					5/19/2010	14.60	698.16
MW-167D	716.25	716.60	28-33	688.60-683.60	1/30/2002	17.90	698.35
					7/17/2002	17.73	698.52
					12/4/2003	18.18	698.07
					3/10/2004	18.04	698.21
					6/2/2004	17.72	698.53
					9/14/2004	18.79	697.46
					12/20/2004	18.47	697.78
					3/16/2005	17.85	698.40
					6/13/2005	18.24	698.01
					9/21/2005	18.53	697.72
					12/5/2005	18.32	697.93
					1/30/2006	18.00	698.25
					3/13/2006	17.20	699.05
					6/12/2006	17.92	698.33
					9/26/2006	18.51	697.74
					12/20/2006	17.97	698.28
					3/19/2007	17.10	699.15
					7/2/2007	18.73	697.52
					9/6/2007	18.98	697.27
					11/27/2007	18.89	697.36
					3/19/2008	17.85	698.40
					5/28/2008	17.96	698.29
					9/22/2008	18.95	697.30
					12/1/2008	19.20	697.05
					3/11/2009	18.51	697.74
					6/16/2009	17.28	698.97
					9/14/2009	19.05	697.20
					11/2/2009	18.64	697.61
					1/26/2010	18.75	697.50
					5/19/2010	18.48	697.77
MW-168D	714.71	715.09	26-31	689.09-684.09	1/30/2002	17.00	697.71
					7/18/2002	17.27	697.44
					6/2/2004	17.28	697.43
					9/14/2004	18.15	696.56
					12/20/2004	17.81	696.90
					3/16/2005	16.38	698.33
					6/13/2005	26.21	688.50
					9/21/2005	17.70	697.01
					12/5/2005	20.22	694.49
					1/30/2006	17.50	697.21
					3/13/2006	16.35	698.36
					6/12/2006	16.33	698.38
					9/26/2006	17.93	696.78
					12/20/2006	17.39	697.32
					3/19/2007	16.39	698.32
					7/2/2007	17.99	696.72
					9/6/2007	17.83	696.88
					11/27/2007	17.82	696.89
					3/19/2008	17.12	697.59
					5/28/2008	17.38	697.33
					9/22/2008	18.25	696.46
					12/1/2008	18.30	696.41
					3/11/2009	17.59	697.12
					6/16/2009	16.92	697.79
					9/14/2009	18.22	696.49
					11/2/2009	17.73	696.98
					1/26/2010	17.75	696.96
					5/19/2010	17.58	697.13

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-169D	715.23	716.23	32-37	684.23-679.23	1/30/2002	19.65	695.58
					7/17/2002	18.82	696.41
					12/4/2003	19.66	695.57
					3/10/2004	19.41	695.82
					6/2/2004	19.52	695.71
					9/14/2004	20.45	694.78
					12/20/2004	20.10	695.13
					3/16/2005	18.93	696.30
					6/13/2005	20.00	695.23
					9/21/2005	20.63	694.60
					12/5/2005	20.62	694.61
					1/30/2006	19.83	695.40
					3/13/2006	19.33	695.90
					6/12/2006	19.24	695.99
					9/26/2006	20.39	694.84
					12/20/2006	19.30	695.93
					3/19/2007	18.26	696.97
					7/2/2007	20.19	695.04
					9/6/2007	20.80	694.43
					11/27/2007	20.38	694.85
					3/19/2008	18.93	696.30
					5/28/2008	19.10	696.13
					9/22/2008	20.48	694.75
					12/1/2008	21.05	694.18
					3/11/2009	19.91	695.32
					6/16/2009	18.15	697.08
					9/14/2009	20.41	694.82
					11/2/2009	20.45	694.78
					1/26/2010	20.45	694.78
					5/19/2010	19.95	695.28
MW-170D	717.34	717.76	34-39	683.76-678.76	1/30/2002	20.40	696.94
					7/17/2002	19.29	698.05
					3/10/2004	20.13	697.21
					6/2/2004	20.21	697.13
					9/14/2004	21.17	696.17
					12/20/2004	20.78	696.56
					6/15/2005	20.63	696.71
					9/21/2005	21.40	695.94
					12/5/2005	21.21	696.13
					1/30/2006	20.90	696.44
					3/13/2006	20.00	697.34
					6/12/2006	19.80	697.54
					9/26/2006	21.02	696.32
					12/20/2006	19.92	697.42
					3/19/2007	18.79	698.55
					7/2/2007	20.70	696.64
					9/6/2007	21.51	695.83
					11/27/2007	21.26	696.08
					3/19/2008	19.52	697.82
					5/28/2008	19.66	697.68
					9/22/2008	20.14	697.20
					12/1/2008	21.80	695.54
					3/11/2009	20.49	696.85
					6/16/2009	18.54	698.80
					9/14/2009	21.05	696.29
					11/2/2009	21.11	696.23
					1/26/2010	20.13	697.21
					5/19/2010	20.49	696.85
MW-171D	711.88	712.15	44-49	668.15-663.15	1/30/2002	15.73	696.15
					7/17/2002	15.16	696.72
					3/10/2004	15.51	696.37
					12/20/2004	15.98	695.90
					9/21/2005	16.20	695.68
					12/5/2005	16.23	695.65
					6/12/2006	15.48	696.40
					9/26/2006	16.21	695.67
					3/19/2007	14.45	697.43
					11/27/2007	16.50	695.38

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-171D (cont'd.)	711.88	712.15	44-49	668.15-663.15	3/19/2008	15.25	696.63
					5/28/2008	15.46	696.42
					9/22/2008	16.41	695.47
					12/1/2008	16.68	695.20
					3/11/2009	15.92	695.96
					6/16/2009	14.73	697.15
					9/14/2009	16.39	695.49
					11/2/2009	16.13	695.75
					1/26/2010	15.15	696.73
MW-172D	716.03	716.53	33-38	683.53-678.53	5/19/2010	15.95	695.93
					9/4/2002	20.17	695.86
					3/10/2004	19.43	696.60
					6/2/2004	19.61	696.42
					9/14/2004	20.57	695.46
					12/20/2004	20.14	695.89
					3/16/2005	18.71	697.32
					6/13/2005	Abandoned	
MW-301	712.75	--	45-50	--	2/5/1997	11.75	701.00
					11/22/1999	13.77	698.98
					2/28/2000	13.50	699.25
	712.75	713.20	45-50	668.20-663.20	11/7/2000	13.76	698.99
					6/20/2001	13.57	699.18
					7/24/2001	13.59	699.16
					1/30/2002	13.31	699.44
					7/18/2002	12.78	699.97
					3/10/2004	13.74	699.01
					6/2/2004	13.11	699.64
					9/14/2004	13.79	698.96
					12/20/2004	13.29	699.46
					3/16/2005	11.89	700.86
					6/13/2005	13.51	699.24
					9/21/2005	13.63	699.12
					12/5/2005	13.45	699.30
					1/30/2006	13.10	699.65
					3/13/2006	12.00	700.75
					6/12/2006	13.56	699.19
					9/26/2006	13.50	699.25
					12/20/2006	13.21	699.54
					3/19/2007	11.99	700.76
					9/6/2007	13.83	698.92
					11/27/2007	13.31	699.44
					3/19/2008	13.00	699.75
					5/28/2008	12.09	700.66
					9/22/2008	13.57	699.18
					12/1/2008	13.78	698.97
					3/11/2009	13.46	699.29
					6/16/2009	12.34	700.41
					9/14/2009	13.75	699.00
					11/2/2009	13.38	699.37
					1/26/2010	13.61	699.14
					5/19/2010	13.51	699.24
MW-302	711.54	--	45-55	--	2/5/1997	11.26	700.28
					2/26/1997	12.33	699.21
					11/22/1999	13.26	698.28
					2/28/2000	12.70	698.84
	711.60	709.60	45-55	664.60-654.60	11/7/2000	13.00	698.60
					6/21/2001	12.99	698.61
					7/24/2001	12.82	698.78
					1/30/2002	12.61	698.99
					7/22/2002	12.90	698.7
					3/10/2004	12.93	698.67
					6/2/2004	12.68	698.92
					9/14/2004	13.56	698.04
					12/20/2004	12.24	699.36
					3/16/2005	13.08	698.52
					6/13/2005	12.98	698.62
					9/21/2005	12.95	698.65
					12/5/2005	13.02	698.58
					1/30/2006	11.50	700.10

Table 1
Water Level Data Summary
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Monitoring Well ID	TOC Elevation ⁽¹⁾ (feet amsl)	Ground Elevation ⁽¹⁾ (feet amsl)	Screen Interval (feet bgs)	Screen Depth (feet amsl)	Date Gauged	DTW (feet)	GW Elevation (feet amsl)
MW-302 (cont'd.)	711.60	709.60	45-55	664.60-654.60	3/13/2006	12.00	699.60
					6/12/2006	13.00	698.60
					9/26/2006	13.29	698.31
					12/20/2006	12.98	698.62
					3/19/2007	11.85	699.75
					7/2/2007	13.48	698.12
					9/6/2007	13.66	697.94
					11/27/2007	13.31	698.29
					3/19/2008	12.20	699.40
					5/28/2008	12.35	699.25
					9/22/2008	13.60	698.00
					12/1/2008	13.56	698.04
					3/11/2009	13.12	698.48
					6/16/2009	11.89	699.71
					9/14/2009	13.17	698.43
					11/2/2009	12.48	699.12
					1/26/2010	13.23	698.37
					5/19/2010	12.46	699.14

⁽¹⁾For wells surveyed more than once, subsequent survey information is listed with the first gauging event following the survey.

⁽²⁾Survey data from 3-6-02 were used to calculate all groundwater and screen elevations.

⁽³⁾Survey data from 11-7-00 were used to calculate the groundwater elevation.

⁽⁴⁾Wells redeveloped, extended and resurveyed. New survey data from 1-27-10 now being used to calculate groundwater elevations.

amsl - above mean sea level

BGS - below ground surface

DTW - depth to water

GW - groundwater

NA - Information is not available

SW - surface water

TOC - top of well casing

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-10-1	3/28/1994	7-17	NA	NA	NA	160*	160*	NA	NA	880	NA	<100
	10/5/1994		NA	NA	NA	ND	ND	NA	NA	1,600	NA	NA
	7/14/1995		W5070191-13	<5.0	<5.0	190	5.9	<5.0	<5.0	1,800	NA	<10
	2/5/1997		W7020074-01	<5.0	<5.0	120	<5.0	<5.0	<5.0	810	NA	<10
	11/23/1999		253788	<5.0	<5.0	180	8.3	<10	<5.0	1,000	<5.0	<5.0
	11/23/1999		253812	<5.0	<5.0	190	9.2	<10	<5.0	1,100	<5.0	<5.0
	2/29/2000		260586	<5.0	<5.0	160	6.5	<10	<5.0	960	<5.0	<5.0
	11/8/2000		280650	<5.0	<5.0	200	7.6	<10	<5.0	1,100	<5.0	<2.0
	7/19/2002		324157	<5.0	<5.0	99	<5.0	<10	<5.0	540	<5.0	<2.0
	7/19/2002		324158	<5.0	<5.0	94	<5.0	<10	<5.0	650	<5.0	<2.0
5/7/2003	842918	<1.0	<1.0	60.9	2.6	<5.0	<1.0	305	<1.0	<1.0		
8/22/2003	872595	<1.0	<1.0	101	3.2	<5.0	<1.0	456	<1.0	<1.0		
MW-10-1R	12/03/2003	7-17	503002107	<5.0	<5.0	48	<5.0	<5.0	<5.0	220	<5.0	<2.0
	12/03/2003		503002115	<5.0	<5.0	44	<5.0	<5.0	<5.0	240	<5.0	<2.0
	3/11/2004		503237240	<5.0	<5.0	58	<5.0	<5.0	<5.0	230	<5.0	<2.0
	3/11/2004		503237257	<5.0	<5.0	53	<5.0	<5.0	<5.0	230	<5.0	<2.0
	6/4/2004		503492829	<5.0	<5.0	74	<5.0	<5.0	<5.0	400	<5.0	<2.0
	6/4/2004		503492928	<5.0	<5.0	59	<5.0	<5.0	<5.0	290	<5.0	<2.0
	9/15/2004		A675212	<1.0	<1.0	99	2.9	<1.0	<1.0	500	<1.0	<1.0
	9/15/2004		A675213	<1.0	<1.0	97	2.8	<1.0	<1.0	490	<1.0	<1.0
	12/22/2004		A685836	<1.0	<1.0	85	4.5	<1.0	<1.0	546	<1.0	<1.0
	12/22/2004		A685823	<1.0	<1.0	96	3.9	<1.0	<1.0	520	<1.0	<1.0
	3/16/2005		A693396	<1.0	<1.0	18	<1.0	<1.0	<1.0	120	<1.0	<1.0
	3/16/2005		A693397	<1.0	<1.0	19	<1.0	<1.0	<1.0	140	<1.0	<1.0
	6/15/2005		A702987	<1.0	<1.0	15	<1.0	<1.0	<1.0	83	<1.0	<1.0
	6/15/2005		A702999	<1.0	<1.0	17	<1.0	<1.0	<1.0	91	<1.0	<1.0
	9/22/2005		A713013	<1.0	<1.0	12.7	<1.0	<1.0	<1.0	68.7	<1.0	<1.0
	9/22/2005		A713014	<1.0	<1.0	12.6	<1.0	<1.0	<1.0	68.8	<1.0	<1.0
	12/7/2005		A721022	<1.0	<1.0	9.2	<1.0	<1.0	<1.0	100	<1.0	<1.0
	12/7/2005		A721023	<1.0	<1.0	13	<1.0	<1.0	<1.0	110	<1.0	<1.0
	3/14/2006		A728644	<1.0	<1.0	6.6	<1.0	<1.0	<1.0	64	<1.0	<1.0
	3/14/2006		A728645	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	59	<1.0	<1.0
	6/14/2006		A737758	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	62	<1.0	<1.0
	6/14/2006		A737759	<1.0	<1.0	6.1	<1.0	<1.0	<1.0	120	<1.0	<1.0
	9/29/2006		A747976	<1.0	<1.0	15	<1.0	23	<1.0	160	<1.0	<1.0
	9/29/2006		A747977	<1.0	<1.0	16	<1.0	16	<1.0	210	<1.0	<1.0
	12/20/2006		A756766	<1.0	<1.0	14	<1.0	<1.0	<1.0	150	<1.0	<1.0
	12/20/2006		A756767	<1.0	<1.0	13	<1.0	<1.0	<1.0	150	<1.0	<1.0
	3/22/2007		A764734	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	41	<1.0	<1.0
	3/22/2007		A764735	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	45	<1.0	<1.0
	7/2/2007		A775739	<1.0	<1.0	63	5.0	<1.0	<1.0	170	<1.0	2.9
	9/6/2007		A781783	<5.0	<5.0	130	12	<5.0	<5.0	260	<5.0	6.0
	9/6/2007		A781784	<1.0	<1.0	110	11	<1.0	<1.0	230	<1.0	6.1
	11/29/2007		A790675	<1.0	<1.0	150	12	<1.0	<1.0	250	<1.0	4.2
	11/29/2007		A790676	<1.0	<1.0	150	12	<1.0	<1.0	250	<1.0	4.9
	3/20/2008		A803418	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	18	<1.0	<1.0
	3/20/2008		A803419	<1.0	<1.0	4.6	<1.0	<1.0	<1.0	23	<1.0	<1.0
	5/30/2008		A812362	<1.0	<1.0	20	4.1	<1.0	<1.0	38	<1.0	<1.0
	5/30/2008		A812363	<1.0	<1.0	21	4.7	<1.0	<1.0	40	<1.0	<1.0
	9/23/2008		A824665	<1.0	<1.0	110	14	<1.0	<1.0	190	<1.0	2.0
	9/23/2008		A824666	<1.0	<1.0	97	14	<1.0	<1.0	170	<1.0	2.2
	12/3/2008		A832808	<1.0	<1.0	120	15	1.3B	<1.0	200	<1.0	<1.0
	12/3/2008		A832809	<1.0	<1.0	110	14	<1.0	<1.0	200	<1.0	1.0
	3/12/2009		A841802	<1.0	<1.0	150	16	<1.0	<1.0	250	<1.0	<1.0
	3/12/2009		A841803	<1.0	<1.0	130	15	<1.0	<1.0	220	<1.0	<1.0
	6/19/2009		A850609	<1.0	<1.0	7.5	3.4	<1.0	<1.0	57	<1.0	<1.0
	6/19/2009		A850612	<1.0	<1.0	7.2	3.4	<1.0	<1.0	58	<1.0	<1.0
	9/15/2009		A858550	<1.0	<1.0	150	19	<1.0	<1.0	340	<1.0	2.1
	9/15/2009		A858554	<1.0	<1.0	160	18	<1.0	<1.0	330	<1.0	2.1
	1/27/2010		5034229001	<5.0	<5.0	132	15	<5.0	<5.0	331	<5.0	<2.0
	1/27/2010		5034229002	<5.0	<5.0	97.8	13.6	<5.0	<5.0	297	<5.0	<2.0
	5/20/2010		5037756016	<5.0	<5.0	50.5	12.6	<5.0	<5.0	249	<5.0	<2.0
MW-132	9/1992	10-20	NA	NA	NA	1,500*	1,500*	NA	NA	280	NA	1,200
	5/27/1993		69681	<20	<20	2,400	<20	<200	<20	1,900	NA	<100
	7/14/1995		W5070191-09	<5.0	<5.0	5,100	15	<5.0	<5.0	1,700	NA	600
	2/5/1997		W7020074-02	<120	<120	65,000	<120	<120	<120	15,000	NA	<250
	11/23/1999		253791	<5.0	<5.0	990	18	<10	<5.0	270	<5.0	580
	2/28/2000		260589	<5.0	<5.0	23,000	330	<10	13	2,900	<5.0	13
	7/22/2002		324190	<5.0	<5.0	270	11	<10	<5.0	110	<5.0	<2.0
	5/7/2003		842913	<1.0	<1.0	63.6	1	<5.0	<1.0	28.7	<1.0	<1.0
	8/22/2003		872596	<1.0	<1.0	136	4.4	<5.0	<1.0	40.9	<1.0	<1.0
	8/22/2003		872597	<1.0	<1.0	146	4.5	<5.0	<1.0	40.9	<1.0	<1.0
12/03/2003	503002123	<5.0	<5.0	9	<5.0	<5.0	<5.0	23	<5.0	<2.0		
3/11/2004	503237166	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.3	<5.0	<2.0		
6/4/2004	503492647	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12	<5.0	<2.0		
9/15/2004	A675220	<1.0	<1.0	32	4.5	<1.0	<1.0	15	<1.0	<1.0		
12/21/2004	A685833	<1.0	<1.0	60	7.1	<1.0	<1.0	16	<1.0	1.7		
3/16/2005	A693388	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	7.8	<1.0	<1.0		
6/14/2005	A702985	<1.0	<1.0	12	3.0B	<1.0	<1.0	14	<1.0	<1.0		
9/22/2005	A713003	<1.0	<1.0	15.1	2.92	<1.0	<1.0	10.5	<1.0	<1.0		
12/6/2005	A721014	<1.0	<1.0	23	4.5	<1.0	<1.0	15	<1.0	<1.0		
3/13/2006	A728632	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
6/12/2006	A737743	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0		
MW-132R	10/13/2006	10-20	A749072	<1.0	<1.0	73	2.3	<1.0	<1.0	62	<1.0	1.4
	12/20/2006		A756757	<1.0	<1.0	39	1.7	<1.0	<1.0	41	<1.0	6.8
	3/21/2007		A764752	<1.0	<1.0	6.5	<1.0	<1.0	<1.0	15	<1.0	<1.0
	7/2/2007		A775730	<1.0	<1.0	15	<1.0	<1.0	<1.0	29	<1.0	<1.0
	9/6/2007		A781774	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/28/2007		A790667	<1.0	<1.0	29	3.2	<1.0	<1.0	73	<1.0	<1.0
	3/19/2008		A803409	<1.0	<1.0	14	<1.0	<1.0	<1.0	20	<1.0	2.0
	5/29/2008		A812348	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	15	<1.0	<1.0
	9/23/2008		A824659	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	24	<1.0	<1.0
	12/2/2008		A832827	<1.0	<1.0	25	2.1	<1.0	<1.0	44	<1.0	4.3
	3/12/2009		A841805	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	13	<1.0	<1.0
6/18/2009	A850595	<1.0	<1.0	5.3	<1.0	<1.0	<1.0	17	<1.0	<1.0		
9/15/2009	A858537	<1.0	<1.0	9.1	<1.0	<1.0	<1.0	26	<1.0	<1.0		
11/3/2009	A864527	<1.0	<1.0	9.8	1.8	<1.0	<1.0	33	<1.0	<1.0		
1/27/2010	5034229006	<5.0	<5.0	10.9	<5.0	<5.0	<					

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride	
MW-133	9/1992	8-18	NA	NA	NA	81*	81*	NA	NA	47	NA	<10	
	5/27/1993		69680	<1.0	<1.0	56	1.4	<10	<1.0	24	NA	5.3	
	9/11/1995		W5090134-01	<5.0	<5.0	70	<5.0	<5.0	<5.0	23	NA	<10	
	2/5/1997		W7020074-03	<5.0	<5.0	100	<5.0	<5.0	<5.0	53	NA	<10	
	11/23/1999		253798	<5.0	<5.0	130	<5.0	<10	<5.0	57	<5.0	7	
	2/28/2000		260596	<5.0	<5.0	170	<5.0	<10	<5.0	110	<5.0	6.7	
MW-133R	12/04/2003	8-18	503002131	<5.0	<5.0	49	<5.0	<5.0	<5.0	<5.0	<5.0	3.5	
	3/11/2004		503237208	<5.0	<5.0	32	<5.0	<5.0	<5.0	5.3	<5.0	<2.0	
	6/4/2004		503492704	<5.0	<5.0	39	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	
	9/15/2004		A675216	<1.0	<1.0	100	4.4	<1.0	<1.0	1.9	<1.0	2.6	
	12/21/2004		A685830	<1.0	<1.0	67	3.4	<1.0	<1.0	1.7	<1.0	<1.0	
	3/16/2005		A693394	<1.0	<1.0	22	1.8	1.3	<1.0	1.0	<1.0	<1.0	
	6/15/2005		A702990	<1.0	<1.0	33	2.1B	<1.0	<1.0	1.5	<1.0	<1.0	
	9/22/2005		A713008	<1.0	<1.0	41	2.73	<1.0	<1.0	1.37	<1.0	<1.0	
	12/7/2005		A721020	<1.0	<1.0	45	3.7	<1.0	<1.0	1.7	<1.0	<1.0	
	3/14/2006		A728641	<1.0	<1.0	23	1.8	<1.0	<1.0	1.8	<1.0	<1.0	
	6/13/2006		A737755	<1.0	<1.0	25	2.3	<1.0	<1.0	1.7	<1.0	<1.0	
	9/29/2006		A747979	<1.0	<1.0	36	3.8	<1.0	<1.0	2.3	<1.0	<1.0	
	12/20/2006		A756762	<1.0	<1.0	28	3.3	<1.0	<1.0	2.3	<1.0	<1.0	
	3/22/2007		A764731	<1.0	<1.0	6.6	1.9	<1.0	<1.0	1.3	<1.0	<1.0	
	7/2/2007		A775733	<1.0	<1.0	3.5	2	<1.0	<1.0	2.2	<1.0	<1.0	
	9/6/2007		A781780	<1.0	<1.0	9	3.1	<1.0	<1.0	3.1	<1.0	<1.0	
	11/29/2007		A790671	<1.0	<1.0	5.3	2.1	<1.0	<1.0	2.7	<1.0	<1.0	
	3/19/2008		A803415	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	
	5/29/2008		A812353	<1.0	<1.0	2	1.6	<1.0	<1.0	2.4	<1.0	<1.0	
	9/23/2008		A824661	<1.0	<1.0	5.1	1.3	<1.0	<1.0	4.8	<1.0	<1.0	
	12/3/2008		A832804	<1.0	<1.0	4.6	2.0	<1.0	<1.0	3.9	<1.0	<1.0	
	3/11/2009		A841815	<1.0	<1.0	2.4	1.2	<1.0	<1.0	2.1	<1.0	<1.0	
	6/18/2009		A850594	<1.0	<1.0	3.4	2.1	<1.0	<1.0	3.6	<1.0	<1.0	
	9/15/2009		A858543	<1.0	<1.0	2.7	2	<1.0	<1.0	6.0	<1.0	<1.0	
	11/4/2009		A864532	<1.0	<1.0	3.1	1.6	<1.0	<1.0	4.2	<1.0	<1.0	
	1/27/2010		5034231006	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	
	5/20/2010		5037760002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	
MW-135	9/1992	10-20	NA	NA	NA	< 5.0	< 5.0	NA	NA	<5.0	NA	<10	
	9/1992		NA	NA	NA	<5	<5	NA	NA	<5.0	NA	<10	
	5/27/1993		69679	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	NA	<5.0	
	7/14/1995		W5070191-14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10	
	2/5/1997		W7020074-04	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10	
	11/23/1999		253802	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	
	2/29/2000		260574	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	
	11/8/2000		280651	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0	
	6/20/2001		296393	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0	
	7/15/2002		324015	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	
	12/04/2003		503002149	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	
	12/21/2004		A685832	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/8/2005		A721032	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/21/2006		A756769	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	7/3/2007		A775747	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	11/29/2007		A790677	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	12/3/2008		A832811	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	11/4/2009		A864537	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
MW-145	6/4/1993	17.5-27.5	69941	<5	<5	440	<5	<50	<5	9.8	NA	<20	
	7/14/1995		W5070191-10	<5.0	<5.0	530	<5.0	<5	<5.0	5.6	NA	12	
	2/5/1997		W7020074-05	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	43	NA	<10	
	11/23/1999		253799	<5.0	<5.0	770	14	<10	<5.0	<5.0	<5.0	28	
	11/23/1999		253813	<5.0	<5.0	850	13	<10	<5.0	<5.0	<5.0	31	
	2/29/2000		260597	<5.0	<5.0	850 E	8.7 E	<10	<5.0	<5.0	<5.0	36 E	
	11/8/2000		280652	<5.0	<5.0	710	<5.0	<10	<5.0	<5.0	<5.0	18	
	6/21/2001		296418	<5.0	<5.0	630	5.5	<10	<5.0	<5.0	<5.0	170	
	7/22/2002		324184	<5.0	<5.0	460	7.8	<10	<5.0	<5.0	<5.0	36	
	12/04/2003		503002453	<5.0	<5.0	650	<5.0	<5.0	<5.0	<5.0	<5.0	14	
	12/21/2004		A685829	<1.0	<1.0	460	6.0	<1.0	<1.0	<1.0	<1.0	6.3	
	12/8/2005		A721034	<1.0	<1.0	150	5.2	<1.0	<1.0	<1.0	<1.0	1.1	
	12/20/2006		A756763	<10	<10	200	<10	<10	<10	<10	<10	<10	
	7/2/2007		A775734	<1.0	<1.0	220	1.6	<1.0	<1.0	<1.0	<1.0	7.7	
	11/29/2007		A790672	<1.0	<1.0	150	2.2	<1.0	<1.0	<1.0	<1.0	5.6	
	12/3/2008		A832805	<1.0	<1.0	39	<1.0	<1.0	<1.0	<1.0	<1.0	6.1	
	11/4/2009		A864533	<1.0	<1.0	50	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	
MW-146	6/4/1993	15-25	69942	1.4	<1.0	<1.0	<1.0	<10	<1.0	83	NA	<5	
	7/14/1995		W5070191-11	<5.0	<5.0	<5.0	<5.0	<5	<5.0	52	NA	<10	
	2/5/1997		W7020074-06	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	43	NA	<10	
	11/23/1999		253800	<5.0	<5.0	<5.0	<5.0	<10	<5.0	69	<5.0	<5.0	
	2/29/2000		260572	<5.0	<5.0	<5.0	<5.0	<10	<5.0	67	<5.0	<5.0	
	11/8/2000		280684	<5.0	<5.0	<5.0	<5.0	<10	<5.0	70	<5.0	<2.0	
	6/21/2001		296419	<5.0	<5.0	<5.0	<5.0	<10	<5.0	62	<5.0	<2.0	
	7/15/2002		324017	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	24.3	<1.0	<1.0	
	12/03/2003		503002461	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	42	<5.0	<2.0	
	3/11/2004		503237216	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	50	<5.0	<2.0	
	6/4/2004		503492738	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	46	<5.0	<2.0	
	9/15/2004		A675214	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	52	<1.0	<1.0	
	12/21/2004		A685828	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	74	<1.0	<1.0	
	3/16/2005		A693395	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	50	<1.0	<1.0	
	6/13/2005		NS										
	9/22/2005		A713010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	43.2	<1.0	<1.0	
	12/8/2005		A721033	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	78	<1.0	<1.0	
	3/14/2006		A728643	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	47	<1.0	<1.0	
	6/14/2006		A737757	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	34	<1.0	<1.0	
	9/29/2006		A747978	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	51	<1.0	<1.0	
	12/20/2006		A756765	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	42	<1.0	<1.0	
	3/22/2007		A764732	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	36	<1.0	<1.0	
	7/2/2007		A775738	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	41	<1.0	<1.0	
	9/6/2007		A781781	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	58	<1.0	<1.0	
	11/29/2007		A790674	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	53	<1.0	<1.0	
3/19/2008	A803417	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	55	<1.0	<1.0			
5/29/2008	A812355	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	43	<1.0	<1.0			
9/23/2008	A824664	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	46	<1.0	<1.0			
12/3/2008	A832807	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	68	<1.0	<1.0			

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-147	6/4/1993	20-30	69943	<1.0	<1.0	140	<1.0	<10	<1.0	39	NA	42
	7/14/1995		W5070191-08	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<10
	2/5/1997		W7020074-07	<5.0	<5.0	95	<5.0	<5.0	<5.0	51	NA	<10
	11/23/1999		253790	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	2/28/2000		260588	<5.0	<5.0	7.3	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280685	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
MW-147A	6/21/2001	20-30	296409	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324189	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<2.0
	5/7/2003		842912	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	8/22/2003		872598	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
	12/03/2003		503002578	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237158	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/4/2004		503492597	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/15/2004		A675219	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/2004		A685820	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/16/2005		A693392	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005		A702984	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/22/2005		A713025	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/7/2005		A721015	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2006		A728631	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6/12/2006	A737742	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
MW-147AR	10/13/2006	20-30	A749071	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		A756756	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764751	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775728	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/6/2007		A781775	<1.0	<1.0	19	1.1	<1.0	<1.0	36	<1.0	2.4
	11/28/2007		A790678	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/19/2008		A803408	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/29/2008		A812347	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/23/2008		A824658	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0
	12/2/2008		A832838	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/12/2009		A841810	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/18/2009		A850596	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/15/2009		A858538	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/3/2009		A864526	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1/27/2010	5034231001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0		
5/20/2010	5037760001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0		
MW-148	6/4/1993	10.5-25.5	69944	<80	<80	19,000	<80	<800	<80	4,900	NA	490
	7/14/1995		W5070191-07	<5.0	<5.0	1,400	12	<5	<5.0	410	NA	92
	2/5/1997		W7020074-08	<5.0	<5.0	73	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253792	<5.0	5.2	1,200	24	<10	<5.0	310	<5.0	200
	2/28/2000		260583	<5.0	<5.0	1,200	11	<10	<5.0	300	<5.0	180
	2/28/2000		260568	<5.0	<5.0	1,600	20	<10	<5.0	400	<5.0	270
	11/8/2000		280686	<5.0	<5.0	440	<5.0	<10	<5.0	190	<5.0	35
	11/8/2000		280687	<5.0	<5.0	450	<5.0	<10	<5.0	160	<5.0	39
	6/21/2001		296407	<5.0	<5.0	1,100	10	<10	<5.0	340	<5.0	50
	6/21/2001		296408	<5.0	<5.0	1,100	11	<10	<5.0	360	<5.0	50
	7/22/2002		324188	<5.0	<5.0	360	19	<10	<5.0	170	<5.0	<2.0
	5/7/2003		842914	<1.0	<1.0	23.1	1.7	<5.0	<1.0	56.5	<1.0	<1.0
	8/22/2003		872599	<1.0	<1.0	50.6	1.9	<5.0	<1.0	80.5	<1.0	<1.0
	12/03/2003		503002479	<5.0	<5.0	30	<5.0	<5.0	<5.0	100	<5.0	<2.0
	3/11/2004		503237174	<5.0	<5.0	34	<5.0	<5.0	<5.0	20	<5.0	<2.0
	6/4/2004		503492654	<5.0	<5.0	35	<5.0	<5.0	<5.0	6.4	<5.0	2.6
	9/16/2004		A675221	<1.0	<1.0	36	1.8	<1.0	<1.0	5.6	<1.0	5.7
	12/21/2004		A685831	<1.0	<1.0	38	2.5	<1.0	<1.0	26	<1.0	3.7
	3/16/2005		A693389	<1.0	<1.0	41	2.4	<1.0	<1.0	2.1	<1.0	5.7
	6/14/2005		A702986	<1.0	<1.0	38	2.0B	<1.0	<1.0	6.5	<1.0	9.4
	9/22/2005		A713004 ³	<1.0	<1.0	79.9	5.49	<1.0	<1.0	68.8	<1.0	61.6
	12/7/2005		A721016	<1.0	<1.0	93	8.3	<1.0	<1.0	100	<1.0	120
	3/13/2006		A728633	<1.0	<1.0	200	14	<1.0	<1.0	200	<1.0	120
	6/12/2006		A737744	<1.0	<1.0	32	1.4	<1.0	<1.0	14	<1.0	4.8
MW-148R	10/13/2006	10.5-25.5	A749073	<1.0	<1.0	1,000	42	<1.0	<1.0	180	<1.0	140
	12/20/2006		A756758	<10	<10	520	22	<10	<10	100	<10	43
	3/21/2007		A764753	<1.0	<1.0	11	1.4	<1.0	<1.0	30	<1.0	<1.0
	7/2/2007		A775731	<1.0	<1.0	330	23	<1.0	<1.0	68	<1.0	30
	9/6/2007		A781776	<10	<10	130	16	<10	<10	530	<10	<10
	11/29/2007		A790668	<1.0	<1.0	1,000	77	<1.0	<1.0	220	<1.0	33
	3/19/2008		A803411	<1.0	<1.0	130	10	<1.0	<1.0	32	<1.0	4.2
	5/29/2008		A812349	<10	<10	160	13	<10	<10	82	<10	10
	9/23/2008		A824660	<10	<10	580	70	<10	<10	57	<10	44
	12/2/2008		A832800	<1.0	1.4	840	80	<1.0	<1.0	130	<1.0	91
	3/12/2009		A841804	<1.0	1.1	630	47	<1.0	<1.0	170	<1.0	39
	6/19/2009		A850602	<1.0	<1.0	8.1	1.1	<1.0	<1.0	44	<1.0	<1.0
	9/15/2009		A858545	<1.0	1.3	530	54	<1.0	<1.0	88	<1.0	100
	11/3/2009		A864528	<1.0	<1.0	480	39	<1.0	<1.0	110	<1.0	48
1/27/2010	5034229005	<5.0	<5.0	190	31.3	<5.0	<5.0	201	<5.0	<2.0		
5/20/2010	5037756011	<5.0	<5.0	295	29.3	<5.0	<5.0	100	<5.0	19.3		
MW-150	7/17/1995	4-19	W5070229-01	<5.0	<5.0	6.7	<5.0	<5.0	<5.0	65	NA	<10
	2/5/1997		W7020074-09	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	86	NA	<10
	11/23/1999		253803	<5.0	<5.0	14	<5.0	<10	<5.0	130	<5.0	<5.0
	2/29/2000		260575	<5.0	<5.0	13	<5.0	<10	<5.0	120	<5.0	<5.0
	11/8/2000		280688	<5.0	<5.0	14	<5.0	<10	<5.0	86	<5.0	<2.0
	6/20/2001		296390	<5.0	<5.0	28	<5.0	<10	<5.0	200	<5.0	<2.0
	7/19/2002		324159	<5.0	<5.0	<5.0	<5.0	<10	<5.0	30	<5.0	<2.0
	5/7/2003		842917	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	37.1	<1.0	<1.0
	8/22/2003		872600	<1.0	<1.0	1.7	<1.0	<5.0	<1.0	56.1	<1.0	<1.0
	12/03/2003		503002529	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	14	<5.0	<2.0
	3/11/2004		503237232	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20	<5.0	<2.0
	6/4/2004		503492753	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12	<5.0	<2.0
	9/15/2004		A675211	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	23	<1.0	<1.0
	12/21/2004		A685827	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	37	<1.0	<1.0
3/16/2005	A693386	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	15	<1.0	<1.0		
6/15/2005	A702988	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.7	<1.0	<1.0		
9/26/2005	A713023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	<1.0	<1.0		
12/7/2005	A721030	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	<1.			

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-150 (cont'd.)	9/7/2007	4-19	A781791	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0
	11/29/2007		A790705	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.4	<1.0	<1.0
	3/20/2008		A803420	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.8	<1.0	<1.0
	5/29/2008		A812356	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0
	9/23/2008		A824667	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.3	<1.0	<1.0
	12/3/2008		A832810	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.3	<1.0	<1.0
	3/12/2009		A841827	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0
	6/19/2009		A850604	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.9	<1.0	<1.0
	9/16/2009		A858565	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.0	<1.0	<1.0
	11/4/2009		A864536	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.3	<1.0	<1.0
	1/27/2010		5034229011	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.3	<5.0	<2.0
	5/20/2010		5037756017	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.3	<5.0	<2.0
MW-151	7/14/1995	5-20	W5070191-03	<5.0	<5.0	74	7.4	<5.0	<5.0	<5.0	NA	<10
	2/6/1997		W7020074-13	<5.0	<5.0	20	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253809	<5.0	<5.0	35	5.2	<10	<5.0	<5.0	<5.0	<5.0
	2/29/2000		260579	<5.0	<5.0	45	6.3	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280689	<5.0	<5.0	54	6.8	<10	<5.0	<5.0	<5.0	<2.0
	6/20/2001		296398	<5.0	<5.0	46	6.5	<10	<5.0	<5.0	<5.0	<2.0
	7/18/2002		324114	<1.0	<1.0	6.4	<1.0	<5.0	<1.0	2.2	<1.0	<1.0
	12/04/2003		503002586	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	<5.0	<5.0
	3/3/2004		503207532	NA	NA	NA	NA	NA	NA	6.4	NA	NA
	6/4/2004		503492951	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	11	<5.0	<2.0
	7/16/2004		A669501	<1.0	<1.0	3.1	3.8	<1.0	<1.0	5.1	<1.0	<1.0
	8/16/2004		A671802	<1.0	<1.0	2.6	4.1	1.2	<1.0	5.4	<1.0	<1.0
	9/14/2004		A675210	<1.0	<1.0	3.0	4.0	<1.0	<1.0	5.7	<1.0	<1.0
	10/18/2004		A678047	<1.0	<1.0	3.1	5.3	<1.0	<1.0	5.4	<1.0	<1.0
	11/19/2004		A681814	<1.0	<1.0	3.5	5.7	<1.0	<1.0	4.7	<1.0	<1.0
	12/21/2004		A685816	<1.0	<1.0	4.1	5	<1.0	<1.0	6.4	<1.0	<1.0
	1/24/2005		A688376	<1.0	<1.0	3.3	2.7	<1.0	<1.0	5.0	<1.0	<1.0
	3/16/2005		A693384	<1.0	<1.0	3.6	3.1	<1.0	<1.0	5.3	<1.0	<1.0
	6/14/2005		A702981	<1.0	<1.0	2.8	3.78	<1.0	<1.0	3.6	<1.0	<1.0
	9/23/2005		A713017	<1.0	<1.0	3.23	2.47	<1.0	<1.0	4.57	<1.0	<1.0
	12/7/2005		A721026	<1.0	<1.0	4.6	3.2	<1.0	<1.0	4.8	<1.0	<1.0
	3/15/2006		A728652	<1.0	<1.0	3.4	1.5	<1.0	<1.0	4.8	<1.0	<1.0
	6/14/2006		A737762	<1.0	<1.0	2.6	1.6	<1.0	<1.0	4.6	<1.0	<1.0
	9/27/2006		A747965	<1.0	<1.0	3.6	1.6	<1.0	<1.0	6.6	<1.0	<1.0
	11/21/2006		A753698	<1.0	<1.0	3.5	1.7	<1.0	<1.0	7.4	<1.0	<1.0
	12/21/2006		A756776	<1.0	<1.0	3.5	1.9	<1.0	<1.0	6.5	<1.0	<1.0
	1/19/2007		A758754	<1.0	<1.0	2.2	1.1	<1.0	<1.0	6.0	<1.0	<1.0
	1/19/2007		A758756	<1.0	<1.0	2.0	1.4	<1.0	<1.0	5.8	<1.0	<1.0
	3/23/2007		A764757	<1.0	<1.0	1.6	1.2	<1.0	<1.0	4.2	<1.0	<1.0
	9/6/2007		A781786	<1.0	<1.0	2.7	1.7	<1.0	<1.0	7.6	<1.0	<1.0
	11/30/2007		A790717	<1.0	<1.0	2.9	1.8	<1.0	<1.0	8.3	<1.0	<1.0
	3/20/2008		A803427	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0
	5/30/2008		A812366	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	6.1	<1.0	<1.0
	9/24/2008		A824676	<1.0	<1.0	1.8	1.2	<1.0	<1.0	9.1	<1.0	<1.0
	12/3/2008		A832817	<1.0	<1.0	2.1	1.7	<1.0	<1.0	7.8	<1.0	<1.0
	3/13/2009		A841808	<1.0	<1.0	1.8	1.4	<1.0	<1.0	5.1	<1.0	<1.0
	6/18/2009		A850592	<1.0	<1.0	2.0	1.6	<1.0	<1.0	6.2	<1.0	<1.0
	9/16/2009		A858563	<1.0	<1.0	1.7	1.6	<1.0	<1.0	5.3	<1.0	<1.0
	11/4/2009		A864556	<1.0	<1.0	1.6	1.7	<1.0	<1.0	7.0	<1.0	<1.0
	1/27/2010		5034229008	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/21/2010		5037756019	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.6	<5.0	<2.0
MW-152	7/14/1995	5-20	W5070191-01	<5.0	<5.0	5.3	<5.0	<5	<5.0	150	NA	<10
	2/5/1997		W7020074-10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	150	NA	<10
	11/23/1999		253801	<5.0	<5.0	<5.0	<5.0	<10	<5.0	110	<5.0	<5.0
	2/29/2000		260573	<5.0	<5.0	5.1	<5.0	<10	<5.0	180	<5.0	<5.0
	11/8/2000		280690	<5.0	<5.0	<5.0	<5.0	<10	<5.0	180	<5.0	<2.0
	6/20/2001		296401	<5.0	<5.0	7	<5.0	<10	<5.0	240	<5.0	<2.0
	7/15/2002		324016	<1.0	<1.0	1.9	<1.0	<5.0	<1.0	139	<1.0	<1.0
	12/03/2003		503002537	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	110	<5.0	<2.0
	3/11/2004		503237224	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	79	<5.0	<2.0
	6/4/2004		503492720	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	36	<5.0	<2.0
	9/15/2004		A675215	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	62	<1.0	<1.0
	12/21/2004		A685826	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	99	<1.0	<1.0
	3/16/2005		A693387	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	68	<1.0	<1.0
	6/15/2005		A702989	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	50	<1.0	<1.0
	9/22/2005		A713009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	62.6	<1.0	<1.0
	12/7/2005		A721021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	59	<1.0	<1.0
	3/14/2006		A728642	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	260	<1.0	<1.0
	6/14/2006		A737756	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	100	<1.0	<1.0
	9/29/2006		A747983	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	110	<1.0	<1.0
	12/20/2006		A756764	<10	<10	<10	<10	<10	<10	91	<10	<10
	3/22/2007		A764733	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	110	<1.0	<1.0
	7/2/2007		A775737	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	68	<1.0	<1.0
	9/6/2007		A781782	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	52	<1.0	<1.0
	11/29/2007		A790673	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	76	<1.0	<1.0
	3/19/2008		A803416	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	42	<1.0	<1.0
	5/29/2008		A812354	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	46	<1.0	<1.0
	9/23/2008		A824663	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	61	<1.0	<1.0
	12/3/2008		A832806	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	51	<1.0	<1.0
	3/12/2009		A841826	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	69	<1.0	<1.0
	6/19/2009		A850603	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	92	<1.0	<1.0
	9/15/2009		A858544	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	35	<1.0	<1.0
	11/4/2009		A864534	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	110	<1.0	<1.0
	1/27/2010		5034229012	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	49.7	<5.0	<2.0
	5/20/2010		5037756014	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	57.9	<5.0	<2.0
MW-153	7/14/1995	4.5-19.5	W5070191-02	<5.0	<5.0	980	<5.0	<5.0	<5.0	570	NA	22
	2/6/1997		W7020074-14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	NA	<10
	2/6/1997		W7020074-23	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<10
	11/23/1999		253796	<5.0	<5.0	950	19	<10	<5.0	330	<5.0	67
	2/28/2000		260594	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280691	<5.0	<5.0	4,200	37	<10	<5.0	250	<5.0	590
	6/21/2001		296404	<5.0	<5.0	16	<5.0	<10	<5.0	7.3	<5.0	<2.0
	6/21/2001		296405	<5.0	<5.0	15	<5.0	<10	<5.0	<5.0		

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-153 (cont'd)	6/4/2004	4.5-19.5	503492670	<5.0	<5.0	790	15	<5.0	<5.0	620	<5.0	<2.0
	6/4/2004		503492696	<5.0	<5.0	850	19	<5.0	<5.0	630	<5.0	<2.0
	9/15/2004		A675218	<1.0	<1.0	380	12	<1.0	<1.0	330	<1.0	<1.0
	9/15/2004		A675222	<1.0	<1.0	390	12	<1.0	<1.0	350	<1.0	<1.0
	12/22/2004		A685835	<1.0	<1.0	58	5.0	<1.0	<1.0	200	<1.0	<1.0
	12/22/2004		A685821	<1.0	<1.0	56	4.4	<1.0	<1.0	210	<1.0	<1.0
	3/16/2005		A693390	<1.0	<1.0	50	4.4	<1.0	<1.0	200	<1.0	<1.0
	3/16/2005		A693391	<1.0	<1.0	41	3.9	<1.0	<1.0	220	<1.0	<1.0
	6/15/2005		A702991	<1.0	<1.0	160	7.1B	<1.0	<1.0	420	<1.0	<1.0
	6/15/2005		A702998	<1.0	<1.0	140	7.6	<1.0	<1.0	360	<1.0	<1.0
	9/22/2005		A713006	<1.0	<1.0	23.5	1.92	<1.0	<1.0	111	<1.0	<1.0
	9/22/2005		A713007 ⁴	<1.0	<1.0	21.7	2.25	<1.0	<1.0	109	<1.0	<1.0
	12/7/2005		A721018	<1.0	<1.0	33	2.8	<1.0	<1.0	140	<1.0	<1.0
	12/7/2005		A721019	<1.0	<1.0	30	2.9	<1.0	<1.0	160	<1.0	<1.0
	3/14/2006		A728638	<1.0	<1.0	6.5	<1.0	<1.0	<1.0	52	<1.0	<1.0
	3/14/2006		A728639	<1.0	<1.0	6.3	<1.0	<1.0	<1.0	49	<1.0	<1.0
	6/13/2006		A737752	<1.0	<1.0	87	8	<1.0	<1.0	210	<1.0	1.3
	6/13/2006		A737753	<1.0	<1.0	92	8.1	<1.0	<1.0	200	<1.0	1.4
	9/29/2006		A747980	<1.0	<1.0	26	5	<1.0	<1.0	120	<1.0	<1.0
	9/29/2006		A747981	<1.0	<1.0	28	5.3	<1.0	<1.0	180	<1.0	<1.0
	11/21/2006		A753699	<1.0	<1.0	3.5	1.6	<1.0	<1.0	7.1	<1.0	<1.0
	12/20/2006		A756759	<1.0	<1.0	76	<1.0	<1.0	<1.0	170	<1.0	<1.0
	12/20/2006		A756760	<1.0	<1.0	86	<1.0	<1.0	<1.0	180	<1.0	<1.0
	3/21/2007		A764754	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764729	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775732	<1.0	<1.0	200	13	<1.0	<1.0	220	<1.0	<1.0
	9/6/2007		A781777	<5.0	<5.0	230	19	<5.0	<5.0	84	<5.0	<5.0
	9/6/2007		A781778	<1.0	<1.0	74	9.4	<1.0	<1.0	260	<1.0	<1.0
	11/29/2007		A790669	<1.0	<1.0	180	12	<1.0	<1.0	390	<1.0	<1.0
	11/29/2007		A790670	<1.0	<1.0	190	9.3	<1.0	<1.0	400	<1.0	<1.0
	3/19/2008		A803412	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.3	<1.0	<1.0
	3/19/2008		A803413	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.6	<1.0	<1.0
	5/29/2008		A812350	<1.0	<1.0	11	2	<1.0	<1.0	89	<1.0	<1.0
	5/29/2008		A812351	<1.0	<1.0	12	2.2	<1.0	<1.0	93	<1.0	<1.0
	9/23/2008		A824670	<1.0	<1.0	32	4.9	<1.0	<1.0	260	<1.0	<1.0
	12/2/2008		A832801	<1.0	<1.0	31	3.2	<1.0	<1.0	220	<1.0	<1.0
	12/2/2008		A832802	<1.0	<1.0	29	3.2	<1.0	<1.0	220	<1.0	<1.0
	3/13/2009		A841831	<1.0	<1.0	9.9	1.6	<1.0	<1.0	91	<1.0	<1.0
	3/13/2009		A841832	<1.0	<1.0	10	1.5	<1.0	<1.0	89	<1.0	<1.0
	6/19/2009		A850606	<1.0	<1.0	3.9	<1.0	<1.0	<1.0	63	<1.0	<1.0
	6/19/2009		A850611	<1.0	<1.0	4.1	<1.0	<1.0	<1.0	63	<1.0	<1.0
	9/15/2009		A858552	<1.0	<1.0	16	1.9	<1.0	<1.0	120	<1.0	<1.0
	9/15/2009		A858555	<1.0	<1.0	20	2.1	<1.0	<1.0	130	<1.0	<1.0
	11/3/2009		A864529	<1.0	<1.0	25	2.1	<1.0	<1.0	190	<1.0	<1.0
	11/3/2009		A864530	<1.0	<1.0	24	2.2	<1.0	<1.0	180	<1.0	<1.0
	1/27/2010		5034229003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	79.5	<5.0	<2.0
	1/27/2010		5034229004	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	76.8	<5.0	<2.0
	5/20/2010		5037756012	<5.0	<5.0	8.3	<5.0	<5.0	<5.0	112	<5.0	<2.0
MW-154	7/14/1995	5-20	W5070191-12	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	NA	<1.0
	2/5/1997		W7020074-11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<1.0
	11/23/1999		253789	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0
	2/28/2000		260587	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280692	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<2.0
	6/21/2001		296410	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<2.0
	7/22/2002		324191	<5.0	<5.0	8.5	<5.0	<1.0	<5.0	<5.0	<5.0	<2.0
	12/03/2003		503002560	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237141	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/22/2004		A685834	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/14/2005		A702975	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0
	12/6/2005		A721013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2006		A756755	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775727	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775729	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/28/2007		A790704	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/2/2008		A832826	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/3/2009		A864551	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-156	9/11/1995	5-20	W5090134-03	<5.0	<5.0	30	<5.0	<5.0	<5.0	280	NA	<1.0
	2/6/1997		W7020074-16	<5.0	<5.0	7.5	<5.0	<5.0	<5.0	52	NA	<1.0
	2/6/1997		W7020074-24	<5.0	<5.0	6.9	<5.0	<5.0	<5.0	50	NA	<1.0
	11/23/1999		253807	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	48	<5.0	<5.0
	2/29/2000		260577	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	65	<5.0	<5.0
	11/8/2000		280694	<5.0	<5.0	11	<5.0	<1.0	<5.0	190	<5.0	<2.0
	6/20/2001		296402	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	79	<5.0	<2.0
	7/18/2002		324116	2.8	<1.0	15.8	<1.0	<5.0	<1.0	292	<1.0	<1.0
	12/04/2003		503002594	<5.0	<5.0	18	<5.0	<5.0	<5.0	250	<5.0	<2.0
	3/11/2004		503237133	<5.0	<5.0	28	<5.0	<5.0	<5.0	330	<5.0	<2.0
	6/11/2004		503518128	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	24	<5.0	<2.0
	6/11/2004		503518136	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	22	<5.0	<2.0
	7/16/2004		A669500	<1.0	<1.0	36	2.8	<1.0	<1.0	230	<1.0	<1.0
	8/16/2004		A671801	<1.0	<1.0	37	3.3	<1.0	<1.0	230	<1.0	<1.0
	9/14/2004		A675209	<1.0	<1.0	50	4.6	<1.0	<1.0	260	<1.0	<1.0
	10/18/2004		A678049	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0
	11/19/2004		A681813	<1.0	<1.0	52	4.2	<1.0	<1.0	260	<1.0	<1.0
	12/21/2004		A685817	<1.0	<1.0	54	3.9	<1.0	<1.0	250	<1.0	<1.0
	1/24/2005		A688375	<1.0	<1.0	35	2.9	<1.0	<1.0	130	<1.0	<1.0
	3/16/2005		A693385	<1.0	<1.0	53	4.1	<1.0	<1.0	230	<1.0	<1.0
	6/14/2005		A702980	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	29	<1.0	<1.0
	9/23/2005		A713018	<1.0	<1.0	50	4.2	<1.0	<1.0	190	<1.0	<1.0
	12/7/2005		A721027	<1.0	<1.0	41	3.4	<1.0	<1.0	160	<1.0	<1.0
	3/15/2006		A728651	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0
	6/14/2006		A737761	<1.0	<1.0	36	3.5	<1.0	<1.0	160	<1.0	<1.0
	9/27/2006		A747964	<1.0	<1.0	46	4.7	<1.0	<1.0	240	<1.0	<1.0
	11/21/2006		A753700	<1.0	<1.0	11	1.3	<1.0	<1.0	100	<1.0	<1.0
	12/21/2006		A756775	<1.0	<1.0	55	<1.0	<1.0	<1.0	240	<1.0	<1.0
	1/19/2007		A758755	<1.0	<1.0	34	3.4	<1.0	<1.0	200	<1.0	<1.0
	3/23/2007		A7647									

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-156 (cont'd.)	9/24/2008	5-20	A824675	<1.0	<1.0	43	3.5	<1.0	<1.0	180	<1.0	<1.0
	12/3/2008		A832816	<5.0	<5.0	71	<5.0	<5.0	<5.0	160	<5.0	<5.0
	3/12/2009		A841806	<1.0	<1.0	27	2.4	<1.0	<1.0	120	<1.0	<1.0
	6/18/2009		A850593	<1.0	<1.0	23	2.1	<1.0	<1.0	79	<1.0	<1.0
	9/16/2009		A858564	<1.0	<1.0	54	5.1	<1.0	<1.0	210	<1.0	<1.0
	11/4/2009		A864555	<1.0	<1.0	38	3.8	<1.0	<1.0	140	<1.0	<1.0
	1/27/2010		5034229009	<5.0	<5.0	25.1	<5.0	<5.0	<5.0	115	<5.0	<2.0
	5/20/2010		5037756018	<5.0	<5.0	31	<5.0	<5.0	<5.0	140	<5.0	<2.0
MW-157	2/6/1997	5-20	W7020074-19	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	60	NA	<100
	2/26/1997		W7020396-01	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	100	NA	<10
	2/29/2000		260581	<5.0	<5.0	<5.0	<5.0	<10	<5.0	100	<5.0	<5.0
	11/8/2000		280695	<5.0	<5.0	<5.0	<5.0	<10	<5.0	120	<5.0	<2.0
	6/21/2001		296411	<5.0	<5.0	7.3	<5.0	<10	<5.0	65	<5.0	<2.0
	7/19/2002		324153	<5.0	<5.0	<5.0	<5.0	<10	<5.0	99	<5.0	<2.0
	12/4/2003		503002602	<5.0	<5.0	5.3	<5.0	<5.0	<5.0	100	<5.0	<2.0
	3/11/2004		503237125	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	110	<5.0	<2.0
	6/4/2004		503493256	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	16	<5.0	<2.0
	9/14/2004		A675208	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	90	<1.0	<1.0
	12/21/2004		A685815	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	120	<1.0	<1.0
	3/15/2005		A693378	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	89	<1.0	<1.0
	6/14/2005		A702982	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	94	<1.0	<1.0
	9/23/2005		A713016	<1.0	<1.0	1.91	<1.0	<1.0	<1.0	94.9	<1.0	<1.0
	12/5/2005		NS									
	3/13/2006		NS									
	6/15/2006		A737767	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	89	<1.0	<1.0
	10/13/2006		A749067	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	120	<1.0	<1.0
	12/21/2006		A756777	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	110	<1.0	<1.0
	3/23/2007		A764758	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	57	<1.0	<1.0
	7/3/2007		A775757	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	100	<1.0	<1.0
	9/7/2007		A781795	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	120	<1.0	<1.0
	11/30/2007		A790706	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	100	<1.0	<1.0
	3/19/2008		A803426	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.3	<1.0	<1.0
	5/30/2008		A812364	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	53	<1.0	<1.0
	9/24/2008		A824677	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	71	<1.0	<1.0
	12/3/2008		A832818	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	95	<1.0	<1.0
	3/12/2009		A841816	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	98	<1.0	<1.0
	9/16/2009		A858558	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	70	<1.0	<1.0
	11/4/2009		A864558	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	92	<1.0	<1.0
	1/27/2010		5034229007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	89.1	<5.0	<2.0
	5/21/2010		5037756020	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	88.1	<5.0	<2.0
MW-160	3/2/2000	3-13	260551	<5.0	<5.0	61	<5.0	<10	<5.0	<5.0	<5.0	<5.0
	11/8/2000		280698	<5.0	<5.0	51	<5.0	<10	<5.0	<5.0	<5.0	5.4
	6/21/2001		296417	<5.0	<5.0	47	<5.0	<10	<5.0	<5.0	<5.0	3.3
	7/17/2002		324027	<1.0	<1.0	107	1.5	<5.0	<1.0	<1.0	<1.0	5.2
	7/17/2002		324028	<1.0	<1.0	111	1.5	<5.0	<1.0	<1.0	<1.0	5
	12/04/2003		503002610	<5.0	<5.0	240	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237281	<5.0	<5.0	240	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/4/2004		503493264	<5.0	<5.0	73	<5.0	<5.0	<5.0	400	<5.0	<2.0
	9/16/2004		A675223	<1.0	<1.0	180	2.5	<1.0	<1.0	<1.0	<1.0	7.2
	12/22/2004		A685818	<1.0	<1.0	120	1.8	<1.0	<1.0	<1.0	<1.0	8.7
	3/17/2005		A693399	<1.0	<1.0	190	2.8	<1.0	<1.0	<1.0	<1.0	2.7
	6/13/2005		A702969	<1.0	<1.0	56	<1.0	1.0	<1.0	<1.0	<1.0	9
	9/23/2005		A713022	<1.0	<1.0	55	<1.0	<1.0	<1.0	<1.0	<1.0	18
	12/6/2005		A721006	<1.0	<1.0	95	2.3	<1.0	<1.0	<1.0	<1.0	25
	4/5/2006		A730656	<1.0	<1.0	92	1.9	<1.0	<1.0	<1.0	<1.0	9.5
	6/13/2006		A737750	<1.0	<1.0	63	1.1	<1.0	<1.0	<1.0	<1.0	18
	10/13/2006		A749068	<1.0	<1.0	86	1.8	<1.0	<1.0	<1.0	<1.0	7.9
	1/19/2007		A758748	<1.0	<1.0	60	1.4	<1.0	<1.0	<1.0	<1.0	7.4
	3/22/2007		A764736	<1.0	<1.0	58	1.6	<1.0	<1.0	<1.0	<1.0	6.5
	7/2/2007		A775736	<1.0	<1.0	5.4	<1.0	<1.0	<1.0	1.5	<1.0	2.0
	9/6/2007		A781787	<1.0	<1.0	5.9	<1.0	<1.0	<1.0	1.2	<1.0	2.1
	11/28/2007		A790701	<1.0	<1.0	22	<1.0	<1.0	<1.0	<1.0	<1.0	17
	4/15/2008		A806503	<1.0	<1.0	40	<1.0	<1.0	<1.0	<1.0	<1.0	5.4
	5/30/2008		A812367	<1.0	<1.0	22	<1.0	<1.0	<1.0	<1.0	<1.0	2.5
	9/24/2008		A824679	<1.0	<1.0	25	<1.0	<1.0	<1.0	<1.0	<1.0	5.5
	12/4/2008		A832820	<1.0	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	11
	3/13/2009		A841828	<1.0	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	2.7
	1/27/2010		5034229015	<5.0	<5.0	16.5	<5.0	<5.0	<5.0	<5.0	<5.0	2.3
	5/21/2010		5037756022	<5.0	<5.0	17.5	<5.0	<5.0	<5.0	<5.0	<5.0	4.5
MW-161	3/2/2000	3-13	260552	<5.0	<5.0	160	<5.0	<10	<5.0	170	<5.0	8.2
	11/8/2000		280699	<5.0	79	13,000	80	<10	<5.0	4,300	<5.0	570
	6/21/2001		296416	18	36	6,700	37	<10	<5.0	2,700	<5.0	170
	7/18/2002		324103	<1.0	11.7	7,920	55.4	<5.0	<1.0	3,550	<1.0	120
	12/04/2003		503002628	<5.0	<5.0	11	<5.0	<5.0	<5.0	53	<5.0	<2.0
	3/11/2004		503237299	<5.0	<5.0	330	<5.0	<5.0	<5.0	200	<5.0	<2.0
	6/4/2004		503493272	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/16/2004		A675224	<1.0	8.4	4,500	41	<1.0	<1.0	1,900	<1.0	110
	12/22/2004		A685819	<1.0	3	1,700	16	<1.0	<1.0	660	<1.0	25
	3/17/2005		A693400	<1.0	2.7	1,500	25	<1.0	<1.0	810	<1.0	4.1
	6/13/2005		A702970	<1.0	2.0	1,200	15	1.3	<1.0	370	<1.0	27
	9/26/2005		A713024	<1.0	<1.0	600	5.7	<1.0	<1.0	150	<1.0	10
	12/6/2005		A721007	<1.0	<1.0	7.3	<1.0	<1.0	<1.0	47	<1.0	<1.0
	12/6/2005		A721008	<1.0	<1.0	13	<1.0	<1.0	<1.0	50	<1.0	<1.0
	4/5/2006		A730657	<1.0	<1.0	21	<1.0	<1.0	<1.0	28	<1.0	<1.0
	4/5/2006		A730659	<1.0	<1.0	19	<1.0	<1.0	<1.0	26	<1.0	<1.0
	6/13/2006		A737751	<1.0	<1.0	360	3.9	<1.0	<1.0	280	<1.0	<1.0
	10/13/2006		A749069	<1.0	3.7	2,300	27	<1.0	<1.0	1,300	<1.0	83
	10/13/2006		A749070	<1.0	4.0	2,300	31	<1.0	<1.0	1,300	<1.0	95
	1/19/2007		A758749	<1.0	<1.0	4	<1.0	<1.0	<1.0	14	<1.0	<1.0
	1/19/2007		A758750	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	14	<1.0	<1.0
	3/22/2007		A764737	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	10	<1.0	<1.0
	7/2/2007		A775735	<1.0	<1.0	4.8	<1.0	<1.0	<1.0	1.3	<1.0	1.8
	9/6/2007		A781788	<1.0	<1.0	6.6	<1.0	<1.0	<1.0	1.5	<1.0	2.3
	11/28/2007		A790702	<1.0	<1.0	35	<1.0	<1.0	<1.0	59	<1.0	<1.0
	11/28/2007		A790703	<1.0	<1.0	50	1.1	<1.0	<1.0	72	<1.0	<1.0
	4/15/2008		A806502	<1.0	<1.0	27	<1.0	<1.0	<1.0	8.9	<1.0	<1.0
	5/30/2008		A812368	<1.0	<1.0	690	8.8	<1.0	<1.0	550	<1.0	23
	9/24/2008		A824680	<1.0	1.8	1,200	20	<1.0	<1.0	1,100	<1.0	29

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride		
MW-163	11/8/2000	10-20	280701	<5.0	11	600	11	<10	<5.0	1,500	<5.0	<2.0		
	6/20/2001		296395	<5.0	13	800	14	<10	<5.0	1,800	<5.0	<2.0		
	7/18/2002		324117	<1.0	<1.0	488	6.2	<5.0	<1.0	1,650	<1.0	<1.0		
	7/18/2002		324119	<1.0	<1.0	521	7.1	<5.0	<1.0	1,600	<1.0	<1.0		
	7/16/2004		A669497	<1.0	<1.0	250	5.9	<1.0	<1.0	1,300	<1.0	<1.0		
	7/16/2004		A669498	<1.0	<1.0	240	5.4	<1.0	<1.0	1,100	<1.0	<1.0		
	8/16/2004		A671798	<1.0	<1.0	240	3.7	<1.0	<1.0	790	<1.0	<1.0		
	8/16/2004		A671803	<1.0	<1.0	210	3.8	<1.0	<1.0	680	<1.0	<1.0		
	10/18/2004		A678053	<1.0	<1.0	530E	9.6	<1.0	<1.0	1,600	<1.0	<1.0		
	11/19/2004		A681810	<1.0	2.2	1,300	15	1.1	<1.0	700	<1.0	<1.0		
	12/21/2004		A685841	<1.0	<1.0	620	18	<1.0	<1.0	470	<1.0	<1.0		
	1/24/2005		A688371	<1.0	<1.0	380	9	<1.0	<1.0	360	<1.0	<1.0		
	3/15/2005		A693406	<1.0	<1.0	650	15	<1.0	<1.0	400	<1.0	<1.0		
	6/14/2005		A702978	<1.0	<1.0	430	14	3.1	<1.0	430	<1.0	<1.0		
	9/23/2005		A713028	<1.0	2.0	1,200	34	<1.0	<1.0	640	<1.0	54		
	12/7/2005		A721031	<1.0	1.5	830	35	<1.0	<1.0	520	<1.0	220		
	3/15/2006		A728649	<1.0	<1.0	270	9.1	<1.0	<1.0	410	<1.0	96		
	6/15/2006		A737764	<1.0	<1.0	220	8.1	<1.0	<1.0	440	<1.0	52		
	9/26/2006		A747961	<1.0	<1.0	120	9.7	<1.0	<1.0	450	<1.0	20		
	11/21/2006		A753703	<1.0	1.2	1,200	11	<1.0	<1.0	58	<1.0	42		
	12/21/2006		A756773	<1.0	<1.0	91	2.6	<1.0	<1.0	28	<1.0	13		
	1/19/2007		A758759	<10	<10	170	<10	10	<10	<10	<10	58		
	3/22/2007		A764741	<1.0	<1.0	210	8.1	<1.0	<1.0	23	<1.0	230		
	7/3/2007		A775754	<1.0	<1.0	41	1.7	<1.0	<1.0	46	<1.0	<1.0		
	9/7/2007		A781792	<1.0	<1.0	18	1.2	<1.0	<1.0	16	<1.0	30		
	11/30/2007		A790714	<1.0	<1.0	38	1.1	<1.0	<1.0	14	<1.0	52		
	3/20/2008		A803423	<1.0	<1.0	18	<1.0	<1.0	<1.0	11	<1.0	2.4		
	5/29/2008		A812359	<1.0	<1.0	100	5.2	<1.0	<1.0	22	<1.0	77		
	9/24/2008		A824673	<1.0	<1.0	5.5	1.3	<1.0	<1.0	5.6	<1.0	15		
	12/3/2008		A832814	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0		
	3/13/2009		A841812	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	10	<1.0	1.0		
	6/18/2009		A850590	<1.0	<1.0	39	1.5	<1.0	<1.0	32	<1.0	11		
	9/15/2009		A858540	<1.0	<1.0	19	<1.0	<1.0	<1.0	20	<1.0	12		
	11/4/2009		A864553	<1.0	<1.0	16	<1.0	<1.0	<1.0	93	<1.0	9.2		
	1/27/2010		5034231003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	67	<5.0	<2.0		
	5/20/2010		5037760005	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	53.9	<5.0	<2.0		
	MW-164		11/7/2000	16-26	280702	<5.0	<5.0	<5.0	<5.0	<10	<5.0	18	<5.0	<2.0
			6/21/2001		296413	<5.0	<5.0	<5.0	<5.0	<10	<5.0	11	<5.0	<2.0
			7/19/2002		324154	<5.0	<5.0	<5.0	<5.0	<10	<5.0	17	<5.0	<2.0
			12/05/2003		503002636	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	21	<5.0	<2.0
3/11/2004		503237117	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	20	<5.0	<2.0		
6/4/2004		503493249	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	16	<5.0	<2.0		
9/15/2004		A675228	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	21	<1.0	<1.0		
12/20/2004		A685806	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	22	<1.0	<1.0		
3/15/2005		A693377	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0		
6/14/2005		A702983	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0		
9/23/2005		A713015	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0		
12/7/2005		A721028	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	20	<1.0	<1.0		
3/15/2006		A728653	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	17	<1.0	<1.0		
6/15/2006		A737768	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0		
9/26/2006		A747959	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	17	<1.0	<1.0		
12/21/2006		A756778	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	24	<1.0	<1.0		
3/23/2007		A764759	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	21	<1.0	<1.0		
7/3/2007		A775758	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	25	<1.0	<1.0		
9/7/2007		A781796	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	29	<1.0	<1.0		
11/30/2007		A790707	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	<1.0		
3/20/2008		A803431	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	22	<1.0	<1.0		
5/30/2008		A812365	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0		
9/24/2008		A824678	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	23	<1.0	<1.0		
12/3/2008		A832819	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	23	<1.0	<1.0		
3/13/2009		A841809	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	17	<1.0	<1.0		
6/18/2009		A850587	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	16	<1.0	<1.0		
9/16/2009		A858557	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	<1.0		
11/4/2009		A864557	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	21	<1.0	<1.0		
1/27/2010		5034229010	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	15.4	<5.0	<2.0		
5/21/2010		5037756021	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	16.6	<5.0	<2.0		
MW-165S	6/1/2001	10-20	294563	<5.0	<5.0	23.8	<5.0	<10	<5.0	<5.0	<5.0	<2.0		
	6/1/2001		294564	<5.0	<5.0	23.6	<5.0	<10	<5.0	<5.0	<5.0	<2.0		
	7/18/2002		324108	<1.0	<1.0	66.6	<1.0	<5.0	<1.0	<1.0	<1.0	36.6		
	12/05/2003		503002644	<5.0	<5.0	25	<5.0	<5.0	<5.0	<5.0	<5.0	10		
	3/11/2004		503237083	<5.0	<5.0	23	<5.0	<5.0	<5.0	<5.0	<5.0	13		
	6/3/2004		503493066	<5.0	<5.0	19	<5.0	<5.0	<5.0	<5.0	<5.0	6.5		
	9/14/2004		A675200	<1.0	<1.0	22	<1.0	<1.0	<1.0	<1.0	<1.0	6.4		
	12/20/2004		A685808	<1.0	<1.0	27	<1.0	<1.0	<1.0	<1.0	<1.0	13		
	3/15/2005		A693380	<1.0	<1.0	44	<1.0	<1.0	<1.0	<1.0	<1.0	26		
	6/13/2005		A702972	<1.0	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	4.2		
	9/21/2005		A713002	<1.0	<1.0	19.5	<1.0	<1.0	<1.0	<1.0	<1.0	13.6		
	12/6/2005		A721010	<1.0	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	16		
	3/14/2006		A728635	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	1.1		
	6/13/2006		A737746	<1.0	<1.0	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	6.3		
	9/27/2006		A747971	<1.0	<1.0	9.1	<1.0	<1.0	<1.0	<1.0	<1.0	15		
	12/21/2006		A756783	<1.0	<1.0	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	14		
	3/21/2007		A764747	<1.0	<1.0	7.0	<1.0	<1.0	<1.0	<1.0	<1.0	33		
	7/2/2007		A775742	<1.0	<1.0	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	17		
	9/7/2007		A781802	<1.0	<1.0	4.3	<1.0	<1.0	<1.0	<1.0	1.1	10		
	11/28/2007		A790697	<1.0	<1.0	4.1	<1.0	<1.0	<1.0	<1.0	<1.0	4.0		
	3/19/2008		A803404	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	2.2		
	5/28/2008		A812343	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	7.4		
	9/23/2008		A824655	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	2.6		
	12/2/2008		A832834	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	2.9		
	3/12/2009		A841819	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	1.1		
	6/18/2009		A850585	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	4.7		
	9/15/2009		A858549	<1.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	3.2		
11/3/2009	A864547	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	2.4				
2/3/2010	5034508006	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0				
5/19/2010	5037756006	<5.0	<5.0	<5.0	<5.									

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-166S (cont'd.)	3/15/2005	10-20	A693382	<1.0	<1.0	290	66	<1.0	<1.0	<1.0	<1.0	61
	6/13/2005		A702973	<1.0	<1.0	310	7.1	<1.0	<1.0	<1.0	<1.0	11
	9/21/2005		A713000 ⁵	<1.0	<1.0	298	3.77	<1.0	<1.0	<1.0	<1.0	10
	12/6/2005		A721011	<1.0	<1.0	280	16	<1.0	<1.0	<1.0	<1.0	11
	3/14/2006		A728637	<1.0	<1.0	89	1.6	<1.0	<1.0	<1.0	<1.0	4.1
	6/13/2006		A737749	<1.0	<1.0	340	9.8	<1.0	<1.0	<1.0	<1.0	10
	9/27/2006		A747974	<1.0	<1.0	360	17	<1.0	<1.0	<1.0	<1.0	17
	12/21/2006		A756787	<1.0	<1.0	340	12	<1.0	<1.0	<1.0	<1.0	11
	3/21/2007		A764749	<1.0	<1.0	44	1.8	<1.0	<1.0	<1.0	<1.0	1.3
	7/2/2007		A775744	<1.0	<1.0	340	12	<1.0	<1.0	<1.0	<1.0	11
	9/7/2007		A781805	<1.0	<1.0	280	12	<1.0	<1.0	<1.0	<1.0	15
	11/28/2007		A790699	<1.0	<1.0	350	6.9	<1.0	<1.0	<1.0	<1.0	14
	3/19/2008		A803406	<1.0	<1.0	270	7.9	<1.0	<1.0	<1.0	<1.0	16
	5/28/2008		A812345	<1.0	<1.0	230	7	<1.0	<1.0	<1.0	<1.0	6.7
	9/23/2008		A824657	<1.0	<1.0	250	18	<1.0	<1.0	<1.0	<1.0	7.7
	12/2/2008		A832836	<1.0	<1.0	250	7.3	<1.0	<1.0	<1.0	<1.0	11
	3/12/2009		A841817	<1.0	<1.0	190	5.6	<1.0	<1.0	<1.0	<1.0	5.6
	6/18/2009		A850584	<1.0	<1.0	17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/15/2009		A858546	<1.0	<1.0	230	8.1	<1.0	<1.0	<1.0	<1.0	7.2
	11/3/2009		A864550	<1.0	<1.0	170	9.7	<1.0	<1.0	<1.0	<1.0	6.5
2/3/2010	5034508008	<5.0	<5.0	159	5.0	<5.0	<5.0	<5.0	<5.0	2.8		
5/19/2010	5037756009	<5.0	<5.0	145	6.1	<5.0	<5.0	<5.0	<5.0	6.6		
MW-167S	6/1/2001	12-22	294566	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	11
	7/17/2002		324026	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	1.7
	12/04/2003		503002669	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
	3/11/2004		503237109	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
	6/3/2004		503493223	< 5.0	< 5.0	7.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.3
	9/14/2004		A675204	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9
	12/21/2004		A685814	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20
	3/15/2005		A693375	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/13/2005		A702967	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	1.1
	9/23/2005		A713021	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0
	11/7/2005		A717640	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	15
	12/6/2005		A721004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	26
	12/6/2005		A721005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	26
	3/13/2006		A728628	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/12/2006		A737739	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/27/2006		A747968	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2006		A756781	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/21/2007		A764744	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/2/2007		A775740	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/7/2007		A781799	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0
11/28/2007	A790694	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0		
3/19/2008	A803402	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
5/28/2008	A812340	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
9/23/2008	A824653	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.5	<1.0	<1.0		
12/1/2008	A832830	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1		
12/1/2008	A832831	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3		
3/12/2009	A841821	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
6/19/2009	A850599	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
9/16/2009	A858561	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
11/3/2009	A864544	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
2/3/2010	5034508003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0		
5/19/2010	5037756005	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0		
MW-168S	6/1/2001	12-22	294567	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<2.0
	7/18/2002		324110	<1.0	<1.0	45.5	<1.0	<5.0	49.8	10.8	<1.0	4.1
	7/18/2002		324111	<1.0	<1.0	46	<1.0	<5.0	52.7	11.3	<1.0	4.1
	11/7/2005		A717641	<1.0	<1.0	66	3.7	<1.0	370	20	<1.0	3.4
MW-169S	1/30/2002	15-25	312995	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0
	7/17/2002		324019	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	1.3
	12/04/2003		503002693	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/11/2004		503237042	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2004		503493199	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/14/2004		A675207	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2004		A685812	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1
	3/15/2005		A693374	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1
	6/13/2005		A702966	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7
	9/22/2005		A713012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.05
	11/7/2005		A717638	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3
	12/6/2005		A721000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/13/2006		A728626	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0
	6/12/2006		A737738	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2
	9/27/2006		A747966	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2006		A756779	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5
	3/21/2007		A764743	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
	7/3/2007		A775759	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/7/2007		A781797	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	1.2
	11/28/2007		A790693	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3/19/2008	A803401	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3		
5/28/2008	A812338	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
9/23/2008	A824650	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	<1.0	<1.0		
12/1/2008	A832829	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
3/12/2009	A841824	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
6/19/2009	A850601	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
9/16/2009	A858559	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
11/3/2009	A864540	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
2/3/2010	5034508001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0		
5/19/2010	5037756002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0		
MW-170S	1/31/2002	17-27	313002	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	6.4
	7/17/2002		324023	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	2.2
	11/3/2009		A864541	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.2
	11/3/2009		A864542	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.3

Table 2a
Shallow Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene	Vinyl chloride
MW-173 (cont'd.)	12/21/2006	8-18	A756774	<10	<10	39	<10	<10	<10	270	<10	<10
	1/19/2007		A758760	<1.0	<1.0	49	10	<1.0	<1.0	250	<1.0	<1.0
	3/22/2007		A764755	<1.0	<1.0	25	7.3	<1.0	<1.0	300	<1.0	<1.0
	7/3/2007		A775756	<1.0	<1.0	23	6.9	<1.0	<1.0	260	<1.0	<1.0
	9/7/2007		A781794	<1.0	<1.0	14	3.3	<1.0	<1.0	180	<1.0	<1.0
	11/30/2007		A790715	<1.0	<1.0	9.5	2.3	<1.0	<1.0	120	<1.0	<1.0
	3/20/2008		A803424	<1.0	<1.0	75	8.0	<1.0	<1.0	160	<1.0	54
	5/30/2008		A812360	<1.0	<1.0	160	8.3	<1.0	<1.0	190	<1.0	1.6
	9/24/2008		A824674	<1.0	<1.0	140	16	<1.0	<1.0	320	<1.0	2.0
	12/3/2008		A832815	<1.0	<1.0	20	4.0	<1.0	<1.0	150	<1.0	<1.0
	3/13/2009		A841811	<1.0	<1.0	8.3	2.6	<1.0	<1.0	89	<1.0	<1.0
	6/18/2009		A850588	<1.0	<1.0	71	14	<1.0	<1.0	230	<1.0	<1.0
	9/15/2009		A858542	<1.0	<1.0	15	3.8	<1.0	<1.0	140	<1.0	<1.0
	11/4/2009		A864554	<1.0	<1.0	11	3.1	<1.0	<1.0	110	<1.0	<1.0
	1/27/2010		5034231002	<5.0	<5.0	10	<5.0	<5.0	<5.0	148	<5.0	<2.0
	5/20/2010		5037760006	<5.0	<5.0	7.5	<5.0	<5.0	<5.0	115	<5.0	<2.0
IW-1	3/3/2004	10.5-15.5	503207557	NA	NA	NA	NA	NA	NA	1,000	NA	NA
	7/16/2004		A669495	<1.0	<1.0	140	4.8	<1.0	<1.0	1,100	<1.0	<1.0
	8/16/2004		A671797	<1.0	<1.0	87	3.5	<1.0	<1.0	900	<1.0	<1.0
	10/18/2004		A678052	<1.0	<1.0	330E	7.8	<1.0	<1.0	1,500	<1.0	<1.0
	11/19/2004		A681808	<1.0	2.8	1,700	8.3	4.3	<1.0	640	<1.0	2.2
	12/21/2004		A685840	<1.0	5.6	3,600	43	1.1E	<1.0	51	<1.0	2.2
	1/24/2005		A688372	<1.0	3.5	1,700	33	<1.0	<1.0	32	<1.0	1.7
	3/15/2005		A693405	<1.0	3.7	2,700	46	<1.0	<1.0	11	<1.0	<1.0
	6/14/2005		A702977	<1.0	3.3	2,400	55	3.0	<1.0	29	<1.0	5.5
	9/23/2005		A713027	<1.0	2.1	1,400	40	<1.0	<1.0	59	<1.0	350
	12/7/2005		A721025	<1.0	2.9	140	25	<1.0	<1.0	50	<1.0	620
	3/15/2006		A728648	<1.0	<1.0	380	31	<1.0	<1.0	100	<1.0	25
	6/15/2006		A737763	<1.0	3.0	430	20	<1.0	<1.0	120	<1.0	83
	9/26/2006		A747962	<1.0	1.7	230	20	<1.0	<1.0	200	<1.0	61
	11/21/2006		A753702	<1.0	1.0	620	9.8	6.2	<1.0	26	<1.0	100
	12/21/2006		A756772	<10	<10	340	<10	10	<10	<10	<10	170
	1/19/2007		A758758	<1.0	<1.0	71	6.5	1.3	<1.0	1.4	<1.0	690
	3/22/2007		A764740	<1.0	<1.0	77	3.3	<1.0	<1.0	2.6	<1.0	200
	7/3/2007		A775755	<1.0	<1.0	7.1	<1.0	<1.0	<1.0	3.2	<1.0	<1.0
	9/7/2007		A781793	<1.0	<1.0	14	1.1	<1.0	<1.0	1.8	<1.0	82
	11/30/2007		A790712	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	1.0	<1.0	7.2
	3/20/2008		A803422	<1.0	<1.0	50	3.1	<1.0	<1.0	2.6	<1.0	47
	5/29/2008		A812358	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	<1.0	1.3
	9/24/2008		A824672	<1.0	<1.0	4.4	1.2	<1.0	<1.0	88	<1.0	6.4
	12/3/2008		A832813	<1.0	<1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.7
	3/13/2009		A841813	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	6/18/2009		A850589	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25
	9/15/2009		A858539	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/4/2009		A864552	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9
	1/27/2010		5034231004	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/20/2010		5037760004	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IW-2	3/3/2004	12-17	503207565	<1.0	NA	NA	NA	NA	NA	310	NA	NA
	7/16/2004		A669496	<1.0	<1.0	44	2.0	<1.0	<1.0	170	<1.0	<1.0
	8/16/2004		A671799	<1.0	<1.0	46	1.8	<1.0	<1.0	210	<1.0	<1.0
	10/18/2004		A678050	<1.0	<1.0	96	2.9	<1.0	<1.0	290	<1.0	<1.0
	11/19/2004		A681812	<1.0	1.9	550	5.8	<1.0	<1.0	150	<1.0	2.5
	12/21/2004		A685842	<1.0	<1.0	310	6.9	<1.0	<1.0	230	<1.0	1.1
	1/24/2005		A688374	<1.0	<1.0	240	4.3	<1.0	<1.0	190	<1.0	1.7
	3/15/2005		A693407	<1.0	<1.0	280	4.2	<1.0	<1.0	130	<1.0	21
	6/14/2005		A702976	<1.0	<1.0	130	3.3	4.3	<1.0	160	<1.0	<1.0
	9/23/2005		A713026	<1.0	<1.0	37	2.1	<1.0	<1.0	130	<1.0	<1.0
	12/7/2005		A721024	<1.0	<1.0	51	3.1	<1.0	<1.0	190	<1.0	<1.0
	3/15/2006		A728647	<1.0	<1.0	54	2.6	<1.0	<1.0	180	<1.0	<1.0
	6/13/2006		A737745	<1.0	<1.0	18	1.9	<1.0	<1.0	110	<1.0	<1.0
	9/26/2006		A747963	<1.0	<1.0	32	3.0	<1.0	<1.0	110	<1.0	<1.0
	11/21/2006		A753701	<1.0	<1.0	89	3.1	<1.0	<1.0	83	<1.0	12
	12/21/2006		A756771	<10	<10	41	<10	<10	<10	100	<10	<10
	1/19/2007		A758757	<1.0	<1.0	59	2.0	<1.0	<1.0	91	<1.0	8.6
	3/22/2007		A764739	<1.0	<1.0	31	1.9	<1.0	<1.0	100	<1.0	3.3
	7/3/2007		A775752	<1.0	<1.0	15	2.2	<1.0	<1.0	130	<1.0	2.9
	7/3/2007		A775753	<1.0	<1.0	14	2.0	<1.0	<1.0	140	<1.0	2.5
	9/6/2007		A781785	<1.0	<1.0	20	1.9	<1.0	<1.0	130	<1.0	<1.0
	11/30/2007		A790713	<1.0	<1.0	18	1.1	<1.0	<1.0	110	<1.0	<1.0
	3/20/2008		A803421	<1.0	<1.0	64	2.3	<1.0	<1.0	100	<1.0	4.5
	5/29/2008		A812357	<1.0	<1.0	16	1.1	<1.0	<1.0	75	<1.0	<1.0
	9/24/2008		A824671	<1.0	<1.0	27	1.9	<1.0	<1.0	190	<1.0	<1.0
	12/3/2008		A832812	<1.0	<1.0	17	1.1	<1.0	<1.0	110	<1.0	13
	3/13/2009		A841814	<1.0	<1.0	30	1.4	<1.0	<1.0	85	<1.0	11
	6/18/2009		A850591	<1.0	<1.0	15	<1.0	<1.0	<1.0	60	<1.0	<1.0
	9/15/2009		A858541	<1.0	<1.0	19	1.4	<1.0	<1.0	89	<1.0	<1.0
	11/4/2009		A864538	<1.0	<1.0	21	1.1	<1.0	<1.0	90	<1.0	4.0
	1/27/2010		5034231005	<5.0	<5.0	14.9	<5.0	<5.0	<5.0	67	<5.0	<2.0
	5/20/2010		5037760003	<5.0	<5.0	18.6	<5.0	<5.0	<5.0	66.3	<5.0	<2.0
Tier II Residential Cleanup Goals - Groundwater ⁽¹⁾												
				0.289 ⁽²⁾	7	70	128 ⁽²⁾	6.30 ⁽²⁾	5	5	13.7 ⁽²⁾	2
Tier II Non-Residential Cleanup Goals - Groundwater ⁽¹⁾												
				46.1 ⁽²⁾	7	1,022	2,040 ⁽²⁾	381 ⁽²⁾	56.1	260	5,110 ⁽²⁾	10

See last page for footnotes.
Detected compound exceeds the VRP Tier II Non-Residential Cleanup Goal
Detected compound exceeds the VRP Tier II Residential Cleanup Goal
Detected compound is below the VRP Tier II Residential Cleanup Goal

VOCs = Volatile Organic Compounds
Samples analyzed using EPA SW-846 Method 8260
µg/L = micrograms per liter
E = Result is Estimated NA = Not Applicable NS = Not Sampled B = Detected in Blank
*cis-1,2-Dichloroethylene and trans-1,2-Dichloroethene results are combined
⁽¹⁾ Indiana Department of Environmental Management/Voluntary Remediation Program Resource Guide, Appendix F Tier II Cleanup Goals-Human Health Evaluation by Office of Environmental Health Evaluation by Office of Environmental Response, July 1996.
⁽²⁾ Calculated using surrogate toxicity values and Tier II equations.
⁽³⁾ Exceeded analytical holding time for vinyl chloride.
⁽⁴⁾ Exceeded analytical holding time.
⁽⁵⁾ Exceeded analytical holding time for cis-1,2-Dichloroethene.

Table 2b
Deep Monitoring Well Groundwater Analytical Results for VOCs (ug/L)
Former General Motors Corporation
Allison Gas Turbine Division, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloro-methane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethyl-benzene	Vinyl chloride
MW-165D	1/30/2002	42-47	312999	<5.0	7	3,300	11	<10	<5.0	<5.0	<5.0	1,500
	7/18/2002		324109	<1.0	4.2	2,820	9.6	<5.0	<1.0	<1.0	<1.0	973
	12/05/2003		503002651	<5.0	6.7	2,700	12	<5.0	<5.0	<5.0	<5.0	980
	3/11/2004		503237075	<5.0	6.2	2,300	16	<5.0	<5.0	<5.0	<5.0	840
	6/3/2004		503493041	<5.0	<5.0	2,000	8.8	<5.0	<5.0	<5.0	<5.0	400
	6/3/2004		503493041	<5.0	<5.0	2,000	8.8	<5.0	<5.0	<5.0	<5.0	400
	9/14/2004		A675199	<25	<25	1,800	<25	<25	<25	<25	<25	740
	12/20/2004		A685807	<1.0	6	3,300	15	<1.0	<1.0	<1.0	<1.0	1,000
	3/15/2005		A693379	<1.0	3.3	1,900	12	<1.0	<1.0	<1.0	<1.0	640
	6/13/2005		A702971	<1.0	1.1	1,400	6.2	3.0	<1.0	<1.0	<1.0	14
	9/21/2005		A713001 ³	<1.0	3.45	2,270	7.41	<1.0	<1.0	<1.0	<1.0	921
	12/6/2005		A721009	<1.0	3.8	2,200	34	<1.0	<1.0	<1.0	<1.0	780
	3/14/2006		A728634	<1.0	2.5	1,600	6.2	<1.0	<1.0	<1.0	<1.0	400
	6/13/2006		A737747	<1.0	1.6	1,100	11	<1.0	<1.0	<1.0	<1.0	560
	9/27/2006		A747972	<1.0	2.6	1,800	20	<1.0	<1.0	<1.0	<1.0	770
	12/21/2006		A756785	<1.0	2.3	1,600	16	<1.0	<1.0	<1.0	<1.0	860
	3/21/2007		A764748	<1.0	1.2	1,200	13	<1.0	<1.0	<1.0	<1.0	840
	7/2/2007		A775743	<1.0	1.0	810	7.2	<1.0	<1.0	<1.0	<1.0	<1.0
	9/7/2007		A781803	<1.0	<1.0	4.4	1.9	<1.0	<1.0	<1.0	<1.0	<1.0
	11/28/2007		A790698	<1.0	1.5	1,200	5.2	<1.0	<1.0	<1.0	<1.0	610
	3/19/2008		A803405	<1.0	<1.0	310	5.1	<1.0	<1.0	<1.0	<1.0	190
	5/28/2008		A812344	<10	<10	470	<10	<10	<10	<10	<10	530
	9/23/2008		A824654	<10	<10	300	<10	<10	<10	<10	<10	350
	12/2/2008		A832835	<1.0	<1.0	650	5.4	<1.0	<1.0	<1.0	<1.0	550
	3/12/2009		A841820	<1.0	<1.0	300	3.2	<1.0	<1.0	<1.0	<1.0	340
	6/18/2009		A850586	<1.0	<1.0	240	2.2	<1.0	<1.0	<1.0	<1.0	500
	9/15/2009		A858548	<1.0	<1.0	98	<1.0	<1.0	<1.0	<1.0	<1.0	160
	11/3/2009		A864548	<1.0	<1.0	280	2.4	<1.0	<1.0	<1.0	<1.0	400
	2/3/2010		5034508007	<5.0	<5.0	255	<5.0	<5.0	<5.0	<5.0	<5.0	286
	5/19/2010		5037756007	<5.0	<5.0	161	<5.0	<5.0	<5.0	<5.0	<5.0	164
MW-166D	1/31/2002	46-51	313000	<5.0	6.1	2,000	<5.0	<10	<5.0	<5.0	<5.0	730
	7/18/2002		324107	<1.0	5.1	2,130	3.3	<5.0	<1.0	<1.0	<1.0	563
	1/6/2004		503079204	<5.0	<5.0	2,000	7.4	<5.0	<5.0	<5.0	<5.0	290
	1/6/2004		503079212	<5.0	<5.0	1,700	7.9	<5.0	<5.0	<5.0	<5.0	150
	3/11/2004		503237059	<5.0	<5.0	2,100	<5.0	<5.0	<5.0	<5.0	<5.0	410
	6/3/2004		503492977	<5.0	<5.0	1,900	<5.0	<5.0	<5.0	<5.0	<5.0	340
	9/14/2004		A675201	<1.0	6.6	1,900	4.7	<1.0	<1.0	<1.0	<1.0	450
	12/20/2004		A685809	<1.0	7.4	2,400	5.6	<1.0	<1.0	<1.0	<1.0	470
	3/15/2005		A693381	<1.0	4.2	1,900	5.3	1.4	<1.0	<1.0	<1.0	230
	6/13/2005		A702974	<1.0	5.5	3,700	5.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/21/2005		A712999 ³	<1.0	3.98	1,650	2.12	<1.0	<1.0	<1.0	<1.0	303
	12/6/2005		A721012	<1.0	5.7	1,900	16	<1.0	<1.0	<1.0	<1.0	430
	3/14/2006		A728636	<1.0	4.4	1,800	2.9	<1.0	<1.0	<1.0	<1.0	310
	6/13/2006		A737748	<1.0	3.7	1,400	10	<1.0	<1.0	<1.0	<1.0	240
	9/27/2006		A747973	<1.0	5.6	2,100	8.2	<1.0	<1.0	<1.0	<1.0	350
	12/21/2006		A756786	<1.0	5.9	2,000	12	<1.0	<1.0	<1.0	<1.0	420
	3/21/2007		A764750	<1.0	4.2	2,400	16	<1.0	<1.0	<1.0	<1.0	410
	7/2/2007		A775745	<1.0	4.9	1,700	12	<1.0	<1.0	<1.0	<1.0	240
	9/7/2007		A781804	<1.0	2.4	1,300	7.7	<1.0	<1.0	<1.0	<1.0	24
	11/28/2007		A790700	<1.0	4.5	1,500	4.0	<1.0	<1.0	<1.0	<1.0	270
	3/19/2008		A803407	<1.0	5.5	810	16	<1.0	<1.0	<1.0	<1.0	200
	5/28/2008		A812346	<10	<10	1,500	<10	<10	<10	<10	<10	310
	9/23/2008		A824656	<10	<10	1,600	<10	<10	<10	<10	<10	300
	12/2/2008		A832837	<1.0	4.3	1,300	8.5	<1.0	<1.0	<1.0	<1.0	300
	3/12/2009		A841818	<1.0	4.0	1,400	12	<1.0	<1.0	<1.0	<1.0	330
	6/18/2009		A850583	<1.0	2.2	920	11	<1.0	<1.0	<1.0	<1.0	150
	9/15/2009		A858547	<10	<10	850	<10	<10	<10	<10	<10	210
	11/3/2009		A864549	<1.0	3.9	1,100	8.2	<1.0	<1.0	<1.0	<1.0	240
	2/3/2010		5034508009	<5.0	<5.0	797	< 5.0	<5.0	<5.0	<5.0	<5.0	233
	5/19/2010		5037756008	<5.0	<5.0	835	5.5	<5.0	<5.0	<5.0	<5.0	235
MW-167D	1/31/2002	28-33	313005	<5.0	<5.0	530	11	<10	<5.0	<5.0	<5.0	390
	7/17/2002		324025	<1.0	<1.0	274	12.2	<5.0	<1.0	<1.0	<1.0	253
	12/04/2003		503002677	<5.0	<5.0	380	12	<5.0	<5.0	<5.0	<5.0	230
	12/04/2003		503002685	<5.0	<5.0	390	14	<5.0	<5.0	<5.0	<5.0	230
	3/11/2004		503237091	<5.0	<5.0	410	14	<5.0	<5.0	<5.0	<5.0	220
	6/3/2004		503493207	<5.0	<5.0	510	12	<5.0	<5.0	<5.0	<5.0	240
	9/14/2004		A675203	<1.0	<1.0	480	13	<1.0	<1.0	<1.0	<1.0	290
	9/14/2004		A675205	<1.0	<1.0	480	14	<1.0	<1.0	<1.0	<1.0	300
	12/21/2004		A685813	<1.0	<1.0	1,300	23	<1.0	<1.0	<1.0	<1.0	400
	12/21/2004		A685824	<1.0	<1.0	680	22	<1.0	<1.0	1.0	<1.0	240
	3/15/2005		A693376	<10	<10	580	18	<10	<10	<10	<10	160
	3/15/2005		A693403	<1.0	<1.0	530	18	<1.0	<1.0	<1.0	<1.0	150
	6/13/2005		A702968	<1.0	<1.0	510	14	2.6	<1.0	<1.0	<1.0	99
	9/23/2005		A713019	<1.0	<1.0	630	19	<1.0	<1.0	<1.0	<1.0	110
	9/23/2005		A713020	<1.0	<1.0	640	20	<1.0	<1.0	<1.0	<1.0	120
	11/7/2005		A717639	<1.0	<1.0	740	33	<1.0	<1.0	<1.0	<1.0	110
	12/6/2005		A721002	<1.0	<1.0	670	21	<1.0	<1.0	<1.0	<1.0	160
	12/6/2005		A721003	<1.0	<1.0	640	21	<1.0	<1.0	<1.0	<1.0	150
	3/13/2006		A728629	<1.0	<1.0	680	18	<1.0	<1.0	<1.0	<1.0	150
	3/13/2006		A728630	<1.0	<1.0	670	17	<1.0	<1.0	<1.0	<1.0	140
	6/12/2006		A737740	<1.0	<1.0	460	16	<1.0	<1.0	<1.0	<1.0	29
	6/12/2006		A737741	<1.0	<1.0	460	17	<1.0	<1.0	<1.0	<1.0	32
	9/27/2006		A747969	<1.0	<1.0	550	21	<1.0	<1.0	<1.0	<1.0	75
	9/27/2006		A747970	<1.0	<1.0	570	20	<1.0	<1.0	<1.0	<1.0	81
	12/21/2006		A756782	<1.0	<1.0	670	20	<1.0	<1.0	<1.0	<1.0	110
	12/21/2006		A756784	<1.0	<1.0	640	21	<1.0	<1.0	<1.0	<1.0	100
	3/21/2007		A764745	<1.0	<1.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	3.6
	3/21/2007		A764746	<1.0	<1.0	20	1.1	<1.0	<1.0	<1.0	<1.0	3.9
	7/2/2007		A775741	<1.0	<1.0	290	17	<1.0	<1.0	<1.0	<1.0	68
	9/7/2007		A781800	<1.0	<1.0	510	21	<1.0	<1.0	<1.0	1.2	79
	9/7/2007		A781801	<1.0	<1.0	520	22	<1.0	<1.0	<1.0	<1.0	84
	11/28/2007		A790695	<1.0	<1.0	610	21	<1.0	<1.0	<1.0	<1.0	84
	11/28/2007		A790696	<1.0	<1.0	710	24	<1.0	<1.0	<1.0	<1.0	92
	3/19/2008		A803403	<1.0	<1.0	58	2.2	<1.0	<1.0	<1.0	<1.0	5.4
3/19/2008	A803410	<1.0	<1.0	38	1.4	<1.0	<1.0	<1.0	<1.0	3.1		
5/28/2008	A812341	<1.0	<1.0	410	24	<1.0	<1.0	<1.0	<1.0	30		
5/28/2008	A812342	<1.0	<1.0	35								

Sample No.	Date Sampled	Screen Interval (feet)	Lab Sample No.	Bromodichloro-methane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	1,2,4-Trimethyl-benzene	Vinyl chloride		
MW-169D	1/30/2002	32-37	312996	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	8.7		
	7/17/2002		324020	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	6.4		
	12/04/2003		503002701	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.4		
	3/11/2004		503237034	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	11		
	6/3/2004		503493082	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.7		
	9/14/2004		A675206	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	10		
	12/21/2004		A685811	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	14		
	3/15/2005		A693373	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.6		
	6/13/2005		A702965	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	2.9	6.8		
	9/22/2005		A713011 ¹	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.97		
	11/7/2005		A717637	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9		
	12/6/2005		A721001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6		
	3/13/2006		A728627	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.0		
	6/12/2006		A737737	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.1		
	9/27/2006		A747967	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.5		
	12/21/2006		A756780	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.4		
	3/21/2007		A764742	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0		
	7/3/2007		A775760	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	9/7/2007		A781798	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0		
	11/28/2007		A790692	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14		
	3/19/2008		A803400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	5/28/2008		A812339	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.8		
	9/23/2008		A824649	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	<1.0	14		
	12/1/2008		A832828	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
	3/12/2009		A841825	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.2		
	6/19/2009		A850600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13		
	9/16/2009		A858560	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17		
	11/3/2009		A864539	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14		
	2/3/2010		5034508002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0		
	5/19/2010		5037756001	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.4		
	MW-170D		1/31/2002	34-39	313001	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	80
			7/17/2002		324024	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	66
			11/3/2009		A864543	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	200
	MW-302		2/											

Table 3
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Well Screen Interval (Feet)	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
IW-1	10.5-15.5	7/16/2004	7.58	287	1.91	<1	140	1,100	<1.0
		8/16/2004	7.36	34	0.26	21	87	900	<1.0
		10/18/2004	7.38	139	1.81	<1.0	330	1,500	<1.0
		11/19/2004	6.09	126	0.17	2,600	1,700	640	2.2
		12/21/2004	6.54	96	0.26	270	3,600	51	2.2
		1/24/2005	6.36	-112	1.39	340	1,700	32	1.7
		3/15/2005	6.75	NA	1.68	18	2,700	11	<1.0
		4/25/2005	7.91	-148.2	0.19	NA	NA	NA	NA
		6/14/2005	6.71	40	0.71	60	2,400	29	5.5
		9/23/2005	6.70	-98.9	0.99	4.6	1,400	59	350
		12/7/2005	7.01	-86	0.81	2.7	140	50	620
		3/15/2006	7.65	22	1.20	1.7	380	100	25
		6/15/2006	7.08	-126	2.82	1.6	430	120	83
		9/26/2006	7.01	-46.1	0.49	2.1	230	200	61
		11/21/2006	5.71	-36	5.96	2,700	620	26	100
		12/21/2006	5.88	-49.2	3.25	950	340	<10	170
		1/19/2007	6.17	-101.2	3.68	500	71	1.4	690
		3/22/2007	6.79	-128	3.38	140	77	2.6	200
		7/2/2007	6.41	-16.7	0.62	450	7	3.2	<1.0
		9/7/2007	6.24	-194	0.97	270	14	1.8	82
		11/30/2007	7.23	-86	1.37	14	2	1.0	7.2
		12/11/2007	10.45	-55	0.97	NA	NA	NA	NA
		1/10/2008	6.78	-110	1.89	1,100	110	3.8	90
		3/20/2008	6.57	-91.5	0.70	170	50	2.6	47
		5/29/2008	6.59	68	5.69	43	<1.0	<1.0	1.3
		9/24/2008	14.00	-85	0.50	270	4.4	88	6.4
		12/3/2008	6.50	69	0.64	84	4.0	<1.0	6.7
		3/13/2009	7.70	-293.3	0.00	4	<1.0	<1.0	<1.0
		6/18/2009	6.97	-116	1.95	3.6	<1.0	<1.0	25.0
		9/15/2009	6.82	104	1.01	2.6	<1.0	<1.0	<1.0
		11/4/2009	7.00	105	0.47	2.0	<1.0	<1.0	4.9
		1/27/2010	6.61	147	3.48	3.0	<5.0	<5.0	<2.0
		5/20/2010	7.38	-20	0.38	2.2	<5.0	<5.0	<2.0
IW-2	12-17	7/16/2004	7.37	357	2.67	<1	44	170	<1.0
		8/16/2004	7.42	105	0.77	11	46	210	<1.0
		10/18/2004	7.34	286	2.45	<1.0	96	290	<1.0
		11/19/2004	7.09	138	0.25	6.3	550	150	2.5
		12/21/2004	7.20	118	1.05	<1.0	310	230	1.1
		1/24/2005	7.09	1.8	1.50	<1.0	240	190	1.7
		3/15/2005	7.14	NA	3.93	NA	280	130	21
		4/25/2005	7.98	100.2	3.73	NA	NA	NA	NA
		6/14/2005	7.38	104	4.20	NA	130	160	<1.0
		9/23/2005	7.09	193.8	3.29	NA	37	130	<1.0
		12/7/2005	7.24	124	3.84	NA	51	190	<1.0
		3/15/2006	7.72	85	3.32	NA	54	180	<1.0
		6/13/2006	7.16	145	8.64	NA	18	110	<1.0
		9/26/2006	7.43	53.2	3.47	NA	32	110	<1.0
		11/21/2006	7.21	-78	0.18	3.9	89	83	12
		12/21/2006	7.08	-96	0.33	1.1	41	100	<10
		1/19/2007	7.26	-64.8	6.71	3.5	59	91	8.6
		3/22/2007	7.11	89	4.13	1.2	31	100	3.3
		7/2/2007	7.42	203.5	3.83	1.1	15	130	2.9
		9/6/2007	7.02	-27	2.00	1.4	20	130	<1.0
		11/30/2007	8.36	304	2.70	2	16	110	<1.0
		12/11/2007	10.29	-53	0.49	NA	NA	NA	NA
		1/10/2008	7.19	-90	1.10	12.0	55	110	22
		3/20/2008	7.10	-103.3	0.83	2.0	64	100	4.5
		5/29/2008	7.00	251	2.22	<1.0	16	75	<1.0
		9/24/2008	14.00	-44.3	1.15	1.2	27	190	<1.0
		12/3/2008	7.31	247	0.29	1.4	17	110	13
		3/13/2009	7.88	-180.3	0.00	2	30	85	11
		6/18/2009	7.16	175.4	6.92	2.3	15	60	<1.0
		9/15/2009	7.23	269	4.15	3.2	19	89	<1.0
		11/4/2009	7.32	333	0.86	<1.0	21	90	4.0
		1/27/2010	7.03	416	2.02	1.6	14.9	67	<2.0
		5/20/2010	7.78	259	1.31	<1.0	18.6	66.3	<2.0
Risk-Based Groundwater Concentrations*						NA	104,000	1,800	198

See last page for footnotes

Table 3
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Sample No.	Well Screen Interval (Feet)	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-163	10-20	7/16/2004	7.55	294	1.67	<1	250	1,300	<1.0
		8/16/2004	7.54	130	0.81	7.2	240	790	<1.0
		10/18/2004	7.29	223	4.22	<1.0	530	1,600	<1.0
		11/19/2004	6.64	120	0.33	220	1,300	700	<1.0
		12/21/2004	7.31	124	1.50	<1.0	620	470	<1.0
		1/24/2005	7.42	-25.9	2.00	9.9	380	360	<1.0
		3/15/2005	7.20	NA	4.34	NA	650	400	<1.0
		4/25/2005	8.25	10.1	4.37	NA	NA	NA	NA
		6/14/2005	7.14	78	3.75	NA	430	430	<1.0
		9/23/2005	6.90	108.2	0.50	NA	1,200	640	54
		12/7/2005	7.22	-38	4.28	NA	830	520	220
		3/15/2006	7.96	6	2.94	NA	270	410	96
		6/15/2006	7.32	-23	4.02	NA	220	440	52
		9/26/2006	7.20	209.9	1.35	NA	120	450	20
		11/21/2006	6.97	-101	3.81	170	1,200	58	42
		12/21/2006	7.00	-60	3.45	3.5	91	28	13
		1/19/2007	6.86	-113.3	7.01	62	170	<10	58
		3/22/2007	6.62	-122	1.39	83	210	23	230
		7/2/2007	7.12	151	4.16	2.8	41	46	<1.0
		9/7/2007	6.71	-185	1.08	3.9	18	16	30
		11/30/2007	7.44	-56	1.20	3	38	14	52
		12/11/2007	8.32	-68	0.30	NA	NA	NA	NA
		1/10/2008	7.41	-76	2.28	31	49	120	41
		3/20/2008	7.38	-103.6	0.74	<200	16	11	2.4
		5/29/2008	6.80	40	0.63	<5	100	22	77
		9/24/2008	8.65	-41.3	0.35	5.4	5.5	5.6	15
		12/3/2008	7.11	53	0.78	5.1	<1.0	1.6	<1.0
		3/13/2009	7.34	206	1.14	6.1	1.9	10	1.0
		6/18/2009	6.94	-92.9	2.26	4.1	39	32	11
		9/15/2009	6.85	147	0.94	4.0	19	20	12
		11/4/2009	6.96	201	0.40	1.7	16	93	9
		1/27/2010	6.82	208	2.81	2.0	<5.0	67	<2.0
		5/20/2010	7.62	46	0.69	4.2	<5.0	53.9	<2.0
MW-173	8-18	7/16/2004	7.30	286	1.03	<1	180	300	<1.0
		8/16/2004	7.37	340	0.47	8.7	120	260	<1.0
		10/18/2004	7.30	291	1.40	1.7	120	340	<1.0
		11/19/2004	7.26	161	1.21	37	150	330	<1.0
		12/21/2004	7.31	262	2.59	<1.0	260	430	<1.0
		1/24/2005	7.06	-15.4	2.72	<1.0	190	290	<1.0
		3/15/2005	7.20	NA	4.63	NA	110	290	<1.0
		4/25/2005	NA	128.2	3.47	NA	NA	NA	NA
		6/14/2005	7.21	104	5.07	NA	57	320	<1.0
		9/23/2005	7.05	207.7	3.21	NA	36	230	<1.0
		12/7/2005	7.37	102	6.48	NA	29	170	<1.0
		3/15/2006	7.86	64	4.41	NA	55	240	<1.0
		6/15/2006	7.23	28	3.20	NA	36	290	<1.0
		9/26/2006	7.15	293.3	2.18	NA	30	210	<1.0
		11/21/2006	7.35	0.51	2.32	<1.0	26	220	<1.0
		12/21/2006	7.12	2.0	1.55	1.0	39	270	<1.0
		1/19/2007	7.25	-8.3	4.40	<1.0	49	250	<1.0
		3/22/2007	7.13	3.0	3.57	1.5	25	300	<1.0
		7/2/2007	7.17	-40.3	3.12	<1.0	23	260	<1.0
		9/7/2007	7.02	-21.0	1.42	<1.0	14	180	<1.0
		11/30/2007	7.56	-9.0	1.88	<1.0	10	120	<1.0
		12/11/2007	8.62	-7.0	0.44	NA	NA	NA	NA
		1/10/2008	8.00	-41.0	1.12	4.7	52	210	1.3
		3/20/2008	6.99	-69.4	-0.03	140	75	160	54
		5/30/2008	7.10	82	6.35	2	160	190	1.6
		9/24/2008	10.40	38	1.19	1.3	140	320	2.0
		12/3/2008	7.26	143	3.98	1.2	20	150	<1.0
		3/13/2009	7.58	384	0.69	1.2	8.3	89	<1.0
		6/18/2009	7.31	74	4.05	1.9	71	230	<1.0
		9/15/2009	7.21	299	2.84	2.3	15	140	<1.0
		11/4/2009	7.28	268	1.45	<1.0	11	110	<1.0
		1/27/2010	7.06	289	2.89	1.0	10	148	<2.0
		5/20/2010	7.70	135	0.61	<1.0	7.5	115	<2.0
Risk-Based Groundwater Concentrations*							NA	104,000	1,800
									198

See last page for footnotes

Table 3
East Off-Site Bioremediation Field Parameters and Select Groundwater Analytical Results
Former General Motors Corporation
Allison Gas Turbine, Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

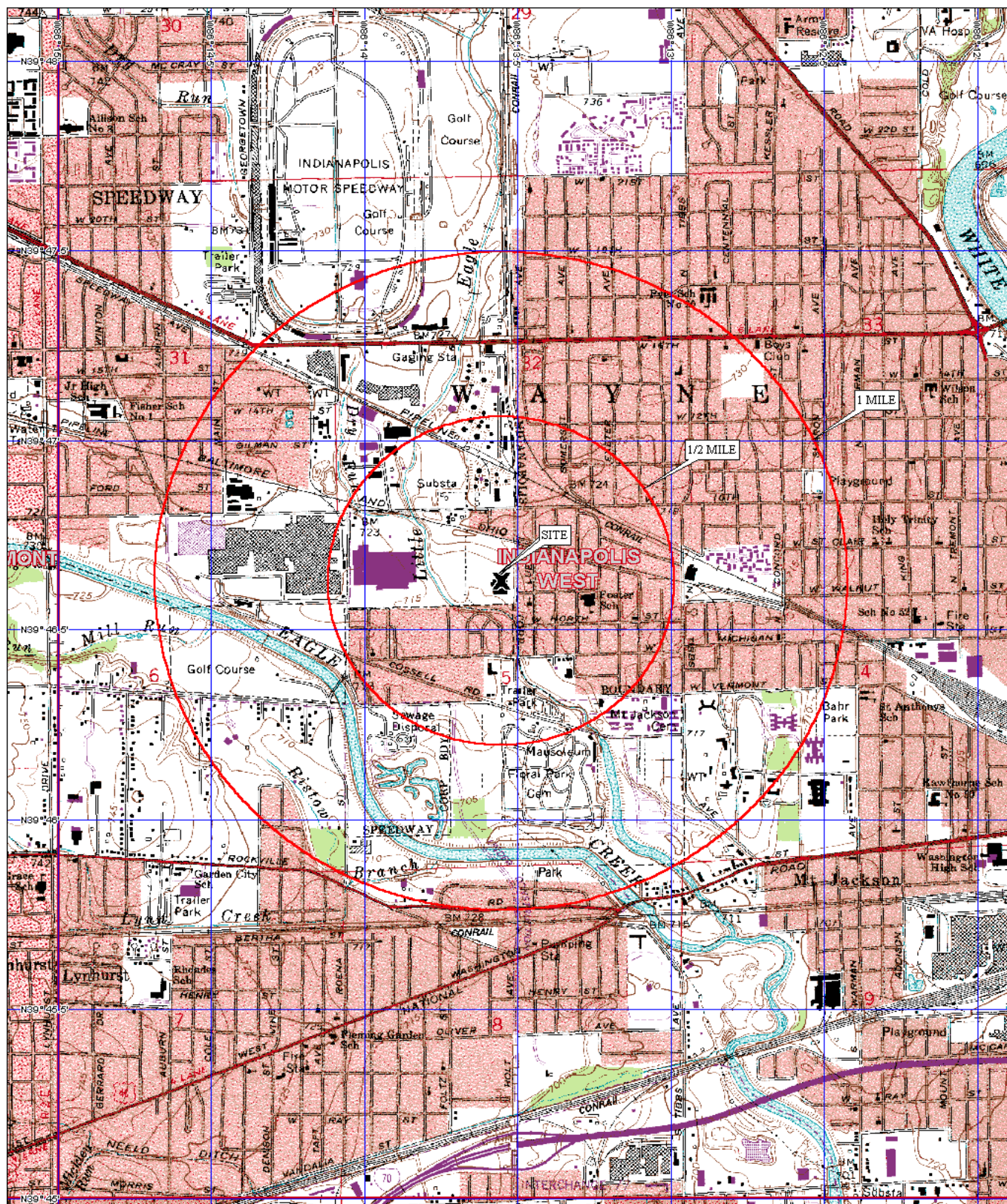
Sample No.	Well Screen Interval (Feet)	Date Sampled	pH	ORP (mV)	DO (mg/L)	TOC (mg/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)	
MW-156	5-20	7/16/2004	7.26	296	0.59	<1	36	230	<1.0	
		8/16/2004	7.33	351	0.22	9.1	37	230	<1.0	
		10/18/2004	7.26	270	6.66	<1.0	<1.0	13	<1.0	
		11/19/2004	7.30	238	0.85	2.9	52	260	<1.0	
		12/21/2004	7.38	253	1.70	1.5	54	250	<1.0	
		1/24/2005	7.25	25.9	2.42	<1.0	35	130	<1.0	
		3/16/2005	7.12	NA	1.96	NA	53	230	<1.0	
		6/14/2005	7.42	106	7.78	NA	3.7	29	<1.0	
		9/23/2005	6.96	139.8	1.30	NA	50	190	<1.0	
		12/7/2005	7.35	72	3.63	NA	41	160	<1.0	
		3/15/2006	8.23	111	4.41	NA	<1.0	4.3	<1.0	
		6/14/2006	7.15	40	2.46	NA	36	160	<1.0	
		9/27/2006	7.37	91.1	2.57	NA	46	240	<1.0	
		11/21/2006	7.41	247	3.39	1.0	11	100	<1.0	
		12/21/2006	7.16	31.1	1.41	1.3	55	240	<1.0	
		1/19/2007	7.24	80.8	4.33	<1.0	34	200	<1.0	
		3/23/2007	7.18	149	8.70	1.4	40	170	<1.0	
		7/2/2007	7.31	85.2	1.11	1.2	41	170	<1.0	
		9/6/2007	6.87	28	0.90	1.5	51	230	<1.0	
		11/30/2007	7.71	27	2.16	1.8	52	200	<1.0	
		12/11/2007	7.99	-52	1.30	NA	NA	NA	NA	
		1/10/2008	7.89	16	6.34	1.3	9.5	58	<1.0	
		3/20/2008	7.37	-0.2	11.47	<10.0	<1.0	7.6	<1.0	
		5/30/2008	6.98	218	0.90	1.2	31	150	<1.0	
		9/24/2008	14.00	-30	0.60	3.8	43	180	<1.0	
		12/3/2008	7.18	122	1.70	1.6	71	160	<5.0	
		3/12/2009	7.55	378	4.87	1.4	27	120	<1.0	
		6/18/2009	7.33	128.3	4.27	2.2	23	79	<1.0	
		9/16/2009	7.06	282	0.80	2.8	54	210	<1.0	
		11/4/2009	7.24	298	1.31	<1.0	38	140	<1.0	
		1/27/2010	7.10	312	3.30	1.3	25.1	115	<2.0	
		5/20/2010	7.81	172	2.22	<1.0	31.0	140	<2.0	
MW-151	5-20	7/16/2004	7.16	334	0.96	<1	3.1	5.1	<1.0	
		8/16/2004	7.26	360	0.40	8.2	2.6	5.4	<1.0	
		10/18/2004	7.11	236	0.26	<1.0	3.1	5.4	<1.0	
		11/19/2004	7.10	254	3.02	13	3.5	4.7	<1.0	
		12/21/2004	7.14	262	3.28	62	4.1	6.4	<1.0	
		1/24/2005	7.13	50.6	4.00	<1.0	3.3	5.0	<1.0	
		3/16/2005	7.10	NA	4.26	NA	3.6	5.3	<1.0	
		6/14/2005	7.14	112	0.89	NA	2.8	3.6	<1.0	
		9/23/2005	6.84	118	1.27	NA	3.23	4.57	<1.0	
		12/7/2005	7.11	60	2.41	NA	4.6	4.8	<1.0	
		3/15/2006	7.71	142	2.68	NA	3.4	4.8	<1.0	
		6/14/2006	7.12	76	1.85	NA	2.6	4.6	<1.0	
		9/27/2006	7.02	117.2	2.32	NA	3.6	6.6	<1.0	
		11/21/2006	7.27	266	4.26	<1.0	3.5	7.4	<1.0	
		12/21/2006	6.97	36.3	3.70	<1.0	3.5	6.5	<1.0	
		1/19/2007	7.41	54.9	11.81	<1.0	2.2	6.0	<1.0	
		3/23/2007	7.07	152	6.58	1.2	1.6	4.2	<1.0	
		9/6/2007	6.86	29	1.75	1.6	2.7	7.6	<1.0	
		11/30/2007	7.34	44	1.30	1.2	2.9	8.3	<1.0	
		12/11/2007	7.55	-32	2.82	NA	NA	NA	NA	
		1/10/2008	7.69	52	4.50	1.4	2.0	5.1	<1.0	
		3/20/2008	7.10	19.2	9.40	<10.0	<1.0	2.7	<1.0	
		5/30/2008	7.05	299	8.19	1.2	1.6	6.1	<1.0	
		9/24/2008	14.00	-89.2	1.56	1.3	1.8	9.1	<1.0	
		12/3/2008	7.14	177	1.79	1.7	2.1	7.8	<1.0	
		3/13/2009	7.74	-34.3	1.30	1.9	1.8	5.1	<1.0	
		6/18/2009	7.20	122.7	10.74	2.1	2.0	6.2	<1.0	
		9/16/2009	7.16	294	2.20	4.6	1.7	5.3	<1.0	
		11/4/2009	7.14	325	1.70	<1.0	1.6	7.0	<1.0	
		1/27/2010	---	---	---	1.4	<5.0	<5.0	<2.0	
		5/21/2010	7.71	197.00	2.09	<1.0	<5.0	6.6	<2.0	
		Risk-Based Groundwater Concentrations*							NA	104,000

*Based on 10⁻⁶ risk from vapor intrusion to indoor air.
DO = dissolved oxygen
mg/L = milligrams per liter
mV = millivolts

NA = Not Applicable
ORP = oxidation-reduction potential
TOC = total organic carbon
ug/L = micrograms per liter

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

FIGURES



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS

693 ft Scales: 1:24,000 Detail: 13-0 Datum: WGS84

KERAMIDA Inc.
401 North College Avenue
Indianapolis, Indiana 46202



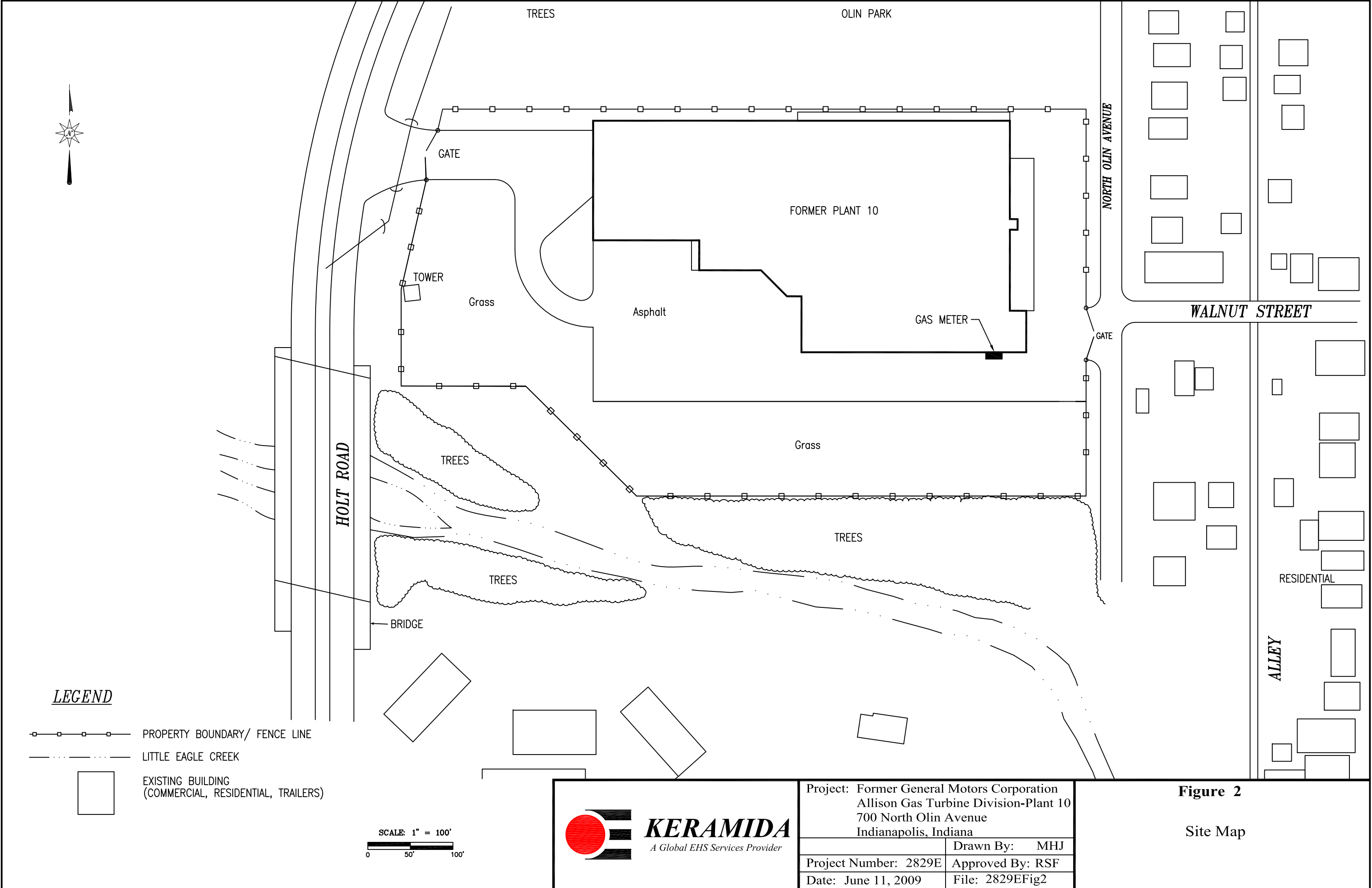
(317) 685-6600 FAX (317) 685-6610

Figure 1
Site Location Map
Former General Motors Corporation
Allison Gas Turbine Plant 10
700 North Olin Avenue
Indianapolis, IN

Prepared by: **Becky Cassinelli**
Approved by: **Kris Buckles**
Date: **9/29/2002**
Project Number: **2829E**



G:\CLIENTS\G\Genuine Parts\2829E Genuine Parts Invest. thru Remed\2829E-0018003, Remediation Systems\Figures, Logs & Tables\Figures\System Evaluation Reports\Other\Figure 2's & 3's\2829EFig2.dwg, Site Plan, 11/2/2009 1:49:51 PM



KERAMIDA
A Global EHS Services Provider

LEGEND:

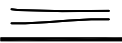
MW147AR



Monitoring Well



Existing Building
(Commercial, Residential, Trailers)

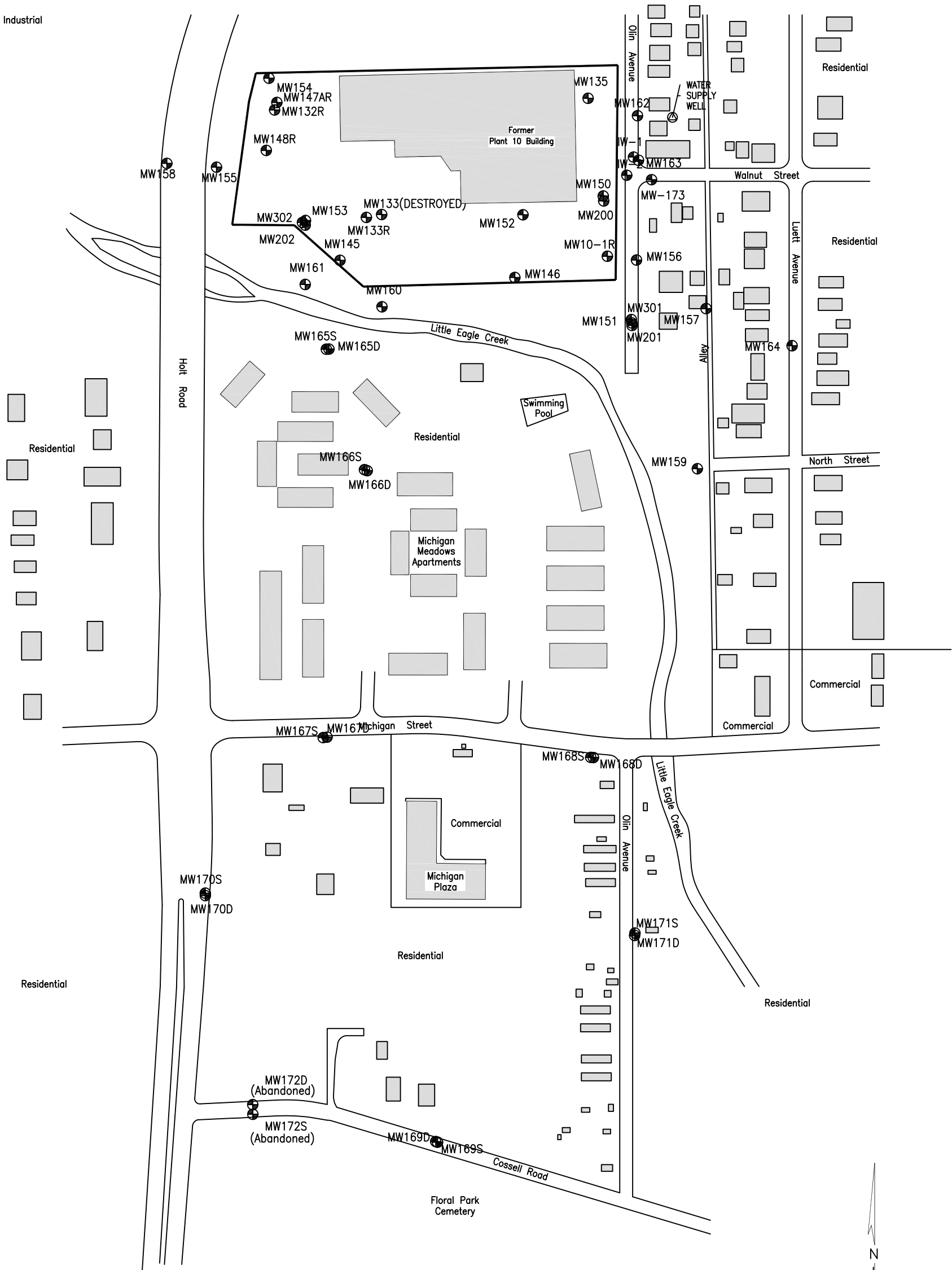


Little Eagle Creek

Property Boundary

Park

Industrial



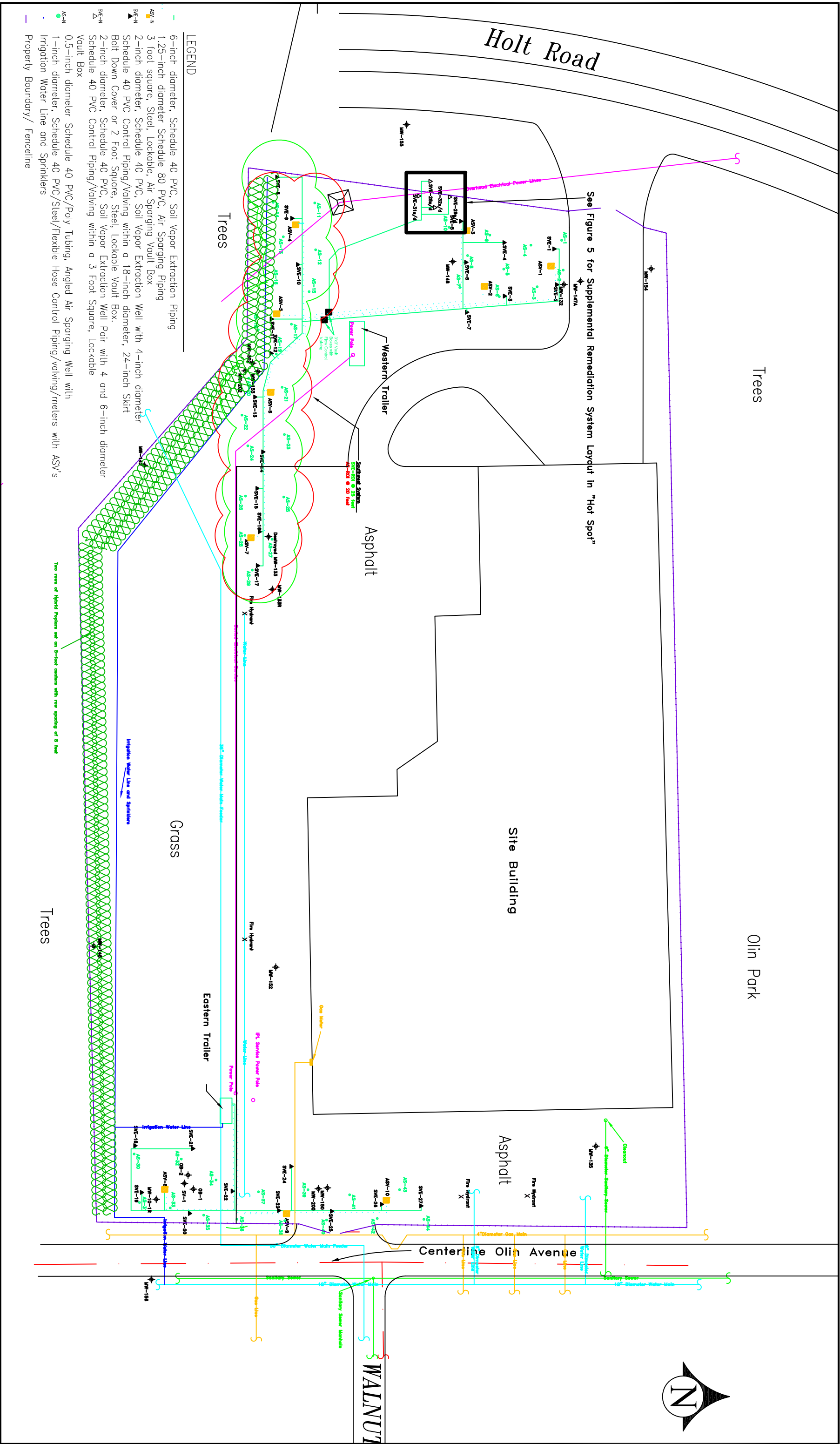
SCALE: 1" = 200'

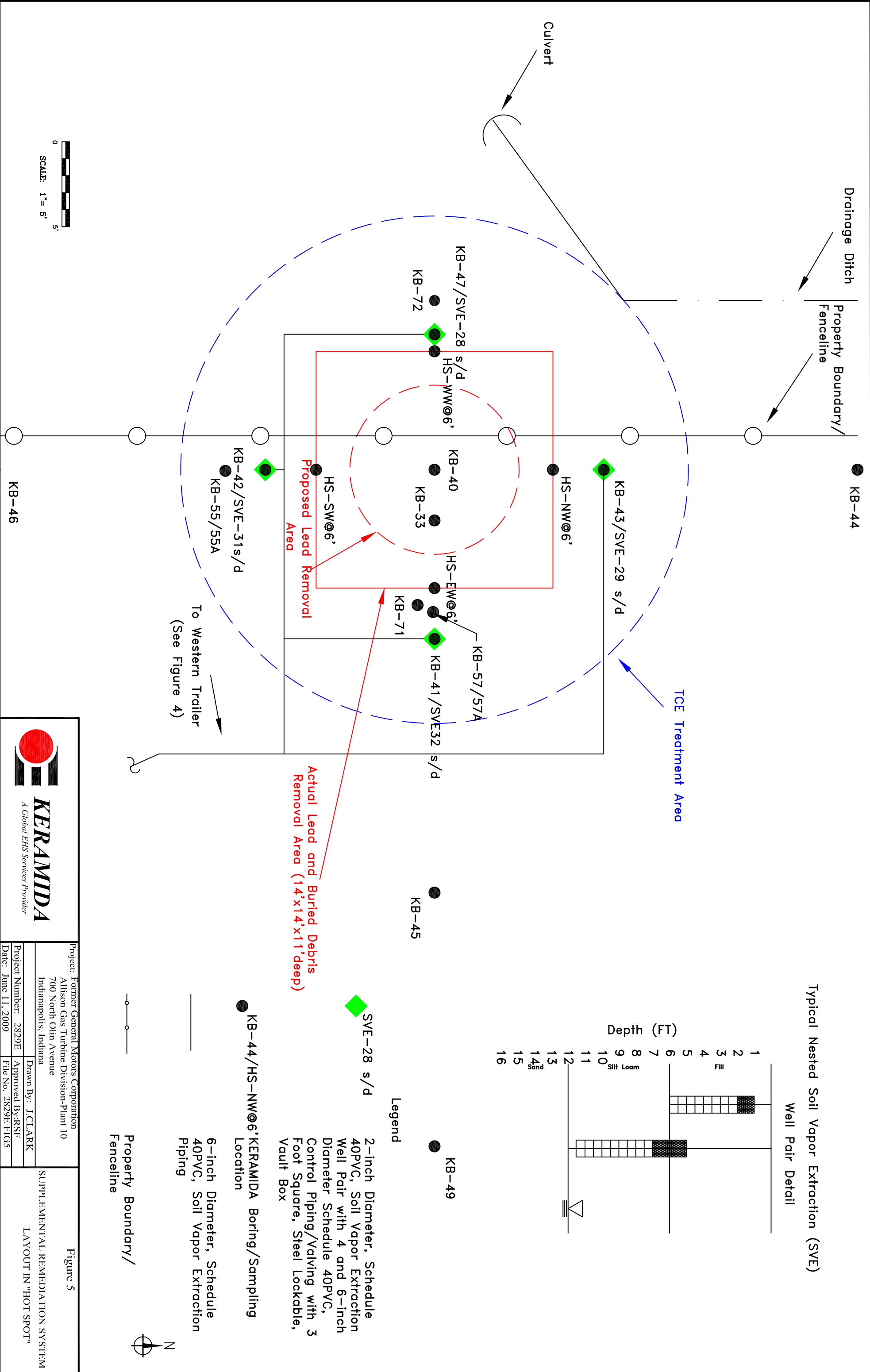


Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Project Number: 2829E	Drawn By: J.CLARK
Date: October 25, 2005	Approved By: RSF
	File No. GenuinePtsFigs

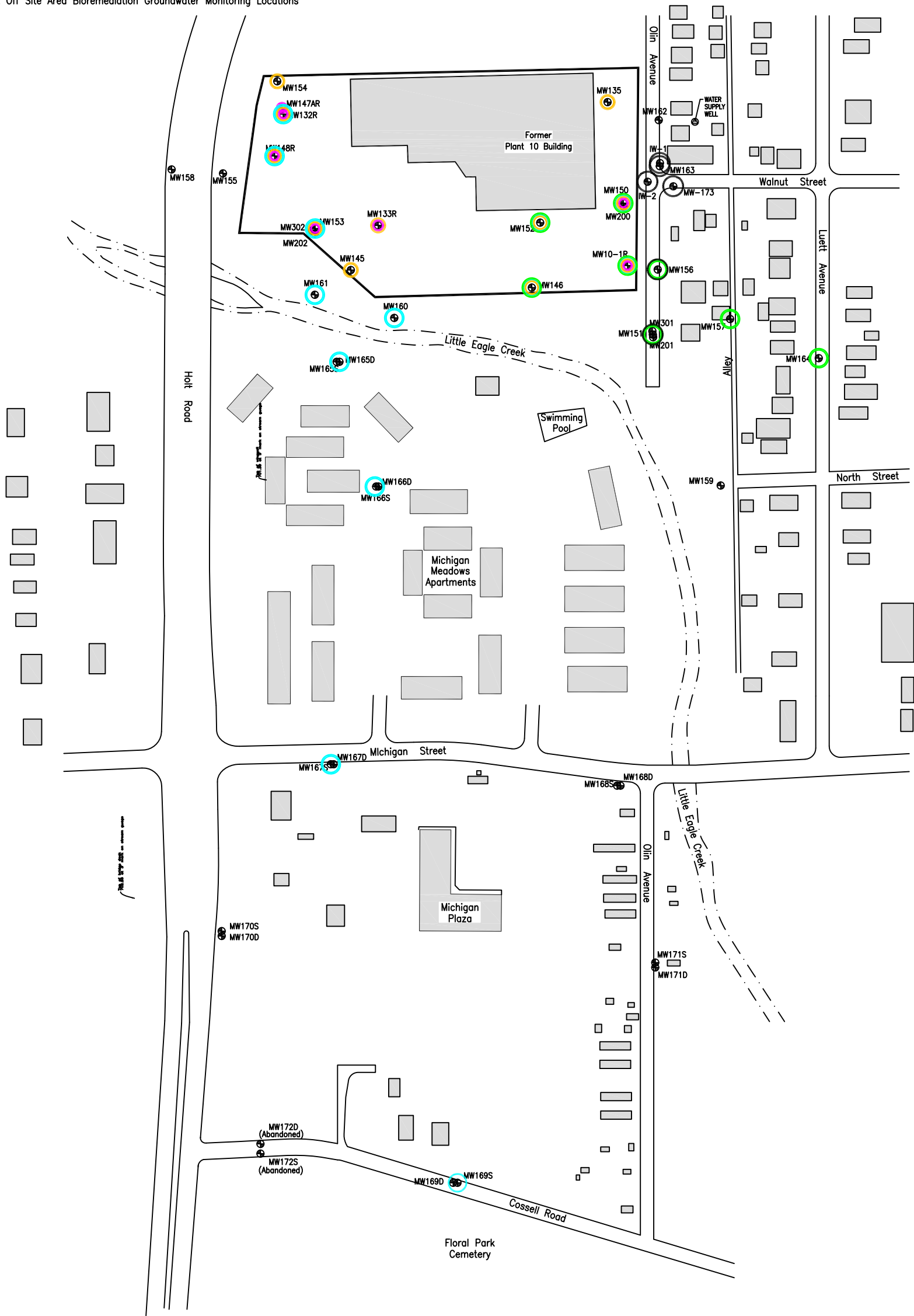
Figure 3
Expanded Site Map



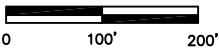


LEGEND:

- MW135  Monitoring Well
 Existing Building
(Commercial, Residential, Trailers)
- - - - - Little Eagle Creek
- - - - - Property Boundary/ Fenceline
-  Selective On-Site Groundwater Monitoring Locations
 On-Site Groundwater Monitoring Locations
 Western Source Plume Stability Groundwater Monitoring Locations
 Eastern Source Plume Stability Groundwater Monitoring Locations
 East Off Site Area Bioremediation Groundwater Monitoring Locations



SCALE: 1" = 200'



KERAMIDA
A Global EHS Services Provider

Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

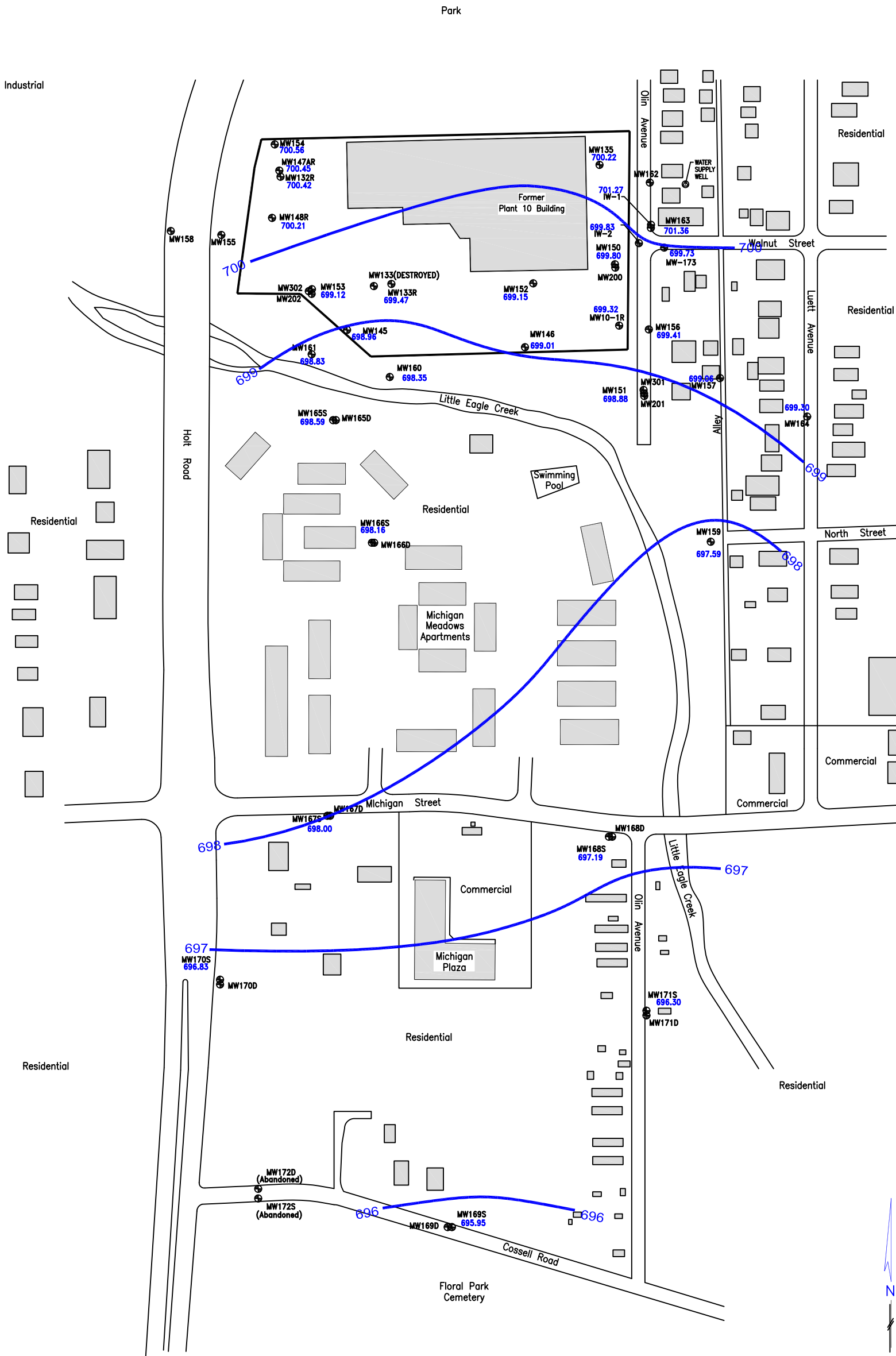
Project Number: 2829E	Drawn By: J.CLARK
Date: June 10, 2009	Approved By:
	File No. 2829EFigs6

Figure 6

GROUNDWATER MONITORING PLAN

LEGEND:

- MW148 Monitoring Well
- Existing Building (Commercial, Residential, Trailers)
- Little Eagle Creek
- Property Boundary/ Fence Line
- 700 Groundwater Potentiometric Surface Elevation feet above Mean Sea Level



SCALE: 1" = 200'

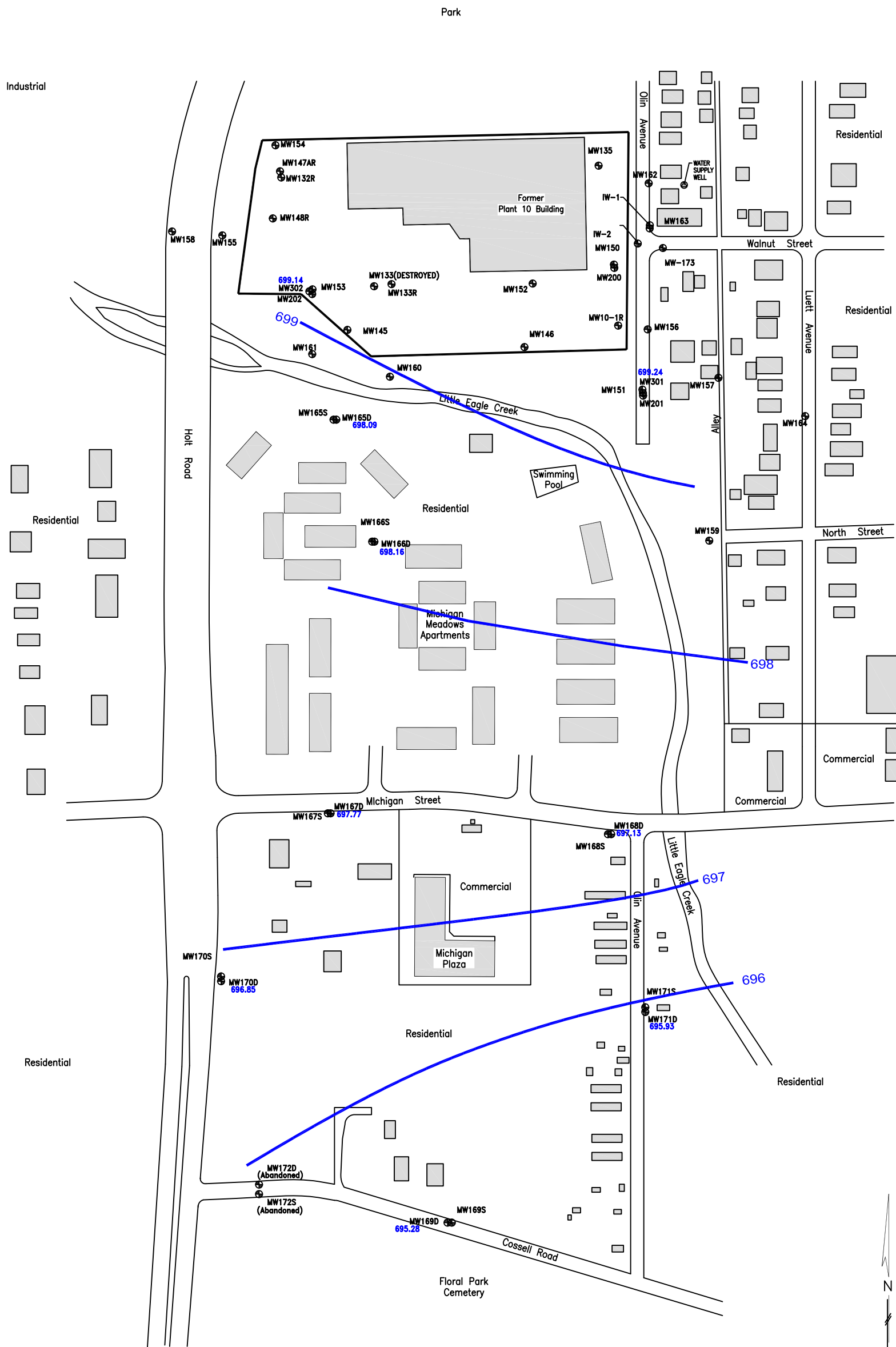


Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

Project Number: 2829E-001	Drawn By: J. DuMond
Date: July 25, 2010	Approved By: RSF
	File:GenuinePtsPot

Figure 7
Groundwater Potentiometric Surface
Map-Shallow Wells
May 2010

 MW148 Monitoring Well
 Existing Building
 (Commercial, Residential, Trailers)
 Little Eagle Creek
 Property Boundary/ Fence Line
 698 Groundwater Potentiometric Surface
 Elevation feet above Mean Sea Level



SCALE: 1" = 200'



A horizontal graphic scale bar. It is divided into two equal segments. The first segment is labeled '100'' and the second segment is labeled '200''.



Project: Former General Motors Corporation
Allison Gas Turbine Division-Plant 10
700 North Olin Avenue
Indianapolis, Indiana

	Drawn By: J. DuMond
Project Number: 2829E-001	Approved By: RSF
Date: July 26, 2010	File:GenuinePtsPot

Figure 8

Groundwater Potentiometric Surface
Map-Deep Wells
May 2010

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

**ATTACHMENT 1
April through June 2010 - Operation & Maintenance Logs**

KERAMIDA ENVIRONMENTAL, INC.


401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 6-22-10 Technician: Alan Hansen

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)

Air Compressor (AC-201) Operating ? (Yes / No)

Air Sparges Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

Heater Operating ? (Yes/No)

Ventilation Operating ? (Yes/No)

OPERATIONAL PARAMETERS
SVE System

Influent Vacuum (PI-201)	_____	Inches of H ₂ O
Influent Air Temperature (TI-201)	_____	°F
Influent Air Flowrate (FI-201)	_____	scfm
Ambient Air Flowrate (FI-202)	_____	scfm
Particulate Filter Inlet Vacuum (PI-202)	_____	Inches of H ₂ O
Particulate Filter Outlet Vacuum (PI-203)	_____	Inches of H ₂ O
Effluent Air Pressure (PI-204)	_____	Inches of H ₂ O
Effluent Air Flowrate (FI-203)	_____	scfm
Effluent Air Temperature (TI-202)	_____	°F
Blower Current (B-201)	_____	amps
Blower Hours (B-201)	_____	hours

61,268^{RSF}

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	_____	psi
Air Injection Flowrate ASV-4 (FI-204)	_____	scfm
Air Injection Pressure ASV-5 (PI-208)	_____	psi
Air Injection Flowrate ASV-5 (FI-205)	_____	scfm
Air Injection Pressure ASV-6 (PI-209)	_____	psi
Air Injection Flowrate ASV-6 (FI-206)	_____	scfm
Air Injection Pressure ASV-7 (PI-210)	_____	psi
Air Injection Flowrate ASV-7 (FI-207)	_____	scfm
Regulator Pressure (PI-206)	_____	psi
Compressor Pressure (PI-205)	_____	psi
Compressor Air Temperature (TI-203)	_____	°F
Compressor Air Temperature on AC-201 display unit	_____	°F
Compressor Load Hours AC-201 display unit	_____	hours
Compressor Current (AC-201)	_____	amps

RSF 19707 hours 1025693 hrs

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No)

If yes, name: _____

SVE Knockout Tanks Drained ? (Yes/No)

Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)

Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)

Blower Lubricated ? (Yes/No)

Blower Oil Changed ? (Yes/No)

Compressor In-line Air Filters (PF-202) Changed? (Yes/No)

Compressor Filter Changed ? (Yes/No)

Compressor Oil Changed ? (Yes/No)

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

Spent Blower & Driven the KOT it was near alarm level
started and the KOT began filling up immediately.
This is due to heavy rain that has occurred the past
two days and more over an inch or more. We will
leave Blower until water level drops.

KERAMIDA ENVIRONMENTAL, INC.



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 6-15-10 Technician: Alan Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes/No)
Air Compressor (AC-201) Operating ? (Yes/No)
Air Spargers Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	<u>14</u>	Inches of H2O
Influent Air Temperature (TI-201)	<u>62</u>	°F
Influent Air Flowrate (FI-201)	<u>—</u>	scfm
Ambient Air Flowrate (FI-202)	<u>—</u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>53</u>	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	<u>58</u>	Inches of H2O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H2O
Effluent Air Flowrate (FI-203)	<u>1800</u>	scfm
Effluent Air Temperature (TI-202)	<u>118</u>	°F
Blower Current (B-201)	<u>21</u>	amps
Blower Hours (B-201)	<u>61123</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>35</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>35</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>17</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>36</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>35</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>14.5</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>120</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>190</u>	°F
Compressor Load Hours AC-201 display unit	<u>19653</u>	hours
Compressor Current (AC-201)	<u>16125</u>	amps

50527 Total Hr.

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No)
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower Lubricated ? (Yes/No)
Blower Oil Changed ? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed ? (Yes/No)
Compressor Filter Changed ? (Yes/No)
Compressor Oil Changed ? (Yes/No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES:

MAINTENANCE on site to cut grass

KERAMIDA ENVIRONMENTAL, INC.



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 6-B-10 Technician: A. Hanger

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	<u>13.5</u>	Inches of H ₂ O
Influent Air Temperature (TI-201)	<u>65</u>	°F
Influent Air Flowrate (FI-201)	<u> </u>	scfm
Ambient Air Flowrate (FI-202)	<u> </u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>94</u>	Inches of H ₂ O
Particulate Filter Outlet Vacuum (PI-203)	<u>98</u>	Inches of H ₂ O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H ₂ O
Effluent Air Flowrate (FI-203)	<u>1000</u>	scfm
Effluent Air Temperature (TI-202)	<u>104</u>	°F
Blower Current (B-201)	<u>21</u>	amps
Blower Hours (B-201)	<u>60955</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>35</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>35</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>11.5</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>35</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>35</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>11.5</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>113</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>189</u>	°F
Compressor Load Hours AC-201 display unit	<u>19590</u>	hours
Compressor Current (AC-201)	<u>16/25</u>	amps

56359 total hr.

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No)
SVE Knockout Tanks Drained ? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)
Blower Lubricated ? (Yes/No)
Blower Oil Changed ? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed ? (Yes/No)
Compressor Filter Changed ? (Yes/No)
Compressor Oil Changed ? (Yes/No)

If yes, name:

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES: *We have no oil filter + air filter / need oil & oil separator filter*

KERAMIDA ENVIRONMENTAL, INC.

401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 6-1-10 Technician: Alan Hansen

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating? (Yes/No)
Air Compressor (AC-201) Operating? (Yes/No)
Air Sparges Operating? (Yes/No)
Heater Operating? (Yes/No)
Ventilation Operating? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7) 7

OPERATIONAL PARAMETERS**SVE System**

Influent Vacuum (PI-201)	<u>13.5</u>	Inches of H2O
Influent Air Temperature (TI-201)	<u>60</u>	°F
Influent Air Flowrate (FI-201)	<u> </u>	scfm
Ambient Air Flowrate (FI-202)	<u> </u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>53</u>	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	<u>87</u>	Inches of H2O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H2O
Effluent Air Flowrate (FI-203)	<u>1000</u>	scfm
Effluent Air Temperature (TI-202)	<u>104</u>	°F
Blower Current (B-201)	<u>20</u>	amps
Blower Hours (B-201)	<u>60789</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>35</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12.5</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>35</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>12.5</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>25</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>35</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>13</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>116</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>189</u>	°F
Compressor Load Hours AC-201 display unit	<u>19128</u>	hours
Compressor Current (AC-201)	<u>16/24</u>	amps

56193 Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected? (Yes/No)
SVE Knockout Tanks Drained? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned? (Yes/No) Changed? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned? (Yes/No) Changed? (Yes/No)
Blower Lubricated? (Yes/No)
Blower Oil Changed? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed? (Yes/No)
Compressor Filter Changed? (Yes/No)
Compressor Oil Changed? (Yes/No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

KERAMIDA ENVIRONMENTAL, INC.



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 5-25-10 Technician: A. Haugen

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating? (Yes/No) Yes
Air Compressor (AC-201) Operating? (Yes/No) Yes
Air Sparges Operating? (Yes/No) Yes
Heater Operating? (Yes/No) Yes
Ventilation Operating? (Yes/No) Yes

If yes, which vault? (ASV 4, 5, 6, or 7) 4

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	<u>13.5</u>	Inches of H ₂ O
Influent Air Temperature (TI-201)	<u>58</u>	°F
Influent Air Flowrate (FI-201)	<u>—</u>	scfm
Ambient Air Flowrate (FI-202)	<u>—</u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>54</u>	Inches of H ₂ O
Particulate Filter Outlet Vacuum (PI-203)	<u>58</u>	Inches of H ₂ O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H ₂ O
Effluent Air Flowrate (FI-203)	<u>1000</u>	scfm
Effluent Air Temperature (TI-202)	<u>102</u>	°F
Blower Current (B-201)	<u>245</u>	amps
Blower Hours (B-201)	<u>60619</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>35</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>35</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>12</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>35</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>35</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>12</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>116</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>188</u>	°F
Compressor Load Hours AC-201 display unit	<u>19465</u>	hours
Compressor Current (AC-201)	<u>1025</u>	amps

56023 Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected? (Yes/No) Yes
SVE Knockout Tanks Drained? (Yes/No) Yes
Blower Dilution Air Filter (FS-201) Cleaned? (Yes/No) Yes Changed? (Yes/No) Yes
Blower In-line Air Filter (PF-201) Cleaned? (Yes/No) Yes Changed? (Yes/No) Yes
Blower Lubricated? (Yes/No) Yes
Blower Oil Changed? (Yes/No) Yes
Compressor In-line Air Filters (PF-202) Changed? (Yes/No) Yes
Compressor Filter Changed? (Yes/No) Yes
Compressor Oil Changed? (Yes/No) Yes

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

KERAMIDA ENVIRONMENTAL, INC.



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 5-19-10 Technician: Alan Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating? (Yes/No)
Air Compressor (AC-201) Operating? (Yes/No)
Air Sparges Operating? (Yes/No)
Heater Operating? (Yes/No)
Ventilation Operating? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	<u>13.5</u>	Inches of H2O
Influent Air Temperature (TI-201)	<u>56</u>	°F
Influent Air Flowrate (FI-201)	<u> </u>	scfm
Ambient Air Flowrate (FI-202)	<u> </u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>53</u>	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	<u>57</u>	Inches of H2O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H2O
Effluent Air Flowrate (FI-203)	<u>1000</u>	scfm
Effluent Air Temperature (TI-202)	<u>98</u>	°F
Blower Current (B-201)	<u>21</u>	amps
Blower Hours (B-201)	<u>60475</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>35</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>35</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>12.5</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>35</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>36</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>12</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>100</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>186</u>	°F
Compressor Load Hours AC-201 display unit	<u>19412</u>	hours
Compressor Current (AC-201)	<u>16.25</u>	amps

55880 Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected? (Yes/No)
SVE Knockout Tanks Drained? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned? (Yes/No) Changed? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned? (Yes/No) Changed? (Yes/No)
Blower Lubricated? (Yes/No)
Blower Oil Changed? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed? (Yes/No)
Compressor Filter Changed? (Yes/No)
Compressor Oil Changed? (Yes/No)

If yes, name: Voc's + Vinyl Chloride

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

System Performance

KERAMIDA ENVIRONMENTAL, INC.



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 5-11-10 Technician: Alan Harper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)

Air Compressor (AC-201) Operating ? (Yes / No)

Air Spargers Operating ? (Yes/No)

Heater Operating ? (Yes/No)

Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)

Influent Air Temperature (TI-201)

Influent Air Flowrate (FI-201)

Ambient Air Flowrate (FI-202)

Particulate Filter Inlet Vacuum (PI-202)

Particulate Filter Outlet Vacuum (PI-203)

Effluent Air Pressure (PI-204)

Effluent Air Flowrate (FI-203)

Effluent Air Temperature (TI-202)

Blower Current (B-201)

Blower Hours (B-201)

<u>13.5</u>	Inches of H2O
<u>55</u>	°F
<u> </u>	scfm
<u> </u>	scfm
<u>53</u>	Inches of H2O
<u>59</u>	Inches of H2O
<u>0</u>	Inches of H2O
<u>1000</u>	scfm
<u>94</u>	°F
<u>21.5</u>	amps
<u>60283</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)

Air Injection Flowrate ASV-4 (FI-204)

Air Injection Pressure ASV-5 (PI-208)

Air Injection Flowrate ASV-5 (FI-205)

Air Injection Pressure ASV-6 (PI-209)

Air Injection Flowrate ASV-6 (FI-206)

Air Injection Pressure ASV-7 (PI-210)

Air Injection Flowrate ASV-7 (FI-207)

Regulator Pressure (PI-206)

Compressor Pressure (PI-205)

Compressor Air Temperature (TI-203)

Compressor Air Temperature on AC-201 display unit

Compressor Load Hours AC-201 display unit

Compressor Current (AC-201)

<u>32</u>	psi
<u>12</u>	scfm
<u>0.5</u>	psi
<u>13</u>	scfm
<u>35</u>	psi
<u>12</u>	scfm
<u>36</u>	psi
<u>12</u>	scfm
<u>40</u>	psi
<u>110</u>	psi
<u>180</u>	°F
<u>186</u>	°F
<u>19348</u>	hours
<u>16/25</u>	amps

55688 T6/A2

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No)

SVE Knockout Tanks Drained ? (Yes/No)

Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) Changed ? (Yes/No)

Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) Changed ? (Yes/No)

Blower Lubricated ? (Yes/No)

Blower Oil Changed ? (Yes/No)

Compressor In-line Air Filters (PF-202) Changed ? (Yes/No)

Compressor Filter Changed ? (Yes/No)

Compressor Oil Changed ? (Yes/No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

KERAMIDA ENVIRONMENTAL, INC.


401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 5-4-10 Technician: A. HARPER

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)
Air Compressor (AC-201) Operating ? (Yes / No)
Air Sparges Operating ? (Yes/No)
Heater Operating ? (Yes/No)
Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS
SVE System

Influent Vacuum (PI-201)	<u>13.5</u>	Inches of H2O
Influent Air Temperature (TI-201)	<u>56</u>	°F
Influent Air Flowrate (FI-201)	<u>---</u>	scfm
Ambient Air Flowrate (FI-202)	<u>---</u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>47</u>	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	<u>53</u>	Inches of H2O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H2O
Effluent Air Flowrate (FI-203)	<u>1000</u>	scfm
Effluent Air Temperature (TI-202)	<u>104</u>	°F
Blower Current (B-201)	<u>22</u>	amps
Blower Hours (B-201)	<u>60114</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>34</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>35</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>13</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>36</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>38</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>12</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>104</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>186</u>	°F
Compressor Load Hours AC-201 display unit	<u>19291</u>	hours
Compressor Current (AC-201)	<u>16/25</u>	amps

55519 Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) (No)
SVE Knockout Tanks Drained ? (Yes/No) (No)
Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) (No) Changed ? (Yes/No) (No)
Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) (No) Changed ? (Yes/No) (No)
Blower Lubricated ? (Yes/No) (No)
Blower Oil Changed ? (Yes/No) (No)
Compressor In-line Air Filters (PF-202) Changed ? (Yes/No) (No)
Compressor Filter Changed ? (Yes/No) (No)
Compressor Oil Changed ? (Yes/No) (No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.
Lubricate weekly.
Change every 1,000 hours.
Changing frequency based on indicators on filter housings.
Change every 1,500 hours.
Change every 4,000 hours.

NOTES: BALANCED SVE & Sparge wells

KERAMIDA ENVIRONMENTAL, INC.



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 4-22-10 Technician: Alan Hamper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? (Yes / No)

Air Compressor (AC-201) Operating ? (Yes / No)

Air Sparges Operating ? (Yes/No)

Heater Operating ? (Yes/No)

Ventilation Operating ? (Yes/No)

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)	<u>13.5</u>	Inches of H2O
Influent Air Temperature (TI-201)	<u>52</u>	°F
Influent Air Flowrate (FI-201)	<u>—</u>	scfm
Ambient Air Flowrate (FI-202)	<u>—</u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>52</u>	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	<u>57</u>	Inches of H2O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H2O
Effluent Air Flowrate (FI-203)	<u>1300</u>	scfm
Effluent Air Temperature (TI-202)	<u>88</u>	°F
Blower Current (B-201)	<u>22</u>	amps
Blower Hours (B-201)	<u>59947</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>34</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>35</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>13</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>37</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>40</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>11.5</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>96</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>102</u>	°F
Compressor Load Hours AC-201 display unit	<u>19232</u>	hours
Compressor Current (AC-201)	<u>16/25</u>	amps

55352

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? (Yes/No) (No)

SVE Knockout Tanks Drained ? (Yes/No) (Yes)

Blower Dilution Air Filter (FS-201) Cleaned ? (Yes/No) (Yes) Changed ? (Yes/No) (Yes)

Blower In-line Air Filter (PF-201) Cleaned ? (Yes/No) (Yes) Changed ? (Yes/No) (Yes)

Blower Lubricated ? (Yes/No) (No)

Blower Oil Changed ? (Yes/No) (No)

Compressor In-line Air Filters (PF-202) Changed ? (Yes/No) (No)

Compressor Filter Changed ? (Yes/No) (No)

Compressor Oil Changed ? (Yes/No) (No)

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

Root tank full of H₂O. Blower down on high water
drained Root. Restarted main. Stop use adjustment. Recorded
data.

KERAMIDA ENVIRONMENTAL, INC.


401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 4-20-10 Technician: Alan Hamper

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating? (Yes/No)
Air Compressor (AC-201) Operating? (Yes/No)
Air Sparges Operating? (Yes/No)
Heater Operating? (Yes/No)
Ventilation Operating? (Yes/No)

If yes, which vault? (ASV 3, 5, 6, or 7)

OPERATIONAL PARAMETERS
SVE System

Influent Vacuum (PI-201)	<u>14</u>	Inches of H ₂ O
Influent Air Temperature (TI-201)	<u>50</u>	°F
Influent Air Flowrate (FI-201)	<u>—</u>	scfm
Ambient Air Flowrate (FI-202)	<u>—</u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>52</u>	Inches of H ₂ O
Particulate Filter Outlet Vacuum (PI-203)	<u>56</u>	Inches of H ₂ O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H ₂ O
Effluent Air Flowrate (FI-203)	<u>1000</u>	scfm
Effluent Air Temperature (TI-202)	<u>88</u>	°F
Blower Current (B-201)	<u>22</u>	amps
Blower Hours (B-201)	<u>59895</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>32</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>12</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>34</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>14</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>40</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>12</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>42</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>12</u>	scfm
Regulator Pressure (PI-206)	<u>40</u>	psi
Compressor Pressure (PI-205)	<u>110</u>	psi
Compressor Air Temperature (TI-203)	<u>90</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>187</u>	°F
Compressor Load Hours AC-201 display unit	<u>19193</u>	hours
Compressor Current (AC-201)	<u>16/25</u>	amps

55184 Total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected? (Yes/No)
SVE Knockout Tanks Drained? (Yes/No)
Blower Dilution Air Filter (FS-201) Cleaned? (Yes/No) Changed? (Yes/No)
Blower In-line Air Filter (PF-201) Cleaned? (Yes/No) Changed? (Yes/No)
Blower Lubricated? (Yes/No)
Blower Oil Changed? (Yes/No)
Compressor In-line Air Filters (PF-202) Changed? (Yes/No)
Compressor Filter Changed? (Yes/No)
Compressor Oil Changed? (Yes/No)

If yes, name: VOCE + VIOY / CHLORIDE

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

Blower Down on High Water Alarm. Drained K.O.T. & Reset
Air Pressure Regulator Broken in Compressor Room Pushing 100 PSI to Regulator
Took Regulator From South East System and put on Southwest System
Now regulated to 40 PSI
Took Air Sample
MWERS on Site cutting grass & turning weeds

KERAMIDA ENVIRONMENTAL, INC.



401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 4-13-10 Technician: ALAN HARPER

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating? (Yes/No)

Air Compressor (AC-201) Operating? (Yes/No)

Air Spargers Operating? (Yes/No)

Heater Operating? (Yes/No)

Ventilation Operating? (Yes/No)

If yes, which vault? (ASV 5, or 7)

OPERATIONAL PARAMETERS

SVE System

Influent Vacuum (PI-201)

Influent Air Temperature (TI-201)

Influent Air Flowrate (FI-201)

Ambient Air Flowrate (FI-202)

Particulate Filter Inlet Vacuum (PI-202)

Particulate Filter Outlet Vacuum (PI-203)

Effluent Air Pressure (PI-204)

Effluent Air Flowrate (FI-203)

Effluent Air Temperature (TI-202)

Blower Current (B-201)

Blower Hours (B-201)

14 Inches of H₂O
45.4 °F
— scfm
— scfm
54 Inches of H₂O
52 Inches of H₂O
0 Inches of H₂O
100 scfm
89 °F
27 amps
59881 hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)

Air Injection Flowrate ASV-4 (FI-204)

Air Injection Pressure ASV-5 (PI-208)

Air Injection Flowrate ASV-5 (FI-205)

Air Injection Pressure ASV-6 (PI-209)

Air Injection Flowrate ASV-6 (FI-206)

Air Injection Pressure ASV-7 (PI-210)

Air Injection Flowrate ASV-7 (FI-207)

Regulator Pressure (PI-206)

Compressor Pressure (PI-205)

Compressor Air Temperature (TI-203)

Compressor Air Temperature on AC-201 display unit

Compressor Load Hours AC-201 display unit

Compressor Current (AC-201)

33 psi
13 scfm
36 psi
13 scfm
42 psi
11 scfm
40 psi
12 scfm
42 psi
105 psi
95 °F
187 °F
19161 hours
16/25 amps

55017

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected? (Yes/No)

If yes, name: _____

SVE Knockout Tanks Drained? (Yes/No)

Blower Dilution Air Filter (FS-201) Cleaned? (Yes/No) Changed? (Yes/No)

Blower In-line Air Filter (PF-201) Cleaned? (Yes/No) Changed? (Yes/No)

Blower Lubricated? (Yes/No)

Blower Oil Changed? (Yes/No)

Compressor In-line Air Filters (PF-202) Changed? (Yes/No)

Compressor Filter Changed? (Yes/No)

Compressor Oil Changed? (Yes/No)

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES: CHECKED PHONE LINE w/ROB it WAS clear to
DIAL IN.

KERAMIDA ENVIRONMENTAL, INC.


401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 - FAX (317) 685-6610

OPERATION & MAINTENANCE LOG

Genuine Parts Groundwater Remediation System
KERAMIDA PROJECT #2829E

Date: 4/9/10 Technician: Robert Felder

SOUTHWEST SYSTEM STATUS

SVE Blower (B-201) Operating ? ☒ Yes / ☐ No
Air Compressor (AC-201) Operating ? ☒ Yes / ☐ No
Air Spargers Operating ? ☒ Yes / ☐ No
Heater Operating ? ☒ Yes / ☐ No
Ventilation Operating ? ☒ Yes / ☐ No

If yes, which vault? (ASV 4, 5, 6, or 7)

OPERATIONAL PARAMETERS
SVE System

Influent Vacuum (PI-201)	<u>14</u>	Inches of H2O
Influent Air Temperature (TI-201)	<u>42</u>	°F
Influent Air Flowrate (FI-201)	<u>-</u>	scfm
Ambient Air Flowrate (FI-202)	<u>-</u>	scfm
Particulate Filter Inlet Vacuum (PI-202)	<u>54</u>	Inches of H2O
Particulate Filter Outlet Vacuum (PI-203)	<u>52</u>	Inches of H2O
Effluent Air Pressure (PI-204)	<u>0</u>	Inches of H2O
Effluent Air Flowrate (FI-203)	<u>1800</u>	scfm
Effluent Air Temperature (TI-202)	<u>85</u>	°F
Blower Current (B-201)	<u>21</u>	amps
Blower Hours (B-201)	<u>59790</u>	hours

Air Sparging System

Air Injection Pressure ASV-4 (PI-207)	<u>33</u>	psi
Air Injection Flowrate ASV-4 (FI-204)	<u>13</u>	scfm
Air Injection Pressure ASV-5 (PI-208)	<u>26</u>	psi
Air Injection Flowrate ASV-5 (FI-205)	<u>15</u>	scfm
Air Injection Pressure ASV-6 (PI-209)	<u>42</u>	psi
Air Injection Flowrate ASV-6 (FI-206)	<u>11</u>	scfm
Air Injection Pressure ASV-7 (PI-210)	<u>40</u>	psi
Air Injection Flowrate ASV-7 (FI-207)	<u>11</u>	scfm
Regulator Pressure (PI-206)	<u>46</u>	psi
Compressor Pressure (PI-205)	<u>105</u>	psi
Compressor Air Temperature (TI-203)	<u>95</u>	°F
Compressor Air Temperature on AC-201 display unit	<u>185</u>	°F
Compressor Load Hours AC-201 display unit	<u>19125</u>	hours
Compressor Current (AC-201)	<u>16.11</u>	amps

25 hrs 54921 total

MAINTENANCE PARAMETERS:

Monthly Effluent Vapor Sample Collected ? ☒ Yes / ☐ No
SVE Knockout Tanks Drained ? ☒ Yes / ☐ No
Blower Dilution Air Filter (FS-201) Cleaned ? ☒ Yes / ☐ No Changed ? ☒ Yes / ☐ No
Blower In-line Air Filter (PF-201) Cleaned ? ☒ Yes / ☐ No Changed ? ☒ Yes / ☐ No
Blower Lubricated ? ☒ Yes / ☐ No
Blower Oil Changed ? ☒ Yes / ☐ No
Compressor In-line Air Filters (PF-202) Changed ? ☒ Yes / ☐ No
Compressor Filter Changed ? ☒ Yes / ☐ No
Compressor Oil Changed ? ☒ Yes / ☐ No

If yes, name: _____

Pressure loss across (PI-202 and PI-203) not to exceed 14 inches of H₂O.

Lubricate weekly.

Change every 1,000 hours.

Changing frequency based on indicators on filter housings.

Change every 1,500 hours.

Change every 4,000 hours.

NOTES:

Oil Changed in blower by J. Condry 4/9/10.

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

**ATTACHMENT 2
May 2010 - Performance Data Log**

Date: 5-19-10

Technician: ALAN HARPER

Air Sparging Points (AS-15, 16, 17, 18 & 19) Pressure set @ 8 psi with an Air Flow @ 6 cfm

Time	MW - 153		
	Vac./Pres. ("H ₂ O)	DTW (feet) (Screen @ 4.5' bgs)	DO (% or mg/L)
1330 0 (SVE Only, ASV's Off)	1.02	12.52	9.31
1345 0 (w/SVE-10&13asObs.Pt., ASV's Off)	1.02	12.54	8.96
1400	1.01	10.12	4.62
1415	1.01	9.89	4.97
1430	1.01	9.76	5.42
1500	1.01	9.67	6.13
1530	1.01	9.65	8.04
Time	SVE - 10		
	Vac./Pres. ("H ₂ O)	DTW (feet) (Screen 5' bgs)	DO (% or mg/L)
1330 0 (SVE Only, ASV's Off)	8	10.75	7.40
1345 0 (as Obs. Pt., ASV's Off)	1.10	10.72	6.80
1400	1.12	8.96	5.14
1415	1.08	8.90	7.23
1430	1.06	8.81	7.64
1500	1.06	8.78	8.06
1530	1.06	8.72	8.37
Time	SVE - 11		
	Vac./Pres. ("H ₂ O)	DTW (feet) (Screen @ 5' bgs)	DO (% or mg/L)
1330 0 (SVE Only, ASV's Off)	8	10.64	7.02
1345 0 (w/SVE-10&13asObs.Pt., ASV's Off)	8	10.67	6.36
1400	8	8.04	6.13
1415	8	8.54	5.82
1430	8	8.31	5.73
1500	8	8.23	6.01
1530	8	8.30	6.23
Time	SVE - 12		
	Vac./Pres. ("H ₂ O)	DTW (feet) (Screen @ 5' bgs)	DO (% or mg/L)
1330 0 (SVE Only, ASV's Off)	8	10.14	7.31
1345 0 (w/SVE-10&13asObs.Pt., ASV's Off)	8	10.03	6.43
1400	8	9.78	8.07
1415	8	9.73	9.83
1430	8	9.70	9.97
1500	8	9.67	10.17
1530	8	9.66	10.81
Time	SVE - 13		
	Vac./Pres. ("H ₂ O)	DTW (feet) (Screen 5' bgs)	DO (% or mg/L)
1330 0 (SVE Only, ASV's Off)	8	10.18	6.40
1345 0 (as Obs. Pt., ASV's Off)	0	10.13	6.60
1400	0	9.00	6.70
1415	0	8.96	8.40
1430	0	8.97	9.17
1500	0	9.02	9.93
1530	0	8.95	10.17

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

**ATTACHMENT 3
April through May 2010
Vapor Analytical Reports and Discharge Calculations**

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remediation System

Date: 5-19-10

Time: Southwest System

Enter Air Flowrate in CFM

1000

Enter Concentrations in PPMV

Vinyl Chloride

0

Methylene Chloride

0

t-1,2 DCE

0

Chloroform

0

1,1,1 TCA

0

Carbon Tetrachloride

0

TCE

0.052

PCE

0

Vinyl Chloride

0.00

0.00

Methylene Chloride

0.00

0.00

t-1,2 DCE

0.00

0.00

Chloroform

0.00

0.00

1,1,1 TCA

0.00

0.00

Carbon Tetrachloride

0.00

0.00

TCE

0.03

0.00

PCE

0.00

0.00

Total Chlorinated HC

0.03

0.00

Vapor Discharge Calculation Worksheet

Site: Former Allison Plant #10 - Groundwater Remediation System

Date: 4-20-10

Time: Southwest System

Enter Air Flowrate in CFM

1000

Enter Concentrations in PPMV

Vinyl Chloride

0

Methylene Chloride

0

t-1,2 DCE

0

Chloroform

0

1,1,1 TCA

0

Carbon Tetrachloride

0

TCE

0.051

PCE

0

Vinyl Chloride

0.00

0.00

Methylene Chloride

0.00

0.00

t-1,2 DCE

0.00

0.00

Chloroform

0.00

0.00

1,1,1 TCA

0.00

0.00

Carbon Tetrachloride

0.00

0.00

TCE

0.03

0.00

PCE

0.00

0.00

Total Chlorinated HC

0.03

0.00



Analytical Laboratory & Geoprobe Sampling

RECEIVED

JUN 01 2010

KERAMIDA

5/25/2010

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE
Indianapolis, IN 46202

Dear Rob:

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on May 21, 2010 for your project; 2829E - GP.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

A handwritten signature in black ink, appearing to read 'David J. Masdea', written in a cursive style.

David J. Masdea

Enclosure:

Vaportech Services, Inc

KER274-0308

Keramida Environmental, Inc.
Project: G.P. - 2829E

CONCENTRATIONS IN PPMV

COMPOUND	SVE EX	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.052	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V64A/B.488.BND
DATE SAMPLED	05/19/10
DATE RECEIVED	05/21/10
DATE ANALYZED	05/25/10

PQL - denotes lower 'Practical Quantitation Limit'

ND - 'Not Detected' at or above the lower practical quantitation limit

25-May-10

Reviewed by: _____



Vaportech Services, Inc

Keramida Environmental, Inc.
Quality Control
Laboratory Project(s): 0308

CONTINUING CALIBRATION CHECK

STANDARDS: 21V-R4 STD VC1000
FILE NAME: V64B.488.BND V64A.482.BND
DATE ANALYZED: 05/24/10 05/24/10

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	0.99	1.88
METHYLENE CHLORIDE	1.15	1.07	6.70
TRANS-1,2 DICHLOROETHYLENE	1.01	0.92	8.81
1,1 DICHLOROETHANE	0.99	0.91	8.18
CIS-1,2 DICHLOROETHYLENE	1.01	0.99	2.28
CHLOROFORM	0.820	0.841	2.56
1,1,1 TRICHLOROETHANE	0.730	0.718	1.64
CARBON TETRACHLORIDE	0.640	0.624	2.50
TRICHLOROETHYLENE	0.740	0.747	0.95
TETRACHLOROETHYLENE	0.590	0.631	6.95
VINYL CHLORIDE	1000	978	2.17

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V64A/B.479.BND
DATE ANALYZED: 05/24/10

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.10
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

ND - 'Not Detected' at or above the lower practical quantitation limit





APORTECH
Services, Inc.

158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Sampler's signature: Alan Hays

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform
 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Alan Hayes

Analysis Options:

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

[illegible]

Results to :	Rob Fedorchak				Invoice to :	Cheryl Apple			
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :		
<i>[Signature]</i>		5-19-10	1420	<i>[Signature]</i>	<i>[Signature]</i>	5/24/10	1200		
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :		
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :		

WHITE COPY : Laboratory to return.

YELLOW COPY : Laboratory

PINK COPY: Submitter



Analytical Laboratory & Geoprobe Sampling

4/27/2010

Mr. Rob Fedorchak
Keramida Environmental, Inc.
401 N. College AVE
Indianapolis, IN 46202

RECEIVED

MAY 07 2010

Dear Rob:

KERAMIDA

Enclosed are the sample data report, chain of custody record and quality control data for the sample(s) received on April 23, 2010 for your project; 2829E - G.P..

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

A handwritten signature in black ink, appearing to read 'David J. Masdea', with a long horizontal flourish extending to the right.

David J. Masdea

Enclosure:

Vaportech Services, Inc

KER273-0241

Keramida Environmental, Inc.
Project: G.P. - 2829E

CONCENTRATIONS IN PPMV

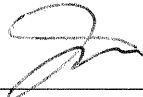
COMPOUND	SVE EX	PQL
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.05
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	0.051	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

FILE NAME	V64A/B.248.BND
DATE SAMPLED	04/20/10
DATE RECEIVED	04/23/10
DATE ANALYZED	04/23/10

PQL - denotes lower 'Practical Quantitation Limit'

ND - 'Not Detected' at or above the lower practical quantitation limit

27-Apr-10

Reviewed by: 

Vaportech Services, Inc

Keramida Environmental, Inc.
Quality Control
Laboratory Project(s): 0241

CONTINUING CALIBRATION CHECK

STANDARDS: 21V-R4 STD VC1000
FILE NAME: V64B.246.BND V64A.247.BND
DATE ANALYZED: 04/23/10 04/23/10

COMPOUND	KNOWN (PPMV)	RESULT (PPMV)	PERCENT DIFFERENCE
1,1 DICHLOROETHYLENE	1.01	0.84	17.13
METHYLENE CHLORIDE	1.15	1.09	5.48
TRANS-1,2 DICHLOROETHYLENE	1.01	0.95	6.04
1,1 DICHLOROETHANE	0.99	0.99	0.30
CIS-1,2 DICHLOROETHYLENE	1.01	1.02	0.59
CHLOROFORM	0.820	0.846	3.17
1,1,1 TRICHLOROETHANE	0.730	0.748	2.47
CARBON TETRACHLORIDE	0.640	0.647	1.09
TRICHLOROETHYLENE	0.740	0.790	6.76
TETRACHLOROETHYLENE	0.590	0.633	7.29
VINYL CHLORIDE	1000	949	5.14

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
FILE NAME: V64A/B.245.BND
DATE ANALYZED: 04/23/10

COMPOUND	BLANK (PPMV)	PRACTICAL QUANTITATION LIMIT (PPMV)
1,1 DICHLOROETHYLENE	ND	0.01
METHYLENE CHLORIDE	ND	0.10
TRANS-1,2 DICHLOROETHYLENE	ND	0.01
1,1 DICHLOROETHANE	ND	0.02
CIS-1,2 DICHLOROETHYLENE	ND	0.01
CHLOROFORM	ND	0.005
1,1,1 TRICHLOROETHANE	ND	0.005
CARBON TETRACHLORIDE	ND	0.005
TRICHLOROETHYLENE	ND	0.005
TETRACHLOROETHYLENE	ND	0.005
VINYL CHLORIDE	ND	1

ND - 'Not Detected' at or above the lower practical quantitation limit



APORTECH
Services, Inc.

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform
 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

[illegible]

Results to :	Rob Fedorchack						Invoice to :	Cheryl Apple					
Relinquished by :	[Signature]		Company :	Veranda		Time :	[Signature]		Company :	Veranda		Time :	
Relinquished by :	[Signature]		Company :	Veranda		Time :	[Signature]		Company :	Veranda		Time :	
Relinquished by :	[Signature]		Company :	Veranda		Time :	[Signature]		Company :	Veranda		Time :	

WHITE COPY : Laboratory to return.

YELLOW COPY : Laboratory

PINK COPY: Submitter

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

**ATTACHMENT 4
April through June 2010
Phytoremediation System Inspection Checklist &
Sampling Analytical Reports**

Phytoremediation System Inspection Checklist
Former General Motors Corporation
Allison Gas Turbine Division Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date of Inspection: 6-29-11

Inspection Frequency: _____

(monthly, quarterly, other)

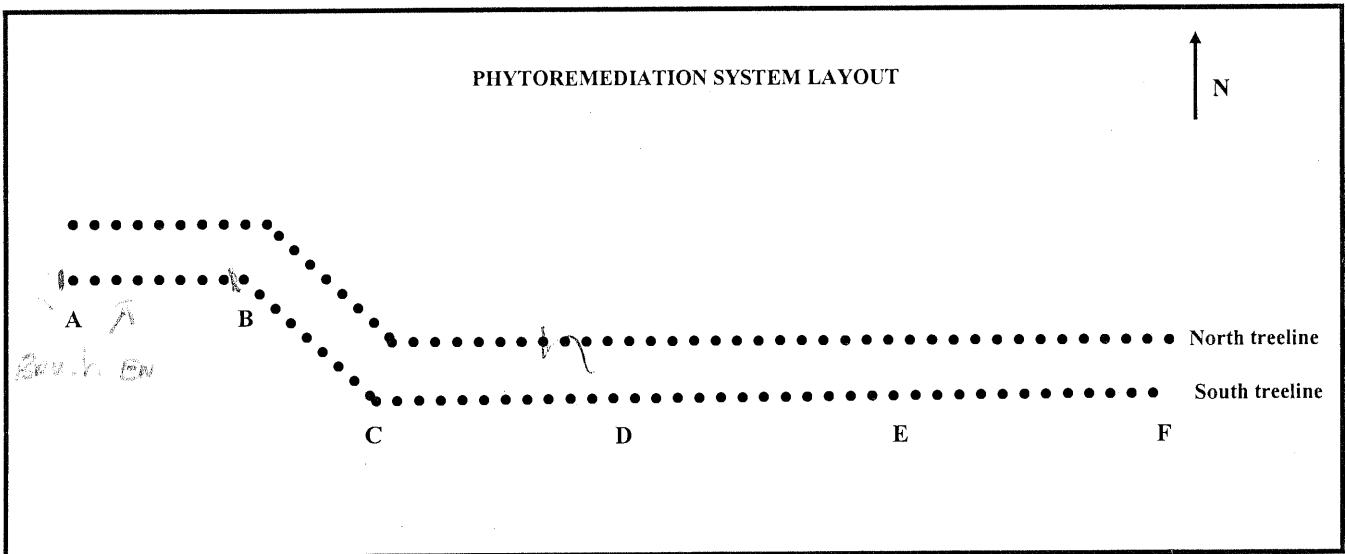
Inspector: Alan Thompson

Parameters		
Ground ⁽¹⁾	Trunk, Limbs & Branches ⁽²⁾	Stability ⁽³⁾

North Treeline Areas:			
A-B	✓	✓	✓
B-C	✓	✓	✓
C-D	✓	✓	✓
D-E	✓	✓	✓
E-F	✓	✓	✓

South Treeline Areas:			
A-B	✓	RA	✓
B-C	✓	RA	✓
C-D	✓	RA	✓
D-E	✓	RA	✓
E-F	✓	RA	✓

RA
 ← UNDERGROWTH
 ENCROACHMENT



Notes:

(1) Ground - check for soil coverage at tree base

(2) Trunk, limbs, & branches - check for broken branches, lacerations, pests, or other signs of damage or potential problems with the tree

(3) Stability - check for overall stability of the tree

Place a check mark in each box where no problems are observed.

Write "RA" where remedial action is needed to address a problem and describe the problem and remedial actions needed on the back of this form.

Phytoremediation System Inspection Checklist
Former General Motors Corporation
Allison Gas Turbine Division Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date of Inspection: 5-11-10

Inspection Frequency: _____

(monthly, quarterly, other)

Inspector: Alan Harper

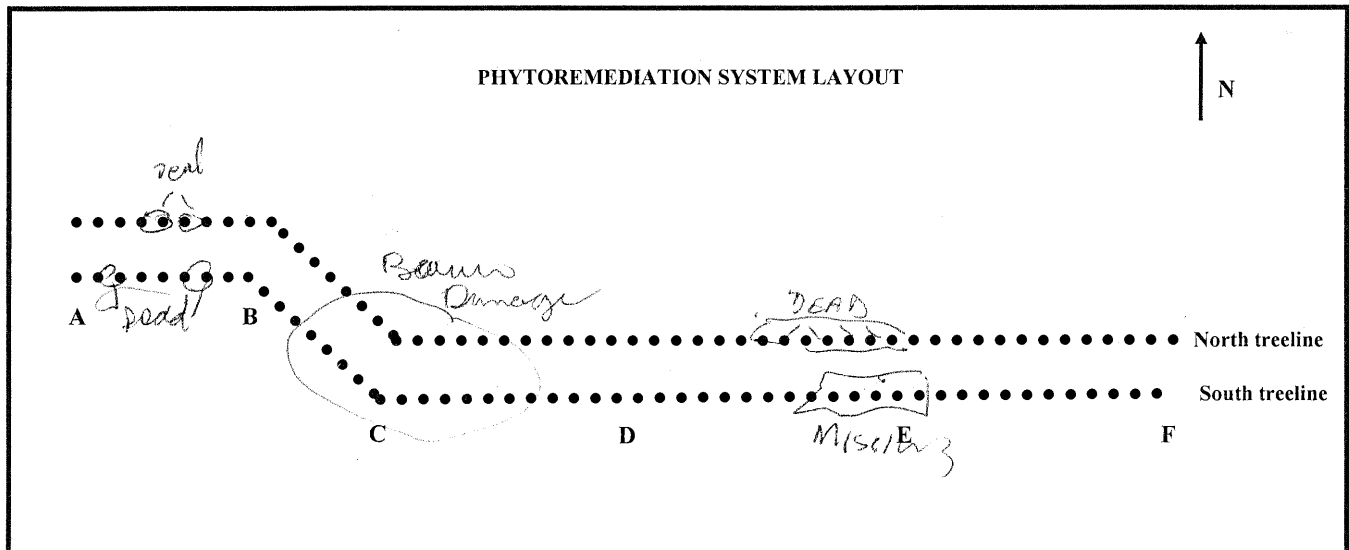
Parameters		
Ground ⁽¹⁾	Trunk, Limbs & Branches ⁽²⁾	Stability ⁽³⁾

North Treeline Areas:

A-B	✓	✓	✓
B-C	✓	✓	✓
C-D	✓	✓	✓
D-E	✓	✓	✓
E-F	✓	✓	✓

South Treeline Areas:

A-B	✓	✓	✓
B-C	✓	✓	✓
C-D	✓	✓	✓
D-E	✓	✓	✓
E-F	✓	✓	✓



Notes:

(1) Ground - check for soil coverage at tree base

(2) Trunk, limbs, & branches - check for broken branches, lacerations, pests, or other signs of damage or potential problems with the tree

(3) Stability - check for overall stability of the tree

Place a check mark in each box where no problems are observed.

Write "RA" where remedial action is needed to address a problem and describe the problem and remedial actions needed on the back of this form.

Phytoremediation System Inspection Checklist
Former General Motors Corporation
Allison Gas Turbine Division Plant 10
Indianapolis, Indiana
IDEM VRP #6991004
KERAMIDA Project No. 2829E

Date of Inspection: 4-13-10

Inspection Frequency:

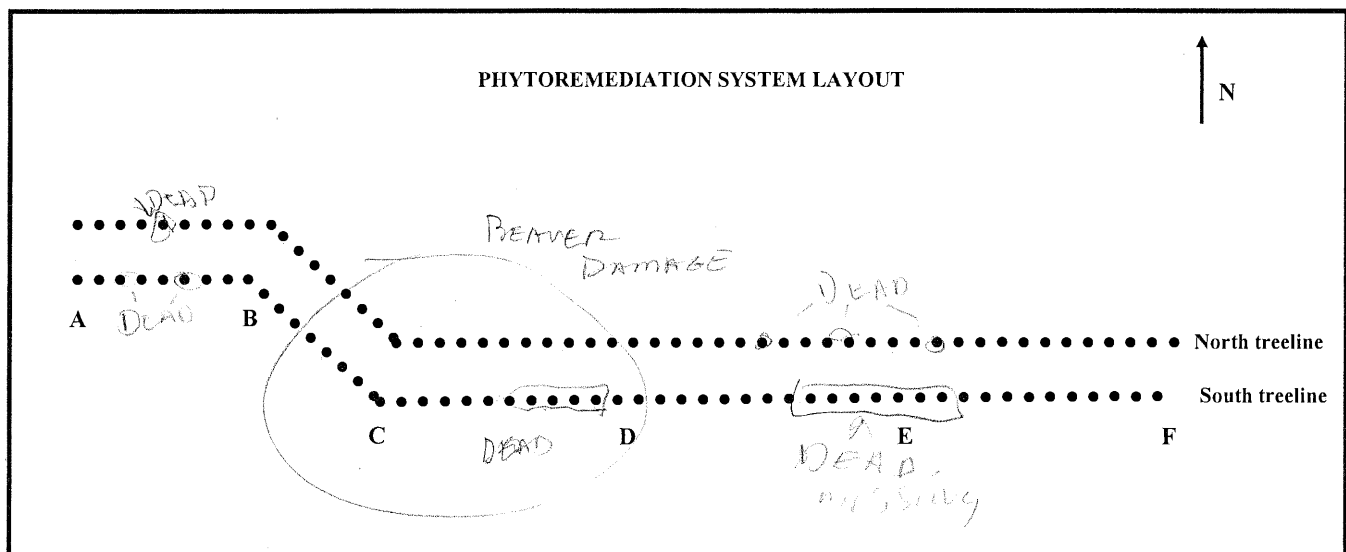
(monthly, quarterly, other)

Inspector: Alan Harper

Parameters		
Ground ⁽¹⁾	Trunk, Limbs & Branches ⁽²⁾	Stability ⁽³⁾

North Treeline Areas:			
A-B	✓	✓	✓
B-C	✓	✓	✓
C-D	✓	✓	✓
D-E	✓	✓	✓
E-F	✓	✓	✓

South Treeline Areas:			
A-B	✓	✓	✓
B-C	✓	✓	✓
C-D	✓	✓	✓
D-E	✓	✓	✓
E-F	✓	✓	✓



Notes:

(1) Ground - check for soil coverage at tree base

(2) Trunk, limbs, & branches - check for broken branches, lacerations, pests, or other signs of damage or potential problems with the tree

(3) Stability - check for overall stability of the tree

Place a check mark in each box where no problems are observed.

Write "RA" where remedial action is needed to address a problem and describe the problem and remedial actions needed on the back of this form.



Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

July 13, 2010

Mr. Rob Fedorchak
Keramida Environmental
401 North College Avenue
Indianapolis, IN 46202

RE: Project: Genuine Parts/2829E
Pace Project No.: 5038971

Dear Mr. Fedorchak:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrew Votaw

andrew.votaw@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE SUMMARY

Project: Genuine Parts/2829E
Pace Project No.: 5038971

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5038971001	West Leaf	Solid	06/30/10 08:00	06/30/10 13:07
5038971002	Center Leaf	Solid	06/30/10 08:00	06/30/10 13:07
5038971003	East Leaf	Solid	06/30/10 08:00	06/30/10 13:07

REPORT OF LABORATORY ANALYSIS

Page 2 of 8

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: Genuine Parts/2829E
Pace Project No.: 5038971

Lab ID	Sample ID	Method	Analyst	Analytes Reported
5038971001	West Leaf	EPA 8260	JLF	9
5038971002	Center Leaf	EPA 8260	JLF	9
5038971003	East Leaf	EPA 8260	JLF	9

REPORT OF LABORATORY ANALYSIS

Page 3 of 8

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: Genuine Parts/2829E
Pace Project No.: 5038971

Sample: West Leaf **Lab ID: 5038971001** Collected: 06/30/10 08:00 Received: 06/30/10 13:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 16:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 16:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 16:19	156-60-5	
Tetrachloroethene	ND	mg/kg	0.025	5		07/08/10 16:19	127-18-4	
Trichloroethene	ND	mg/kg	0.025	5		07/08/10 16:19	79-01-6	
Vinyl chloride	ND	mg/kg	0.025	5		07/08/10 16:19	75-01-4	1d
Dibromofluoromethane (S)	89	%	80-124	5		07/08/10 16:19	1868-53-7	
Toluene-d8 (S)	100	%	58-145	5		07/08/10 16:19	2037-26-5	
4-Bromofluorobenzene (S)	89	%	61-131	5		07/08/10 16:19	460-00-4	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E

Pace Project No.: 5038971

Sample: Center Leaf Lab ID: 5038971002 Collected: 06/30/10 08:00 Received: 06/30/10 13:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 16:49	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 16:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 16:49	156-60-5	
Tetrachloroethene	ND	mg/kg	0.025	5		07/08/10 16:49	127-18-4	
Trichloroethene	ND	mg/kg	0.025	5		07/08/10 16:49	79-01-6	
Vinyl chloride	ND	mg/kg	0.025	5		07/08/10 16:49	75-01-4	1d
Dibromofluoromethane (S)	91	%	80-124	5		07/08/10 16:49	1868-53-7	
Toluene-d8 (S)	98	%	58-145	5		07/08/10 16:49	2037-26-5	
4-Bromofluorobenzene (S)	88	%	61-131	5		07/08/10 16:49	460-00-4	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E
Pace Project No.: 5038971

Sample: East Leaf **Lab ID: 5038971003** Collected: 06/30/10 08:00 Received: 06/30/10 13:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
1,1-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 17:19	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 17:19	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.025	5		07/08/10 17:19	156-60-5	
Tetrachloroethene	ND	mg/kg	0.025	5		07/08/10 17:19	127-18-4	
Trichloroethene	ND	mg/kg	0.025	5		07/08/10 17:19	79-01-6	
Vinyl chloride	ND	mg/kg	0.025	5		07/08/10 17:19	75-01-4	1d
Dibromofluoromethane (S)	90 %		80-124	5		07/08/10 17:19	1868-53-7	
Toluene-d8 (S)	93 %		58-145	5		07/08/10 17:19	2037-26-5	
4-Bromofluorobenzene (S)	100 %		61-131	5		07/08/10 17:19	460-00-4	

QUALITY CONTROL DATA

Project: Genuine Parts/2829E
Pace Project No.: 5038971

QC Batch: MSV/25201 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 5038971001, 5038971002, 5038971003

METHOD BLANK: 454199 Matrix: Solid

Associated Lab Samples: 5038971001, 5038971002, 5038971003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.0050	07/08/10 10:47	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	07/08/10 10:47	
Tetrachloroethene	mg/kg	ND	0.0050	07/08/10 10:47	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	07/08/10 10:47	
Trichloroethene	mg/kg	ND	0.0050	07/08/10 10:47	
Vinyl chloride	mg/kg	ND	0.0050	07/08/10 10:47	
4-Bromofluorobenzene (S)	%	95	61-131	07/08/10 10:47	
Dibromofluoromethane (S)	%	97	80-124	07/08/10 10:47	
Toluene-d8 (S)	%	94	58-145	07/08/10 10:47	

LABORATORY CONTROL SAMPLE: 454200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.05	0.054	107	61-123	
cis-1,2-Dichloroethene	mg/kg	.05	0.049	99	76-119	
Tetrachloroethene	mg/kg	.05	0.044	87	63-117	
trans-1,2-Dichloroethene	mg/kg	.05	0.052	104	70-122	
Trichloroethene	mg/kg	.05	0.046	93	74-121	
Vinyl chloride	mg/kg	.05	0.047	94	50-146	
4-Bromofluorobenzene (S)	%			101	61-131	
Dibromofluoromethane (S)	%			100	80-124	
Toluene-d8 (S)	%			100	58-145	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 454201 454202

Parameter	Units	5039062004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1-Dichloroethene	mg/kg	ND	.062	.062	0.069	0.070	111	113	23-132	2	20
cis-1,2-Dichloroethene	mg/kg	ND	.062	.062	0.060	0.065	97	105	30-141	8	20
Tetrachloroethene	mg/kg	ND	.062	.062	0.044	0.054	71	88	40-155	21	20
trans-1,2-Dichloroethene	mg/kg	ND	.062	.062	0.063	0.067	102	108	40-140	6	20
Trichloroethene	mg/kg	ND	.062	.062	0.051	0.059	83	95	40-153	14	20
Vinyl chloride	mg/kg	ND	.062	.062	0.065	0.064	106	104	36-137	2	20
4-Bromofluorobenzene (S)	%						98	98	61-131		20
Dibromofluoromethane (S)	%						99	103	80-124		20
Toluene-d8 (S)	%						102	100	58-145		20

Date: 07/13/2010 04:06 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 8

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALIFIERS

Project: Genuine Parts/2829E
Pace Project No.: 5038971

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

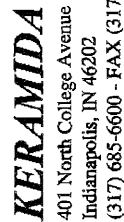
U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1d Sample analyzed at a dilution due to sample matrix. JLF 7/9/10.



CHAIN OF CUSTODY RECORD

COC# 5620

Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

[illegible]

Sample Condition Upon Receipt

Face Analytical

Client Name: Keramida

Project # 5038971

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used 1234567 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.2 Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: AD 6/30/10

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	5.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	6.
Containers Intact:	☒ Yes ☐ No ☐ N/A	7.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	8.
-Includes date/time/ID/Analysis		
All containers needing preservation have been pH checked?	☐ Yes ☐ No ☒ N/A	9.
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)		
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	10.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	11.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☐ Yes ☐ No ☐ N/A	12.
Sufficient Volume:	☐ Yes ☐ No ☐ N/A	13.
Correct Containers Used:	☐ Yes ☐ No ☐ N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 6/30/10

7/26/2010

Mr. Robert Fedorchak
Keramida Environmental
401 North College Avenue

Indianapolis IN 46202

Project Name: G.P.
Project #: 2829 E
Workorder #: 1007049

Dear Mr. Robert Fedorchak

The following report includes the data for the above referenced project for sample(s) received on 7/2/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1007049

Work Order Summary

CLIENT: Mr. Robert Fedorchak
Keramida Environmental
401 North College Avenue
Indianapolis, IN 46202

BILL TO: Accounts Payable
Keramida Environmental
401 North College Avenue
Indianapolis, IN 46202

PHONE: 317-441-5633

P.O. #

FAX: 317-685-6600

PROJECT # 2829 E G.P.

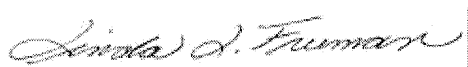
DATE RECEIVED: 07/02/2010

CONTACT: Ausha Scott

DATE COMPLETED: 07/24/2010

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	WEST	Modified TO-15 (5&20 ppbv	0.5 "Hg	5 psi
02A	CENTER	Modified TO-15 (5&20 ppbv	1.0 "Hg	5 psi
03A	EAST	Modified TO-15 (5&20 ppbv	0.0 "Hg	5 psi
04A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
05A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
06A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY:



DATE: 07/26/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,

NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
Keramida Environmental
Workorder# 1007049

Three 6 Liter Summa Canister samples were received on July 02, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	+/- 30% Difference	<= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples WEST, CENTER and EAST due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: WEST

Lab ID#: 1007049-01A

No Detections Were Found.

Client Sample ID: CENTER

Lab ID#: 1007049-02A

No Detections Were Found.

Client Sample ID: EAST

Lab ID#: 1007049-03A

No Detections Were Found.

Client Sample ID: WEST

Lab ID#: 1007049-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w072213	Date of Collection: 6/30/10 9:00:00 AM
Dil. Factor:	34.0	Date of Analysis: 7/22/10 01:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	170	Not Detected	430	Not Detected
1,1-Dichloroethene	170	Not Detected	670	Not Detected
trans-1,2-Dichloroethene	170	Not Detected	670	Not Detected
cis-1,2-Dichloroethene	170	Not Detected	670	Not Detected
Trichloroethene	170	Not Detected	910	Not Detected
Tetrachloroethene	170	Not Detected	1200	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: CENTER

Lab ID#: 1007049-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w072214	Date of Collection: 6/30/10 9:30:00 AM
Dil. Factor:	13.9	Date of Analysis: 7/22/10 01:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	70	Not Detected	180	Not Detected
1,1-Dichloroethene	70	Not Detected	280	Not Detected
trans-1,2-Dichloroethene	70	Not Detected	280	Not Detected
cis-1,2-Dichloroethene	70	Not Detected	280	Not Detected
Trichloroethene	70	Not Detected	370	Not Detected
Tetrachloroethene	70	Not Detected	470	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: EAST

Lab ID#: 1007049-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w072216	Date of Collection: 6/30/10 9:45:00 AM
Dil. Factor:	4.47	Date of Analysis: 7/22/10 03:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	22	Not Detected	57	Not Detected
1,1-Dichloroethene	22	Not Detected	89	Not Detected
trans-1,2-Dichloroethene	22	Not Detected	89	Not Detected
cis-1,2-Dichloroethene	22	Not Detected	89	Not Detected
Trichloroethene	22	Not Detected	120	Not Detected
Tetrachloroethene	22	Not Detected	150	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: Lab Blank

Lab ID#: 1007049-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w072211	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/22/10 11:40 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: CCV

Lab ID#: 1007049-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w072206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/22/10 09:26 AM

Compound	%Recovery
Vinyl Chloride	86
1,1-Dichloroethene	93
trans-1,2-Dichloroethene	96
cis-1,2-Dichloroethene	93
Trichloroethene	82
Tetrachloroethene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: LCS

Lab ID#: 1007049-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	w072208	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/22/10 10:31 AM

Compound	%Recovery
Vinyl Chloride	91
1,1-Dichloroethene	85
trans-1,2-Dichloroethene	96
cis-1,2-Dichloroethene	95
Trichloroethene	82
Tetrachloroethene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

**180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020**

Page 1 of 1

Project Manager ROB FEDORCHAK

Collected by: (Print and Sign) ALAN HARPER Alan Harper

Company KERAMIDA Email _____

Address 401 N. College Ave IN Zip 46102
Indianapolis State

Phone 317-685-6600 Fax 317-685-6610

Project Manager <u>ROB FEDORCHAK</u> Collected by: (Print and Sign) <u>ALAN HARPER</u> <u>Alan Harper</u> Company <u>KERAMIDA</u> Email _____ Address <u>401 N. College Avenue</u> <u>INDIANAPOLIS</u> <u>IN</u> <u>46202</u> Phone <u>317-685-6600</u> Fax <u>317-685-6610</u>		Project Info: P.O. # _____ Project # <u>2829 E</u> Project Name <u>G.P.</u>		Turn Around Time: ☒ Normal ☐ Rush specify _____		Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He	
Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
D1A	WEST	1566	6-30-10	0900		Initial Final -30 0	
D2A	CENTER	21014	6-30-10	0930		Initial Final -30 0	
D3A	EAST	5553	6-30-10	0945		Initial Final -30 0	
For ALL SAMPLES REPORT PCE, TCE, VC, 1, 1, DCE, CIS-1, 2 DCE AND TRANS-1, 2 DCE							
Notes: Relinquished by: (signature) <u>Monica Groggen AR</u> Date/Time <u>7/10 1010</u> Relinquished by: (signature) <u>Monica Groggen AR</u> Date/Time <u>7/10 1010</u> Relinquished by: (signature) _____ Date/Time _____ Relinquished by: (signature) _____ Date/Time _____							
Lab Use Only Relinquished by: (signature) _____ Date/Time _____ Relinquished by: (signature) _____ Date/Time _____		Shipper Name <u>UPS</u> Air Bill # _____ Temp (°C) <u>NA</u> Condition <u>Good</u> Custody Seals Intact? <u>Yes</u> No <u>None</u> Work Order # <u>100704</u>					

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

**ATTACHMENT 5
May 2010 - Groundwater Sample Information Sheets**

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 169-D	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	34.55 ft
Depth to product	ft
Depth to water (DTW)	19.95 ft

Sample Types (circle all applicable)

<u>Monitoring Well</u>	
<u>Grab</u> /Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	31.55 ft
Bubbles purged from flow cell?	<u>Y</u> /N
Is drawdown > 0.3 feet	<u>Y</u> /N
Was passive sampling used?	Y/ <u>N</u>
Flowrate =	7 mL/min
ID number from controller console	# 15pm

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.69	14.70	14.72				
Spec. Cond (µmhos)	+/- 3%	.906	.907	.909				
D.O. (mg/L)	+/- 10%**	.42	.39	.38				
pH	+/- 0.1	7.52	7.52	7.53				
ORP (mV)	+/- 10 mV**	24	13	12				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 10:30 (military time)

Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES (NO) explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: need new covers "new pad"

Signature: J. J. [Signature] Date: 5/19/10

1214
-827

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 169-S	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	23.21 ft
Depth to product	ft
Depth to water (DTW)	20.00 ft

Sample Types (circle all applicable)	
☒ Monitoring Well	
☒ Grab/Composite	
☐ Split Sample	
Duplicate (Duplicate ID: _____)	
☐ MS/MSD	
Other _____	

Conventional sampling	⇐OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) _____ ft		Depth of pump placement (place mid-screen) _____ 20.21 ft
Conversion value (CV)* x _____		Bubbles purged from flow cell? ☒ Y / ☐ N
1 Well volume = H x CV = _____ gal		Is drawdown > 0.3 feet ☒ Y / ☐ N
3 Well volumes = _____ gal		Was passive sampling used? ☐ Y / ☒ N
Purge method (B = bailer, P = pump) _____ B / P		Flowrate = _____ 15 gpm mL/min
		ID number from controller console # _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	15.11	14.95	14.91				
Spec. Cond (µmhos)	+/- 3%	688	690	691				
D.O. (mg/L)	+/- 10%**	4.37	4.30	4.31				
pH	+/- 0.1	7.47	7.42	7.42				
ORP (mV)	+/- 10 mV**	86	86	86				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 11:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: new pad

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 167-1	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	32.65 ft
Depth to product	ft
Depth to water (DTW)	18.48 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☐ Grab/Composite
☐ Split Sample
☒ Duplicate (Duplicate ID: DP-01)
☐ MS/MSD
☐ Other

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	29.65 ft
Bubbles purged from flow cell?	☒ Y / ☐ N
Is drawdown > 0.3 feet	☒ Y / ☐ N
Was passive sampling used?	Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	15.37	15.38	15.39				
Spec. Cond (µmhos)	+/- 3%	891	893	890				
D.O. (mg/L)	+/- 10%**	.32	.29	.27				
pH	+/- 0.1	7.66	7.65	7.65				
ORP (mV)	+/- 10 mV**	125	119	114				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 11:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 167-S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	21.85 ft
Depth to product	ft
Depth to water (DTW)	18.25 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☐ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	18.85 ft
Bubbles purged from flow cell?	Y/N
Is drawdown >0.3 feet	Y/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.40	14.42	14.45				
Spec. Cond (µmhos)	+/- 3%	1.168	1.165	1.170				
D.O. (mg/L)	+/- 10%**	1.74	1.59	1.58				
pH	+/- 0.1	7.42	7.40	7.38				
ORP (mV)	+/- 10 mV**	51	79	78				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 12:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 165-S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.60 ft
Depth to product	ft
Depth to water (DTW)	13.95 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.60 ft
Bubbles purged from flow cell?	☒ Y ☐ N
Is drawdown > 0.3 feet	☒ Y ☐ N
Was passive sampling used?	☐ Y ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	9.89	9.97	10.01				
Spec. Cond (µmhos)	+/- 3%	797	~~243.73~~	793				
D.O. (mg/L)	+/- 10%**	.64	.65	.60				
pH	+/- 0.1	7.73	7.73	7.73				
ORP (mV)	+/- 10 mV**	18	16	16				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
 Sample Date: 5/19/10 Sample Time: 13:30 (military time)
 Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
 Color of water before filtration: N/A After filtration: N/A
 Reaction upon addition of preservatives? YES NO explain: N/A
 Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
 Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-165-D	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	46.45 ft
Depth to product	ft
Depth to water (DTW)	13.85 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	43.45 ft
Bubbles purged from flow cell?	☒ Y ☐ N
Is drawdown > 0.3 feet	☒ Y ☐ N
Was passive sampling used?	☐ Y ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	9.89	9.99	10.01				
Spec. Cond (µmhos)	+/- 3%	1.311	1.307	1.307				
D.O. (mg/L)	+/- 10%**	.45	.42	.41				
pH	+/- 0.1	7.88	7.87	7.87				
ORP (mV)	+/- 10 mV**	41	31	30				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 13:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 166-2	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	49.60 ft
Depth to product	ft
Depth to water (DTW)	14.60 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	46.60 ft
Bubbles purged from flow cell?	☒ Y / ☐ N
Is drawdown > 0.3 feet	☒ Y / ☐ N
Was passive sampling used?	☐ Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.87	14.88	14.89				
Spec. Cond (µmhos)	+/- 3%	1716	1719	1726				
D.O. (mg/L)	+/- 10%**	194	188	179				
pH	+/- 0.1	7.84	7.84	7.83				
ORP (mV)	+/- 10 mV**	56	47	46				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 14:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 166-S	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.00 ft
Depth to product	ft
Depth to water (DTW)	14.83 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.00 ft
Bubbles purged from flow cell?	☒ Y ☐ N
Is drawdown > 0.3 feet	☒ Y ☐ N
Was passive sampling used?	☐ Y ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.47	14.48	14.49				
Spec. Cond (µmhos)	+/- 3%	789	805	809				
D.O. (mg/L)	+/- 10%**	.67	.63	.64				
pH	+/- 0.1	7.66	7.65	7.63				
ORP (mV)	+/- 10 mV**	92	92	92				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/19/10 Sample Time: 14:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/19/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>147-4R</u>	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>28.60</u> ft
Depth to product	ft
Depth to water (DTW)	<u>11.26</u> ft

Sample Types (circle all applicable)

Monitoring Well

Grab/Composite

Split Sample

Duplicate (Duplicate ID: _____)

MS/MSD

Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	<u>25.60</u> ft
Bubbles purged from flow cell?	<u>(Y)</u> /N
Is drawdown >0.3 feet	<u>(Y)</u> /N
Was passive sampling used?	Y <u>(N)</u>
Flowrate =	<u>1gpm</u> mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>14.13</u>	<u>14.16</u>	<u>14.17</u>	_____	_____	_____	_____
Spec. Cond (µmhos)	+/- 3%	<u>1.337</u>	<u>1.334</u>	<u>1.335</u>	_____	_____	_____	_____
D.O. (mg/L)	+/- 10%**	<u>.35</u>	<u>.33</u>	<u>.31</u>	_____	_____	_____	_____
pH	+/- 0.1	<u>7.52</u>	<u>7.52</u>	<u>7.52</u>	_____	_____	_____	_____
ORP (mV)	+/- 10 mV**	<u>-19</u>	<u>-24</u>	<u>-25</u>	_____	_____	_____	_____
Turbidity (NTU)	+/- 10%**	_____	_____	_____	_____	_____	_____	_____
H ₂ S (mg/L)		_____	_____	_____	_____	_____	_____	_____
Fe ²⁺ (mg/L)		_____	_____	_____	_____	_____	_____	_____

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 9:00 (military time)

Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES (NO) explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-132 R	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.00 ft
Depth to product	ft
Depth to water (DTW)	9.56 ft

Sample Types (circle all applicable)

Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.00 ft
Bubbles purged from flow cell?	Y/N
Is drawdown >0.3 feet	Y/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console #	

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.28	14.29	14.30				
Spec. Cond (µmhos)	+/- 3%	1973	1978	1980				
D.O. (mg/L)	+/- 10%**	1.52	1.42	1.30				
pH	+/- 0.1	7.69	7.68	7.68				
ORP (mV)	+/- 10 mV**	49	50	50				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
Sample Date: 5/20/10 Sample Time: 9:30 (military time)
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____
Color of water before filtration: N/A After filtration: N/A
Reaction upon addition of preservatives? YES NO explain: N/A
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 148 R	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	24.45 ft
Depth to product	ft
Depth to water (DTW)	11.23 ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	21.45 ft
Bubbles purged from flow cell?	☒ N
Is drawdown > 0.3 feet	☒ N
Was passive sampling used?	Y ☒
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.25	13.22	13.20				
Spec. Cond (µmhos)	+/- 3%	1.242	1.228	1.227				
D.O. (mg/L)	+/- 10%**	1.64	1.51	1.50				
pH	+/- 0.1	7.72	7.60	7.59				
ORP (mV)	+/- 10 mV**	160	160	159				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 10:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 153	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	20.71 ft
Depth to product	ft
Depth to water (DTW)	12.52 ft

Sample Types (circle all applicable)

☒ Monitoring Well	
☐ Grab/Composite	
☐ Split Sample	
☐ Duplicate (Duplicate ID: _____)	
☒ MS/MSD	
☐ Other _____	

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	17.71 ft
Bubbles purged from flow cell?	☒ Y / ☐ N
Is drawdown >0.3 feet	☒ Y / ☐ N
Was passive sampling used?	☐ Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.76	12.82	12.91				
Spec. Cond (µmhos)	+/- 3%	1.070	1.071	1.069				
D.O. (mg/L)	+/- 10%**	3.38	3.37	3.35				
pH	+/- 0.1	7.86	7.86	7.85				
ORP (mV)	+/- 10 mV**	176	176	176				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 10:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 302	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	37.75 ft
Depth to product	ft
Depth to water (DTW)	13.51 ft

Sample Types (circle all applicable)	
☒ Monitoring Well	
☒ Grab/Composite	
☐ Split Sample	
Duplicate (Duplicate ID: _____)	
☐ MS/MSD	
Other _____	

Conventional sampling	⇐OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) _____ ft		Depth of pump placement (place mid-screen) 34.75 ft
Conversion value (CV)* x _____		Bubbles purged from flow cell? ☒ Y / ☐ N
1 Well volume = H x CV = _____ gal		Is drawdown >0.3 feet ☒ Y / ☐ N
3 Well volumes = _____ gal		Was passive sampling used? ☒ Y / ☐ N
Purge method (B = bailer, P = pump) B / P		Flowrate = 1 gpm mL/min
		ID number from controller console # _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.53	13.54	13.54				
Spec. Cond (µmhos)	+/- 3%	1606	1607	1605				
D.O. (mg/L)	+/- 10%**	1.51	1.33	1.29				
pH	+/- 0.1	8.07	8.06	8.05				
ORP (mV)	+/- 10 mV**	180	179	179				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 11:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>133-R</u>	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>15.90</u> ft
Depth to product	ft
Depth to water (DTW)	<u>9.56</u> ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	ft
Bubbles purged from flow cell?	<u>Y</u> / N
Is drawdown > 0.3 feet	<u>Y</u> / N
Was passive sampling used?	Y / <u>N</u>
Flowrate =	<u>1 gpm</u> mL/min
ID number from controller console	# _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>12.71</u>	<u>12.71</u>	<u>12.70</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1.079</u>	<u>1.081</u>	<u>1.077</u>				
D.O. (mg/L)	+/- 10%**	<u>2.68</u>	<u>2.63</u>	<u>2.60</u>				
pH	+/- 0.1	<u>7.72</u>	<u>7.70</u>	<u>7.69</u>				
ORP (mV)	+/- 10 mV**	<u>238</u>	<u>238</u>	<u>238</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 11:30 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 152	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	15.61 ft
Depth to product	ft
Depth to water (DTW)	13.78 ft

Sample Types (circle all applicable)
Monitoring Well ☒
Grab/Composite ☐
Split Sample ☐
Duplicate (Duplicate ID: _____) ☐
MS/MSD ☐
Other _____ ☐

Conventional sampling	⇐OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) _____ ft		Depth of pump placement (place mid-screen) 15.61 ft
Conversion value (CV)* x _____		Bubbles purged from flow cell? ☒ Y / ☐ N
1 Well volume = H x CV = _____ gal		Is drawdown > 0.3 feet ☒ Y / ☐ N
3 Well volumes = _____ gal		Was passive sampling used? ☐ Y / ☒ N
Purge method (B = bailer, P = pump) B / P _____		Flowrate = 1 gpm mL/min
		ID number from controller console # _____

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.85	14.85	14.87				
Spec. Cond (µmhos)	+/- 3%	549	549	551				
D.O. (mg/L)	+/- 10%**	1.49	1.30	1.30				
pH	+/- 0.1	7.81	7.80	7.79				
ORP (mV)	+/- 10 mV**	229	229	229				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 12:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Utility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-146	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	23.34 ft
Depth to product	ft
Depth to water (DTW)	9.66 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☐ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	20.34 ft
Bubbles purged from flow cell?	☒ Y / ☐ N
Is drawdown > 0.3 feet	☒ Y / ☐ N
Was passive sampling used?	☐ Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.47	13.43	13.40				
Spec. Cond (µmhos)	+/- 3%	1672	1676	1679				
D.O. (mg/L)	+/- 10%**	1.79	1.40	1.39				
pH	+/- 0.1	7.19	7.75	7.73				
ORP (mV)	+/- 10 mV**	243	243	243				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 12:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: ok

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW-10-1R	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	15.65 ft
Depth to product	ft
Depth to water (DTW)	14.68 ft

Sample Types (circle all applicable)
Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling	
Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	15.65 ft
Bubbles purged from flow cell?	Y/N
Is drawdown > 0.3 feet	Y/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.10	12.01	11.99				
Spec. Cond (µmhos)	+/- 3%	768	764	764				
D.O. (mg/L)	+/- 10%**	2.16	2.06	2.00				
pH	+/- 0.1	7.71	7.69	7.67				
ORP (mV)	+/- 10 mV**	245	245	245				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 13:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 150	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.75 ft
Depth to product	ft
Depth to water (DTW)	13.16 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	15.75 ft
Bubbles purged from flow cell?	☒ Y / ☐ N
Is drawdown > 0.3 feet	☒ Y / ☐ N
Was passive sampling used?	☐ Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.47	13.46	13.44	13.42			
Spec. Cond (µmhos)	+/- 3%	1798	1797	1797	1796			
D.O. (mg/L)	+/- 10%**	6.64	3.61	2.25	2.17			
pH	+/- 0.1	7.60	7.62	7.62	7.62			
ORP (mV)	+/- 10 mV**	265	265	264	263			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 13:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- ~~IW-1~~ IW-2	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	14.85 ft
Depth to product	ft
Depth to water (DTW)	13.00 11.27 (S) ft

Sample Types (circle all applicable)	
Monitoring Well	
Grab/Composite	
Split Sample	
Duplicate (Duplicate ID: _____)	
MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	11.85 ft
Bubbles purged from flow cell?	(Y) / N
Is drawdown > 0.3 feet	(Y) / N
Was passive sampling used?	Y / (N)
Flowrate =	19 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Performed								
Temperature (°C)	+/- 3%	13.60	13.36	13.22	13.20			
Spec. Cond (µmhos)	+/- 3%	.690	.691	.693	.693			
D.O. (mg/L)	+/- 10%**	1.87	1.51	1.40	1.31			
pH	+/- 0.1	7.83	7.80	7.78	7.78			
ORP (mV)	+/- 10 mV**	259	259	259	259			
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 14:00 (military time)

Was metals sample filtered prior to preservation? YES (NO) method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES (NO) explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>TW-21</u>	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	ft
Depth to product	ft
Depth to water (DTW)	11.27 ft

Sample Types (circle all applicable)

Monitoring Well
Grab/Composite
Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft	
Conversion value (CV)*	x	
1 Well volume = H x CV	=	gal
3 Well volumes =	=	gal
Purge method (B = bailer, P = pump)		B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	ft	
Bubbles purged from flow cell?		Y/N
Is drawdown > 0.3 feet		Y/N
Was passive sampling used?		Y/N
Flowrate =		1 gpm mL/min
ID number from controller console	#	

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.15	13.12	13.13				
Spec. Cond (µmhos)	+/- 3%	895	898	895				
D.O. (mg/L)	+/- 10%**	.47	.40	.38				
pH	+/- 0.1	7.39	7.38	7.38				
ORP (mV)	+/- 10 mV**	-7	-18	-20				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 15:00 (military time)

Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 163	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	19.37 ft
Depth to product	ft
Depth to water (DTW)	11.00 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	16.37 ft
Bubbles purged from flow cell?	☒ N
Is drawdown > 0.3 feet	☒ N
Was passive sampling used?	Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	14.06	14.16	14.17				
Spec. Cond (µmhos)	+/- 3%	1655	1654	1655				
D.O. (mg/L)	+/- 10%**	1.83	1.71	1.69				
pH	+/- 0.1	7.65	7.64	7.62				
ORP (mV)	+/- 10 mV**	49	47	46				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 15:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 173	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	17.64 ft
Depth to product	ft
Depth to water (DTW)	13.50 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☐ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	14.67 ft
Bubbles purged from flow cell?	☒ Y / ☐ N
Is drawdown > 0.3 feet	☒ Y / ☐ N
Was passive sampling used?	☐ Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.24	13.24	13.23				
Spec. Cond (µmhos)	+/- 3%	1643	1644	1646				
D.O. (mg/L)	+/- 10%**	1.73	1.66	1.61				
pH	+/- 0.1	7.72	7.71	7.70				
ORP (mV)	+/- 10 mV**	136	136	135				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 16:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>156</u>	Well Location:

Monitoring Well Data	
Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>18.44</u> ft
Depth to product	ft
Depth to water (DTW)	<u>12.28</u> ft

Sample Types (circle all applicable)	
☒ Monitoring Well	
☒ Grab/Composite	
☐ Split Sample	
Duplicate (Duplicate ID: _____)	
☐ MS/MSD	
Other _____	

Conventional sampling	
Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling	
Depth of pump placement (place mid-screen)	<u>15.44</u> ft
Bubbles purged from flow cell?	☒ N
Is drawdown >0.3 feet	☒ N
Was passive sampling used?	Y / ☒ N
Flowrate =	<u>1.9 pm</u> mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>12.46</u>	<u>12.43</u>	<u>12.41</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1537</u>	<u>1547</u>	<u>1554</u>				
D.O. (mg/L)	+/- 10%**	<u>2.52</u>	<u>2.35</u>	<u>2.22</u>				
pH	+/- 0.1	<u>7.83</u>	<u>7.81</u>	<u>7.81</u>				
ORP (mV)	+/- 10 mV**	<u>172</u>	<u>172</u>	<u>172</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/20/10 Sample Time: 17:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/20/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Well Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 151	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	18.53 ft
Depth to product	ft
Depth to water (DTW)	1405 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	15.53 ft
Bubbles purged from flow cell?	☒ N
Is drawdown >0.3 feet	☒ N
Was passive sampling used?	Y / ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
<u>Performed</u>	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.13	12.10	12.09				
Spec. Cond (µmhos)	+/- 3%	1609	1611	1614				
D.O. (mg/L)	+/- 10%**	2.30	2.14	2.09				
pH	+/- 0.1	7.75	7.73	7.71				
ORP (mV)	+/- 10 mV**	196	197	197				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons
 Sample Date: 5/21/10 Sample Time: 9:00 (military time)
 Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____
 Color of water before filtration: N/A After filtration: N/A
 Reaction upon addition of preservatives? YES ☒ NO explain: N/A
 Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)
 Well condition: OK

Signature: [Signature] Date: 5/21/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 157	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	17.15 ft
Depth to product	ft
Depth to water (DTW)	12.21 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	14.15 ft
Bubbles purged from flow cell?	☒ N
Is drawdown > 0.3 feet	☒ N
Was passive sampling used?	Y ☒ N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	12.28	12.23	12.20				
Spec. Cond (µmhos)	+/- 3%	804	805	804				
D.O. (mg/L)	+/- 10%**	1.28	1.11	1.00				
pH	+/- 0.1	7.69	7.67	7.65				
ORP (mV)	+/- 10 mV**	213	213	212				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/18 Sample Time: 9:30 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/21/18

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- <u>164</u>	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	<u>24.95</u> ft
Depth to product	ft
Depth to water (DTW)	<u>19.29</u> ft

Sample Types (circle all applicable)

Monitoring Well ☒ Grab/Composite ☐ Split Sample Duplicate (Duplicate ID: _____) MS/MSD Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	21.95 ft
Bubbles purged from flow cell?	☒ N
Is drawdown >0.3 feet	☒ N
Was passive sampling used?	Y / ☒ N
Flowrate =	<u>1 gpm</u> mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	<u>14.53</u>	<u>14.46</u>	<u>14.40</u>				
Spec. Cond (µmhos)	+/- 3%	<u>1657</u>	<u>1653</u>	<u>1654</u>				
D.O. (mg/L)	+/- 10%**	<u>.65</u>	<u>.54</u>	<u>.45</u>				
pH	+/- 0.1	<u>7.73</u>	<u>7.72</u>	<u>7.71</u>				
ORP (mV)	+/- 10 mV**	<u>213</u>	<u>213</u>	<u>213</u>				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/10 Sample Time: 10:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO explain: N/A

Appearance of Water: (Clear Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/21/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

Property Name: GP - Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 160	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	13.65 ft
Depth to product	ft
Depth to water (DTW)	4.00 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
☐ MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD - DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	10.65 ft
Bubbles purged from flow cell?	8/N
Is drawdown > 0.3 feet	8/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	13.05	12.41	12.90	12.80	12.79		
Spec. Cond (µmhos)	+/- 3%	1.444	1.446	1.446	1.480	1.452		
D.O. (mg/L)	+/- 10%**	2.03	1.62	1.40	1.38	1.35		
pH	+/- 0.1	7.81	7.76	7.76	7.74	7.73		
ORP (mV)	+/- 10 mV**	128	127	128	128	124		
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/10 Sample Time: 10:30 (military time)

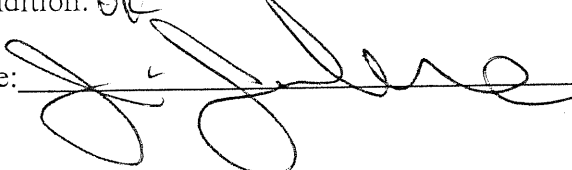
Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature:  Date: 5/21/10

KERAMIDA ENVIRONMENTAL, INC.
GROUNDWATER SAMPLE INFORMATION SHEET

ility Name: GP – Former Allison Plant 10	KEI Project #: 2829E
Sample I.D.: MW- 161	Well Location:

Monitoring Well Data

Well Material	(PVC/SS/Teflon)
Inside Diameter, in.	(3/4 1 2 4 6)
Stick up or stick down height	ft
Total depth of well (TD)	14.00 ft
Depth to product	ft
Depth to water (DTW)	5.35 ft

Sample Types (circle all applicable)

☒ Monitoring Well
☒ Grab/Composite
☐ Split Sample
Duplicate (Duplicate ID: _____)
MS/MSD
Other _____

Conventional sampling

Height of water column (H = TD – DTW)	ft
Conversion value (CV)*	x
1 Well volume = H x CV	= gal
3 Well volumes =	= gal
Purge method (B = bailer, P = pump)	B / P

⇐OR⇒

Micropurge sampling

Depth of pump placement (place mid-screen)	11.00 ft
Bubbles purged from flow cell?	8/N
Is drawdown >0.3 feet	0/N
Was passive sampling used?	Y/N
Flowrate =	1 gpm mL/min
ID number from controller console	#

*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47

Field Test(s)	Stability	Result	Result	Result	Result	Result	Result	Result
Performed	Range	(3 min)	(6 min)	(9 min)	(12 min)	(15 min)	(18 min)	(21 min)
Temperature (°C)	+/- 3%	10.60	10.59	10.53				
Spec. Cond (µmhos)	+/- 3%	557	547	551				
D.O. (mg/L)	+/- 10%**	2.80	2.77	2.78				
pH	+/- 0.1	7.41	7.39	7.39				
ORP (mV)	+/- 10 mV**	143	142	143				
Turbidity (NTU)	+/- 10%**							
H ₂ S (mg/L)								
Fe ²⁺ (mg/L)								

Check stability after three readings and every reading thereafter until achieved.

**Only one of these parameters must reach stability.

Observations:

Volume of water purged from well: N/A gallons

Sample Date: 5/21/10 Sample Time: 11:00 (military time)

Was metals sample filtered prior to preservation? YES ☒ NO ☐ method: 0.45 µm cartridge / other: _____

Color of water before filtration: N/A After filtration: N/A

Reaction upon addition of preservatives? YES ☒ NO ☐ explain: N/A

Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)

Well condition: OK

Signature: [Signature] Date: 5/21/10

**REMEDIATION SYSTEM EVALUATION REPORT
APRIL THROUGH JUNE 2010
FORMER GENERAL MOTORS CORPORATION
ALLISON GAS TURBINE DIVISION, PLANT 10
700 NORTH OLIN AVENUE
INDIANAPOLIS, INDIANA
IDEM VRP #6991004
KERAMIDA PROJECT NO. 2829E**

**ATTACHMENT 6
May 2010 - Groundwater Analytical Report**

June 03, 2010

Mr. Rob Fedorchak
Keramida Environmental
401 North College Avenue
Indianapolis, IN 46202

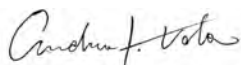
RE: Project: Genuine Parts/2829E-2010 O@M
Pace Project No.: 5037756

Dear Mr. Fedorchak:

Enclosed are the analytical results for sample(s) received by the laboratory on May 21, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Andrew Votaw

andrew.votaw@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 1 of 513



CERTIFICATIONS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Indiana Certification IDs

Illinois/NELAC Certification #: 100418

Indiana Certification #: C-49-06

Kansas Certification #: E-10247

Kentucky Certification #: 0042

Ohio VAP: CL0065

Pennsylvania: 68-00791

West Virginia Certification #: 330

7726 Moller Road Indianapolis, IN 46268

Kansas Certification IDs

A2LA Certification #: 2456.01

Arkansas Certification #: 05-008-0

Illinois Certification #: 001191

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Oregon Certification #: KS200001

Texas Certification #: T104704407-08-TX

Utah Certification #: 9135995665

9608 Loiret Boulevard Lenexa, KS 66219

REPORT OF LABORATORY ANALYSIS

Page 2 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 2 of 513



SAMPLE SUMMARY

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5037756001	MW-169D	Water	05/19/10 10:30	05/21/10 11:35
5037756002	MW-169S	Water	05/19/10 11:00	05/21/10 11:35
5037756003	167-D	Water	05/19/10 11:30	05/21/10 11:35
5037756004	Dup-01	Water	05/19/10 08:00	05/21/10 11:35
5037756005	MW-167-S	Water	05/19/10 12:00	05/21/10 11:35
5037756006	MW-165-S	Water	05/19/10 13:30	05/21/10 11:35
5037756007	MW-165-D	Water	05/19/10 13:00	05/21/10 11:35
5037756008	MW-166-D	Water	05/19/10 14:00	05/21/10 11:35
5037756009	MW-166-S	Water	05/19/10 14:30	05/21/10 11:35
5037756010	MW-132-R	Water	05/20/10 09:30	05/21/10 11:35
5037756011	MW-148-R	Water	05/20/10 10:00	05/21/10 11:35
5037756012	MW-153	Water	05/20/10 10:30	05/21/10 11:35
5037756013	MW-302	Water	05/20/10 11:00	05/21/10 11:35
5037756014	MW-152	Water	05/20/10 12:00	05/21/10 11:35
5037756015	MW-146	Water	05/20/10 12:30	05/21/10 11:35
5037756016	MW-10-1R	Water	05/20/10 13:00	05/21/10 11:35
5037756017	MW-150	Water	05/20/10 13:30	05/21/10 11:35
5037756018	MW-156	Water	05/20/10 17:00	05/21/10 11:35
5037756019	MW-151	Water	05/21/10 09:00	05/21/10 11:35
5037756020	MW-157	Water	05/21/10 09:30	05/21/10 11:35
5037756021	MW-164	Water	05/21/10 10:00	05/21/10 11:35
5037756022	MW-160	Water	05/21/10 10:30	05/21/10 11:35
5037756023	MW-161	Water	05/21/10 11:00	05/21/10 11:35
5037756024	Eq Blank	Water	05/19/10 15:00	05/21/10 11:35
5037756025	Eq Blank	Water	05/20/10 17:30	05/21/10 11:35
5037756026	Eq Blank	Water	05/21/10 11:30	05/21/10 11:35
5037756027	Trip Blank	Water	05/19/10 08:00	05/21/10 11:35

REPORT OF LABORATORY ANALYSIS

Page 3 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 3 of 513



SAMPLE ANALYTE COUNT

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5037756001	MW-169D	EPA 8260	JLF	74	PASI-I
5037756002	MW-169S	EPA 8260	JLF	74	PASI-I
5037756003	167-D	EPA 8260	JLF	74	PASI-I
5037756004	Dup-01	EPA 8260	JLF	74	PASI-I
5037756005	MW-167-S	EPA 8260	JLF	74	PASI-I
5037756006	MW-165-S	EPA 8260	JLF	74	PASI-I
5037756007	MW-165-D	EPA 8260	JLF	74	PASI-I
5037756008	MW-166-D	EPA 8260	JLF	74	PASI-I
5037756009	MW-166-S	EPA 8260	JLF	74	PASI-I
5037756010	MW-132-R	EPA 8260	JLF	74	PASI-I
5037756011	MW-148-R	EPA 8260	JLF	74	PASI-I
5037756012	MW-153	EPA 8260	JLF	74	PASI-I
5037756013	MW-302	EPA 8260	JLF	74	PASI-I
5037756014	MW-152	EPA 8260	JLF	74	PASI-I
5037756015	MW-146	EPA 8260	JLF	74	PASI-I
5037756016	MW-10-1R	EPA 8260	JLF	74	PASI-I
5037756017	MW-150	EPA 8260	JLF	74	PASI-I
5037756018	MW-156	EPA 8260	JLF	74	PASI-I
		SM 5310C	JML	1	PASI-K
5037756019	MW-151	EPA 8260	JLF	74	PASI-I
		SM 5310C	JML	1	PASI-K
5037756020	MW-157	EPA 8260	JLF	74	PASI-I
5037756021	MW-164	EPA 8260	JLF	74	PASI-I
5037756022	MW-160	EPA 8260	JLF	74	PASI-I
5037756023	MW-161	EPA 8260	JLF	74	PASI-I
5037756024	Eq Blank	EPA 8260	JLF	74	PASI-I
5037756025	Eq Blank	EPA 8260	JLF	74	PASI-I
5037756026	Eq Blank	EPA 8260	JLF	74	PASI-I
5037756027	Trip Blank	EPA 8260	JLF	74	PASI-I

REPORT OF LABORATORY ANALYSIS

Page 4 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 4 of 513

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-169D		Lab ID: 5037756001	Collected: 05/19/10 10:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 18:02	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 18:02	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 18:02	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 18:02	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 18:02	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 18:02	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 18:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 18:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 18:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 18:02	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 18:02	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 18:02	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 18:02	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 18:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 18:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 18:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 18:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 18:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 18:02	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 18:02	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 18:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 18:02	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 18:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 18:02	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 18:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 18:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 18:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 18:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 18:02	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 18:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 18:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 18:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 18:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 18:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 18:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 18:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 18:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 18:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 18:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 18:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 18:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 18:02	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 18:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 18:02	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 18:02	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 18:02	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 18:02	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 5 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-169D		Lab ID: 5037756001	Collected: 05/19/10 10:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/26/10 18:02	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/26/10 18:02	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/26/10 18:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/26/10 18:02	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/26/10 18:02	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/26/10 18:02	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/26/10 18:02	103-65-1	
Styrene	ND ug/L		5.0	1		05/26/10 18:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 18:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 18:02	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/26/10 18:02	127-18-4	
Toluene	ND ug/L		5.0	1		05/26/10 18:02	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 18:02	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 18:02	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/26/10 18:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/26/10 18:02	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/26/10 18:02	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/26/10 18:02	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/26/10 18:02	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 18:02	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 18:02	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/26/10 18:02	108-05-4	
Vinyl chloride	9.4 ug/L		2.0	1		05/26/10 18:02	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/26/10 18:02	1330-20-7	
Dibromofluoromethane (S)	104 %		80-123	1		05/26/10 18:02	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	1		05/26/10 18:02	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		05/26/10 18:02	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-169S		Lab ID: 5037756002	Collected: 05/19/10 11:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 18:37	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 18:37	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 18:37	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 18:37	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 18:37	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 18:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 18:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 18:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 18:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 18:37	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 18:37	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 18:37	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 18:37	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 18:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 18:37	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 18:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 18:37	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 18:37	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 18:37	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 18:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 18:37	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 18:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 18:37	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 18:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 18:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 18:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 18:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 18:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 18:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 18:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 18:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 18:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 18:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 18:37	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 18:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 18:37	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 18:37	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 18:37	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 18:37	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 7 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-169S		Lab ID: 5037756002	Collected: 05/19/10 11:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/26/10 18:37	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/26/10 18:37	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/26/10 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/26/10 18:37	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/26/10 18:37	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/26/10 18:37	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/26/10 18:37	103-65-1	
Styrene	ND ug/L		5.0	1		05/26/10 18:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 18:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 18:37	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/26/10 18:37	127-18-4	
Toluene	ND ug/L		5.0	1		05/26/10 18:37	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 18:37	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 18:37	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/26/10 18:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/26/10 18:37	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/26/10 18:37	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/26/10 18:37	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/26/10 18:37	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 18:37	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 18:37	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/26/10 18:37	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/26/10 18:37	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/26/10 18:37	1330-20-7	
Dibromofluoromethane (S)	104 %		80-123	1		05/26/10 18:37	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		05/26/10 18:37	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		05/26/10 18:37	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: 167-D		Lab ID: 5037756003	Collected: 05/19/10 11:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 14:35	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 14:35	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 14:35	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 14:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 14:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 14:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 14:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 14:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 14:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 14:35	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 14:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 14:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 14:35	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 14:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 14:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 14:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 14:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 14:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 14:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 14:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 14:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 14:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 14:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 14:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 14:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 14:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 14:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 14:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 14:35	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 14:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 14:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 14:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 14:35	75-35-4	
cis-1,2-Dichloroethene	644	ug/L	50.0	10		05/27/10 16:03	156-59-2	
trans-1,2-Dichloroethene	24.2	ug/L	5.0	1		05/26/10 14:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 14:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 14:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 14:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 14:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 14:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 14:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 14:35	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 14:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 14:35	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 14:35	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 14:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 14:35	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 9 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 9 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: 167-D		Lab ID: 5037756003	Collected: 05/19/10 11:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/26/10 14:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/26/10 14:35	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/26/10 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/26/10 14:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/26/10 14:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/26/10 14:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/26/10 14:35	103-65-1	
Styrene	ND	ug/L	5.0	1		05/26/10 14:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 14:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 14:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/26/10 14:35	127-18-4	
Toluene	ND	ug/L	5.0	1		05/26/10 14:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 14:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 14:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/26/10 14:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/26/10 14:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/26/10 14:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/26/10 14:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/26/10 14:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 14:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 14:35	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/26/10 14:35	108-05-4	
Vinyl chloride	24.5	ug/L	2.0	1		05/26/10 14:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/26/10 14:35	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		05/26/10 14:35	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		05/26/10 14:35	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		05/26/10 14:35	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Dup-01		Lab ID: 5037756004	Collected: 05/19/10 08:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 19:11	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 19:11	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 19:11	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 19:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 19:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 19:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 19:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 19:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 19:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 19:11	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 19:11	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 19:11	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 19:11	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 19:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 19:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 19:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 19:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 19:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 19:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 19:11	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 19:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 19:11	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 19:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 19:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 19:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 19:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 19:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 19:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 19:11	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 19:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 19:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 19:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 19:11	75-35-4	
cis-1,2-Dichloroethene	532	ug/L	25.0	5		05/27/10 17:11	156-59-2	
trans-1,2-Dichloroethene	24.9	ug/L	5.0	1		05/26/10 19:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 19:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 19:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 19:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 19:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 19:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 19:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 19:11	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 19:11	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 19:11	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 19:11	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 19:11	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 19:11	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 11 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 11 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Dup-01		Lab ID: 5037756004	Collected: 05/19/10 08:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/26/10 19:11	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/26/10 19:11	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/26/10 19:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/26/10 19:11	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/26/10 19:11	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/26/10 19:11	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/26/10 19:11	103-65-1	
Styrene	ND ug/L		5.0	1		05/26/10 19:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 19:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 19:11	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/26/10 19:11	127-18-4	
Toluene	ND ug/L		5.0	1		05/26/10 19:11	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 19:11	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 19:11	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/26/10 19:11	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/26/10 19:11	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/26/10 19:11	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/26/10 19:11	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/26/10 19:11	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 19:11	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 19:11	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/26/10 19:11	108-05-4	
Vinyl chloride	24.9 ug/L		2.0	1		05/26/10 19:11	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/26/10 19:11	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		05/26/10 19:11	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	1		05/26/10 19:11	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		05/26/10 19:11	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-167-S		Lab ID: 5037756005	Collected: 05/19/10 12:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		05/26/10 19:46	67-64-1	
Acrolein	ND ug/L		50.0	1		05/26/10 19:46	107-02-8	
Acrylonitrile	ND ug/L		100	1		05/26/10 19:46	107-13-1	
Benzene	ND ug/L		5.0	1		05/26/10 19:46	71-43-2	
Bromobenzene	ND ug/L		5.0	1		05/26/10 19:46	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		05/26/10 19:46	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		05/26/10 19:46	75-27-4	
Bromoform	ND ug/L		5.0	1		05/26/10 19:46	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/26/10 19:46	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		05/26/10 19:46	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		05/26/10 19:46	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		05/26/10 19:46	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		05/26/10 19:46	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		05/26/10 19:46	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		05/26/10 19:46	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		05/26/10 19:46	108-90-7	
Chloroethane	ND ug/L		5.0	1		05/26/10 19:46	75-00-3	
Chloroform	ND ug/L		5.0	1		05/26/10 19:46	67-66-3	
Chloromethane	ND ug/L		5.0	1		05/26/10 19:46	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		05/26/10 19:46	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		05/26/10 19:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		05/26/10 19:46	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		05/26/10 19:46	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		05/26/10 19:46	106-93-4	
Dibromomethane	ND ug/L		5.0	1		05/26/10 19:46	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		05/26/10 19:46	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		05/26/10 19:46	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		05/26/10 19:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		05/26/10 19:46	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		05/26/10 19:46	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		05/26/10 19:46	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		05/26/10 19:46	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		05/26/10 19:46	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		05/27/10 17:46	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		05/26/10 19:46	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		05/26/10 19:46	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		05/26/10 19:46	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		05/26/10 19:46	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		05/26/10 19:46	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		05/26/10 19:46	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		05/26/10 19:46	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		05/26/10 19:46	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		05/26/10 19:46	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/26/10 19:46	87-68-3	
n-Hexane	ND ug/L		5.0	1		05/26/10 19:46	110-54-3	
2-Hexanone	ND ug/L		25.0	1		05/26/10 19:46	591-78-6	
Iodomethane	ND ug/L		10.0	1		05/26/10 19:46	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 13 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 13 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-167-S		Lab ID: 5037756005	Collected: 05/19/10 12:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/26/10 19:46	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/26/10 19:46	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/26/10 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/26/10 19:46	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/26/10 19:46	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/26/10 19:46	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/26/10 19:46	103-65-1	
Styrene	ND ug/L		5.0	1		05/26/10 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 19:46	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/26/10 19:46	127-18-4	
Toluene	ND ug/L		5.0	1		05/26/10 19:46	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 19:46	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 19:46	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/26/10 19:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/26/10 19:46	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/26/10 19:46	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/26/10 19:46	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/26/10 19:46	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 19:46	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 19:46	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/26/10 19:46	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/26/10 19:46	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/26/10 19:46	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		05/26/10 19:46	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/26/10 19:46	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		05/26/10 19:46	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-165-S		Lab ID: 5037756006	Collected: 05/19/10 13:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 20:20	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 20:20	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 20:20	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 20:20	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 20:20	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 20:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 20:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 20:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 20:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 20:20	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 20:20	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 20:20	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 20:20	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 20:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 20:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 20:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 20:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 20:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 20:20	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 20:20	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 20:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 20:20	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 20:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 20:20	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 20:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 20:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 20:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 20:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 20:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 20:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 20:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 20:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 20:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 20:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 20:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 20:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 20:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 20:20	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 20:20	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 20:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 20:20	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 15 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 15 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-165-S		Lab ID: 5037756006	Collected: 05/19/10 13:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/26/10 20:20	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/26/10 20:20	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/26/10 20:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/26/10 20:20	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/26/10 20:20	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/26/10 20:20	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/26/10 20:20	103-65-1	
Styrene	ND ug/L		5.0	1		05/26/10 20:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 20:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 20:20	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/26/10 20:20	127-18-4	
Toluene	ND ug/L		5.0	1		05/26/10 20:20	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 20:20	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 20:20	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/26/10 20:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/26/10 20:20	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/26/10 20:20	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/26/10 20:20	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/26/10 20:20	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 20:20	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 20:20	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/26/10 20:20	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/26/10 20:20	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/26/10 20:20	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		05/26/10 20:20	1868-53-7	
4-Bromofluorobenzene (S)	106 %		70-126	1		05/26/10 20:20	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		05/26/10 20:20	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-165-D		Lab ID: 5037756007	Collected: 05/19/10 13:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 20:55	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 20:55	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 20:55	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 20:55	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 20:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 20:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 20:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 20:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 20:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 20:55	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 20:55	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 20:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 20:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 20:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 20:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 20:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 20:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 20:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 20:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 20:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 20:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 20:55	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 20:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 20:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 20:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 20:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 20:55	75-71-8	HS
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 20:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 20:55	75-35-4	
cis-1,2-Dichloroethene	161	ug/L	5.0	1		05/26/10 20:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 20:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 20:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 20:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 20:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 20:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 20:55	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 20:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 20:55	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 20:55	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 20:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 20:55	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 17 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 17 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-165-D		Lab ID: 5037756007	Collected: 05/19/10 13:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/26/10 20:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/26/10 20:55	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/26/10 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/26/10 20:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/26/10 20:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/26/10 20:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/26/10 20:55	103-65-1	
Styrene	ND	ug/L	5.0	1		05/26/10 20:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 20:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 20:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/26/10 20:55	127-18-4	
Toluene	ND	ug/L	5.0	1		05/26/10 20:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 20:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/26/10 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/26/10 20:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/26/10 20:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/26/10 20:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/26/10 20:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 20:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 20:55	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/26/10 20:55	108-05-4	
Vinyl chloride	164	ug/L	2.0	1		05/26/10 20:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/26/10 20:55	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		05/26/10 20:55	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		05/26/10 20:55	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		05/26/10 20:55	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-166-D		Lab ID: 5037756008	Collected: 05/19/10 14:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 15:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 15:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 15:10	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 15:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 15:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 15:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 15:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 15:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 15:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 15:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 15:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 15:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 15:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 15:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 15:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 15:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 15:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 15:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 15:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 15:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 15:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 15:10	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 15:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 15:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 15:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 15:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 15:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 15:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 15:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 15:10	75-35-4	
cis-1,2-Dichloroethene	835	ug/L	50.0	10		05/27/10 16:37	156-59-2	
trans-1,2-Dichloroethene	5.5	ug/L	5.0	1		05/26/10 15:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 15:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 15:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 15:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 15:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 15:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 15:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 15:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 15:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 15:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 15:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 15:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 15:10	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 19 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 19 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-166-D		Lab ID: 5037756008	Collected: 05/19/10 14:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/26/10 15:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/26/10 15:10	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/26/10 15:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/26/10 15:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/26/10 15:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/26/10 15:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/26/10 15:10	103-65-1	
Styrene	ND	ug/L	5.0	1		05/26/10 15:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 15:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 15:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/26/10 15:10	127-18-4	
Toluene	ND	ug/L	5.0	1		05/26/10 15:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/26/10 15:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/26/10 15:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/26/10 15:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/26/10 15:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/26/10 15:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 15:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 15:10	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/26/10 15:10	108-05-4	
Vinyl chloride	235	ug/L	2.0	1		05/26/10 15:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/26/10 15:10	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		05/26/10 15:10	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		05/26/10 15:10	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		05/26/10 15:10	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-166-S		Lab ID: 5037756009	Collected: 05/19/10 14:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 21:29	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 21:29	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 21:29	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 21:29	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 21:29	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 21:29	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 21:29	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 21:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 21:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 21:29	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 21:29	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 21:29	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 21:29	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 21:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 21:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 21:29	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 21:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 21:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 21:29	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 21:29	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 21:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 21:29	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 21:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 21:29	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 21:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 21:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 21:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 21:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 21:29	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 21:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 21:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 21:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 21:29	75-35-4	
cis-1,2-Dichloroethene	145	ug/L	5.0	1		05/26/10 21:29	156-59-2	
trans-1,2-Dichloroethene	6.1	ug/L	5.0	1		05/26/10 21:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 21:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 21:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 21:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 21:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 21:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 21:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 21:29	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 21:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 21:29	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 21:29	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 21:29	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 21:29	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 21 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 21 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-166-S		Lab ID: 5037756009	Collected: 05/19/10 14:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/26/10 21:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/26/10 21:29	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/26/10 21:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/26/10 21:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/26/10 21:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/26/10 21:29	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/26/10 21:29	103-65-1	
Styrene	ND	ug/L	5.0	1		05/26/10 21:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 21:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 21:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/26/10 21:29	127-18-4	
Toluene	ND	ug/L	5.0	1		05/26/10 21:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 21:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 21:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/26/10 21:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/26/10 21:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/26/10 21:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/26/10 21:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/26/10 21:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 21:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 21:29	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/26/10 21:29	108-05-4	
Vinyl chloride	6.6	ug/L	2.0	1		05/26/10 21:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/26/10 21:29	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		05/26/10 21:29	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		05/26/10 21:29	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		05/26/10 21:29	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-132-R		Lab ID: 5037756010		Collected: 05/20/10 09:30		Received: 05/21/10 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/26/10 22:03	67-64-1		
Acrolein	ND	ug/L	50.0	1		05/26/10 22:03	107-02-8		
Acrylonitrile	ND	ug/L	100	1		05/26/10 22:03	107-13-1		
Benzene	ND	ug/L	5.0	1		05/26/10 22:03	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		05/26/10 22:03	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 22:03	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 22:03	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/26/10 22:03	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/26/10 22:03	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 22:03	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 22:03	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 22:03	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 22:03	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 22:03	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 22:03	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 22:03	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/26/10 22:03	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/26/10 22:03	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/26/10 22:03	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 22:03	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 22:03	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 22:03	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 22:03	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 22:03	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		05/26/10 22:03	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:03	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:03	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:03	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 22:03	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 22:03	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 22:03	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 22:03	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 22:03	75-35-4		
cis-1,2-Dichloroethene	16.9	ug/L	5.0	1		05/26/10 22:03	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 22:03	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 22:03	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 22:03	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 22:03	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 22:03	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 22:03	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 22:03	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 22:03	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 22:03	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 22:03	87-68-3		
n-Hexane	ND	ug/L	5.0	1		05/26/10 22:03	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		05/26/10 22:03	591-78-6		
Iodomethane	ND	ug/L	10.0	1		05/26/10 22:03	74-88-4		

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 23 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 23 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-132-R		Lab ID: 5037756010	Collected: 05/20/10 09:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/26/10 22:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/26/10 22:03	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/26/10 22:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/26/10 22:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/26/10 22:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/26/10 22:03	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/26/10 22:03	103-65-1	
Styrene	ND	ug/L	5.0	1		05/26/10 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 22:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 22:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/26/10 22:03	127-18-4	
Toluene	ND	ug/L	5.0	1		05/26/10 22:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/26/10 22:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/26/10 22:03	79-00-5	
Trichloroethene	94.2	ug/L	5.0	1		05/26/10 22:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/26/10 22:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/26/10 22:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 22:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 22:03	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/26/10 22:03	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/26/10 22:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/26/10 22:03	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		05/26/10 22:03	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		05/26/10 22:03	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		05/26/10 22:03	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-148-R		Lab ID: 5037756011		Collected: 05/20/10 10:00		Received: 05/21/10 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/26/10 15:44	67-64-1		
Acrolein	ND	ug/L	50.0	1		05/26/10 15:44	107-02-8		
Acrylonitrile	ND	ug/L	100	1		05/26/10 15:44	107-13-1		
Benzene	ND	ug/L	5.0	1		05/26/10 15:44	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		05/26/10 15:44	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 15:44	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 15:44	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/26/10 15:44	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/26/10 15:44	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 15:44	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 15:44	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 15:44	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 15:44	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 15:44	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 15:44	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 15:44	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/26/10 15:44	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/26/10 15:44	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/26/10 15:44	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 15:44	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 15:44	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 15:44	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 15:44	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 15:44	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		05/26/10 15:44	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:44	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:44	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:44	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 15:44	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 15:44	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 15:44	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 15:44	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 15:44	75-35-4		
cis-1,2-Dichloroethene	295	ug/L	5.0	1		05/26/10 15:44	156-59-2		
trans-1,2-Dichloroethene	29.3	ug/L	5.0	1		05/26/10 15:44	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 15:44	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 15:44	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 15:44	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 15:44	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 15:44	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 15:44	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 15:44	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 15:44	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 15:44	87-68-3		
n-Hexane	ND	ug/L	5.0	1		05/26/10 15:44	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		05/26/10 15:44	591-78-6		
Iodomethane	ND	ug/L	10.0	1		05/26/10 15:44	74-88-4		

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 25 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 25 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-148-R		Lab ID: 5037756011	Collected: 05/20/10 10:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/26/10 15:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/26/10 15:44	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/26/10 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/26/10 15:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/26/10 15:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/26/10 15:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/26/10 15:44	103-65-1	
Styrene	ND	ug/L	5.0	1		05/26/10 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 15:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/26/10 15:44	127-18-4	
Toluene	ND	ug/L	5.0	1		05/26/10 15:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 15:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/26/10 15:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/26/10 15:44	79-00-5	
Trichloroethene	100	ug/L	5.0	1		05/26/10 15:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/26/10 15:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/26/10 15:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 15:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 15:44	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/26/10 15:44	108-05-4	
Vinyl chloride	19.3	ug/L	2.0	1		05/26/10 15:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/26/10 15:44	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		05/26/10 15:44	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		05/26/10 15:44	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		05/26/10 15:44	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-153		Lab ID: 5037756012	Collected: 05/20/10 10:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/27/10 01:28	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/27/10 01:28	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/27/10 01:28	107-13-1	
Benzene	ND	ug/L	5.0	1		05/27/10 01:28	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/27/10 01:28	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 01:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 01:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/27/10 01:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/10 01:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 01:28	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 01:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 01:28	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 01:28	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 01:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 01:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 01:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/27/10 01:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/27/10 01:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/27/10 01:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 01:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 01:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 01:28	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 01:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 01:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/27/10 01:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 01:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 01:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 01:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 01:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 01:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 01:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 01:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 01:28	75-35-4	
cis-1,2-Dichloroethene	8.3	ug/L	5.0	1		05/27/10 01:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 01:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 01:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 01:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 01:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 01:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 01:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 01:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 01:28	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 01:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 01:28	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/27/10 01:28	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/27/10 01:28	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/27/10 01:28	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 27 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 27 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-153		Lab ID: 5037756012	Collected: 05/20/10 10:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 01:28	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 01:28	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 01:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 01:28	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 01:28	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 01:28	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 01:28	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 01:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 01:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 01:28	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 01:28	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 01:28	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 01:28	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 01:28	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 01:28	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 01:28	79-00-5	
Trichloroethene	112 ug/L		5.0	1		05/27/10 01:28	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 01:28	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 01:28	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 01:28	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 01:28	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 01:28	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 01:28	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 01:28	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		05/27/10 01:28	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	1		05/27/10 01:28	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		05/27/10 01:28	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-302		Lab ID: 5037756013		Collected: 05/20/10 11:00		Received: 05/21/10 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/26/10 22:38	67-64-1		
Acrolein	ND	ug/L	50.0	1		05/26/10 22:38	107-02-8		
Acrylonitrile	ND	ug/L	100	1		05/26/10 22:38	107-13-1		
Benzene	ND	ug/L	5.0	1		05/26/10 22:38	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		05/26/10 22:38	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 22:38	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 22:38	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/26/10 22:38	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/26/10 22:38	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 22:38	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 22:38	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 22:38	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 22:38	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 22:38	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 22:38	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 22:38	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/26/10 22:38	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/26/10 22:38	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/26/10 22:38	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 22:38	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 22:38	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 22:38	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 22:38	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 22:38	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		05/26/10 22:38	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:38	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:38	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 22:38	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 22:38	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 22:38	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 22:38	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 22:38	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 22:38	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 22:38	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/26/10 22:38	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 22:38	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 22:38	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 22:38	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 22:38	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 22:38	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 22:38	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 22:38	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 22:38	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 22:38	87-68-3		
n-Hexane	ND	ug/L	5.0	1		05/26/10 22:38	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		05/26/10 22:38	591-78-6		
Iodomethane	ND	ug/L	10.0	1		05/26/10 22:38	74-88-4		

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 29 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 29 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-302		Lab ID: 5037756013	Collected: 05/20/10 11:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/26/10 22:38	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/26/10 22:38	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/26/10 22:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/26/10 22:38	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/26/10 22:38	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/26/10 22:38	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/26/10 22:38	103-65-1	
Styrene	ND ug/L		5.0	1		05/26/10 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 22:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/26/10 22:38	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/26/10 22:38	127-18-4	
Toluene	ND ug/L		5.0	1		05/26/10 22:38	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 22:38	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/26/10 22:38	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/26/10 22:38	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/26/10 22:38	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/26/10 22:38	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/26/10 22:38	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/26/10 22:38	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 22:38	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/26/10 22:38	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/26/10 22:38	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/26/10 22:38	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/26/10 22:38	1330-20-7	
Dibromofluoromethane (S)	104 %		80-123	1		05/26/10 22:38	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/26/10 22:38	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		05/26/10 22:38	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-152		Lab ID: 5037756014		Collected: 05/20/10 12:00		Received: 05/21/10 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/27/10 09:59	67-64-1		
Acrolein	ND	ug/L	50.0	1		05/27/10 09:59	107-02-8		
Acrylonitrile	ND	ug/L	100	1		05/27/10 09:59	107-13-1		
Benzene	ND	ug/L	5.0	1		05/27/10 09:59	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		05/27/10 09:59	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 09:59	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 09:59	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/27/10 09:59	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/27/10 09:59	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 09:59	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 09:59	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 09:59	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 09:59	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 09:59	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 09:59	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 09:59	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/27/10 09:59	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/27/10 09:59	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/27/10 09:59	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 09:59	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 09:59	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 09:59	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 09:59	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 09:59	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		05/27/10 09:59	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:59	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:59	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:59	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 09:59	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 09:59	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 09:59	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 09:59	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 09:59	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 09:59	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 09:59	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 09:59	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 09:59	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 09:59	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 09:59	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 09:59	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 09:59	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 09:59	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 09:59	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 09:59	87-68-3		
n-Hexane	ND	ug/L	5.0	1		05/27/10 09:59	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		05/27/10 09:59	591-78-6		
Iodomethane	ND	ug/L	10.0	1		05/27/10 09:59	74-88-4		

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 31 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 31 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-152		Lab ID: 5037756014	Collected: 05/20/10 12:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/27/10 09:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/27/10 09:59	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/27/10 09:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/27/10 09:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/27/10 09:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/27/10 09:59	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/27/10 09:59	103-65-1	
Styrene	ND	ug/L	5.0	1		05/27/10 09:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 09:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 09:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/27/10 09:59	127-18-4	
Toluene	ND	ug/L	5.0	1		05/27/10 09:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/27/10 09:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/27/10 09:59	79-00-5	
Trichloroethene	57.9	ug/L	5.0	1		05/27/10 09:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/27/10 09:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/27/10 09:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 09:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 09:59	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/27/10 09:59	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/27/10 09:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/27/10 09:59	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		05/27/10 09:59	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		05/27/10 09:59	460-00-4	
Toluene-d8 (S)	104	%	80-116	1		05/27/10 09:59	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-146		Lab ID: 5037756015	Collected: 05/20/10 12:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/27/10 03:11	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/27/10 03:11	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/27/10 03:11	107-13-1	
Benzene	ND	ug/L	5.0	1		05/27/10 03:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/27/10 03:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 03:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 03:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/27/10 03:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/10 03:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 03:11	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 03:11	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 03:11	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 03:11	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 03:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 03:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 03:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/27/10 03:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/27/10 03:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/27/10 03:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 03:11	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 03:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 03:11	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 03:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 03:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/27/10 03:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 03:11	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 03:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 03:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 03:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 03:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 03:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 03:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 03:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 03:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 03:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 03:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 03:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 03:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 03:11	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 03:11	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 03:11	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/27/10 03:11	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/27/10 03:11	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/27/10 03:11	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 33 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 33 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-146		Lab ID: 5037756015	Collected: 05/20/10 12:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/27/10 03:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/27/10 03:11	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/27/10 03:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/27/10 03:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/27/10 03:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/27/10 03:11	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/27/10 03:11	103-65-1	
Styrene	ND	ug/L	5.0	1		05/27/10 03:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 03:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 03:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/27/10 03:11	127-18-4	
Toluene	ND	ug/L	5.0	1		05/27/10 03:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/27/10 03:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/27/10 03:11	79-00-5	
Trichloroethene	37.4	ug/L	5.0	1		05/27/10 03:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/27/10 03:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/27/10 03:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 03:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 03:11	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/27/10 03:11	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/27/10 03:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/27/10 03:11	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		05/27/10 03:11	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		05/27/10 03:11	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		05/27/10 03:11	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-10-1R		Lab ID: 5037756016	Collected: 05/20/10 13:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/26/10 16:19	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/26/10 16:19	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/26/10 16:19	107-13-1	
Benzene	ND	ug/L	5.0	1		05/26/10 16:19	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/26/10 16:19	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/26/10 16:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/26/10 16:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/26/10 16:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/26/10 16:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/26/10 16:19	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/26/10 16:19	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/26/10 16:19	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/26/10 16:19	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/26/10 16:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/26/10 16:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/26/10 16:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/26/10 16:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/10 16:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/26/10 16:19	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 16:19	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/26/10 16:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/10 16:19	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/26/10 16:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/26/10 16:19	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/26/10 16:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 16:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 16:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/26/10 16:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/26/10 16:19	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/26/10 16:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/26/10 16:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/26/10 16:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/26/10 16:19	75-35-4	
cis-1,2-Dichloroethene	50.5	ug/L	5.0	1		05/26/10 16:19	156-59-2	
trans-1,2-Dichloroethene	12.6	ug/L	5.0	1		05/26/10 16:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 16:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/26/10 16:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/26/10 16:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/26/10 16:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 16:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/26/10 16:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/26/10 16:19	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/26/10 16:19	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/26/10 16:19	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/26/10 16:19	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/26/10 16:19	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/26/10 16:19	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 35 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 35 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-10-1R		Lab ID: 5037756016	Collected: 05/20/10 13:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/26/10 16:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/26/10 16:19	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/26/10 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/26/10 16:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/26/10 16:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/26/10 16:19	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/26/10 16:19	103-65-1	
Styrene	ND	ug/L	5.0	1		05/26/10 16:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 16:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/26/10 16:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/26/10 16:19	127-18-4	
Toluene	ND	ug/L	5.0	1		05/26/10 16:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 16:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/26/10 16:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/26/10 16:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/26/10 16:19	79-00-5	
Trichloroethene	249	ug/L	5.0	1		05/26/10 16:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/26/10 16:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/26/10 16:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 16:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/26/10 16:19	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/26/10 16:19	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/26/10 16:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/26/10 16:19	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		05/26/10 16:19	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		05/26/10 16:19	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		05/26/10 16:19	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-150		Lab ID: 5037756017	Collected: 05/20/10 13:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/27/10 03:45	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/27/10 03:45	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/27/10 03:45	107-13-1	
Benzene	ND	ug/L	5.0	1		05/27/10 03:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/27/10 03:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 03:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 03:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/27/10 03:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/10 03:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 03:45	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 03:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 03:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 03:45	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 03:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 03:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 03:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/27/10 03:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/27/10 03:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/27/10 03:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 03:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 03:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 03:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 03:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 03:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/27/10 03:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 03:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 03:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 03:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 03:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 03:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 03:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 03:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 03:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 03:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 03:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 03:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 03:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 03:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 03:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 03:45	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 03:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 03:45	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/27/10 03:45	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/27/10 03:45	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/27/10 03:45	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 37 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 37 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-150		Lab ID: 5037756017	Collected: 05/20/10 13:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 03:45	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 03:45	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 03:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 03:45	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 03:45	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 03:45	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 03:45	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 03:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 03:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 03:45	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 03:45	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 03:45	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 03:45	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 03:45	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 03:45	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 03:45	79-00-5	
Trichloroethene	7.3 ug/L		5.0	1		05/27/10 03:45	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 03:45	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 03:45	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 03:45	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 03:45	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 03:45	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 03:45	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 03:45	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		05/27/10 03:45	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/27/10 03:45	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		05/27/10 03:45	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-156		Lab ID: 5037756018		Collected: 05/20/10 17:00		Received: 05/21/10 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/27/10 04:19	67-64-1		
Acrolein	ND	ug/L	50.0	1		05/27/10 04:19	107-02-8		
Acrylonitrile	ND	ug/L	100	1		05/27/10 04:19	107-13-1		
Benzene	ND	ug/L	5.0	1		05/27/10 04:19	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		05/27/10 04:19	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 04:19	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 04:19	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/27/10 04:19	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/27/10 04:19	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 04:19	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 04:19	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 04:19	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 04:19	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 04:19	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 04:19	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 04:19	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/27/10 04:19	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/27/10 04:19	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/27/10 04:19	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 04:19	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 04:19	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 04:19	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 04:19	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 04:19	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		05/27/10 04:19	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 04:19	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 04:19	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 04:19	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 04:19	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 04:19	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 04:19	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 04:19	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 04:19	75-35-4		
cis-1,2-Dichloroethene	31.0	ug/L	5.0	1		05/27/10 04:19	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 04:19	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 04:19	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 04:19	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 04:19	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 04:19	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 04:19	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 04:19	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 04:19	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 04:19	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 04:19	87-68-3		
n-Hexane	ND	ug/L	5.0	1		05/27/10 04:19	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		05/27/10 04:19	591-78-6		
Iodomethane	ND	ug/L	10.0	1		05/27/10 04:19	74-88-4		

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 39 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 39 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-156		Lab ID: 5037756018	Collected: 05/20/10 17:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 04:19	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 04:19	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 04:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 04:19	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 04:19	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 04:19	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 04:19	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 04:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 04:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 04:19	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 04:19	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 04:19	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 04:19	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 04:19	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 04:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 04:19	79-00-5	
Trichloroethene	140 ug/L		5.0	1		05/27/10 04:19	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 04:19	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 04:19	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 04:19	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 04:19	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 04:19	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 04:19	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 04:19	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		05/27/10 04:19	1868-53-7	
4-Bromofluorobenzene (S)	103 %		70-126	1		05/27/10 04:19	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		05/27/10 04:19	2037-26-5	
5310C TOC		Analytical Method: SM 5310C						
Total Organic Carbon	ND mg/L		1.0	1		06/01/10 09:21	7440-44-0	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-151		Lab ID: 5037756019		Collected: 05/21/10 09:00		Received: 05/21/10 11:35		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/27/10 04:53	67-64-1		
Acrolein	ND	ug/L	50.0	1		05/27/10 04:53	107-02-8		
Acrylonitrile	ND	ug/L	100	1		05/27/10 04:53	107-13-1		
Benzene	ND	ug/L	5.0	1		05/27/10 04:53	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		05/27/10 04:53	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 04:53	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 04:53	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/27/10 04:53	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/27/10 04:53	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 04:53	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 04:53	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 04:53	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 04:53	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 04:53	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 04:53	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 04:53	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/27/10 04:53	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/27/10 04:53	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/27/10 04:53	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 04:53	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 04:53	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 04:53	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 04:53	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 04:53	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		05/27/10 04:53	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 04:53	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 04:53	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 04:53	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 04:53	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 04:53	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 04:53	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 04:53	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 04:53	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 04:53	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 04:53	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 04:53	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 04:53	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 04:53	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 04:53	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 04:53	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 04:53	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 04:53	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 04:53	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 04:53	87-68-3		
n-Hexane	ND	ug/L	5.0	1		05/27/10 04:53	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		05/27/10 04:53	591-78-6		
Iodomethane	ND	ug/L	10.0	1		05/27/10 04:53	74-88-4		

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 41 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 41 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-151		Lab ID: 5037756019	Collected: 05/21/10 09:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 04:53	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 04:53	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 04:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 04:53	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 04:53	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 04:53	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 04:53	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 04:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 04:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 04:53	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 04:53	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 04:53	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 04:53	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 04:53	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 04:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 04:53	79-00-5	
Trichloroethene	6.6 ug/L		5.0	1		05/27/10 04:53	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 04:53	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 04:53	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 04:53	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 04:53	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 04:53	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 04:53	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 04:53	1330-20-7	
Dibromofluoromethane (S)	104 %		80-123	1		05/27/10 04:53	1868-53-7	
4-Bromofluorobenzene (S)	103 %		70-126	1		05/27/10 04:53	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		05/27/10 04:53	2037-26-5	
5310C TOC		Analytical Method: SM 5310C						
Total Organic Carbon	ND mg/L		1.0	1		06/01/10 09:21	7440-44-0	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-157		Lab ID: 5037756020	Collected: 05/21/10 09:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		05/27/10 05:27	67-64-1	
Acrolein	ND ug/L		50.0	1		05/27/10 05:27	107-02-8	
Acrylonitrile	ND ug/L		100	1		05/27/10 05:27	107-13-1	
Benzene	ND ug/L		5.0	1		05/27/10 05:27	71-43-2	
Bromobenzene	ND ug/L		5.0	1		05/27/10 05:27	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		05/27/10 05:27	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		05/27/10 05:27	75-27-4	
Bromoform	ND ug/L		5.0	1		05/27/10 05:27	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/27/10 05:27	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		05/27/10 05:27	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		05/27/10 05:27	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		05/27/10 05:27	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		05/27/10 05:27	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		05/27/10 05:27	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		05/27/10 05:27	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		05/27/10 05:27	108-90-7	
Chloroethane	ND ug/L		5.0	1		05/27/10 05:27	75-00-3	
Chloroform	ND ug/L		5.0	1		05/27/10 05:27	67-66-3	
Chloromethane	ND ug/L		5.0	1		05/27/10 05:27	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		05/27/10 05:27	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		05/27/10 05:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		05/27/10 05:27	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		05/27/10 05:27	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		05/27/10 05:27	106-93-4	
Dibromomethane	ND ug/L		5.0	1		05/27/10 05:27	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 05:27	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 05:27	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 05:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		05/27/10 05:27	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		05/27/10 05:27	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		05/27/10 05:27	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		05/27/10 05:27	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		05/27/10 05:27	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		05/27/10 05:27	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		05/27/10 05:27	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		05/27/10 05:27	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		05/27/10 05:27	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		05/27/10 05:27	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		05/27/10 05:27	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		05/27/10 05:27	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		05/27/10 05:27	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		05/27/10 05:27	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		05/27/10 05:27	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/27/10 05:27	87-68-3	
n-Hexane	ND ug/L		5.0	1		05/27/10 05:27	110-54-3	
2-Hexanone	ND ug/L		25.0	1		05/27/10 05:27	591-78-6	
Iodomethane	ND ug/L		10.0	1		05/27/10 05:27	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 43 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 43 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-157		Lab ID: 5037756020	Collected: 05/21/10 09:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 05:27	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 05:27	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 05:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 05:27	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 05:27	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 05:27	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 05:27	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 05:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 05:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 05:27	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 05:27	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 05:27	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 05:27	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 05:27	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 05:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 05:27	79-00-5	
Trichloroethene	88.1 ug/L		5.0	1		05/27/10 05:27	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 05:27	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 05:27	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 05:27	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 05:27	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 05:27	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 05:27	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 05:27	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		05/27/10 05:27	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/27/10 05:27	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		05/27/10 05:27	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-164		Lab ID: 5037756021	Collected: 05/21/10 10:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/27/10 06:01	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/27/10 06:01	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/27/10 06:01	107-13-1	
Benzene	ND	ug/L	5.0	1		05/27/10 06:01	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/27/10 06:01	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 06:01	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 06:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/27/10 06:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/10 06:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 06:01	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 06:01	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 06:01	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 06:01	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 06:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 06:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 06:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/27/10 06:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/27/10 06:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/27/10 06:01	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 06:01	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 06:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 06:01	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 06:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 06:01	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/27/10 06:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 06:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 06:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 06:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 06:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 06:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 06:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 06:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 06:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 06:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 06:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 06:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 06:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 06:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 06:01	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 06:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 06:01	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/27/10 06:01	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/27/10 06:01	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/27/10 06:01	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 45 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 45 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-164		Lab ID: 5037756021	Collected: 05/21/10 10:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/27/10 06:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/27/10 06:01	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/27/10 06:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/27/10 06:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/27/10 06:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/27/10 06:01	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/27/10 06:01	103-65-1	
Styrene	ND	ug/L	5.0	1		05/27/10 06:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 06:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 06:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/27/10 06:01	127-18-4	
Toluene	ND	ug/L	5.0	1		05/27/10 06:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/27/10 06:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/27/10 06:01	79-00-5	
Trichloroethene	16.6	ug/L	5.0	1		05/27/10 06:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/27/10 06:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/27/10 06:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 06:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 06:01	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/27/10 06:01	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/27/10 06:01	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/27/10 06:01	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		05/27/10 06:01	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		05/27/10 06:01	460-00-4	
Toluene-d8 (S)	104	%	80-116	1		05/27/10 06:01	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-160		Lab ID: 5037756022		Collected: 05/21/10 10:30		Received: 05/21/10 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/27/10 06:34	67-64-1		
Acrolein	ND	ug/L	50.0	1		05/27/10 06:34	107-02-8		
Acrylonitrile	ND	ug/L	100	1		05/27/10 06:34	107-13-1		
Benzene	ND	ug/L	5.0	1		05/27/10 06:34	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		05/27/10 06:34	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 06:34	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 06:34	75-27-4		
Bromoform	ND	ug/L	5.0	1		05/27/10 06:34	75-25-2		
Bromomethane	ND	ug/L	5.0	1		05/27/10 06:34	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 06:34	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 06:34	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 06:34	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 06:34	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 06:34	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 06:34	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 06:34	108-90-7		
Chloroethane	ND	ug/L	5.0	1		05/27/10 06:34	75-00-3		
Chloroform	ND	ug/L	5.0	1		05/27/10 06:34	67-66-3		
Chloromethane	ND	ug/L	5.0	1		05/27/10 06:34	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 06:34	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 06:34	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 06:34	96-12-8		
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 06:34	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 06:34	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		05/27/10 06:34	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:34	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:34	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 06:34	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 06:34	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 06:34	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 06:34	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 06:34	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 06:34	75-35-4		
cis-1,2-Dichloroethene	17.5	ug/L	5.0	1		05/27/10 06:34	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 06:34	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 06:34	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 06:34	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 06:34	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 06:34	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 06:34	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 06:34	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 06:34	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 06:34	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 06:34	87-68-3		
n-Hexane	ND	ug/L	5.0	1		05/27/10 06:34	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		05/27/10 06:34	591-78-6		
Iodomethane	ND	ug/L	10.0	1		05/27/10 06:34	74-88-4		

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 47 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 47 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-160		Lab ID: 5037756022	Collected: 05/21/10 10:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 06:34	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 06:34	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 06:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 06:34	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 06:34	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 06:34	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 06:34	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 06:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 06:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 06:34	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 06:34	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 06:34	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 06:34	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 06:34	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 06:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 06:34	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/27/10 06:34	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 06:34	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 06:34	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 06:34	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 06:34	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 06:34	108-05-4	
Vinyl chloride	4.5 ug/L		2.0	1		05/27/10 06:34	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 06:34	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		05/27/10 06:34	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/27/10 06:34	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		05/27/10 06:34	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-161		Lab ID: 5037756023	Collected: 05/21/10 11:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/27/10 07:08	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/27/10 07:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/27/10 07:08	107-13-1	
Benzene	ND	ug/L	5.0	1		05/27/10 07:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/27/10 07:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 07:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 07:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/27/10 07:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/10 07:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 07:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 07:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 07:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 07:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 07:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 07:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 07:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/27/10 07:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/27/10 07:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/27/10 07:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 07:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 07:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 07:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 07:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 07:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/27/10 07:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 07:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 07:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 07:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 07:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 07:08	75-35-4	
cis-1,2-Dichloroethene	94.1	ug/L	5.0	1		05/27/10 07:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 07:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 07:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 07:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 07:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 07:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 07:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 07:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 07:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 07:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 07:08	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/27/10 07:08	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/27/10 07:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/27/10 07:08	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 49 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 49 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: MW-161		Lab ID: 5037756023	Collected: 05/21/10 11:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/27/10 07:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/27/10 07:08	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		05/27/10 07:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/27/10 07:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/27/10 07:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/27/10 07:08	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/27/10 07:08	103-65-1	
Styrene	ND	ug/L	5.0	1		05/27/10 07:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 07:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/27/10 07:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/27/10 07:08	127-18-4	
Toluene	ND	ug/L	5.0	1		05/27/10 07:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/27/10 07:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/27/10 07:08	79-00-5	
Trichloroethene	58.8	ug/L	5.0	1		05/27/10 07:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/27/10 07:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/27/10 07:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 07:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/27/10 07:08	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/27/10 07:08	108-05-4	
Vinyl chloride	5.0	ug/L	2.0	1		05/27/10 07:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/27/10 07:08	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		05/27/10 07:08	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		05/27/10 07:08	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		05/27/10 07:08	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Eq Blank		Lab ID: 5037756024	Collected: 05/19/10 15:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/27/10 07:42	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/27/10 07:42	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/27/10 07:42	107-13-1	
Benzene	ND	ug/L	5.0	1		05/27/10 07:42	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/27/10 07:42	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 07:42	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 07:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/27/10 07:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/10 07:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 07:42	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 07:42	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 07:42	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 07:42	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 07:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 07:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 07:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/27/10 07:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/27/10 07:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/27/10 07:42	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 07:42	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 07:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 07:42	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 07:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 07:42	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/27/10 07:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 07:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 07:42	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 07:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 07:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 07:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 07:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 07:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 07:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 07:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 07:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 07:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 07:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 07:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 07:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 07:42	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 07:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 07:42	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/27/10 07:42	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/27/10 07:42	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/27/10 07:42	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 51 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 51 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Eq Blank		Lab ID: 5037756024	Collected: 05/19/10 15:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 07:42	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 07:42	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 07:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 07:42	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 07:42	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 07:42	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 07:42	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 07:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 07:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 07:42	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 07:42	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 07:42	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 07:42	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 07:42	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 07:42	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 07:42	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/27/10 07:42	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 07:42	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 07:42	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 07:42	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 07:42	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 07:42	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 07:42	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 07:42	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		05/27/10 07:42	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/27/10 07:42	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		05/27/10 07:42	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Eq Blank		Lab ID: 5037756025	Collected: 05/20/10 17:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		05/27/10 08:16	67-64-1	
Acrolein	ND ug/L		50.0	1		05/27/10 08:16	107-02-8	
Acrylonitrile	ND ug/L		100	1		05/27/10 08:16	107-13-1	
Benzene	ND ug/L		5.0	1		05/27/10 08:16	71-43-2	
Bromobenzene	ND ug/L		5.0	1		05/27/10 08:16	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		05/27/10 08:16	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		05/27/10 08:16	75-27-4	
Bromoform	ND ug/L		5.0	1		05/27/10 08:16	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/27/10 08:16	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		05/27/10 08:16	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		05/27/10 08:16	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		05/27/10 08:16	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		05/27/10 08:16	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		05/27/10 08:16	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		05/27/10 08:16	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		05/27/10 08:16	108-90-7	
Chloroethane	ND ug/L		5.0	1		05/27/10 08:16	75-00-3	
Chloroform	ND ug/L		5.0	1		05/27/10 08:16	67-66-3	
Chloromethane	ND ug/L		5.0	1		05/27/10 08:16	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		05/27/10 08:16	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		05/27/10 08:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		05/27/10 08:16	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		05/27/10 08:16	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		05/27/10 08:16	106-93-4	
Dibromomethane	ND ug/L		5.0	1		05/27/10 08:16	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 08:16	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 08:16	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 08:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		05/27/10 08:16	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		05/27/10 08:16	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		05/27/10 08:16	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		05/27/10 08:16	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		05/27/10 08:16	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		05/27/10 08:16	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		05/27/10 08:16	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		05/27/10 08:16	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		05/27/10 08:16	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		05/27/10 08:16	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		05/27/10 08:16	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		05/27/10 08:16	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		05/27/10 08:16	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		05/27/10 08:16	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		05/27/10 08:16	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/27/10 08:16	87-68-3	
n-Hexane	ND ug/L		5.0	1		05/27/10 08:16	110-54-3	
2-Hexanone	ND ug/L		25.0	1		05/27/10 08:16	591-78-6	
Iodomethane	ND ug/L		10.0	1		05/27/10 08:16	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 53 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 53 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Eq Blank		Lab ID: 5037756025	Collected: 05/20/10 17:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 08:16	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 08:16	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 08:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 08:16	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 08:16	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 08:16	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 08:16	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 08:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 08:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 08:16	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 08:16	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 08:16	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 08:16	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 08:16	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 08:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 08:16	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/27/10 08:16	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 08:16	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 08:16	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 08:16	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 08:16	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 08:16	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 08:16	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 08:16	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	1		05/27/10 08:16	1868-53-7	
4-Bromofluorobenzene (S)	105 %		70-126	1		05/27/10 08:16	460-00-4	
Toluene-d8 (S)	104 %		80-116	1		05/27/10 08:16	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Eq Blank		Lab ID: 5037756026	Collected: 05/21/10 11:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		05/27/10 08:51	67-64-1	
Acrolein	ND ug/L		50.0	1		05/27/10 08:51	107-02-8	
Acrylonitrile	ND ug/L		100	1		05/27/10 08:51	107-13-1	
Benzene	ND ug/L		5.0	1		05/27/10 08:51	71-43-2	
Bromobenzene	ND ug/L		5.0	1		05/27/10 08:51	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		05/27/10 08:51	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		05/27/10 08:51	75-27-4	
Bromoform	ND ug/L		5.0	1		05/27/10 08:51	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/27/10 08:51	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		05/27/10 08:51	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		05/27/10 08:51	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		05/27/10 08:51	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		05/27/10 08:51	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		05/27/10 08:51	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		05/27/10 08:51	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		05/27/10 08:51	108-90-7	
Chloroethane	ND ug/L		5.0	1		05/27/10 08:51	75-00-3	
Chloroform	ND ug/L		5.0	1		05/27/10 08:51	67-66-3	
Chloromethane	ND ug/L		5.0	1		05/27/10 08:51	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		05/27/10 08:51	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		05/27/10 08:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		05/27/10 08:51	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		05/27/10 08:51	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		05/27/10 08:51	106-93-4	
Dibromomethane	ND ug/L		5.0	1		05/27/10 08:51	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 08:51	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 08:51	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		05/27/10 08:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		05/27/10 08:51	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		05/27/10 08:51	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		05/27/10 08:51	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		05/27/10 08:51	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		05/27/10 08:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		05/27/10 08:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		05/27/10 08:51	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		05/27/10 08:51	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		05/27/10 08:51	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		05/27/10 08:51	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		05/27/10 08:51	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		05/27/10 08:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		05/27/10 08:51	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		05/27/10 08:51	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		05/27/10 08:51	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		05/27/10 08:51	87-68-3	
n-Hexane	ND ug/L		5.0	1		05/27/10 08:51	110-54-3	
2-Hexanone	ND ug/L		25.0	1		05/27/10 08:51	591-78-6	
Iodomethane	ND ug/L		10.0	1		05/27/10 08:51	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 55 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 55 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Eq Blank		Lab ID: 5037756026	Collected: 05/21/10 11:30	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 08:51	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 08:51	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 08:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 08:51	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 08:51	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 08:51	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 08:51	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 08:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 08:51	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 08:51	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 08:51	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 08:51	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 08:51	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 08:51	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 08:51	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/27/10 08:51	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 08:51	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 08:51	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 08:51	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 08:51	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 08:51	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 08:51	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 08:51	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		05/27/10 08:51	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/27/10 08:51	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		05/27/10 08:51	2037-26-5	

ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Trip Blank		Lab ID: 5037756027	Collected: 05/19/10 08:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		05/27/10 09:25	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/27/10 09:25	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/27/10 09:25	107-13-1	
Benzene	ND	ug/L	5.0	1		05/27/10 09:25	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/27/10 09:25	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/27/10 09:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/27/10 09:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/27/10 09:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/27/10 09:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/27/10 09:25	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/27/10 09:25	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/27/10 09:25	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/27/10 09:25	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/27/10 09:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/27/10 09:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/27/10 09:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/27/10 09:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/27/10 09:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/27/10 09:25	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 09:25	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/27/10 09:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/27/10 09:25	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/27/10 09:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/27/10 09:25	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/27/10 09:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/27/10 09:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/27/10 09:25	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/27/10 09:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/27/10 09:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/27/10 09:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/27/10 09:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 09:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/27/10 09:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 09:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/27/10 09:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/27/10 09:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/27/10 09:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 09:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/27/10 09:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/27/10 09:25	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/27/10 09:25	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/27/10 09:25	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/27/10 09:25	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/27/10 09:25	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/27/10 09:25	74-88-4	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 57 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 57 of 513



ANALYTICAL RESULTS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

Sample: Trip Blank		Lab ID: 5037756027	Collected: 05/19/10 08:00	Received: 05/21/10 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		05/27/10 09:25	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		05/27/10 09:25	99-87-6	
Methylene chloride	ND ug/L		5.0	1		05/27/10 09:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		05/27/10 09:25	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		05/27/10 09:25	1634-04-4	
Naphthalene	ND ug/L		5.0	1		05/27/10 09:25	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		05/27/10 09:25	103-65-1	
Styrene	ND ug/L		5.0	1		05/27/10 09:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 09:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/27/10 09:25	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/27/10 09:25	127-18-4	
Toluene	ND ug/L		5.0	1		05/27/10 09:25	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 09:25	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		05/27/10 09:25	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/27/10 09:25	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/27/10 09:25	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/27/10 09:25	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/27/10 09:25	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		05/27/10 09:25	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 09:25	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		05/27/10 09:25	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		05/27/10 09:25	108-05-4	
Vinyl chloride	ND ug/L		2.0	1		05/27/10 09:25	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		05/27/10 09:25	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		05/27/10 09:25	1868-53-7	
4-Bromofluorobenzene (S)	104 %		70-126	1		05/27/10 09:25	460-00-4	
Toluene-d8 (S)	105 %		80-116	1		05/27/10 09:25	2037-26-5	

QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

QC Batch:	MSV/24204	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5037756001, 5037756002, 5037756003, 5037756004, 5037756005, 5037756006, 5037756007, 5037756008, 5037756009, 5037756010, 5037756011, 5037756013, 5037756016		

METHOD BLANK: 437656 Matrix: Water

Associated Lab Samples: 5037756001, 5037756002, 5037756003, 5037756004, 5037756005, 5037756006, 5037756007, 5037756008, 5037756009, 5037756010, 5037756011, 5037756013, 5037756016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/26/10 12:52	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/26/10 12:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/26/10 12:52	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/26/10 12:52	
1,1-Dichloroethane	ug/L	ND	5.0	05/26/10 12:52	
1,1-Dichloroethene	ug/L	ND	5.0	05/26/10 12:52	
1,1-Dichloropropene	ug/L	ND	5.0	05/26/10 12:52	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/26/10 12:52	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/26/10 12:52	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/26/10 12:52	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/26/10 12:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/26/10 12:52	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/26/10 12:52	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/26/10 12:52	
1,2-Dichloroethane	ug/L	ND	5.0	05/26/10 12:52	
1,2-Dichloropropane	ug/L	ND	5.0	05/26/10 12:52	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/26/10 12:52	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/26/10 12:52	
1,3-Dichloropropane	ug/L	ND	5.0	05/26/10 12:52	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/26/10 12:52	
2,2-Dichloropropane	ug/L	ND	5.0	05/26/10 12:52	
2-Butanone (MEK)	ug/L	ND	25.0	05/26/10 12:52	
2-Chlorotoluene	ug/L	ND	5.0	05/26/10 12:52	
2-Hexanone	ug/L	ND	25.0	05/26/10 12:52	
4-Chlorotoluene	ug/L	ND	5.0	05/26/10 12:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/26/10 12:52	
Acetone	ug/L	ND	100	05/26/10 12:52	
Acrolein	ug/L	ND	50.0	05/26/10 12:52	
Acrylonitrile	ug/L	ND	100	05/26/10 12:52	
Benzene	ug/L	ND	5.0	05/26/10 12:52	
Bromobenzene	ug/L	ND	5.0	05/26/10 12:52	
Bromochloromethane	ug/L	ND	5.0	05/26/10 12:52	
Bromodichloromethane	ug/L	ND	5.0	05/26/10 12:52	
Bromoform	ug/L	ND	5.0	05/26/10 12:52	
Bromomethane	ug/L	ND	5.0	05/26/10 12:52	
Carbon disulfide	ug/L	ND	10.0	05/26/10 12:52	
Carbon tetrachloride	ug/L	ND	5.0	05/26/10 12:52	
Chlorobenzene	ug/L	ND	5.0	05/26/10 12:52	
Chloroethane	ug/L	ND	5.0	05/26/10 12:52	
Chloroform	ug/L	ND	5.0	05/26/10 12:52	
Chloromethane	ug/L	ND	5.0	05/26/10 12:52	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 59 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 59 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

METHOD BLANK: 437656

Matrix: Water

Associated Lab Samples: 5037756001, 5037756002, 5037756003, 5037756004, 5037756005, 5037756006, 5037756007, 5037756008, 5037756009, 5037756010, 5037756011, 5037756013, 5037756016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/26/10 12:52	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/26/10 12:52	
Dibromochloromethane	ug/L	ND	5.0	05/26/10 12:52	
Dibromomethane	ug/L	ND	5.0	05/26/10 12:52	
Dichlorodifluoromethane	ug/L	ND	5.0	05/26/10 12:52	
Ethyl methacrylate	ug/L	ND	100	05/26/10 12:52	
Ethylbenzene	ug/L	ND	5.0	05/26/10 12:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/26/10 12:52	
Iodomethane	ug/L	ND	10.0	05/26/10 12:52	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/26/10 12:52	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/26/10 12:52	
Methylene chloride	ug/L	ND	5.0	05/26/10 12:52	
n-Butylbenzene	ug/L	ND	5.0	05/26/10 12:52	
n-Hexane	ug/L	ND	5.0	05/26/10 12:52	
n-Propylbenzene	ug/L	ND	5.0	05/26/10 12:52	
Naphthalene	ug/L	ND	5.0	05/26/10 12:52	
p-Isopropyltoluene	ug/L	ND	5.0	05/26/10 12:52	
sec-Butylbenzene	ug/L	ND	5.0	05/26/10 12:52	
Styrene	ug/L	ND	5.0	05/26/10 12:52	
tert-Butylbenzene	ug/L	ND	5.0	05/26/10 12:52	
Tetrachloroethene	ug/L	ND	5.0	05/26/10 12:52	
Toluene	ug/L	ND	5.0	05/26/10 12:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/26/10 12:52	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/26/10 12:52	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/26/10 12:52	
Trichloroethene	ug/L	ND	5.0	05/26/10 12:52	
Trichlorofluoromethane	ug/L	ND	5.0	05/26/10 12:52	
Vinyl acetate	ug/L	ND	10.0	05/26/10 12:52	
Vinyl chloride	ug/L	ND	2.0	05/26/10 12:52	
Xylene (Total)	ug/L	ND	10.0	05/26/10 12:52	
4-Bromofluorobenzene (S)	%	104	70-126	05/26/10 12:52	
Dibromofluoromethane (S)	%	104	80-123	05/26/10 12:52	
Toluene-d8 (S)	%	103	80-116	05/26/10 12:52	

LABORATORY CONTROL SAMPLE: 437657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	69-130	
1,1,1-Trichloroethane	ug/L	50	51.8	104	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	58.3	117	69-131	
1,1,2-Trichloroethane	ug/L	50	56.8	114	77-132	
1,1-Dichloroethane	ug/L	50	50.4	101	67-133	
1,1-Dichloroethene	ug/L	50	56.7	113	63-128	
1,1-Dichloropropene	ug/L	50	52.2	104	75-134	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 60 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 60 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

LABORATORY CONTROL SAMPLE: 437657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	55.2	110	58-131	
1,2,3-Trichloropropane	ug/L	100	122	122	60-131	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	60-130	
1,2,4-Trimethylbenzene	ug/L	50	54.4	109	73-130	
1,2-Dibromo-3-chloropropane	ug/L	50	59.0	118	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	54.4	109	75-126	
1,2-Dichlorobenzene	ug/L	50	50.6	101	76-124	
1,2-Dichloroethane	ug/L	50	55.0	110	69-139	
1,2-Dichloropropane	ug/L	50	54.4	109	76-129	
1,3,5-Trimethylbenzene	ug/L	50	48.1	96	74-130	
1,3-Dichlorobenzene	ug/L	50	51.2	102	76-125	
1,3-Dichloropropane	ug/L	50	53.7	107	74-126	
1,4-Dichlorobenzene	ug/L	50	50.4	101	75-122	
2,2-Dichloropropane	ug/L	50	48.3	97	53-144	
2-Butanone (MEK)	ug/L	250	339	136	47-189	
2-Chlorotoluene	ug/L	50	54.3	109	72-128	
2-Hexanone	ug/L	250	314	125	57-167	
4-Chlorotoluene	ug/L	50	46.2	92	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	347	139	61-135	L3
Acetone	ug/L	250	351	140	30-170	
Acrolein	ug/L	1000	1610	161	30-170	
Acrylonitrile	ug/L	1000	1400	140	67-136	L3
Benzene	ug/L	50	49.5	99	78-127	
Bromobenzene	ug/L	50	55.3	111	62-139	
Bromochloromethane	ug/L	50	71.8	144	54-162	
Bromodichloromethane	ug/L	50	55.1	110	69-133	
Bromoform	ug/L	50	53.5	107	60-127	
Bromomethane	ug/L	50	51.9	104	30-170	
Carbon disulfide	ug/L	100	134	134	58-152	
Carbon tetrachloride	ug/L	50	52.9	106	62-143	
Chlorobenzene	ug/L	50	48.2	96	75-123	
Chloroethane	ug/L	50	50.8	102	56-153	
Chloroform	ug/L	50	50.6	101	74-131	
Chloromethane	ug/L	50	45.6	91	35-147	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	74-128	
cis-1,3-Dichloropropene	ug/L	50	56.0	112	58-123	
Dibromochloromethane	ug/L	50	58.2	116	66-131	
Dibromomethane	ug/L	50	56.3	113	73-133	
Dichlorodifluoromethane	ug/L	50	58.9	118	30-170	
Ethyl methacrylate	ug/L	200	217	109	59-138	
Ethylbenzene	ug/L	50	47.1	94	81-126	
Hexachloro-1,3-butadiene	ug/L	50	49.7	99	70-130	
Iodomethane	ug/L	100	75.4	75	41-170	
Isopropylbenzene (Cumene)	ug/L	50	46.8	94	80-130	
Methyl-tert-butyl ether	ug/L	100	102	102	66-147	
Methylene chloride	ug/L	50	55.3	111	32-164	
n-Butylbenzene	ug/L	50	53.4	107	68-135	
n-Hexane	ug/L	50	50.8	102	69-157	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 61 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 61 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

LABORATORY CONTROL SAMPLE: 437657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	53.4	107	71-132	
Naphthalene	ug/L	50	58.8	118	61-135	
p-Isopropyltoluene	ug/L	50	49.0	98	66-131	
sec-Butylbenzene	ug/L	50	50.6	101	73-130	
Styrene	ug/L	50	51.0	102	74-128	
tert-Butylbenzene	ug/L	50	40.7	81	63-117	
Tetrachloroethene	ug/L	50	45.8	92	60-119	
Toluene	ug/L	50	47.9	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	54.6	109	71-126	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	212	106	47-141	
Trichloroethene	ug/L	50	51.5	103	74-130	
Trichlorofluoromethane	ug/L	50	51.2	102	62-150	
Vinyl acetate	ug/L	200	192	96	41-145	
Vinyl chloride	ug/L	50	54.4	109	55-141	
Xylene (Total)	ug/L	150	152	101	76-132	
4-Bromofluorobenzene (S)	%			103	70-126	
Dibromofluoromethane (S)	%			104	80-123	
Toluene-d8 (S)	%			98	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437658

437659

Parameter	Units	5037756016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	49.8	50.7	100	101	55-131	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	51.0	54.0	102	108	64-143	6	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	53.9	57.3	108	115	64-142	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	53.8	55.3	108	111	71-143	3	20	
1,1-Dichloroethane	ug/L	ND	50	50	48.5	51.9	97	104	68-139	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.3	58.0	111	116	55-140	5	20	
1,1-Dichloropropene	ug/L	ND	50	50	51.8	54.0	104	108	66-140	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	48.8	53.8	98	108	33-140	10	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	113	119	113	119	58-133	6	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	46.3	50.1	93	100	28-140	8	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	49.9	52.7	100	105	39-146	5	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	51.3	55.4	103	111	39-140	8	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50.3	51.3	101	103	67-134	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	45.1	48.6	90	97	48-137	7	20	
1,2-Dichloroethane	ug/L	ND	50	50	51.9	53.9	104	108	63-148	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	50.3	52.8	101	106	70-136	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	44.5	47.9	89	96	39-145	8	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	46.9	49.4	94	99	40-143	5	20	
1,3-Dichloropropane	ug/L	ND	50	50	50.0	51.5	100	103	65-133	3	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	45.2	49.2	90	98	38-142	9	20	
2,2-Dichloropropane	ug/L	ND	50	50	47.0	47.8	94	96	35-157	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	295	305	118	122	62-132	4	20	
2-Chlorotoluene	ug/L	ND	50	50	50.2	54.4	100	109	44-143	8	20	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 62 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 62 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437658 437659											
Parameter	Units	5037756016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	288	298	115	119	61-141	4	20
4-Chlorotoluene	ug/L	ND	50	50	42.0	45.3	84	91	43-140	8	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	324	340	129	136	57-135	5	20 M0
Acetone	ug/L	ND	250	250	289	307	116	123	30-170	6	20
Acrolein	ug/L	ND	1000	1000	1360	1430	136	143	30-170	5	20
Acrylonitrile	ug/L	ND	1000	1000	1290	1340	129	134	66-137	4	20
Benzene	ug/L	ND	50	50	47.8	50.1	96	100	63-141	5	20
Bromobenzene	ug/L	ND	50	50	51.0	53.0	102	106	57-128	4	20
Bromochloromethane	ug/L	ND	50	50	67.6	69.2	135	138	65-157	2	20
Bromodichloromethane	ug/L	ND	50	50	51.8	54.2	104	108	63-135	5	20
Bromoform	ug/L	ND	50	50	48.2	51.3	96	103	58-124	6	20
Bromomethane	ug/L	ND	50	50	48.6	56.7	97	113	30-170	15	20
Carbon disulfide	ug/L	ND	100	100	134	141	134	141	46-162	5	20
Carbon tetrachloride	ug/L	ND	50	50	51.0	53.7	102	107	54-145	5	20
Chlorobenzene	ug/L	ND	50	50	45.5	46.9	91	94	56-133	3	20
Chloroethane	ug/L	ND	50	50	49.2	52.5	98	105	54-157	7	20
Chloroform	ug/L	ND	50	50	48.7	51.1	97	102	67-134	5	20
Chloromethane	ug/L	ND	50	50	43.0	45.5	86	91	36-137	6	20
cis-1,2-Dichloroethene	ug/L	50.5	50	50	94.2	96.5	87	92	65-132	2	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.4	55.6	107	111	46-121	4	20
Dibromochloromethane	ug/L	ND	50	50	53.3	55.4	107	111	64-124	4	20
Dibromomethane	ug/L	ND	50	50	51.6	53.9	103	108	67-144	4	20
Dichlorodifluoromethane	ug/L	ND	50	50	51.0	53.2	102	106	30-163	4	20
Ethyl methacrylate	ug/L	ND	200	200	204	211	102	106	52-140	4	20
Ethylbenzene	ug/L	ND	50	50	45.4	47.1	91	94	44-151	4	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	45.8	50.2	92	100	30-145	9	20
Iodomethane	ug/L	ND	100	100	55.0	71.8	55	72	28-168	26	20 R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	44.8	46.4	90	93	40-148	3	20
Methyl-tert-butyl ether	ug/L	ND	100	100	95.0	98.9	95	99	52-156	4	20
Methylene chloride	ug/L	ND	50	50	51.5	51.4	103	103	46-154	.1	20
n-Butylbenzene	ug/L	ND	50	50	50.7	54.0	101	108	27-153	6	20
n-Hexane	ug/L	ND	50	50	51.6	54.3	103	109	32-176	5	20
n-Propylbenzene	ug/L	ND	50	50	50.5	54.5	101	109	40-148	7	20
Naphthalene	ug/L	ND	50	50	52.1	57.3	104	115	44-138	9	20
p-Isopropyltoluene	ug/L	ND	50	50	45.7	49.6	91	99	34-146	8	20
sec-Butylbenzene	ug/L	ND	50	50	48.2	51.5	96	103	38-150	7	20
Styrene	ug/L	ND	50	50	47.6	49.3	95	99	38-141	4	20
tert-Butylbenzene	ug/L	ND	50	50	33.2	40.8	66	82	32-133	21	20 R1
Tetrachloroethene	ug/L	ND	50	50	44.6	46.3	89	93	25-146	4	20
Toluene	ug/L	ND	50	50	46.2	48.0	92	96	59-142	4	20
trans-1,2-Dichloroethene	ug/L	12.6	50	50	64.8	67.2	104	109	60-137	4	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	49.5	50.8	99	102	43-117	3	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	193	203	97	102	44-139	5	20
Trichloroethene	ug/L	249	50	50	293	297	86	95	61-137	2	20
Trichlorofluoromethane	ug/L	ND	50	50	49.5	51.4	99	103	53-162	4	20
Vinyl acetate	ug/L	ND	200	200	162	165	81	82	24-132	2	20
Vinyl chloride	ug/L	ND	50	50	51.9	54.2	104	108	51-144	4	20

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 63 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 63 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437658 437659												
Parameter	Units	5037756016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Xylene (Total)	ug/L	ND	150	150	144	149	96	99	44-152	4	20	
4-Bromofluorobenzene (S)	%						104	102	70-126		20	
Dibromofluoromethane (S)	%						100	103	80-123		20	
Toluene-d8 (S)	%						100	98	80-116		20	

QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

QC Batch:	MSV/24205	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5037756012, 5037756014, 5037756015, 5037756017, 5037756018, 5037756019, 5037756020, 5037756021, 5037756022, 5037756023, 5037756024, 5037756025, 5037756026, 5037756027		

METHOD BLANK: 437665 Matrix: Water

Associated Lab Samples: 5037756012, 5037756014, 5037756015, 5037756017, 5037756018, 5037756019, 5037756020, 5037756021, 5037756022, 5037756023, 5037756024, 5037756025, 5037756026, 5037756027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/27/10 00:54	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/27/10 00:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/27/10 00:54	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/27/10 00:54	
1,1-Dichloroethane	ug/L	ND	5.0	05/27/10 00:54	
1,1-Dichloroethene	ug/L	ND	5.0	05/27/10 00:54	
1,1-Dichloropropene	ug/L	ND	5.0	05/27/10 00:54	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/27/10 00:54	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/27/10 00:54	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/27/10 00:54	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/27/10 00:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/27/10 00:54	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/27/10 00:54	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/27/10 00:54	
1,2-Dichloroethane	ug/L	ND	5.0	05/27/10 00:54	
1,2-Dichloropropane	ug/L	ND	5.0	05/27/10 00:54	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/27/10 00:54	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/27/10 00:54	
1,3-Dichloropropane	ug/L	ND	5.0	05/27/10 00:54	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/27/10 00:54	
2,2-Dichloropropane	ug/L	ND	5.0	05/27/10 00:54	
2-Butanone (MEK)	ug/L	ND	25.0	05/27/10 00:54	
2-Chlorotoluene	ug/L	ND	5.0	05/27/10 00:54	
2-Hexanone	ug/L	ND	25.0	05/27/10 00:54	
4-Chlorotoluene	ug/L	ND	5.0	05/27/10 00:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/27/10 00:54	
Acetone	ug/L	ND	100	05/27/10 00:54	
Acrolein	ug/L	ND	50.0	05/27/10 00:54	
Acrylonitrile	ug/L	ND	100	05/27/10 00:54	
Benzene	ug/L	ND	5.0	05/27/10 00:54	
Bromobenzene	ug/L	ND	5.0	05/27/10 00:54	
Bromochloromethane	ug/L	ND	5.0	05/27/10 00:54	
Bromodichloromethane	ug/L	ND	5.0	05/27/10 00:54	
Bromoform	ug/L	ND	5.0	05/27/10 00:54	
Bromomethane	ug/L	ND	5.0	05/27/10 00:54	
Carbon disulfide	ug/L	ND	10.0	05/27/10 00:54	
Carbon tetrachloride	ug/L	ND	5.0	05/27/10 00:54	
Chlorobenzene	ug/L	ND	5.0	05/27/10 00:54	
Chloroethane	ug/L	ND	5.0	05/27/10 00:54	
Chloroform	ug/L	ND	5.0	05/27/10 00:54	
Chloromethane	ug/L	ND	5.0	05/27/10 00:54	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 65 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 65 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

METHOD BLANK: 437665

Matrix: Water

Associated Lab Samples: 5037756012, 5037756014, 5037756015, 5037756017, 5037756018, 5037756019, 5037756020, 5037756021, 5037756022, 5037756023, 5037756024, 5037756025, 5037756026, 5037756027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/27/10 00:54	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/27/10 00:54	
Dibromochloromethane	ug/L	ND	5.0	05/27/10 00:54	
Dibromomethane	ug/L	ND	5.0	05/27/10 00:54	
Dichlorodifluoromethane	ug/L	ND	5.0	05/27/10 00:54	
Ethyl methacrylate	ug/L	ND	100	05/27/10 00:54	
Ethylbenzene	ug/L	ND	5.0	05/27/10 00:54	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/27/10 00:54	
Iodomethane	ug/L	ND	10.0	05/27/10 00:54	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/27/10 00:54	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/27/10 00:54	
Methylene chloride	ug/L	ND	5.0	05/27/10 00:54	
n-Butylbenzene	ug/L	ND	5.0	05/27/10 00:54	
n-Hexane	ug/L	ND	5.0	05/27/10 00:54	
n-Propylbenzene	ug/L	ND	5.0	05/27/10 00:54	
Naphthalene	ug/L	ND	5.0	05/27/10 00:54	
p-Isopropyltoluene	ug/L	ND	5.0	05/27/10 00:54	
sec-Butylbenzene	ug/L	ND	5.0	05/27/10 00:54	
Styrene	ug/L	ND	5.0	05/27/10 00:54	
tert-Butylbenzene	ug/L	ND	5.0	05/27/10 00:54	
Tetrachloroethene	ug/L	ND	5.0	05/27/10 00:54	
Toluene	ug/L	ND	5.0	05/27/10 00:54	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/27/10 00:54	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/27/10 00:54	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/27/10 00:54	
Trichloroethene	ug/L	ND	5.0	05/27/10 00:54	
Trichlorofluoromethane	ug/L	ND	5.0	05/27/10 00:54	
Vinyl acetate	ug/L	ND	10.0	05/27/10 00:54	
Vinyl chloride	ug/L	ND	2.0	05/27/10 00:54	
Xylene (Total)	ug/L	ND	10.0	05/27/10 00:54	
4-Bromofluorobenzene (S)	%	105	70-126	05/27/10 00:54	
Dibromofluoromethane (S)	%	104	80-123	05/27/10 00:54	
Toluene-d8 (S)	%	104	80-116	05/27/10 00:54	

LABORATORY CONTROL SAMPLE: 437666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.0	110	69-130	
1,1,1-Trichloroethane	ug/L	50	56.3	113	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	53.2	106	69-131	
1,1,2-Trichloroethane	ug/L	50	59.8	120	77-132	
1,1-Dichloroethane	ug/L	50	54.5	109	67-133	
1,1-Dichloroethene	ug/L	50	59.8	120	63-128	
1,1-Dichloropropene	ug/L	50	55.6	111	75-134	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 66 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 66 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

LABORATORY CONTROL SAMPLE: 437666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	58-131	
1,2,3-Trichloropropane	ug/L	100	108	108	60-131	
1,2,4-Trichlorobenzene	ug/L	50	49.8	100	60-130	
1,2,4-Trimethylbenzene	ug/L	50	57.1	114	73-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.8	106	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	55.0	110	75-126	
1,2-Dichlorobenzene	ug/L	50	51.5	103	76-124	
1,2-Dichloroethane	ug/L	50	56.2	112	69-139	
1,2-Dichloropropane	ug/L	50	56.9	114	76-129	
1,3,5-Trimethylbenzene	ug/L	50	49.8	100	74-130	
1,3-Dichlorobenzene	ug/L	50	52.2	104	76-125	
1,3-Dichloropropane	ug/L	50	54.4	109	74-126	
1,4-Dichlorobenzene	ug/L	50	52.0	104	75-122	
2,2-Dichloropropane	ug/L	50	35.1	70	53-144	
2-Butanone (MEK)	ug/L	250	313	125	47-189	
2-Chlorotoluene	ug/L	50	56.4	113	72-128	
2-Hexanone	ug/L	250	288	115	57-167	
4-Chlorotoluene	ug/L	50	46.8	94	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	327	131	61-135	
Acetone	ug/L	250	312	125	30-170	
Acrolein	ug/L	1000	1480	148	30-170	
Acrylonitrile	ug/L	1000	1340	134	67-136	
Benzene	ug/L	50	52.8	106	78-127	
Bromobenzene	ug/L	50	57.4	115	62-139	
Bromochloromethane	ug/L	50	75.5	151	54-162	
Bromodichloromethane	ug/L	50	58.6	117	69-133	
Bromoform	ug/L	50	52.3	105	60-127	
Bromomethane	ug/L	50	40.9	82	30-170	
Carbon disulfide	ug/L	100	143	143	58-152	
Carbon tetrachloride	ug/L	50	56.9	114	62-143	
Chlorobenzene	ug/L	50	50.5	101	75-123	
Chloroethane	ug/L	50	56.6	113	56-153	
Chloroform	ug/L	50	54.5	109	74-131	
Chloromethane	ug/L	50	47.5	95	35-147	
cis-1,2-Dichloroethene	ug/L	50	53.4	107	74-128	
cis-1,3-Dichloropropene	ug/L	50	55.7	111	58-123	
Dibromochloromethane	ug/L	50	60.0	120	66-131	
Dibromomethane	ug/L	50	56.8	114	73-133	
Dichlorodifluoromethane	ug/L	50	63.0	126	30-170	
Ethyl methacrylate	ug/L	200	216	108	59-138	
Ethylbenzene	ug/L	50	49.8	100	81-126	
Hexachloro-1,3-butadiene	ug/L	50	50.0	100	70-130	
Iodomethane	ug/L	100	94.9	95	41-170	
Isopropylbenzene (Cumene)	ug/L	50	49.3	99	80-130	
Methyl-tert-butyl ether	ug/L	100	104	104	66-147	
Methylene chloride	ug/L	50	56.3	113	32-164	
n-Butylbenzene	ug/L	50	54.7	109	68-135	
n-Hexane	ug/L	50	52.6	105	69-157	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 67 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 67 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

LABORATORY CONTROL SAMPLE: 437666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	56.9	114	71-132	
Naphthalene	ug/L	50	54.7	109	61-135	
p-Isopropyltoluene	ug/L	50	51.6	103	66-131	
sec-Butylbenzene	ug/L	50	53.9	108	73-130	
Styrene	ug/L	50	52.7	105	74-128	
tert-Butylbenzene	ug/L	50	37.8	76	63-117	
Tetrachloroethene	ug/L	50	49.3	99	60-119	
Toluene	ug/L	50	50.5	101	75-129	
trans-1,2-Dichloroethene	ug/L	50	59.2	118	71-126	
trans-1,3-Dichloropropene	ug/L	50	51.3	103	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	178	89	47-141	
Trichloroethene	ug/L	50	58.1	116	74-130	
Trichlorofluoromethane	ug/L	50	57.8	116	62-150	
Vinyl acetate	ug/L	200	120	60	41-145	
Vinyl chloride	ug/L	50	59.0	118	55-141	
Xylene (Total)	ug/L	150	159	106	76-132	
4-Bromofluorobenzene (S)	%			104	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			100	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437667

437668

Parameter	Units	5037756012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	53.3	54.1	107	108	55-131	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	54.3	54.9	109	110	64-143	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.6	57.5	111	115	64-142	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	58.1	57.9	116	116	71-143	.4	20	
1,1-Dichloroethane	ug/L	ND	50	50	56.2	55.4	112	111	68-139	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	57.5	57.8	115	116	55-140	.4	20	
1,1-Dichloropropene	ug/L	ND	50	50	53.4	52.9	107	106	66-140	1	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	44.6	46.9	89	94	33-140	5	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	106	109	106	109	58-133	3	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	43.0	45.5	86	91	28-140	5	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	51.2	53.1	102	106	39-146	4	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.1	52.1	98	104	39-140	6	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.3	53.5	105	107	67-134	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	47.6	49.7	95	99	48-137	4	20	
1,2-Dichloroethane	ug/L	ND	50	50	56.6	56.5	113	113	63-148	.2	20	
1,2-Dichloropropane	ug/L	ND	50	50	56.8	57.1	114	114	70-136	.5	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	45.0	47.1	90	94	39-145	5	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	47.6	50.6	95	101	40-143	6	20	
1,3-Dichloropropane	ug/L	ND	50	50	54.0	53.7	108	107	65-133	.6	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.5	49.5	95	99	38-142	4	20	
2,2-Dichloropropane	ug/L	ND	50	50	39.2	37.8	78	76	35-157	3	20	
2-Butanone (MEK)	ug/L	ND	250	250	279	281	112	112	62-132	.7	20	
2-Chlorotoluene	ug/L	ND	50	50	51.5	54.4	103	109	44-143	5	20	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 68 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 68 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437667 437668											
Parameter	Units	5037756012		MS	MSD	MS		MSD	% Rec	Max	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits RPD	
2-Hexanone	ug/L	ND	250	250	272	274	109	110	61-141	.8 20	
4-Chlorotoluene	ug/L	ND	50	50	43.2	44.8	86	90	43-140	4 20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	307	310	123	124	57-135	1 20	
Acetone	ug/L	ND	250	250	293	294	117	117	30-170	.4 20	
Acrolein	ug/L	ND	1000	1000	1290	1200	129	120	30-170	7 20	
Acrylonitrile	ug/L	ND	1000	1000	1290	1290	129	129	66-137	.1 20	
Benzene	ug/L	ND	50	50	52.5	52.7	105	105	63-141	.3 20	
Bromobenzene	ug/L	ND	50	50	54.5	56.4	109	113	57-128	3 20	
Bromochloromethane	ug/L	ND	50	50	78.0	76.7	156	153	65-157	2 20	
Bromodichloromethane	ug/L	ND	50	50	57.6	58.0	115	116	63-135	.8 20	
Bromoform	ug/L	ND	50	50	51.4	51.5	103	103	58-124	.3 20	
Bromomethane	ug/L	ND	50	50	47.1	50.6	94	101	30-170	7 20	
Carbon disulfide	ug/L	ND	100	100	141	141	141	141	46-162	.1 20	
Carbon tetrachloride	ug/L	ND	50	50	52.9	52.8	106	106	54-145	.2 20	
Chlorobenzene	ug/L	ND	50	50	47.8	48.7	96	97	56-133	2 20	
Chloroethane	ug/L	ND	50	50	55.2	54.0	110	108	54-157	2 20	
Chloroform	ug/L	ND	50	50	54.4	53.6	109	107	67-134	1 20	
Chloromethane	ug/L	ND	50	50	47.0	46.5	94	93	36-137	1 20	
cis-1,2-Dichloroethene	ug/L	8.3	50	50	62.1	61.9	108	107	65-132	.3 20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	55.6	56.6	111	113	46-121	2 20	
Dibromochloromethane	ug/L	ND	50	50	57.8	58.3	116	117	64-124	.9 20	
Dibromomethane	ug/L	ND	50	50	56.9	57.5	114	115	67-144	1 20	
Dichlorodifluoromethane	ug/L	ND	50	50	49.1	49.2	98	98	30-163	.2 20	
Ethyl methacrylate	ug/L	ND	200	200	208	210	104	105	52-140	1 20	
Ethylbenzene	ug/L	ND	50	50	45.5	46.3	91	93	44-151	2 20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.3	37.5	73	75	30-145	3 20	
Iodomethane	ug/L	ND	100	100	93.9	106	94	106	28-168	12 20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	43.4	44.7	87	89	40-148	3 20	
Methyl-tert-butyl ether	ug/L	ND	100	100	104	104	104	104	52-156	.5 20	
Methylene chloride	ug/L	ND	50	50	56.5	55.1	113	110	46-154	3 20	
n-Butylbenzene	ug/L	ND	50	50	44.1	45.9	88	92	27-153	4 20	
n-Hexane	ug/L	ND	50	50	42.8	41.7	86	83	32-176	3 20	
n-Propylbenzene	ug/L	ND	50	50	49.4	51.6	99	103	40-148	4 20	
Naphthalene	ug/L	ND	50	50	48.9	52.0	98	104	44-138	6 20	
p-Isopropyltoluene	ug/L	ND	50	50	43.4	45.5	87	91	34-146	5 20	
sec-Butylbenzene	ug/L	ND	50	50	44.5	46.9	89	94	38-150	5 20	
Styrene	ug/L	ND	50	50	49.6	50.3	99	101	38-141	2 20	
tert-Butylbenzene	ug/L	ND	50	50	37.6	34.4	75	69	32-133	9 20	
Tetrachloroethene	ug/L	ND	50	50	43.2	43.5	86	87	25-146	.9 20	
Toluene	ug/L	ND	50	50	48.2	48.9	96	98	59-142	2 20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	59.2	59.3	116	116	60-137	.3 20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	50.4	51.4	101	103	43-117	2 20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	174	177	87	88	44-139	1 20	
Trichloroethene	ug/L	112	50	50	157	164	90	105	61-137	5 20	
Trichlorofluoromethane	ug/L	ND	50	50	52.8	52.6	106	105	53-162	.3 20	
Vinyl acetate	ug/L	ND	200	200	138	112	69	56	24-132	21 20 R1	
Vinyl chloride	ug/L	ND	50	50	57.7	57.4	115	115	51-144	.6 20	

Date: 06/03/2010 05:22 PM

REPORT OF LABORATORY ANALYSIS

Page 69 of 72

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PAGE 69 of 513



QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437667 437668												
Parameter	Units	5037756012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Xylene (Total)	ug/L	ND	150	150	146	151	97	101	44-152	4	20	
4-Bromofluorobenzene (S)	%						102	103	70-126		20	
Dibromofluoromethane (S)	%						104	103	80-123		20	
Toluene-d8 (S)	%						100	99	80-116		20	

QUALITY CONTROL DATA

Project: Genuine Parts/2829E-2010 O@M
Pace Project No.: 5037756

QC Batch:	WETA/13084	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	5037756018, 5037756019		

METHOD BLANK:	651654	Matrix:	Water
Associated Lab Samples:	5037756018, 5037756019		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/01/10 09:21	

LABORATORY CONTROL SAMPLE: 651655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.4	89	80-120	

MATRIX SPIKE SAMPLE: 651656

Parameter	Units	5037756018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	6.0	110	80-120	

SAMPLE DUPLICATE: 651657

Parameter	Units	5037756019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	.73J		25	

QUALIFIERS

Project: Genuine Parts/2829E-2010 O@M

Pace Project No.: 5037756

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.



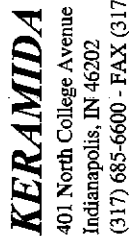
KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

COC# 6627

5037756

Project No.	Project Name	Report to:	Client	Sampled By:	Sample ID/Description	Date	Time	# and Type of Containers						Other	Analyses	MATRIX	QA/QC Level	Detection Level	Comments				
								Comp	Grab	HCl	NaOH	HNO ₃	H ₂ SO ₄							Unpreserved			
2829E	G.P.	ROB Fodorchak	(Signature)			5-19	1030	X	3							GW	IV	PSC	2829E001				
							1100	X	3										002				
							1130	X	3										003				
								X	3										004				
							1200	X	3										005				
							1330	X	3										006				
							1300	X	3										007				
							1400	X	3										008				
							1430	X	3										009				
							900	X	3										010				
							930	X	3										011				
							1000	X	3										012				
							1030	X	9										MS/MSD				
Relinquished by: (Signature)						Received by: (Signature)						Relinquished by: (Signature)						Received by: (Signature)					
Relinquished by: (Signature)						Received by: (Signature)						Relinquished by: (Signature)						Received by: (Signature)					
Remarks:																							
1) No method substitution will be performed by the laboratory without KERAMIDA's authorization 2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question 3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately 4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately																							
Sample Condition: Bottle Intact? Yes/No Field Filtered? Yes/No VOC Seals Present & Intact? Yes/No VOC Free of Headspace? Yes/No VOC Preserved? Yes/No Temperature upon Receipt: 4.3°C, 2.0°C																							

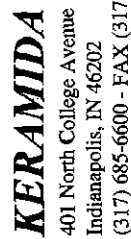


CHAIN OF CUSTODY RECORD

COC# 6628

037750

Project No.	Project Name	Report to:	Client	Sampled By:	Sample ID/Description	Date	Time	Comp	Grab	HCl	NaOH	HNO ₃	H ₂ SO ₄	Unpreserved	Other	Analyses										MATRIX	QA/QC Level	Detection Level	Comments
				Samplers: (signature)	# and Type of Containers																								
2829-E	G.P.	Rob Fedorchak			MW-302	5-20	1100			3												IV	RISC	2829E-001					
					MW-133-R		1130			3												II							
					MW-152		1200			3												IV							
					MW-146		1230			3												IV							
					MW-10-1R		1300			9												IV							
					MW-150		1330			3												IV							
					MW-IW-2		1400			3												II		2829E-003					
					MW-IW-1		1500			3												II							
					MW-163		1530			3												II							
					MW-173		1600			3												II							
					MW-156		1700			3												IV		2829E-001					
					MW-151	5-21	900			3												IV							
					MW-157		930			3												IV							
Relinquished by: Sign/Date/Time						Received by: Sign/Date/Time						Relinquished by: Sign/Date/Time										Received for Lab: Sign/Date/Time							
5/21/10						5/21/10																K. Cool Gub 5/21/10							
Relinquished by: Sign/Date/Time						Received by: Sign/Date/Time						Relinquished by: Sign/Date/Time										Received for Lab: Sign/Date/Time							
Remarks: 1) No method substitution will be performed by the laboratory without KERAMIDA's authorization 2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question 3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately 4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately																													
WI Client delu																													



CHAIN OF CUSTODY RECORD

COC# 6629

6037750

[illegible]

Sample Condition Upon Receipt

Face Analytical

Client Name: Hermeda

Project # 5037756

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other foam

Thermometer Used 123956

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 4.3°C, 2.0°C

Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: DR 5/21/10

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	5.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	6.
Containers Intact:	☒ Yes ☐ No ☐ N/A	7.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	8.
-Includes date/time/ID/Analysis		
All containers needing preservation have been pH checked?	☒ Yes ☐ No ☐ N/A	9.
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)		
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
Headspace in VOA Vials (>6mm):	☒ Yes ☐ No ☐ N/A	10. <u>The following vials have headspace</u>
Trip Blank Present:	☐ Yes ☐ No ☐ N/A	11. <u>2 vials of MW 1675, 3 vials of MW 1650</u>
Trip Blank Custody Seals Present	☐ Yes ☐ No ☐ N/A	<u>DR 5/21/10</u>
Project Manager Review		
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	12.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	13.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: The following vials with TB1: FW1, 163, 173, 156, 151, 157, 164, 160, 161, Eg Blank, all the rest of samples came with 6 TB#2
DR 5/21/10

Project Manager Review:

J. Sayer

Date: 5/21/10

Sample Container Count

CLIENT: Peramada

COC PAGE 1 of 3

COC ID# 4627

Project # 5037756



Sample Line

Item	DG9H	AG1U	WGFR	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3												
2	3												
3	3												
4	3												
5	3												
6	3												
7	3												
8	3												
9	3												
10	3												
11	3												
12	3												
13	9												

Container Codes

Item	DG9H	40mL HCL	amber vial	AF	Air Filter	BP1N	1 liter HNO3	plastic	DG9P	40mL TSP	amber vial
AG1U	1 liter	unpreserved	amber glass	AG1H	1 liter HCL	amber glass	BP1S	1 liter H2SO4	plastic	DG9S	40mL H2SO4
WGFR	4oz	clear	soil jar	AG1S	1 liter H2SO4	amber glass	BP1U	1 liter unpreserved	plastic	DG9T	40mL Na Thio
R	terra	core	kit	AG1T	1 liter Na Thiosulfate	amber gl	BP1Z	1 liter NaOH, Zn, Ac		DG9U	40mL unpreserved
BP2N	500mL	HNO3	plastic	AG2N	500mL HNO3	amber glass	BP2A	500mL NaOH, Asc	Acid plastic	I	Wipe/Swab
BP2U	500mL	unpreserved	plastic	AG2S	500mL H2SO4	amber glass	BP2O	500mL NaOH	plastic	JGFU	4oz unpreserved
BP2S	500mL	H2SO4	plastic	AG2U	500mL unpreserved	amber gla	BP2Z	500mL NaOH, Zn	Ac	U	Summa Can
BP3N	250mL	HNO3	plastic	AG3U	250mL unpreserved	amber gla	BP3A	250mL NaOH, Asc	Acid plastic	VG9H	40mL HCL
BP3U	250mL	unpreserved	plastic	BG1H	1 liter HCL	clear glass	BP3C	250mL NaOH	plastic	VG9T	40mL Na Thio
BP3S	250mL	H2SO4	plastic	BG1S	1 liter H2SO4	clear glass	BP3Z	250mL NaOH, Zn	Ac plastic	VG9U	40mL unpreserved
AG3S	250mL	H2SO4	glass	BG1T	1 liter Na Thiosulfate	clear gla	C	Air Cassettes		VSG	Headspace septa
AG1S	1 liter	H2SO4	amber glass	BG1U	1 liter unpreserved	glass	DG9B	40mL Na Bisulfate	amber vial	WGFX	4oz wide jar
BP1U	1 liter	unpreserved	plastic	BP1A	1 liter NaOH, Asc	Acid plastic	DG9M	40mL MeOH	clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Kecanada

COC PAGE 2 of 3

COC ID# 6638

Project # 237756



Sample Line

Item	DG9H	AG1U	WGFU	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3													
2	3													
3	3													
4	3													
5	9													
6	3													
7	3													
8	3													
9	3													
10	3													
11	3													
12	3													
13	3													

Container Codes

Item	DG9H	40mL HCL	amber vial	AF	Air Filter	BP1N	1 liter HNO3	plastic	DG9P	40mL TSP	amber vial
AG1U	1 liter	unpreserved	amber glass	AG1H	1 liter HCL	BP1S	1 liter	H2SO4 plastic	DG9S	40mL	H2SO4 amber vial
WG9U	4oz	clear	soil jar	AG1S	1 liter H2SO4	BP1U	1 liter	unpreserved plastic	DG9T	40mL	Na Thio amber vial
R	terra	core kit		AG1T	1 liter Na Thiosulfate	BP1Z	1 liter	NaOH, Zn, Ac	DG9U	40mL	unpreserved amber vial
BP2N	500mL	HNO3	plastic	AG2N	500mL HNO3	BP2A	500mL	NaOH, Asc Acid plastic	I	Wipe/Swab	
BP2U	500mL	unpreserved	plastic	AG2S	500mL H2SO4	BP2O	500mL	NaOH plastic	JGFU	4oz	unpreserved amber wide
BP2S	500mL	H2SO4	plastic	AG2U	500mL unpreserved	BP2Z	500mL	NaOH, Zn Ac	U	Summa Can	
BP3N	250mL	HNO3	plastic	AG3U	250mL unpreserved	BP3A	250mL	NaOH, Asc Acid plastic	VG9H	40mL	HCL clear vial
BP3U	250mL	unpreserved	plastic	BG1H	1 liter HCL	BP3C	250mL	NaOH plastic	VG9T	40mL	Na Thio, clear vial
BP3S	250mL	H2SO4	plastic	BG1S	1 liter H2SO4	BP3Z	250mL	NaOH, Zn Ac plastic	VG9U	40mL	unpreserved clear vial
AG3S	250mL	H2SO4	glass	BG1T	1 liter Na Thiosulfate	C	Air	Cassettes	VSG	Headspace	septa vial & HCL
AG1S	1 liter	H2SO4	amber glass	BG1U	1 liter unpreserved	DG9B	40mL	Na Bisulfate	WGFX	4oz	wide jar w/hexane wipe
BP1U	1 liter	unpreserved	plastic	BP1A	1 liter NaOH, Asc Acid	DG9M	40mL	MeOH clear vial	ZPLC	Ziploc	Bag

Sample Container Count

CLIENT: Veranda

COC PAGE 3 of 3

COC ID# 4429

Project # 5037756



Sample Line

Item	DG9H	AG1U	WG9U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3												
2	3												
3	3												
4	3												
5	3												
6	3												
7	9												
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG9U	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag



VOA 8260B GC/MS Volatiles

Project Number 5037756

Initials/ Date Compiled AF 5-28-10

Section 1: Prep and Analytical Information

- * *Sample Preparation Logs*
- * *Sample Analysis Logs*
- * *QC Summary Sheets*

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i

Column DB-624 20m X 0.18mm Helium

Method:

Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection

ISTD lot:

Surr. lot:

Tune std: _____

Cal std: 5/5-20-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/A00BFB.D	bfb 34B-006	L/	BFB	1	-BFB390	5/19/10	09:36	jlf	open defaults ↑
1/A01CCV.D	ccv 34A-448/B-002	L/	CCALIB_5	1	-8260-c1	5/19/10	10:10	jlf	
1/A02LCS.D	lcs 34B-009	L/	LCS	1	-8260-c1	5/19/10	10:44	jlf	
1/A03MB.D	mb 34B-008	L/	BLANK	1	-8260-c1	5/19/10	11:17	jlf	
1/A04-1CAL.D	0.5ppb 34B-026/029	L/	CALIB_1	1	-8260-c1	5/19/10	12:38	jlf	NEW MIXES - (LEAD) (COPPER)
1/A05-2CAL.D	1ppb	L/	CALIB_2	1	-8260-c1	5/19/10	13:12	jlf	
1/A06-3CAL.D	5ppb	L/	CALIB_3	1	-8260-c1	5/19/10	13:46	jlf	
1/A07-4CAL.D	10ppb	L/	CALIB_4	1	-8260-c1	5/19/10	14:19	jlf	
1/A08-5CAL-CCV.D	50ppb	L/	CCALIB_5	1	-8260-c1	5/19/10	14:53	jlf	MIX PLAS CCV F/L
1/A08-5CAL.D	50ppb	L/	CALIB_5	1	-8260-c1	5/19/10	14:53	jlf	
1/A09-6CAL.D	100ppb	L/	CALIB_6	1	-8260-c1	5/19/10	15:27	jlf	
1/A10-7CAL.D	200ppb	L/	CALIB_7	1	-8260-c1	5/19/10	16:01	jlf	
1/A11-8CAL.D	300ppb	L/	CALIB_8	1	-8260-c1	5/19/10	16:35	jlf	
1/A12ICV.D	icv 34B-009	L/	ICV	1	-8260-c1	5/19/10	17:09	jlf	F/L
1/A13MB.D	mb 34B-008	L/	BLANK	1	-8260-c1	5/19/10	17:43	jlf	
1/A14.D	5037453007 ✓	L/24004	SAMPLE	50	-8260-c1	5/19/10	18:17	jlf	↓ RPT BENZENE
1/A15.D	5037453010 ✓	L/24004	SAMPLE	20	-8260-c1	5/19/10	18:51	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\A051910.b

Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Report Date: 11:52 05/20/2010

Page: 1

All water samples
have a pH below 2
unless otherwise noted

PAGE 81 of 513

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection
ISTD lot: Surr. lot:
Tune std: Cal. std: 527-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/A00BFB.D	bfb 34B-006	L/	BFB	1	-BFB390	5/26/10	11:09	jlf	F/L
1/A01CCV.D	ccv 34B-026/029	L/	CCALIB_5	1	-8260-cl	5/26/10	11:43	jlf	
1/A02LCS.D	lcs 34B-009	L/	LCS	1	-8260-cl	5/26/10	12:17	jlf	
1/A03MB.D	mb 34B-008	L/	BLANK	1	-8260-cl	5/26/10	12:52	jlf	
1/A04.D	r5037766005-lv14	L/24154	SAMPLE	5	-8260-cl	5/26/10	13:27	jlf	1014 BTE
1/A05.D	r5037766006	L/	SAMPLE	5	-8260-cl	5/26/10	14:01	jlf	1014 B
1/A06.D	5037756003-lv14	L/24204	SAMPLE	1	-8260-cl	5/26/10	14:35	jlf	↑ 12DOE 2210X
1/A07.D	5037756008	L/	SAMPLE	1	-8260-cl	5/26/10	15:10	jlf	↑ 12DOE 2210X
1/A08.D	5037756011	L/	SAMPLE	1	-8260-cl	5/26/10	15:44	jlf	
1/A09.D	5037756016	L/	SAMPLE	1	-8260-cl	5/26/10	16:19	jlf	
1/A10.D	ms5037756016	L/	MS	1	-8260-cl	5/26/10	16:53	jlf	
1/A11.D	msd5037756016	L/	MSD	1	-8260-cl	5/26/10	17:28	jlf	
1/A12.D	5037756001	L/	SAMPLE	1	-8260-cl	5/26/10	18:02	jlf	
1/A13.D	5037756002	L/	SAMPLE	1	-8260-cl	5/26/10	18:37	jlf	
1/A14.D	5037756004	L/	SAMPLE	1	-8260-cl	5/26/10	19:11	jlf	↑ 12DOE 2254
1/A15.D	5037756005	L/	SAMPLE	1	-8260-cl	5/26/10	19:46	jlf	CO 12DOE? 221x
1/A16.D	5037756006	L/	SAMPLE	1	-8260-cl	5/26/10	20:20	jlf	
1/A17.D	5037756007ha	L/	SAMPLE	1	-8260-cl	5/26/10	20:55	jlf	
1/A18.D	5037756009	L/	SAMPLE	1	-8260-cl	5/26/10	21:29	jlf	
1/A19.D	5037756010	L/	SAMPLE	1	-8260-cl	5/26/10	22:03	jlf	
1/A20.D	5037756013	L/	SAMPLE	1	-8260-cl	5/26/10	22:38	jlf	
1/C00BFB.D	bfb 34B-006	L/	BFB	1	-BFB390	5/26/10	23:12	jlf	F/L
1/C01CCV.D	ccv	L/	CCALIB_5	1	-8260-cl	5/26/10	23:46	jlf	
1/C02LCS.D	lcs	L/	LCS	1	-8260-cl	5/27/10	00:20	jlf	
1/C03MB.D	mb	L/	BLANK	1	-8260-cl	5/27/10	00:54	jlf	
1/C04.D	5037756012	L/24205	SAMPLE	1	-8260-cl	5/27/10	01:28	jlf	1014
1/C05.D	ms5037756012	L/	MS	1	-8260-cl	5/27/10	02:02	jlf	
1/C06.D	msd5037756012	L/	MSD	1	-8260-cl	5/27/10	02:36	jlf	
1/C07.D	5037756015	L/	SAMPLE	1	-8260-cl	5/27/10	03:11	jlf	
1/C08.D	5037756017	L/	SAMPLE	1	-8260-cl	5/27/10	03:45	jlf	
1/C09.D	5037756018	L/	SAMPLE	1	-8260-cl	5/27/10	04:19	jlf	
1/C10.D	5037756019	L/	SAMPLE	1	-8260-cl	5/27/10	04:53	jlf	
1/C11.D	5037756020	L/	SAMPLE	1	-8260-cl	5/27/10	05:27	jlf	
1/C12.D	5037756021	L/	SAMPLE	1	-8260-cl	5/27/10	06:01	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\5052610.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:58 05/27/2010

Page: 1

All water samples
have a pH below 2
unless otherwise noted

PAGE 82 of 513

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i

Column DB-624 20m X 0.18mm Helium

Method:

Misc. Prep Info [L]: If pH = 0 , then analysis w/i 7 days of collection

ISTD lot:

Surr. lot:

Tune std: _____

Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/C13.D	5037756022	L/Q4205	SAMPLE	1	-8260-c1	5/27/10	06:34	jlf	
1/C14.D	5037756023	L/	SAMPLE	1	-8260-c1	5/27/10	07:08	jlf	
1/C15.D	5037756024	L/	SAMPLE	1	-8260-c1	5/27/10	07:42	jlf	
1/C16.D	5037756025	L/	SAMPLE	1	-8260-c1	5/27/10	08:16	jlf	
1/C17.D	5037756026	L/	SAMPLE	1	-8260-c1	5/27/10	08:51	jlf	
1/C18.D	5037756027	L/	SAMPLE	1	-8260-c1	5/27/10	09:25	jlf	
1/C19.D	5037756014	L/	SAMPLE	1	-8260-c1	5/27/10	09:59	jlf	
1/C20.D	5037895001	L/	SAMPLE	1	-8260-c1	5/27/10	10:33	jlf	APCE PL 20X (VAP)

File Path 1: \\50wintarget\chem\50MSV2.i\A052610.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:58 05/27/2010

Page: 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV2.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]: If pH = 0, then analysis w/i 7 days of collection
ISTD lot:
Tune std: _____

Method:
Surr. lot:
Cal. std: 5-28-10

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/A00BFB.D	bfb 34B-006	L/	BFB	1	-BFB390	5/27/10	11:28	jlf	
1/A01CCV.D	ccv 34B-040/029	L/	CCALIB_5	1	-8260-c1	5/27/10	12:02	jlf	F/L
1/A02LCS.D	lcs 34B-009	L/	LCS	1	-8260-c1	5/27/10	12:36	jlf	
1/A03MB.D	mb 34B-008	L/	BLANK	1	-8260-c1	5/27/10	13:11	jlf	
1/A04CCV.D	ccv-624	L/	CCV	1	-8260-c1	5/27/10	13:45	jlf	F/L TO CEVE - PH 12 F/L MS CLIP
1/A05LCS.D	lcs-624	L/	LCS	1	-8260-c1	5/27/10	14:20	jlf	
1/A06MB.D	mb-624	L/	BLANK	1	-8260-c1	5/27/10	14:54	jlf	
1/A07.D	5037895001 ✓	L/24205	SAMPLE	20	-8260-c1	5/27/10	15:28	jlf	1st 1st 1st
1/A08.D	r5037756003-1v14 ✓	L/24204	SAMPLE	10	-8260-c1	5/27/10	16:03	jlf	1st 1st 1st
1/A09.D	r5037756008 ✓	L/	SAMPLE	10	-8260-c1	5/27/10	16:37	jlf	1st 1st 1st
1/A10.D	r5037756004 ✓	L/	SAMPLE	5	-8260-c1	5/27/10	17:11	jlf	1st 1st 1st
1/A11.D	r5037756005 ✓	L/	SAMPLE	1	-8260-c1	5/27/10	17:46	jlf	1st 1st 1st
1/A12.D	5037771008	L/24205	SAMPLE	1	-8260-c1	5/27/10	18:20	jlf	
1/A13.D	5037771003	L/	SAMPLE	1	-8260-c1	5/27/10	18:54	jlf	
1/A14.D	5037771006	L/	SAMPLE	1	-8260-c1	5/27/10	19:29	jlf	
1/A15.D	5037771007	L/	SAMPLE	1	-8260-c1	5/27/10	20:03	jlf	
1/A16.D	5037771002	L/	SAMPLE	10	-8260-c1	5/27/10	20:36	jlf	Cut dilution
1/A17.D	5037771005	L/	SAMPLE	5	-8260-c1	5/27/10	21:11	jlf	
1/A18.D	5037771004	L/	SAMPLE	10	-8260-c1	5/27/10	21:45	jlf	
1/A19.D	5037771001	L/	SAMPLE	50	-8260-c1	5/27/10	22:19	jlf	
1/A20.D	r5037771001	L/	SAMPLE	500	-8260-c1	5/27/10	22:53	jlf	OD. ↓
1/A21.D	r5037771001	L/	SAMPLE	5000	-8260-c1	5/27/10	23:27	jlf	OD. ↓
1/C00BFB.D	bfb 34B-006	L/	BFB	1	-BFB390	5/28/10	00:01	jlf	
1/C01CCV.D	ccv	L/	CCALIB_5	1	-8260-c1	5/28/10	00:34	jlf	F/L
1/C02LCS.D	lcs	L/	LCS	1	-8260-c1	5/28/10	01:08	jlf	
1/C03MB.D	mb	L/	BLANK	1	-8260-c1	5/28/10	01:42	jlf	
1/C04.D	5037764001	L/24246	SAMPLE	1	-8260-c1	5/28/10	02:16	jlf	
1/C05.D	5037764002	L/	SAMPLE	1	-8260-c1	5/28/10	02:50	jlf	
1/C06.D	5037764003	L/	SAMPLE	1	-8260-c1	5/28/10	03:23	jlf	
1/C07.D	ms5037764003	L/	MS	1	-8260-c1	5/28/10	03:57	jlf	
1/C08.D	msd5037764003	L/	MSD	1	-8260-c1	5/28/10	04:32	jlf	
1/C09.D	5037764004	L/	SAMPLE	1	-8260-c1	5/28/10	05:06	jlf	
1/C10.D	5037764005	L/	SAMPLE	1	-8260-c1	5/28/10	05:40	jlf	
1/C11.D	5037764006	L/	SAMPLE	1	-8260-c1	5/28/10	06:14	jlf	

File Path 1: \\50wintarget\chem\50MSV2.i\A052710.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:44 05/28/2010

Page: 1

All water samples
have a pH below 2
unless otherwise noted

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Lab File ID (Standard): A01CCV Date Analyzed: 05/26/10
 Instrument ID: 50MSV2 Time Analyzed: 1143
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	340382	7.32	151395	9.06	461579	4.03
UPPER LIMIT	680764	7.82	302790	9.56	923158	4.53
LOWER LIMIT	170191	6.82	75698	8.56	230790	3.53
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 LCS	349568	7.32	154631	9.06	466059	4.03
02 MB	339499	7.32	154874	9.06	466230	4.03
03 5037766005	341999	7.32	158725	9.07	451821	4.03
04 5037766006	350382	7.32	158507	9.06	467259	4.03
05 5037756003	340590	7.32	154890	9.06	465149	4.03
06 5037756008	345257	7.32	153849	9.06	467378	4.04
07 5037756011	346003	7.32	154988	9.07	464468	4.03
08 5037756016	344229	7.32	158179	9.07	472093	4.04
09 MS5037756016	344694	7.32	154285	9.07	462039	4.03
10 MSD503775601	344658	7.32	150663	9.07	456260	4.04
11 5037756001	345870	7.32	157552	9.07	473395	4.04
12 5037756002	353443	7.32	159579	9.07	478838	4.04
13 5037756004	342002	7.32	154233	9.07	463937	4.04
14 5037756005	340776	7.32	153241	9.07	465221	4.04
15 5037756006	351549	7.32	159094	9.07	474160	4.04
16 5037756007	345435	7.32	154734	9.07	464732	4.04
17 5037756009	341776	7.32	154228	9.07	465877	4.04
18 5037756010	340960	7.32	153288	9.07	468808	4.04
19 5037756013	336335	7.32	151531	9.07	458015	4.04
20						
21						
22						

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Lab File ID (Standard): C01CCV Date Analyzed: 05/26/10
 Instrument ID: 50MSV2 Time Analyzed: 2346
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	337893	7.33	147661	9.07	456732	4.04
UPPER LIMIT	675786	7.83	295322	9.57	913464	4.54
LOWER LIMIT	168947	6.83	73831	8.57	228366	3.54
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 LCS	331307	7.33	146994	9.07	441090	4.04
02 MB	324199	7.33	149745	9.07	439442	4.05
03 5037756012	334323	7.32	147999	9.07	455733	4.05
04 MS5037756012	330789	7.33	145577	9.07	433417	4.05
05 MSD503775601	319864	7.33	138851	9.07	422544	4.05
06 5037756015	326744	7.33	145672	9.08	435994	4.05
07 5037756017	322208	7.33	144139	9.07	440819	4.06
08 5037756018	318994	7.33	141870	9.08	437083	4.05
09 5037756019	322042	7.33	142790	9.07	442448	4.05
10 5037756020	318511	7.33	139210	9.07	427776	4.05
11 5037756021	326686	7.33	144152	9.07	446153	4.05
12 5037756022	321758	7.33	141713	9.08	440804	4.05
13 5037756023	324191	7.33	145375	9.07	445780	4.05
14 5037756024	331191	7.32	146147	9.07	443283	4.05
15 5037756025	326772	7.33	144389	9.07	446702	4.05
16 5037756026	331727	7.33	149049	9.07	452206	4.05
17 5037756027	340354	7.32	150688	9.07	471323	4.05
18 5037756014	338970	7.33	151145	9.07	462869	4.05
19 5037895001	336155	7.32	153850	9.07	467518	4.04
20						
21						
22						

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052710.B
 Lab File ID (Standard): A01CCV Date Analyzed: 05/27/10
 Instrument ID: 50MSV2 Time Analyzed: 1202
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	349045	7.32	153436	9.07	474775	4.04
UPPER LIMIT	698090	7.82	306872	9.57	949550	4.54
LOWER LIMIT	174523	6.82	76718	8.57	237388	3.54
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 LCS	353824	7.32	157701	9.07	478332	4.04
02 MB	342696	7.32	155104	9.07	465417	4.04
03 CCV	329311	7.32	149853	9.07	448051	4.04
04 LCS	315270	7.34	145299	9.09	418835	4.06
05 MB	183446	7.37	76762	9.11	259891	4.11
06 5037895001	134980*	7.39	52109*	9.12	201946*	4.14
07 5037756003	240513	7.39	102286	9.13	339328	4.15
08 5037756008	283007	7.40	126418	9.14	388400	4.16
09 5037756004	301582	7.40	137221	9.14	412873	4.16
10 5037756005	313314	7.41	141494	9.14	417757	4.17
11 5037771008	313411	7.41	142353	9.15	418589	4.17
12 5037771003	311363	7.41	143777	9.14	419033	4.18
13 5037771006	306736	7.41	141901	9.15	405556	4.18
14 5037771007	311144	7.41	141590	9.15	412798	4.18
15 5037771002	315787	7.39	143611	9.13	419971	4.15
16 5037771005	311487	7.38	141854	9.13	422414	4.12
17 5037771004	320082	7.36	145746	9.10	428723	4.11
18 5037771001	324144	7.36	149418	9.11	427649	4.10
19 5037771001	333715	7.35	151442	9.10	441693	4.10
20 5037771001	322252	7.35	148058	9.09	437245	4.09
21						
22						

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOA 8260B

GC/MS Volatiles

Section 2: Initial Calibration Data

** Initial Calibration Summary Table*

** BFB Tune Information*

** Initial Calibration Standards*

** ICV Standard*

**Initial Calibrations included:
(Instrument name and calibration date)**

ICAL 1: SD MV-2 C-1 5-18-10

ICAL 2: _____

ICAL 3: _____

ICAL 4: _____

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\A04-1CAL.D
 Last Edit : 20-May-2010 11:46 50MSV2.i

Calibration File Names:

Level 1: \\50wintarget\chem\50MSV2.i\A051910.b\A04-1CAL.D
 Level 2: \\50wintarget\chem\50MSV2.i\A051910.b\A05-2CAL.D
 Level 3: \\50wintarget\chem\50MSV2.i\A051910.b\A06-3CAL.D
 Level 4: \\50wintarget\chem\50MSV2.i\A051910.b\A07-4CAL.D
 Level 5: \\50wintarget\chem\50MSV2.i\A051910.b\A08-5CAL.D
 Level 6: \\50wintarget\chem\50MSV2.i\A051910.b\A09-6CAL.D
 Level 7: \\50wintarget\chem\50MSV2.i\A051910.b\A10-7CAL.D
 Level 8: \\50wintarget\chem\50MSV2.i\A051910.b\A11-8CAL.D

All $\leq 30\%$ RSD

8/5-20-10

Compound	0.5000000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
1 Dichlorodifluoromethane	0.40276 0.54218	0.41069 0.48414	0.43370	0.51834	0.56135	0.51334	AVRG			0.48331		12.58755
2 Chloromethane	0.50372 0.50005	0.41986 0.47950	0.39087	0.45178	0.46390	0.43417	AVRG			0.45548		8.65225
3 Vinyl Chloride	0.39218 0.40262	0.29768 0.37296	0.33581	0.40744	0.41977	0.37918	AVRG			0.37571		10.93125

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.1\ao51910.b\ -8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.1

Compound	0.500000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	M1	M2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
4 Bromomethane	5364	4472	12294	25294	94291	++++						
	++++	++++										
5 Chloroethane	266	605	5384	12214	59730	111288						
	219380	310639										
6 Trichlorofluoromethane	0.50181	0.49849	0.46365	0.54730	0.54783	0.45659						
	++++	++++										
28 1,2-dichlorotrifluoroethane	0.44319	0.37379	0.41255	0.43930	0.40876	0.35503						
	0.36016	0.27689										
7 Diethyl ether	++++	0.11956	0.16852	0.17040	0.15386	0.13737						
	0.14278	0.11478										
17 tert-Butyl Alcohol	++++	0.02555	0.03204	0.03548	0.03417	0.03037						
	0.03248	0.03540										
8 Acrolein	0.04683	0.04773	0.04274	0.04787	0.04866	0.04240						
	0.04286	0.03593										

6.5 → 10

6.5 → 10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:47 50MSV2.1

Compound	0.5000000	1.0000	5.0009	10.0006	50.0000	100.0000	Curve	b	Coefficients	MS1	MS2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
10 1,1,2-trichlorotrifluoroethane	0.32234	0.32601	0.31743	0.35145	0.33053	0.29392	AVG		0.31736			7.87530
	0.30147	0.27573										
9 1,1-Dichloroethene	0.26540	0.33771	0.27700	0.29531	0.28085	0.24546	AVG		0.27379			11.92027
	0.25513	0.23346										
11 Acetone	4981	7751	27312	47331	192854	329044	LINR	-0.64633	0.06412			0.99319
	597338	804695										
12 Iodomethane	3018	4262	17313	40775	282841	639486	LINR	0.10059	0.36719			0.99589
	1315915	1820974										
13 Carbon Disulfide	13704	18351	68257	139292	616348	1109474	LINR	-0.14276	0.56856			0.99726
	2046940	2881392										
14 allyl chloride	6343	9746	48650	96197	404768	711123	LINR	-0.16205	0.35154			0.99482
	1177571	++++										
145 Acetonitrile	6343	9746	48650	96197	404768	711123	LINR	-1.62048	0.03515			0.99482
	1177571	++++										

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\8260-Cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.5000000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2
	Level 7	Level 8								
138 Methyl Acetate	4981	7751	27312	47331	192854	329044	LINR	-0.12927	0.32060	0.99319
	597338	804695								
15 Methylene Chloride	6824	8155	19505	34888	134033	244522	LINR	-0.08976	0.25267	0.99797
	456126	645144								
16 Acrylonitrile	15695	27506	144717	266912	1119888	1906848	LINR	-3.14008	0.08601	0.99090
	3164281	4323805								
19 Methyl-tert-butyl ether	0.85103	0.86468	0.89826	0.87810	0.78157	0.65997	AVRG		0.79512	13.63098
	0.63220	++++								
18 1,2-Dichloroethane (trans)	443	2983	15046	29012	127366	243051	LINR	0.00393	0.27645	0.99958
	469587	713243								
20 n-Hexane	++++	0.40202	0.37315	0.39842	0.39684	0.35714	AVRG		0.37194	7.92989
	0.35330	0.32269								
21 1,1-Dichloroethane	++++	0.56281	0.60479	0.61814	0.58016	0.51340	AVRG		0.55078	10.10679
	0.50895	0.46722								

(05-400)

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.1\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.1

Compound	0.5000000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
	Level 7	Level 8										
23 Vinyl Acetate	17081	31739	170612	322134	1390687	2380560	LINE	-0.63883	0.52904			0.98917
	3914703	5288034										
140 Ethyl acetate	++++	0.02002	0.02958	0.03012	0.02866	0.02549	AVRG		0.02645			13.11459
	0.02619	0.02512										
147 Chloroprene	++++	0.47793	0.50788	0.57189	0.51493	0.45882	AVRG		0.48217			11.51488
	0.44277	0.40095										
24 2,2-Dichloropropane	++++	0.54073	0.51433	0.52075	0.49893	0.43706	AVRG		0.47606			11.79628
	0.42733	0.39325										
25 1,2-Dichloroethene (cis)	0.49419	0.37037	0.35602	0.36769	0.36684	0.32772	AVRG		0.36802			14.73894
	0.33804	0.32328										
26 2-Butanone	++++	9897	49982	95128	411891	711514	LINE	-0.64848	0.13791			0.99696
	1230168	1774629										
27 Propionitrile	++++	++++	0.04483	0.05176	0.05795	0.05433	AVRG		0.05274			8.64990
	0.05587	0.05169										

Face Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\ao51910.b\ -8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.5000000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients		%RSD of R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			M1	M2	
29 Bromochloromethane	200.0000 Level 7	300.0000 Level 8									
	++++	2863	16066	28366	128809	230260	LINE	-0.15319	0.21264		0.99279 <-
	393074	537116									
146 Methacrylonitrile	++++	285	11283	20252	108410	190205	LINE	-0.36947	0.03873		0.99741 <-
	344111	493511									
31 Chloroform	0.62563	0.48438	0.57437	0.60706	0.57867	0.51626	AVRG		0.54825		10.10845
	0.51794	0.48173									
33 1,1,1-Trichloroethane	++++	0.45817	0.51362	0.53544	0.53010	0.48640	AVRG		0.49662		6.20180 <-
	0.48986	0.46277									
30 Tetrahydrofuran	9390	11029	16216	20240	61063	101211	LINE	-0.29818	0.09148		0.99739
	170538	241701									
34 cyclohexane	0.54330	0.57934	0.58276	0.61131	0.56979	0.50827	AVRG		0.54705		8.55300
	0.50680	0.47479									
37 Isobutyl alcohol	++++	++++	49982	95128	411891	711514	LINE	-0.17463	0.68236		0.99723 <-
	1230168	1774629									

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\ -8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.5000000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2
	200.0000	300.0000								
	Level 7	Level 8								
35 Carbon Tetrachloride	++++	0.38488	0.44546	0.47244	0.47224	0.42972	AVRG		0.43746	6.96727<-
		0.43582	0.42166							
36 1,1-Dichloropropene	++++	0.34849	0.43662	0.45089	0.43756	0.38600	AVRG		0.39886	10.63415<-
		0.37908	0.35336							
38 Benzene	1.35686	1.15102	1.16683	1.20539	1.14931	1.03624	AVRG		1.13296	10.76743
		1.02919	0.96886							
141 isopropyl acetate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000	0.000e+000<-
	++++	++++								
39 1,2-Dichloroethane	++++	0.41109	0.44468	0.45344	0.41556	0.37631	AVRG		0.40070	10.52987<-
		0.36384	0.34001							
41 Trichloroethene	0.33821	0.31270	0.30442	0.33486	0.32860	0.30127	AVRG		0.31404	5.73839
		0.30462	0.28764							
139 Methylcyclohexane	++++	0.39920	0.42067	0.44299	0.40776	0.37578	AVRG		0.39414	8.55454<-
		0.36888	0.34370							

NTC

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.500000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	MS	MS2	SRSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R2
42 1,2-Dichloropropane	++++	0.25383	0.32232	0.32776	0.30917	0.27932	AVRG		0.29044			10.06752 <-
	0.27730	0.26335										
43 Dibromomethane	450	1579	10944	20417	99760	189251	LINR	-0.03107	0.19940			0.99905
	349061	508289										
44 Methyl methacrylate	++++	1141	11831	22322	110362	209295	LINR	-0.04366	0.21661			0.99935 <-
	375063	556306										
143 2,2,4-Trimethylpentane	5313	7429	37782	74934	352156	675239	LINR	-0.03401	0.71175			0.99879
	1255692	1809878										
144 1,4-Dioxane	++++	++++	++++	++++	1081	2381	LINR	0.80814	0.00521			0.98940 <-
	6646	11874										
45 Bromodichloromethane	++++	0.33065	0.43145	0.43785	0.44650	0.41408	AVRG		0.41017			9.49217 <-
	0.41458	0.39611										
46 2-Chloroethyl vinyl ether	++++	0.26706	0.33244	0.34406	0.34810	0.29666	AVRG		0.30536			11.64977 <-
	0.28165	0.26755										

(503)
 ID 001

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.500000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
47 cis-1,3-Dichloropropene	200.0000	300.0000										
	Level 7	Level 8										
	139	4358	24957	48458	232286	437897						
	769926	1103764					LINEAR	-0.07504	0.57613			0.99730
48 4-Methyl-2-Pentanone	8363	17333	97533	186145	818928	1423056	LINEAR	-0.72253	0.34914			0.99201
	2397655	3319990										
50 Toluene	2.04196	1.58357	1.60710	1.67680	1.62323	1.39817	AVRG		1.56845			15.30909
	1.35287	1.27187										
51 trans-1,3-Dichloropropene	0.62614	0.50817	0.61699	0.65101	0.69856	0.61662	AVRG		0.61049			9.20970
	0.59816	0.56825										
52 Ethyl Methacrylate	++++	0.46788	0.59093	0.60821	0.64746	0.55465	AVRG		0.55936			10.93354
	0.53521	0.51116										
53 1,1,2-Trichloroethane	547	1645	11949	22244	103987	195747	LINEAR	-0.06570	0.26363			0.99823
	349547	507438										
54 Tetrachloroethene	0.44720	0.41531	0.45068	0.48505	0.46803	0.43415	AVRG		0.45030			4.71686
	0.45938	0.44260										

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.1\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.1

Compound	0.5000000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients		\$RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	or R ²
	200.0000	300.0000									
	Level 7	Level 8									
55 1,3-Dichloropropane	0.60845	0.65429	0.73868	0.74809	0.70921	0.61009	AVRG		0.65200		11.05112
	0.58713	0.56004									
56 2-Hexanone	0.30383	0.32080	0.36505	0.37273	0.35784	0.29313	AVRG		0.31624		14.62688
	0.26928	0.24725									
57 Dibromochloromethane	0.31593	0.39420	0.42610	0.46290	0.50940	0.46843	AVRG		0.44325		14.19504
	0.48429	0.48472									
58 1,2-Dibromoethane	0.44720	0.40759	0.44371	0.46306	0.47548	0.41391	AVRG		0.43570		5.83761
	0.42285	0.41182									
60 Chlorobenzene	1.35474	1.03608	1.05678	1.09091	1.09323	0.96565	AVRG		1.06487		12.20593
	0.97384	0.94772									
61 1,1,1,2-Tetrachloroethane	0.37728	0.30893	0.41579	0.42684	0.44102	0.39639	AVRG		0.39893		10.28566
	0.41392	0.41123									
62 Ethylbenzene	0.73031	0.49313	0.54331	0.57532	0.56224	0.49289	AVRG		0.55227		14.18595
	0.51512	0.50587									

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method File : \\50wintarget\chem\50MSV2.1\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.1

Compound	0.5000000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	n	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or R ²
63 m&p-Xylene	200.0000	300.0000										
	Level 7	Level 8										
	6746	9479	50293	98581	452322	867999	LINE	-0.03506	0.63831			0.99966
	1645202	2482223										
65 o-Xylene	0.67238	0.61621	0.67883	0.70263	0.71116	0.64286	AVRG		0.66801			4.61624
	0.66273	0.65725										
66 Styrene	1.21890	1.03718	1.16494	1.21203	1.19492	1.04519	AVRG		1.11915			7.69001
	1.05894	1.02107										
67 Bromoform	++++	587	8985	18585	103009	205336	LINE	0.00850	0.70399			0.99958
	392851	592526										
68 Isopropylbenzene	2.06536	1.61931	1.68114	1.76288	1.70740	1.49784	AVRG		1.64864			12.91364
	1.47631	1.37888										
69 trans-1,4-Dichloro-2-butene	0.16267	0.13411	0.15611	0.17939	0.18179	0.15735	AVRG		0.15759			11.02224
	0.15293	0.13637										
142 n-amyl acetate	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000			0.000e+000
	++++	++++										

NTC

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.1\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.1

Compound	0.500000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						or 3.2
71 Bromobenzene	200.0000	300.0000										
	Level 7	Level 8										
	3304	6411	31929	50299	227137	432859	LINE	-0.10506	0.55373			0.99536
	761004	1051380										
72 1,1,2,2-Tetrachloroethane	0.95385	1.00657	1.24749	1.24377	1.23817	1.02461	AVRG		1.07534			13.27418
	0.97194	0.91593										
73 1,2,3-Trichloropropane	2879	4227	22555	42432	199296	366177	LINE	-0.10078	1.09499			0.99543
	650044	907280										
74 n-Propylbenzene	9294	12281	66481	130317	582423	1078511	LINE	-0.10082	3.24266			0.99495
	1947010	2673873										
75 2-Chlorotoluene	5427	8389	43682	84145	374707	708535	LINE	-0.08471	2.16589			0.99706
	1274998	1802112										
77 1,3,5-Trimethylbenzene	3.46286	2.67383	2.74406	2.85983	2.92469	2.47312	AVRG		2.75092			12.57751
	2.48784	2.38117										
76 4-Chlorotoluene	1.23172	0.82472	0.88018	0.91540	0.96452	0.86862	AVRG		0.95880			13.17712
	0.97316	1.01208										

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\8260-C1.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.500000	1.0000	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	T2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					
78 tert-Butylbenzene	200.0000	300.0000									
	Level 7	Level 8									
	3.88187	3.13595	3.23929	3.32630	3.51089	3.01240	AVRG		3.27897		8.99427
	3.09833	3.02675									
79 1,2,4-Trimethylbenzene	6475	8748	45028	88736	399431	747139	LINR	-0.07316	2.34340		0.99766
	1373291	1953812									
80 sec-Butylbenzene	7609	10504	53133	104346	486925	939597	LINR	-0.06540	2.94101		0.99756
	1732863	2440621									
81 1,3-Dichlorobenzene	4232	5057	26953	52921	243989	476888	LINR	-0.01928	1.62016		0.99940
	924454	1360802									
83 p-Isopropyltoluene	6278	8767	43249	87446	401343	789303	LINR	-0.03678	2.58772		0.99898
	1498827	2161138									
84 1,4-Dichlorobenzene	3941	5584	27130	51648	247496	496456	LINR	-0.01676	1.66695		0.99961
	947746	1400262									
86 n-Butylbenzene	4913	6750	34976	69738	331164	624405	LINR	-0.09283	1.87002		0.99513
	1118920	1540504									

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\8260-C1.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.500000	1.3300	5.0000	10.0000	50.0000	100.0000	Curve	b	Coefficients	m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
85 1,2-Dichlorobenzene	1.76149	1.45324	1.67396	1.62988	1.75497	1.53171	AVRG		1.62596			6.48389
	1.61745	1.58494										
87 1,2-Dibromo-3-chloropropane	114	135	2337	5533	26506	55343	LINR	0.00911	0.18939			0.99875
	106941	158707										
88 1,2,4-Trichlorobenzene	2062	2413	12199	24461	125280	249299	LINR	-0.01701	0.83677			0.99912
	482830	697750										
89 Hexachlorobutadiene	519	597	3360	7552	36114	70534	LINR	-0.00062	0.24814			0.99891
	142853	207045										
90 Naphthalene	++++	2.21203	2.06566	2.17397	2.44690	2.16054	AVRG		2.21285			5.25872
	2.23187	2.19895										
91 1,2,3-Trichlorobenzene	1730	2056	9783	20201	100168	205630	LINR	-0.00058	0.70351			0.99962
	399924	589468										
92 2-methyl-naphthalene	2413	1064	5294	12414	78057	170081	LINR	0.10036	0.67627			0.99602
	353128	576300										

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method File : \\50wintarget\chem\50MSV2.i\5051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Compound	0.500000g Level 1	1.0000 Level 2	5.0000 Level 3	10.0000 Level 4	50.0000 Level 5	100.0000 Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
200.0000 Level 7	300.0000 Level 8										
\$ 32 Dibromofluoromethane (S)	0.319871 0.302891	0.321171 0.303151	0.320841	0.319331	0.313021	0.311511	AVRG		0.313971		2.435911
\$ 49 Toluene-d8	1.178531 1.128211	1.195191 1.122131	1.185881	1.193991	1.181791	1.134661	AVRG		1.165051		2.668031
\$ 70 4-Bromofluorobenzene	0.472631 0.441601	0.473931 0.443441	0.470941	0.471571	0.462511	0.463251	AVRG		0.462481		2.815701

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2010 12:38
 End Cal Date : 19-MAY-2010 16:35
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
 Last Edit : 20-May-2010 11:46 50MSV2.i

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Date : 19-MAY-2010 09:36

Client ID: bfb050

Instrument: 50MSV2.1

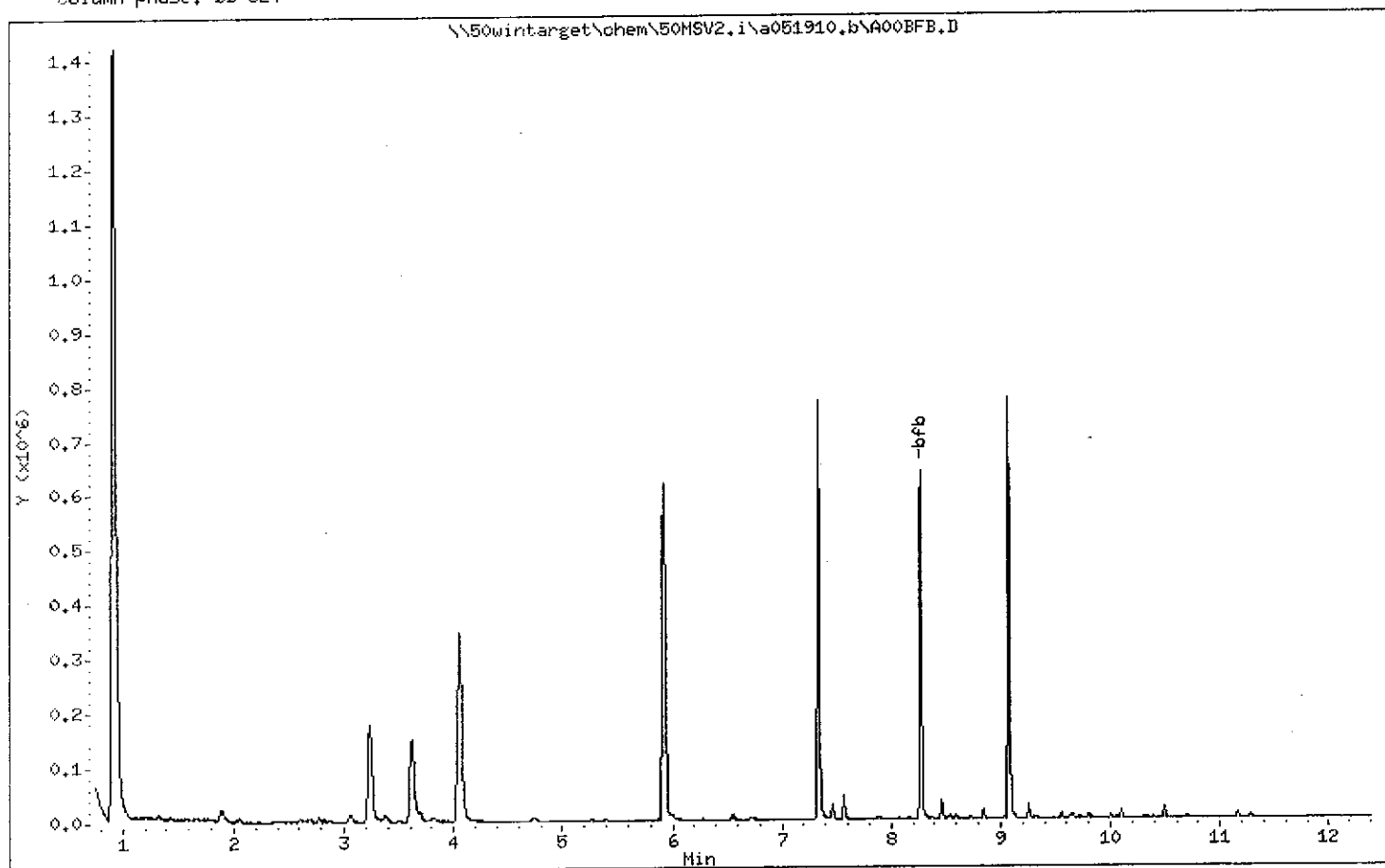
Sample Info: bfb 34B-006

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Date : 19-MAY-2010 09:36

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34B-006

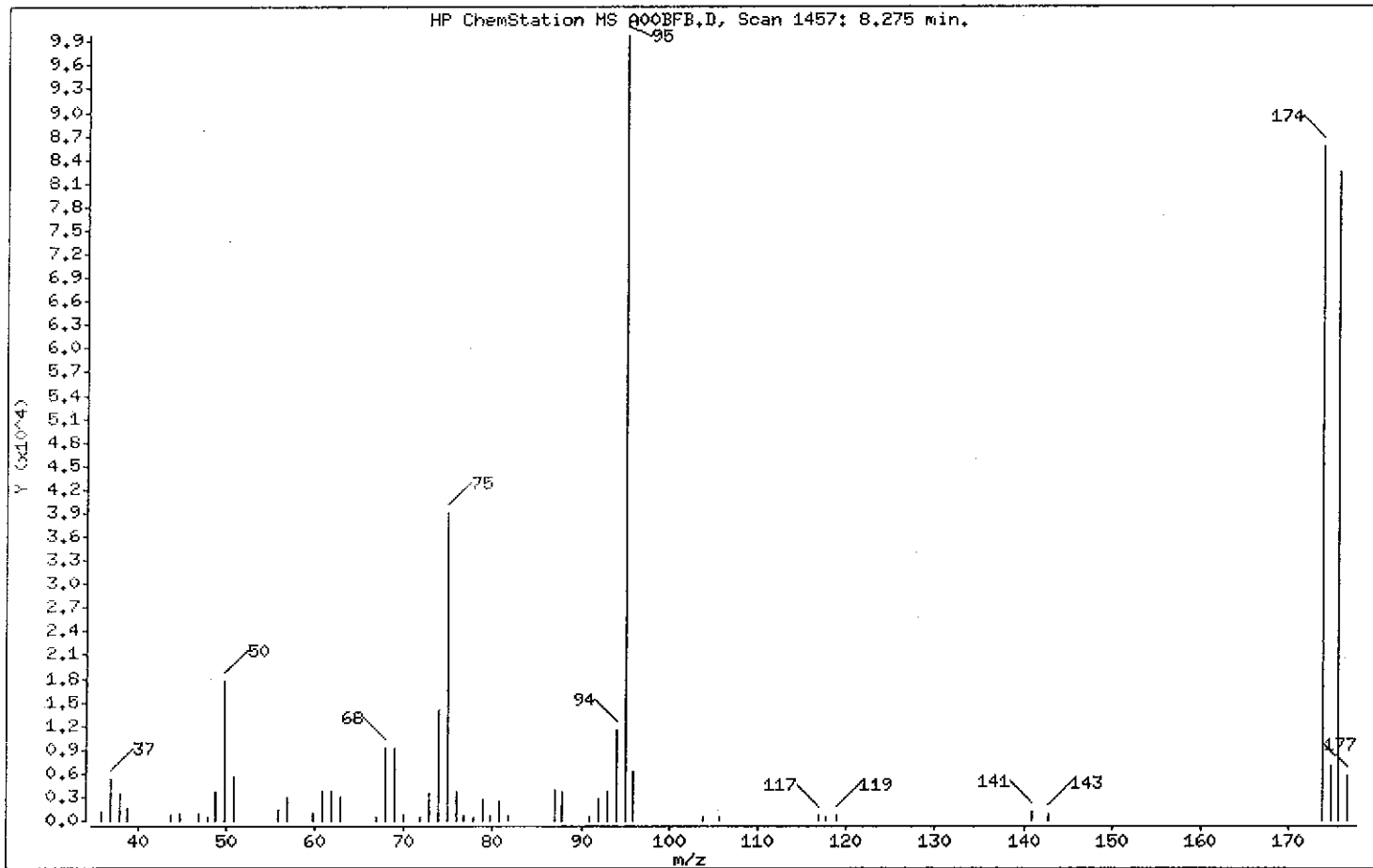
Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.63
75	30.00 - 60.00% of mass 95	39.07
96	5.00 - 9.00% of mass 95	6.15
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	85.80
175	5.00 - 9.00% of mass 174	6.87 (8.00)
176	95.00 - 101.00% of mass 174	82.52 (96.18)
177	5.00 - 9.00% of mass 176	5.71 (6.92)
95	100.00 - 100.00% of mass 95	100.00

Date : 19-MAY-2010 09:36

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34B-006

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

Data File: A00BFB.D

Spectrum: HP ChemStation MS A00BFB.D, Scan 1457: 8.275 min.

Location of Maximum: 95.00

Number of points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	1073	59.90	841	76.90	646	96.00	6136
37.00	5172	60.90	3608	77.90	541	103.75	543
38.00	3447	61.90	3621	78.80	2677	105.75	572
38.90	1655	62.90	2904	79.80	728	116.75	636
43.90	798	66.90	454	80.80	2601	117.75	449
44.90	842	67.90	9267	81.80	598	118.85	598
46.90	960	68.90	9237	86.90	3844	140.85	1108
47.90	567	69.90	777	87.90	3743	142.85	969
48.90	3663	71.90	394	90.90	445	173.85	85592
49.90	17592	72.90	3536	91.90	2706	174.85	6850
50.90	5488	74.00	14039	92.90	3775	175.85	82320
55.90	1332	74.90	38976	94.00	11526	176.85	5694
56.90	2873	75.90	3720	95.00	99760		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A04-1CAL.D
Lab Smp Id: 0.5ppb 34B-026/029
Inj Date : 19-MAY-2010 12:38
Operator : jlf
Smp Info : 0.5ppb 34B-026/029
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A051910.b\A04-1CAL.D
Meth Date : 20-May-2010 11:51 50MSV2.i
Cal Date : 19-MAY-2010 12:38
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14

Inst ID: 50MSV2.i

Quant Type: ISTD

Cal File: A04-1CAL.D

Calibration Sample, Level: 1

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	STG					AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)
								ON-COL (ppb)
1 Dichlorodifluoromethane	85			1.007	1.000	{0.248}	1903	0.50000
2 Chloromethane	50			1.089	1.083	{0.268}	2380	0.50000
3 Vinyl Chloride	62			1.126	1.124	{0.277}	1853	0.50000
4 Bromomethane	94			1.260	1.243	{0.310}	5364	0.50000
5 Chloroethane	64			1.120	1.119	{0.276}	266	0.50000
6 Trichlorofluoromethane	103			1.410	1.388	{0.347}	2371	0.50000
28 1,2-dichlorotrifluoroethane	67			1.524	1.507	{0.375}	2094	0.50000
7 Diethyl ether	74			1.524	1.517	{0.375}	384	0.50000
8 Acrolein	56			1.591	1.584	{0.392}	4425	10.0000
10 1,1,2trichlorotrifluoroethane	101			1.642	1.615	{0.404}	1523	0.50000
9 1,1-Dichloroethene	96			1.663	1.631	{0.410}	1254	0.50000
11 Acetone	43			1.658	1.672	{0.408}	4981	2.50000
12 Iodomethane	142			1.725	1.719	{0.425}	3018	1.00000
13 Carbon Disulfide	76			1.782	1.750	{0.439}	13704	1.00000
14 allyl chloride	41			1.834	1.812	{0.452}	6343	1.00000
145 Acetonitrile	41			1.834	1.812	{0.452}	6343	10.0000
138 Methyl Acetate	43			1.658	1.672	{0.408}	4981	0.50000
15 Methylene Chloride	84			1.896	1.879	{0.467}	6824	0.50000
16 Acrylonitrile	53			2.030	2.034	{0.500}	15695	10.0000
19 Methyl-tert-butyl ether	73			2.051	2.050	{0.505}	8042	1.00000
18 1,2-Dichloroethene (trans)	96			2.040	2.034	{0.502}	443	0.50000
23 Vinyl Acetate	43			2.366	2.349	{0.583}	17081	2.00000
25 1,2-Dichloroethene (cis)	96			2.800	2.768	{0.690}	2335	0.50000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
31 Chloroform	83	3.084	3.063	(0.760)	2956	0.50000	0.570
\$ 32 Dibromofluoromethane (S)	113	3.245	3.228	(0.799)	151134	50.0000	50.9
30 Tetrahydrofuran	42	3.064	3.052	(0.754)	9390	0.50000	
34 cyclohexane	56	3.327	3.316	(0.819)	2567	0.50000	0.496
38 Benzene	78	3.710	3.678	(0.913)	6411	0.50000	0.599
* 40 Fluorobenzene	96	4.061	4.050	(1.000)	472487	50.0000	
41 Trichloroethene	95	4.537	4.510	(1.117)	1598	0.50000	0.538 (Q)
43 Dibromomethane	93	4.930	4.908	(1.214)	450	0.50000	(Q)
143 2,2,4-Trimethylpentane	57	3.813	3.802	(0.939)	5313	0.50000	
47 cis-1,3-Dichloropropene	75	5.633	5.631	(0.768)	139	0.50000	(Q)
48 4-Methyl-2-Pentanone	43	5.844	5.843	(0.797)	8363	2.50000	
\$ 49 Toluene-d8	98	5.927	5.921	(0.808)	412954	50.0000	50.6
50 Toluene	91	6.005	5.993	(0.819)	7155	0.50000	0.650
51 trans-1,3-Dichloropropene	75	6.273	6.257	(0.856)	2194	0.50000	0.513
53 1,1,2-Trichloroethane	83	6.454	6.443	(0.880)	547	0.50000	
54 Tetrachloroethene	166	6.578	6.567	(0.897)	1567	0.50000	0.496
55 1,3-Dichloropropane	76	6.625	6.603	(0.903)	2132	0.50000	0.467
56 2-Hexanone	43	6.733	6.727	(0.918)	5323	2.50000	2.40
57 Dibromochloromethane	129	6.821	6.820	(0.930)	1107	0.50000	0.356
58 1,2-Dibromoethane	107	6.914	6.903	(0.943)	1567	0.50000	0.513
* 59 Chlorobenzene-d5	117	7.333	7.332	(1.000)	350399	50.0000	
60 Chlorobenzene	112	7.359	7.352	(1.004)	4747	0.50000	0.636 (Q)
61 1,1,1,2-Tetrachloroethane	131	7.436	7.435	(1.014)	1322	0.50000	0.473 (Q)
62 Ethylbenzene	106	7.462	7.461	(1.018)	2559	0.50000	0.661 (Q)
63 m,p-Xylene	106	7.566	7.564	(1.032)	6746	1.00000	(Q)
65 o-Xylene	106	7.876	7.874	(1.074)	2356	0.50000	0.503 (Q)
66 Styrene	104	7.902	7.890	(1.078)	4271	0.50000	0.544
68 Isopropylbenzene	105	8.165	8.164	(1.113)	7237	0.50000	0.626
69 trans-1,4-Dichloro-2-butene	53	8.434	8.427	(1.150)	570	0.50000	0.516 (Q)
\$ 70 4-Bromofluorobenzene	95	8.268	8.267	(1.128)	165608	50.0000	51.1
71 Bromobenzene	77	8.377	8.371	(1.142)	3304	0.50000	
72 1,1,2,2-Tetrachloroethane	83	8.393	8.386	(0.925)	1507	0.50000	0.444 (M)
73 1,2,3-Trichloropropane	75	8.413	8.412	(0.927)	2879	0.50000	
74 n-Propylbenzene	91	8.460	8.464	(0.932)	9294	0.50000	
75 2-Chlorotoluene	91	8.522	8.515	(0.939)	5427	0.50000	
77 1,3,5-Trimethylbenzene	105	8.589	8.588	(0.946)	5471	0.50000	0.629
76 4-Chlorotoluene	126	8.599	8.593	(0.948)	1946	0.50000	0.642 (Q)
78 tert-Butylbenzene	119	8.816	8.815	(0.972)	6133	0.50000	0.592
79 1,2,4-Trimethylbenzene	105	8.847	8.846	(0.975)	6475	0.50000	
80 sec-Butylbenzene	105	8.961	8.960	(0.987)	7609	0.50000	
81 1,3-Dichlorobenzene	146	9.033	9.032	(0.995)	4232	0.50000	
83 p-Isopropyltoluene	119	9.059	9.058	(0.998)	6278	0.50000	
* 82 1,4-Dichlorobenzene-d4	152	9.075	9.073	(1.000)	157991	50.0000	(Q)
84 1,4-Dichlorobenzene	146	9.090	9.089	(1.002)	3941	0.50000	(Q)
86 n-Butylbenzene	91	9.333	9.327	(1.028)	4913	0.50000	
85 1,2-Dichlorobenzene	146	9.338	9.332	(1.029)	2783	0.50000	0.542
87 1,2-Dibromo-3-chloropropane	155	9.829	9.828	(1.083)	114	0.50000	0.646 (QM)
88 1,2,4-Trichlorobenzene	180	10.346	10.335	(1.140)	2062	0.50000	
89 Hexachlorobutadiene	225	10.439	10.438	(1.150)	519	0.50000	0.631 (QM)
90 Naphthalene	128	10.491	10.484	(1.156)	7233	0.50000	1.03
91 1,2,3-Trichlorobenzene	180	10.636	10.629	(1.172)	1730	0.50000	0.749
92 2-methyl-naphthalene	142	11.168	11.156	(1.231)	2413	0.50000	6.15

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A04-1CAL.D
 Lab Smp Id: 0.5ppb 34B-026/029
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\A04-1CAL.D
 Misc Info:

Calibration Date: 19-MAY-2010
 Calibration Time: 14:53

Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	472487	4.54
59 Chlorobenzene-d5	321601	160801	643202	350399	8.95
82 1,4-Dichlorobenze	134849	67425	269698	157991	17.16

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.06	0.26
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.08
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.08	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 0.5ppb 34B-026/029
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.417	
74-87-3	Chloromethane	0.553	
75-01-4	Vinyl Chloride	0.522	
74-83-9	Bromomethane	0.832	
75-00-3	Chloroethane	0.000	
75-69-4	Trichlorofluoromethane	0.499	
354-23-4	1,2-dichlorotrifluoroethane	0.578	
60-29-7	Diethyl ether	0.282	
107-02-8	Acrolein	10.6	
76-13-1	1,1,2trichlorotrifluoroethan	0.508	
75-35-4	1,1-Dichloroethene	0.485	
67-64-1	Acetone	0.000	
	Iodomethane	5.90	
75-15-0	Carbon Disulfide	0.000	
107-05-1	allyl chloride	0.000	
75-05-8	Acetonitrile	0.000	
79-20-9	Methyl Acetate	0.000	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	0.000	
1634-04-4	Methyl-tert-butyl ether	1.07	
156-60-5	1,2-Dichloroethene (trans)	0.366	
108-05-4	Vinyl Acetate	0.000	
156-59-2	1,2-Dichloroethene (cis)	0.671	
67-66-3	Chloroform	0.570	
	Tetrahydrofuran	0.000	
110-82-7	cyclohexane	0.496	
71-43-2	Benzene	0.599	
79-01-6	Trichloroethene	0.538	
74-95-3	Dibromomethane	0.000	
540-84-1	2,2,4-Trimethylpentane	0.000	
10061-01-5	cis-1,3-Dichloropropene	0.000	
108-10-1	4-Methyl-2-Pentanone	0.000	
108-88-3	Toluene	0.650	
10061-02-6	trans-1,3-Dichloropropene	0.513	
79-00-5	1,1,2-Trichloroethane	0.000	
127-18-4	Tetrachloroethene	0.496	
142-28-9	1,3-Dichloropropane	0.467	
591-78-6	2-Hexanone	2.40	
124-48-1	Dibromochloromethane	0.356	
106-93-4	1,2-Dibromoethane	0.513	
108-90-7	Chlorobenzene	0.636	
630-20-6	1,1,1,2-Tetrachloroethane	0.473	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 0.5ppb 34B-026/029
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
100-41-4	Ethylbenzene	0.661	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	0.503	
100-42-5	Styrene	0.544	
98-82-8	Isopropylbenzene	0.626	
	trans-1,4-Dichloro-2-butene	0.516	
108-86-1	Bromobenzene	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	0.444	
96-18-4	1,2,3-Trichloropropane	0.000	
103-65-1	n-Propylbenzene	0.000	
95-49-8	2-Chlorotoluene	0.000	
108-67-8	1,3,5-Trimethylbenzene	0.629	
106-43-4	4-Chlorotoluene	0.642	
98-06-6	tert-Butylbenzene	0.592	
95-63-6	1,2,4-Trimethylbenzene	0.000	
135-98-8	sec-Butylbenzene	0.000	
541-73-1	1,3-Dichlorobenzene	0.000	
99-87-6	p-Isopropyltoluene	0.000	
106-46-7	1,4-Dichlorobenzene	0.000	
104-51-8	n-Butylbenzene	0.000	
95-50-1	1,2-Dichlorobenzene	0.542	
96-12-8	1,2-Dibromo-3-chloropropane	0.646	
120-82-1	1,2,4-Trichlorobenzene	0.000	
87-68-3	Hexachlorobutadiene	0.631	
91-20-3	Naphthalene	1.03	
87-61-6	1,2,3-Trichlorobenzene	0.749	
	2,methyl-naphthalene	6.15	
=====		=====	=====
1868-53-7	Dibromofluoromethane (S)	50.9	
2037-26-5	Toluene-d8	50.6	
460-00-4	4-Bromofluorobenzene	51.1	

Data File: \\50wintarget\chem\50HSV2.i\ao51910.b\A04-1CAL.D
Date: 19-MAY-2010 12:38

Client ID:

Sample Info: 0.5ppb 34B-026/029

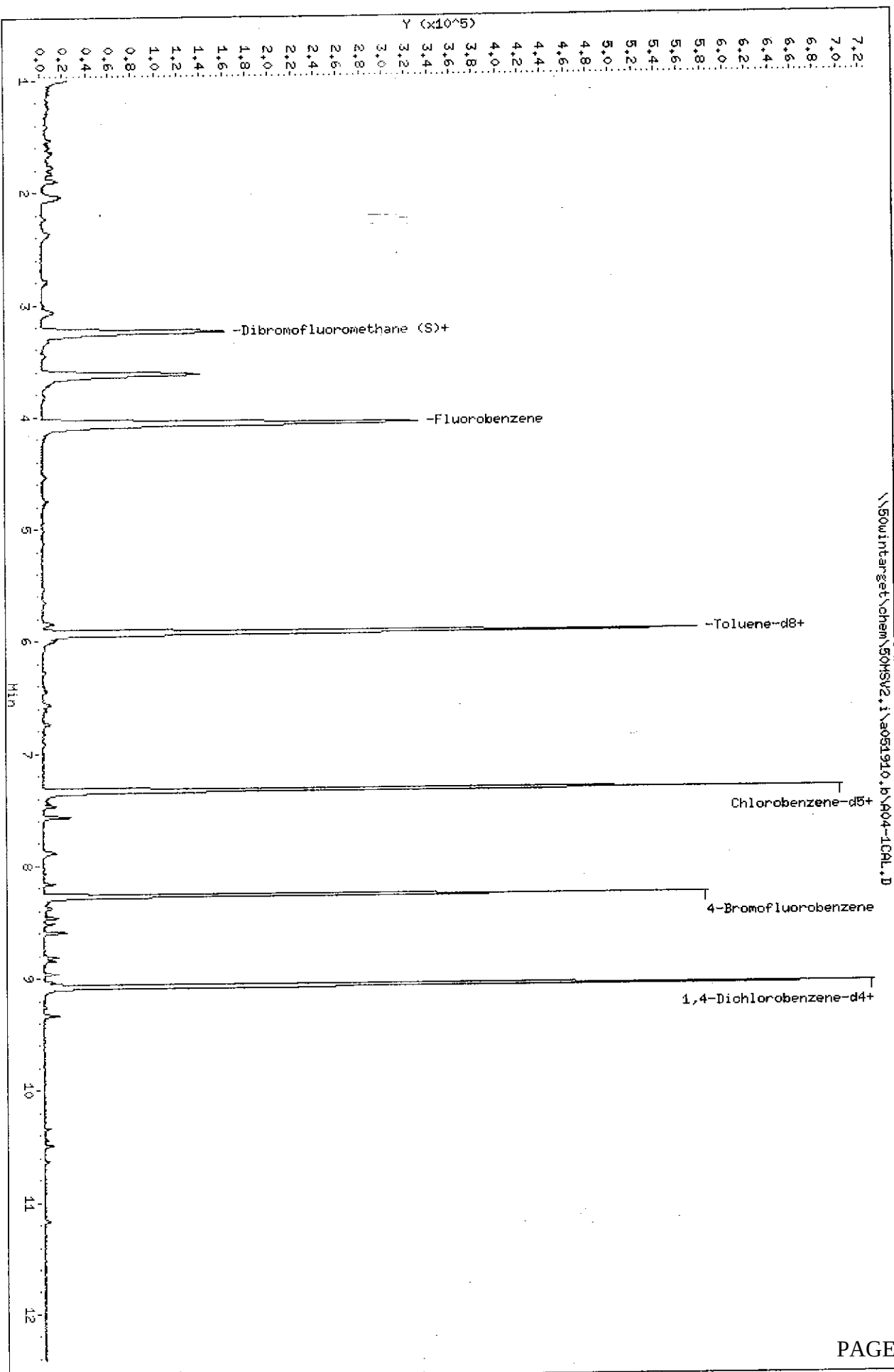
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A05-2CAL.D
 Lab Smp Id: lppb
 Inj Date : 19-MAY-2010 13:12
 Operator : jlf
 Smp Info : lppb
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A051910.b\A05-2CAL.D
 Meth Date : 20-May-2010 11:51 50MSV2.i
 Cal Date : 19-MAY-2010 13:12
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 50MSV2.i
 Quant Type: ISTD
 Cal File: A05-2CAL.D
 Calibration Sample, Level: 2
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.001	1.000	(0.247)	4074	1.00000	0.850(T)
2 Chloromethane	50	1.094	1.083	(0.270)	4165	1.00000	0.922
3 Vinyl Chloride	62	1.130	1.124	(0.279)	2953	1.00000	0.792
4 Bromomethane	94	1.259	1.243	(0.311)	4472	1.00000	0.253
5 Chloroethane	64	1.125	1.119	(0.277)	605	1.00000	(M)
6 Trichlorofluoromethane	101	1.409	1.388	(0.348)	4945	1.00000	0.992
28 1,2-dichlorotrifluoroethane	67	1.523	1.507	(0.376)	3708	1.00000	0.974
7 Diethyl ether	74	1.538	1.517	(0.379)	1186	1.00000	0.831(Q)
17 tert-Butyl Alcohol	59	1.952	1.982	(0.481)	507	2.00000	1.59(Q)
8 Acrolein	56	1.595	1.584	(0.393)	9469	20.0000	21.5
10 1,1,2-trichlorotrifluoroethane	101	1.642	1.615	(0.405)	3234	1.00000	1.03(Q)
9 1,1-Dichloroethene	96	1.652	1.631	(0.407)	3350	1.00000	1.23(Q)
11 Acetone	43	1.667	1.672	(0.411)	7751	5.00000	
12 Iodomethane	142	1.740	1.719	(0.429)	4262	2.00000	6.20
13 Carbon Disulfide	76	1.771	1.750	(0.437)	18351	2.00000	
14 allyl chloride	41	1.828	1.812	(0.451)	9746	2.00000	
145 Acetonitrile	41	1.828	1.812	(0.451)	9746	20.0000	
138 Methyl Acetate	43	1.667	1.672	(0.411)	7751	1.00000	
15 Methylene Chloride	84	1.890	1.879	(0.466)	8155	1.00000	
16 Acrylonitrile	53	2.029	2.034	(0.500)	27506	20.0000	
19 Methyl-tert-butyl ether	73	2.055	2.050	(0.507)	17155	2.00000	2.17
18 1,2-Dichloroethene (trans)	96	2.065	2.034	(0.509)	2983	1.00000	1.28(Q)
20 n-Hexane	57	2.226	2.205	(0.549)	3988	1.00000	1.08

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.324	2.313	(0.573)	5583	1.00000	1.02 (M)
23 Vinyl Acetate	43	2.355	2.349	(0.581)	31739	4.00000	
140 Ethyl acetate	88	2.406	2.380	(0.593)	1986	10.0000	7.57 (QM)
147 Chloroprene	53	2.401	2.380	(0.592)	4741	1.00000	0.991
24 2,2-Dichloropropane	77	2.779	2.768	(0.685)	5364	1.00000	1.14
25 1,2-Dichloroethene (cis)	96	2.784	2.768	(0.687)	3674	1.00000	1.01
26 2-Butanone	43	2.804	2.799	(0.692)	9897	5.00000	(M)
29 Bromochloromethane	49	3.001	2.985	(0.740)	2863	1.00000	(QM)
146 Methacrylonitrile	41	2.980	2.980	(0.735)	285	5.00000	(Q)
31 Chloroform	83	3.078	3.063	(0.759)	4805	1.00000	0.883
\$ 32 Dibromofluoromethane (S)	113	3.239	3.228	(0.799)	159298	50.0000	51.1
33 1,1,1-Trichloroethane	97	3.259	3.254	(0.804)	4545	1.00000	0.922
30 Tetrahydrofuran	42	3.053	3.052	(0.753)	11029	1.00000	
34 cyclohexane	56	3.326	3.316	(0.820)	5747	1.00000	1.06
35 Carbon Tetrachloride	117	3.440	3.435	(0.848)	3818	1.00000	0.880 (QM)
36 1,1-Dichloropropene	75	3.471	3.435	(0.856)	3457	1.00000	0.874
38 Benzene	78	3.693	3.678	(0.911)	11418	1.00000	1.02
39 1,2-Dichloroethane	62	3.714	3.703	(0.916)	4078	1.00000	1.02 (QM)
* 40 Fluorobenzene	96	4.055	4.050	(1.000)	495995	50.0000	
41 Trichloroethene	95	4.515	4.510	(1.113)	3102	1.00000	0.996
139 Methylcyclohexane	55	4.737	4.732	(1.168)	3960	1.00000	1.01
42 1,2-Dichloropropane	63	4.779	4.773	(1.178)	2518	1.00000	0.874 (M)
43 Dibromomethane	93	4.924	4.908	(1.214)	1579	1.00000	(Q)
44 Methyl methacrylate	69	5.001	4.975	(1.233)	1141	1.00000	(QM)
143 2,2,4-Trimethylpentane	57	3.812	3.802	(0.940)	7429	1.00000	
45 Bromodichloromethane	83	5.130	5.114	(1.265)	3280	1.00000	0.806 (M)
46 2-Chloroethyl vinyl ether	63	5.508	5.502	(0.752)	3871	2.00000	1.75
47 cis-1,3-Dichloropropene	75	5.647	5.631	(0.771)	4358	1.00000	(Q)
48 4-Methyl-2-Pentanone	43	5.833	5.843	(0.796)	17333	5.00000	
\$ 49 Toluene-d8	98	5.916	5.921	(0.807)	433108	50.0000	51.3
50 Toluene	91	5.993	5.993	(0.818)	11477	1.00000	1.01
51 trans-1,3-Dichloropropene	75	6.267	6.257	(0.855)	3683	1.00000	0.832
52 Ethyl Methacrylate	69	6.402	6.401	(0.874)	3391	1.00000	0.836 (M)
53 1,1,2-Trichloroethane	83	6.443	6.443	(0.879)	1645	1.00000	
54 Tetrachloroethene	166	6.572	6.567	(0.897)	3010	1.00000	0.922
55 1,3-Dichloropropane	76	6.603	6.603	(0.901)	4742	1.00000	1.00
56 2-Hexanone	43	6.727	6.727	(0.918)	11625	5.00000	5.07
57 Dibromochloromethane	129	6.815	6.820	(0.930)	2857	1.00000	0.889
58 1,2-Dibromoethane	107	6.908	6.903	(0.943)	2954	1.00000	0.935
* 59 Chlorobenzene-d5	117	7.327	7.332	(1.000)	362377	50.0000	
60 Chlorobenzene	112	7.358	7.352	(1.004)	7509	1.00000	0.973 (Q)
61 1,1,1,2-Tetrachloroethane	131	7.430	7.435	(1.014)	2239	1.00000	0.774
62 Ethylbenzene	106	7.461	7.461	(1.018)	3574	1.00000	0.893
63 m&p-Xylene	106	7.559	7.564	(1.032)	9479	2.00000	0.295
65 o-Xylene	106	7.870	7.874	(1.074)	4466	1.00000	0.922
66 Styrene	104	7.885	7.890	(1.076)	7517	1.00000	0.927
67 Bromoform	173	8.014	8.014	(0.884)	587	1.00000	0.689 (QM)
60 Isopropylbenzene	105	8.159	8.164	(1.114)	11736	1.00000	0.982
69 trans-1,4-Dichloro-2-butene	53	8.428	8.427	(1.150)	972	1.00000	0.851 (Q)
\$ 70 4-Bromofluorobenzene	95	8.262	8.267	(1.128)	171740	50.0000	51.2
71 Bromobenzene	77	8.366	8.371	(1.142)	6411	1.00000	
72 1,1,1,2-Tetrachloroethane	83	8.381	8.386	(0.924)	3177	1.00000	0.936 (M)
73 1,2,3-Trichloropropane	75	8.407	8.412	(0.927)	4227	1.00000	
74 n-Propylbenzene	91	8.459	8.464	(0.933)	12281	1.00000	

Compounds	QUANT S/G MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
75 2-Chlorotoluene	91	8.516	8.515 (0.939)		8389	1.00000	
77 1,3,5-Trimethylbenzene	105	8.588	8.588 (0.947)		8436	1.00000	0.972
76 4-Chlorotoluene	126	8.593	8.593 (0.948)		2602	1.00000	0.860
78 tert-Butylbenzene	119	8.810	8.815 (0.972)		9894	1.00000	0.956
79 1,2,4-Trimethylbenzene	105	8.841	8.846 (0.975)		8748	1.00000	
80 sec-Butylbenzene	105	8.955	8.960 (0.987)		10504	1.00000	
81 1,3-Dichlorobenzene	146	9.032	9.032 (0.996)		5057	1.00000	0.0252
83 p-Isopropyltoluene	119	9.053	9.058 (0.998)		8767	1.00000	
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.073 (1.000)		157751	50.0000	
84 1,4-Dichlorobenzene	146	9.089	9.089 (1.002)		5584	1.00000	0.224
86 n-Butylbenzene	91	9.322	9.327 (1.028)		6750	1.00000	
85 1,2-Dichlorobenzene	146	9.332	9.332 (1.029)		4585	1.00000	0.894
87 1,2-Dibromo-3-chloropropane	155	9.823	9.828 (1.083)		135	1.00000	0.681(M)
88 1,2,4-Trichlorobenzene	180	10.340	10.335 (1.140)		2413	1.00000	0.0636
89 Hexachlorobutadiene	225	10.433	10.438 (1.150)		597	1.00000	0.732(M)
90 Naphthalene	128	10.485	10.484 (1.156)		6979	1.00000	1.000
91 1,2,3-Trichlorobenzene	180	10.635	10.629 (1.173)		2056	1.00000	0.898
92 2-methyl-naphthalene	142	11.157	11.156 (1.230)		1064	1.00000	5.52

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A05-2CAL.D
 Lab Smp Id: 1ppb
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\8260-c1.m
 Misc Info:

Calibration Date: 19-MAY-2010
 Calibration Time: 14:53

Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	495995	9.74
59 Chlorobenzene-d5	321601	160801	643202	362377	12.68
82 1,4-Dichlorobenze	134849	67425	269698	157751	16.98

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.06	0.11
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	-0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 1ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.850	
74-87-3	Chloromethane	0.922	
75-01-4	Vinyl Chloride	0.792	
74-83-9	Bromomethane	0.253	
75-00-3	Chloroethane	0.000	
75-69-4	Trichlorofluoromethane	0.992	
354-23-4	1,2-dichlorotrifluoroethane	0.974	
60-29-7	Diethyl ether	0.831	
75-65-0	tert-Butyl Alcohol	1.59	
107-02-8	Acrolein	21.5	
76-13-1	1,1,2trichlorotrifluoroethan	1.03	
75-35-4	1,1-Dichloroethene	1.23	
67-64-1	Acetone	0.000	
	Iodomethane	6.20	
75-15-0	Carbon Disulfide	0.000	
107-05-1	allyl chloride	0.000	
75-05-8	Acetonitrile	0.000	
79-20-9	Methyl Acetate	0.000	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	0.000	
1634-04-4	Methyl-tert-butyl ether	2.17	
156-60-5	1,2-Dichloroethene (trans)	1.28	
	n-Hexane	1.08	
75-34-3	1,1-Dichloroethane	1.02	
108-05-4	Vinyl Acetate	0.000	
141-78-6	Ethyl acetate	7.57	
126-99-8	Chloroprene	0.991	
594-20-7	2,2-Dichloropropane	1.14	
156-59-2	1,2-Dichloroethene (cis)	1.01	
78-93-3	2-Butanone	0.000	
74-97-5	Bromochloromethane	0.000	
126-98-7	Methacrylonitrile	0.000	
67-66-3	Chloroform	0.883	
71-55-6	1,1,1-Trichloroethane	0.922	
	Tetrahydrofuran	0.000	
110-82-7	cyclohexane	1.06	
56-23-5	Carbon Tetrachloride	0.880	
563-58-6	1,1-Dichloropropene	0.874	
71-43-2	Benzene	1.02	
107-06-2	1,2-Dichloroethane	1.02	
79-01-6	Trichloroethene	0.996	
108-87-2	Methylcyclohexane	1.01	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 1ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
78-87-5	1,2-Dichloropropane	0.874	
74-95-3	Dibromomethane	0.000	
80-62-6	Methyl methacrylate	0.000	
540-84-1	2,2,4-Trimethylpentane	0.000	
75-27-4	Bromodichloromethane	0.806	
110-75-8	2-Chloroethyl vinyl ether	1.75	
10061-01-5	cis-1,3-Dichloropropene	0.000	
108-10-1	4-Methyl-2-Pentanone	0.000	
108-88-3	Toluene	1.01	
10061-02-6	trans-1,3-Dichloropropene	0.832	
	Ethyl Methacrylate	0.836	
79-00-5	1,1,2-Trichloroethane	0.000	
127-18-4	Tetrachloroethene	0.922	
142-28-9	1,3-Dichloropropane	1.00	
591-78-6	2-Hexanone	5.07	
124-48-1	Dibromochloromethane	0.889	
106-93-4	1,2-Dibromoethane	0.935	
108-90-7	Chlorobenzene	0.973	
630-20-6	1,1,1,2-Tetrachloroethane	0.774	
100-41-4	Ethylbenzene	0.893	
7816-60-0	m&p-Xylene	0.295	
95-47-6	o-Xylene	0.922	
100-42-5	Styrene	0.927	
75-25-2	Bromoform	0.689	
98-82-8	Isopropylbenzene	0.982	
	trans-1,4-Dichloro-2-butene	0.851	
108-86-1	Bromobenzene	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	0.936	
96-18-4	1,2,3-Trichloropropane	0.000	
103-65-1	n-Propylbenzene	0.000	
95-49-8	2-Chlorotoluene	0.000	
108-67-8	1,3,5-Trimethylbenzene	0.972	
106-43-4	4-Chlorotoluene	0.860	
98-06-6	tert-Butylbenzene	0.956	
95-63-6	1,2,4-Trimethylbenzene	0.000	
135-98-8	sec-Butylbenzene	0.000	
541-73-1	1,3-Dichlorobenzene	0.0252	
99-87-6	p-Isopropyltoluene	0.000	
106-46-7	1,4-Dichlorobenzene	0.224	
104-51-8	n-Butylbenzene	0.000	
95-50-1	1,2-Dichlorobenzene	0.894	
96-12-8	1,2-Dibromo-3-chloropropane	0.681	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 1ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

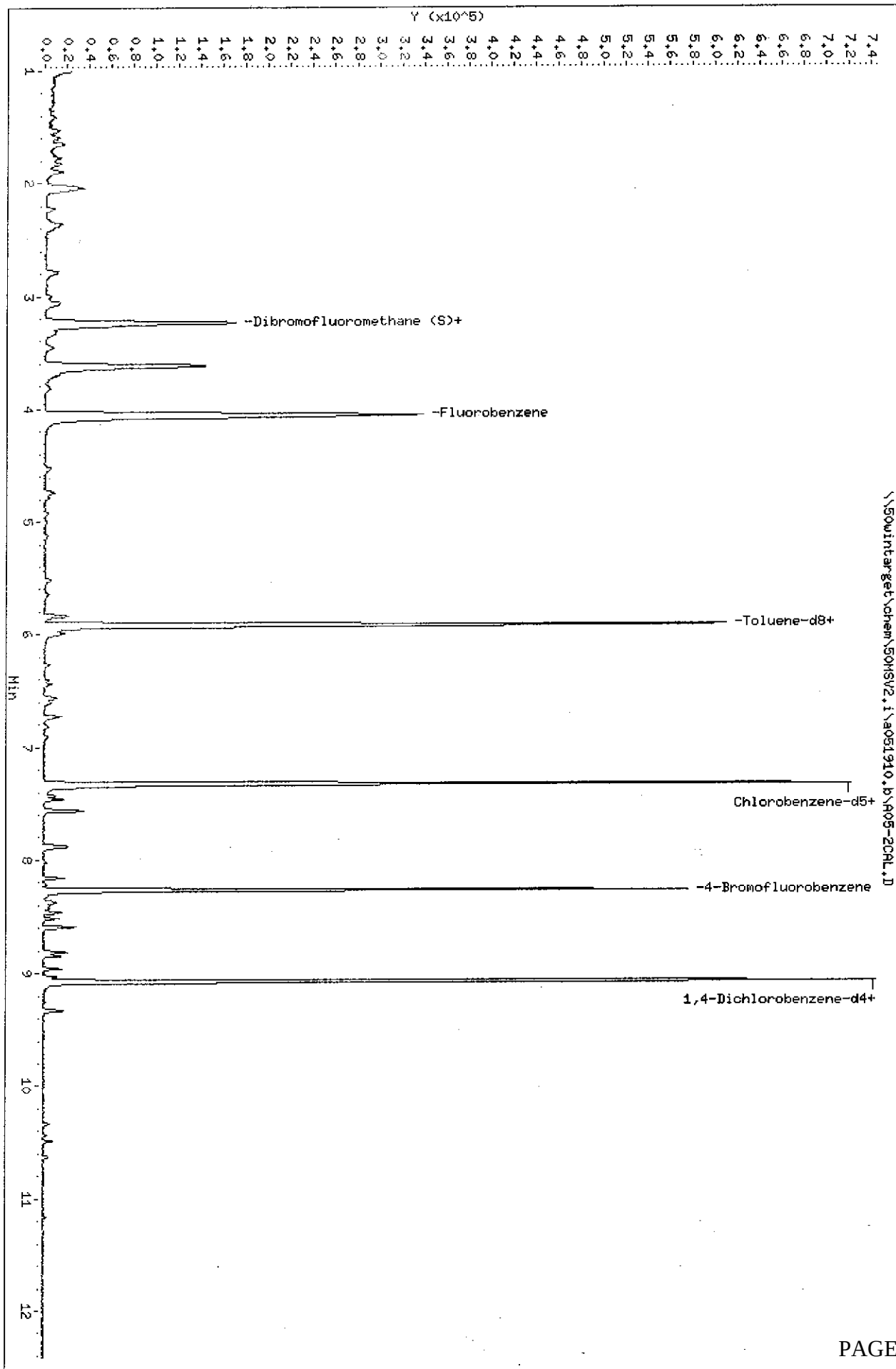
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1-----	1,2,4-Trichlorobenzene	0.0636	
87-68-3-----	Hexachlorobutadiene	0.732	
91-20-3-----	Naphthalene	1.000	
87-61-6-----	1,2,3-Trichlorobenzene	0.898	
-----	2,methyl-naphthalene	5.52	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.1	
2037-26-5-----	Toluene-d8	51.3	
460-00-4-----	4-Bromofluorobenzene	51.2	

Data File: \\50wintarget\chem\50MSV2.1\A051910.b\A05-2CAL.D
Date: 19-MAY-2010 13:12

Page 8

Client ID:
Sample Info: 1ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.1
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A06-3CAL.D
 Lab Smp Id: 5ppb
 Inj Date : 19-MAY-2010 13:46
 Operator : jlf
 Smp Info : 5ppb
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A051910.b\A06-3CAL.D
 Meth Date : 20-May-2010 11:51 50MSV2.i
 Cal Date : 19-MAY-2010 13:46
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 50MSV2.i
 Quant Type: ISTD
 Cal File: A06-3CAL.D
 Calibration Sample, Level: 3
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ppb)	(ppb)
=====	=====	====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	1.005	1.000	{0.248}	21245	5.00000	4.49
2 Chloromethane	50	1.087	1.083	{0.268}	19147	5.00000	4.29
3 Vinyl Chloride	62	1.123	1.124	{0.277}	16352	5.00000	4.44
4 Bromomethane	94	1.263	1.243	{0.312}	12294	5.00000	4.24 (Q)
5 Chloroethane	64	1.123	1.119	{0.277}	5384	5.00000	3.86 (Q)
6 Trichlorofluoromethane	101	1.408	1.388	{0.347}	22712	5.00000	4.61
28 1,2-dichlorotrifluoroethane	67	1.527	1.507	{0.377}	20209	5.00000	5.38
7 Diethyl ether	74	1.537	1.517	{0.379}	8255	5.00000	5.86 (Q)
17 tert-Butyl Alcohol	59	1.940	1.982	{0.479}	3139	10.0000	9.95 (Q)
8 Acrolein	56	1.589	1.584	{0.392}	41877	100.000	96.3
10 1,1,2-trichlorotrifluoroethane	101	1.640	1.615	{0.405}	16529	5.00000	5.32
9 1,1-Dichloroethene	96	1.645	1.631	{0.406}	13569	5.00000	5.06 (Q)
11 Acetone	43	1.666	1.672	{0.411}	27312	25.0000	11.2
12 Iodomethane	142	1.738	1.719	{0.429}	17313	10.0000	9.84
13 Carbon Disulfide	76	1.769	1.750	{0.437}	68257	10.0000	5.12 (M)
14 allyl chloride	41	1.826	1.812	{0.451}	48650	10.0000	6.02
145 Acetonitrile	41	1.826	1.812	{0.451}	48650	100.000	60.2
138 Methyl Acetate	43	1.666	1.672	{0.411}	27312	5.00000	2.23
15 Methylene Chloride	84	1.888	1.879	{0.466}	19505	5.00000	3.39
16 Acrylonitrile	53	2.028	2.034	{0.500}	144717	100.000	14.7
19 Methyl-tert-butyl ether	73	2.049	2.050	{0.505}	88004	10.0000	11.3
18 1,2-Dichloroethene (trans)	96	2.059	2.034	{0.508}	15046	5.00000	5.75
20 n-Hexane	57	2.229	2.205	{0.550}	18279	5.00000	5.02

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.328	2.313	(0.574)	29626	5.00000	5.49
23 Vinyl Acetate	43	2.354	2.349	(0.581)	170612	20.0000	0.976
140 Ethyl acetate	88	2.395	2.380	(0.591)	14491	50.0000	55.9 (Q)
147 Chloroprene	53	2.395	2.380	(0.591)	24879	5.00000	5.27
24 2,2-Dichloropropane	77	2.782	2.768	(0.686)	25195	5.00000	5.40
25 1,2-Dichloroethene (cis)	96	2.777	2.768	(0.685)	17440	5.00000	4.84
26 2-Butanone	43	2.793	2.799	(0.689)	49982	25.0000	4.57
27 Propionitrile	54	2.870	2.851	(0.708)	2196	5.00000	4.25 (Q)
29 Bromochloromethane	49	2.989	2.985	(0.737)	16066	5.00000	0.0526
146 Methacrylonitrile	41	2.989	2.980	(0.737)	11283	25.0000	11.3 (QM)
31 Chloroform	83	3.072	3.063	(0.758)	28136	5.00000	5.24
\$ 32 Dibromofluoromethane (S)	113	3.237	3.228	(0.799)	157165	50.0000	51.1
33 1,1,1-Trichloroethane	97	3.268	3.254	(0.806)	25160	5.00000	5.17
30 Tetrahydrofuran	42	3.056	3.052	(0.754)	16216	5.00000	3.18
34 cyclohexane	56	3.320	3.316	(0.819)	28547	5.00000	5.33 (Q)
37 Isobutyl alcohol	43	2.793	2.799	(0.689)	49982	5.00000	
35 Carbon Tetrachloride	117	3.449	3.435	(0.851)	21821	5.00000	5.09
36 1,1-Dichloropropene	75	3.454	3.435	(0.852)	21388	5.00000	5.47
38 Benzene	78	3.692	3.678	(0.911)	57158	5.00000	5.15
39 1,2-Dichloroethane	62	3.713	3.703	(0.916)	21783	5.00000	5.55
* 40 Fluorobenzene	96	4.054	4.050	(1.000)	489856	50.0000	
41 Trichloroethene	95	4.519	4.510	(1.115)	14912	5.00000	4.85
139 Methylcyclohexane	55	4.741	4.732	(1.170)	20607	5.00000	5.34
42 1,2-Dichloropropane	63	4.783	4.773	(1.180)	15789	5.00000	5.55
43 Dibromomethane	93	4.917	4.908	(1.213)	10944	5.00000	4.05
44 Methyl methacrylate	69	4.979	4.975	(1.228)	11831	5.00000	3.39 (Q)
143 2,2,4-Trimethylpentane	57	3.816	3.802	(0.941)	37782	5.00000	3.72
45 Bromodichloromethane	83	5.113	5.114	(1.261)	21135	5.00000	5.26
46 2-Chloroethyl vinyl ether	63	5.501	5.502	(0.751)	23932	10.0000	10.9
47 cis-1,3-Dichloropropene	75	5.635	5.631	(0.769)	24957	5.00000	2.26
48 4-Methyl-2-Pentanone	43	5.832	5.843	(0.796)	97533	25.0000	2.68
\$ 49 Toluene-d8	98	5.920	5.921	(0.808)	426847	50.0000	50.9
50 Toluene	91	5.992	5.993	(0.818)	57846	5.00000	5.12
51 trans-1,3-Dichloropropene	75	6.261	6.257	(0.855)	22208	5.00000	5.05
52 Ethyl Methacrylate	69	6.400	6.401	(0.874)	21270	5.00000	5.28
53 1,1,2-Trichloroethane	83	6.437	6.443	(0.879)	11949	5.00000	3.01 (Q)
54 Tetrachloroethene	166	6.571	6.567	(0.897)	16222	5.00000	5.00
55 1,3-Dichloropropane	76	6.602	6.603	(0.901)	26588	5.00000	5.66
56 2-Hexanone	43	6.721	6.727	(0.917)	65699	25.0000	28.8
57 Dibromochloromethane	129	6.814	6.820	(0.930)	15337	5.00000	4.81
58 1,2-Dibromoethane	107	6.902	6.903	(0.942)	15971	5.00000	5.09
* 59 Chlorobenzene-d5	117	7.326	7.332	(1.000)	359941	50.0000	
60 Chlorobenzene	112	7.351	7.352	(1.004)	38038	5.00000	4.96
61 1,1,1,2-Tetrachloroethane	131	7.429	7.435	(1.014)	14966	5.00000	5.21
62 Ethylbenzene	106	7.460	7.461	(1.018)	19556	5.00000	4.92
63 m&p-Xylene	106	7.558	7.564	(1.032)	50293	10.0000	9.19
65 o-Xylene	106	7.873	7.874	(1.075)	24434	5.00000	5.08
66 Styrene	104	7.884	7.890	(1.076)	41931	5.00000	5.20
67 Bromoform	173	8.013	8.014	(0.883)	8985	5.00000	4.49 (Q)
68 Isopropylbenzene	105	8.158	8.164	(1.114)	60511	5.00000	5.10
69 trans-1,4-Dichloro-2-butene	53	8.421	8.427	(1.150)	5619	5.00000	4.95 (Q)
\$ 70 4-Bromofluorobenzene	95	8.266	8.267	(1.128)	169509	50.0000	50.9
71 Bromobenzene	77	8.364	8.371	(1.142)	31929	5.00000	2.76
72 1,1,1,2,2-Tetrachloroethane	83	8.380	8.386	(0.924)	19593	5.00000	5.80

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
73 1,2,3-Trichloropropane	75	8.406	8.412 (0.926)		22555	5.00000	1.52(Q)
74 n-Propylbenzene	91	8.457	8.464 (0.932)		66481	5.00000	1.48
75 2-Chlorotoluene	91	8.509	8.515 (0.938)		43682	5.00000	2.18
77 1,3,5-Trimethylbenzene	105	8.587	8.588 (0.946)		43098	5.00000	4.99
76 4-Chlorotoluene	126	8.592	8.593 (0.947)		13824	5.00000	4.59
78 tert-Butylbenzene	119	8.809	8.815 (0.971)		50876	5.00000	4.94
79 1,2,4-Trimethylbenzene	105	8.840	8.846 (0.974)		45028	5.00000	2.46
80 sec-Butylbenzene	105	8.959	8.960 (0.987)		53133	5.00000	2.48
81 1,3-Dichlorobenzene	146	9.031	9.032 (0.995)		26953	5.00000	4.33
83 p-Isopropyltoluene	119	9.057	9.058 (0.998)		43249	5.00000	3.48
* 82 1,4-Dichlorobenzene-d4	152	9.073	9.073 (1.000)		157059	50.0000	
84 1,4-Dichlorobenzene	146	9.088	9.089 (1.002)		27130	5.00000	4.34
86 n-Butylbenzene	91	9.326	9.327 (1.028)		34976	5.00000	1.31
85 1,2-Dichlorobenzene	146	9.331	9.332 (1.028)		26291	5.00000	5.15
87 1,2-Dibromo-3-chloropropane	155	9.822	9.828 (1.083)		2337	5.00000	4.38(Q)
88 1,2,4-Trichlorobenzene	180	10.334	10.335 (1.139)		12199	5.00000	3.79
89 Hexachlorobutadiene	225	10.432	10.438 (1.150)		3360	5.00000	4.28(Q)
90 Naphthalene	128	10.484	10.484 (1.156)		32443	5.00000	4.67
91 1,2,3-Trichlorobenzene	180	10.628	10.629 (1.171)		9783	5.00000	4.40
92 2-methyl-naphthalene	142	11.155	11.156 (1.230)		5294	5.00000	7.51

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A06-3CAL.D
 Lab Smp Id: 5ppb
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\A06-3CAL.D
 Misc Info:

Calibration Date: 19-MAY-2010
 Calibration Time: 14:53

Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	489856	8.38
59 Chlorobenzene-d5	321601	160801	643202	359941	11.92
82 1,4-Dichlorobenze	134849	67425	269698	157059	16.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.05	0.08
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	-0.03
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	4.49	
74-87-3	Chloromethane	4.29	
75-01-4	Vinyl Chloride	4.44	
74-83-9	Bromomethane	4.24	
75-00-3	Chloroethane	3.86	
75-69-4	Trichlorofluoromethane	4.61	
354-23-4	1,2-dichlorotrifluoroethane	5.38	
60-29-7	Diethyl ether	5.86	
75-65-0	tert-Butyl Alcohol	9.95	
107-02-8	Acrolein	96.3	
76-13-1	1,1,2trichlorotrifluoroethan	5.32	
75-35-4	1,1-Dichloroethene	5.06	
67-64-1	Acetone	11.2	
	Iodomethane	9.84	
75-15-0	Carbon Disulfide	5.12	
107-05-1	allyl chloride	6.02	
75-05-8	Acetonitrile	60.2	
79-20-9	Methyl Acetate	2.23	
75-09-2	Methylene Chloride	3.39	
107-13-1	Acrylonitrile	14.7	
1634-04-4	Methyl-tert-butyl ether	11.3	
156-60-5	1,2-Dichloroethene (trans)	5.75	
	n-Hexane	5.02	
75-34-3	1,1-Dichloroethane	5.49	
108-05-4	Vinyl Acetate	0.976	
141-78-6	Ethyl acetate	55.9	
126-99-8	Chloroprene	5.27	
594-20-7	2,2-Dichloropropane	5.40	
156-59-2	1,2-Dichloroethene (cis)	4.84	
78-93-3	2-Butanone	4.57	
107-12-0	Propionitrile	4.25	
74-97-5	Bromochloromethane	0.0526	
126-98-7	Methacrylonitrile	11.3	
67-66-3	Chloroform	5.24	
71-55-6	1,1,1-Trichloroethane	5.17	
	Tetrahydrofuran	3.18	
110-82-7	cyclohexane	5.33	
78-83-1	Isobutyl alcohol	0.000	
56-23-5	Carbon Tetrachloride	5.09	
563-58-6	1,1-Dichloropropene	5.47	
71-43-2	Benzene	5.15	
107-06-2	1,2-Dichloroethane	5.55	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	4.85	
108-87-2	Methylcyclohexane	5.34	
78-87-5	1,2-Dichloropropane	5.55	
74-95-3	Dibromomethane	4.05	
80-62-6	Methyl methacrylate	3.39	
540-84-1	2,2,4-Trimethylpentane	3.72	
75-27-4	Bromodichloromethane	5.26	
110-75-8	2-Chloroethyl vinyl ether	10.9	
10061-01-5	cis-1,3-Dichloropropene	2.26	
108-10-1	4-Methyl-2-Pentanone	2.68	
108-88-3	Toluene	5.12	
10061-02-6	trans-1,3-Dichloropropene	5.05	
	Ethyl Methacrylate	5.28	
79-00-5	1,1,2-Trichloroethane	3.01	
127-18-4	Tetrachloroethene	5.00	
142-28-9	1,3-Dichloropropane	5.66	
591-78-6	2-Hexanone	28.8	
124-48-1	Dibromochloromethane	4.81	
106-93-4	1,2-Dibromoethane	5.09	
108-90-7	Chlorobenzene	4.96	
630-20-6	1,1,1,2-Tetrachloroethane	5.21	
100-41-4	Ethylbenzene	4.92	
7816-60-0	m&p-Xylene	9.19	
95-47-6	o-Xylene	5.08	
100-42-5	Styrene	5.20	
75-25-2	Bromoform	4.49	
98-82-8	Isopropylbenzene	5.10	
	trans-1,4-Dichloro-2-butene	4.95	
108-86-1	Bromobenzene	2.76	
79-34-5	1,1,2,2-Tetrachloroethane	5.80	
96-18-4	1,2,3-Trichloropropane	1.52	
103-65-1	n-Propylbenzene	1.48	
95-49-8	2-Chlorotoluene	2.18	
108-67-8	1,3,5-Trimethylbenzene	4.99	
106-43-4	4-Chlorotoluene	4.59	
98-06-6	tert-Butylbenzene	4.94	
95-63-6	1,2,4-Trimethylbenzene	2.46	
135-98-8	sec-Butylbenzene	2.48	
541-73-1	1,3-Dichlorobenzene	4.33	
99-87-6	p-Isopropyltoluene	3.48	
106-46-7	1,4-Dichlorobenzene	4.34	
104-51-8	n-Butylbenzene	1.31	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a051910.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1-----	1,2-Dichlorobenzene	5.15	
96-12-8-----	1,2-Dibromo-3-chloropropane	4.38	
120-82-1-----	1,2,4-Trichlorobenzene	3.79	
87-68-3-----	Hexachlorobutadiene	4.28	
91-20-3-----	Naphthalene	4.67	
87-61-6-----	1,2,3-Trichlorobenzene	4.40	
-----	2,methyl-naphthalene	7.51	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.1	
2037-26-5-----	Toluene-d8	50.9	
460-00-4-----	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50HSV2.1\A051910.b\A06-3CAL.D
Date : 19-MAY-2010 13:46

Client ID:

Sample Info: 5ppb

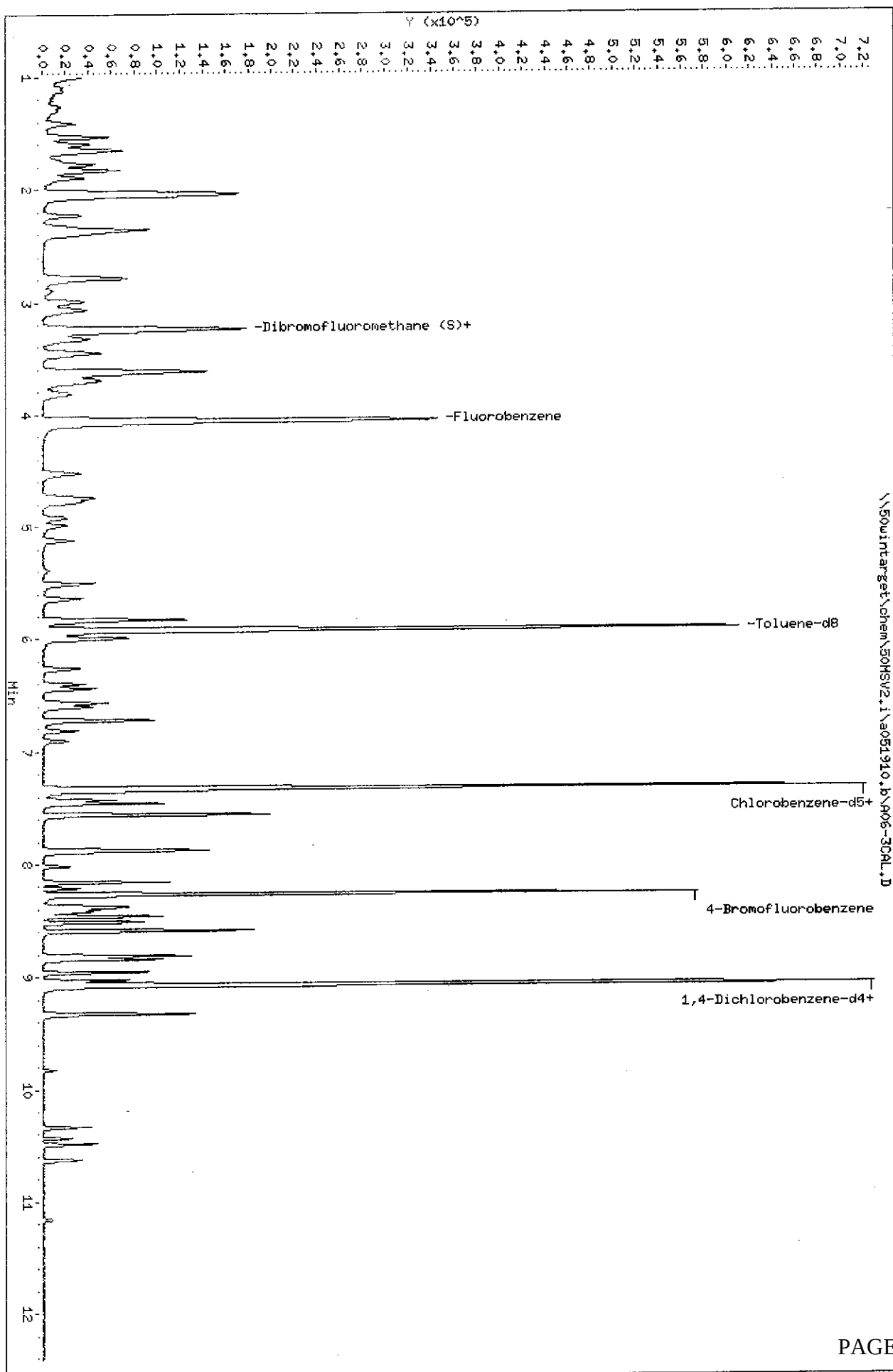
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A07-4CAL.D
Lab Smp Id: 10ppb
Inj Date : 19-MAY-2010 14:19
Operator : jlf
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
Meth Date : 20-May-2010 11:51 50MSV2.i
Cal Date : 19-MAY-2010 14:19
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Inst ID: 50MSV2.i
Quant Type: ISTD
Cal File: A07-4CAL.D
Calibration Sample, Level: 4
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT' SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.003	1.000 (0.248)		48413	10.0000	10.7
2 Chloromethane	50	1.091	1.083 (0.269)		42196	10.0000	9.92
3 Vinyl Chloride	62	1.122	1.124 (0.277)		38055	10.0000	10.8
4 Bromomethane	94	1.257	1.243 (0.310)		25294	10.0000	11.4
5 Chloroethane	64	1.127	1.119 (0.278)		12214	10.0000	10.0 (TQ)
6 Trichlorofluoromethane	101	1.406	1.388 (0.347)		51118	10.0000	10.9
28 1,2-dichlorotrifluoroethane	67	1.525	1.507 (0.376)		41030	10.0000	11.4
7 Diethyl ether	74	1.531	1.517 (0.378)		15915	10.0000	11.8
17 tert-Butyl Alcohol	59	1.944	1.982 (0.480)		6627	20.0000	22.0 (M)
8 Acrolein	56	1.593	1.584 (0.393)		89412	200.000	216
10 1,1,2trichlorotrifluoroethane	101	1.639	1.615 (0.405)		32825	10.0000	11.1
9 1,1-Dichloroethene	96	1.644	1.631 (0.406)		27582	10.0000	10.8
11 Acetone	43	1.665	1.672 (0.411)		47331	50.0000	46.7
12 Iodomethane	142	1.732	1.719 (0.427)		40775	20.0000	16.9
13 Carbon Disulfide	76	1.768	1.750 (0.436)		139292	20.0000	19.1 (M)
14 allyl chloride	41	1.825	1.812 (0.450)		96197	20.0000	21.2
145 Acetonitrile	41	1.825	1.812 (0.450)		96197	200.000	212
138 Methyl Acetate	43	1.665	1.672 (0.411)		47331	10.0000	9.34
15 Methylene Chloride	84	1.887	1.879 (0.466)		34888	10.0000	10.3
16 Acrylonitrile	53	2.027	2.034 (0.500)		266912	200.000	175
19 Methyl-tert-butyl ether	73	2.053	2.050 (0.507)		164028	20.0000	22.1
18 1,2-Dichloroethene (trans)	96	2.053	2.034 (0.507)		29012	10.0000	11.4
20 n-Hexane	57	2.223	2.205 (0.549)		37212	10.0000	10.7

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.326	2.313 (0.574)		57734	10.0000	11.2
23 Vinyl Acetate	43	2.352	2.349 (0.580)		322134	40.0000	33.2
140 Ethyl acetate	88	2.394	2.380 (0.591)		28129	100.000	114 (Q)
147 Chloroprene	53	2.388	2.380 (0.589)		53414	10.0000	11.9
24 2,2-Dichloropropane	77	2.771	2.768 (0.684)		48638	10.0000	10.9
25 1,2-Dichloroethene (cis)	96	2.781	2.768 (0.686)		34342	10.0000	9.99
26 2-Butanone	43	2.792	2.799 (0.689)		95128	50.0000	41.4
27 Propionitrile	54	2.854	2.851 (0.704)		4834	10.0000	9.81 (Q)
29 Bromochloromethane	49	2.993	2.985 (0.739)		28366	10.0000	6.62 (M)
146 Methacrylonitrile	41	2.983	2.980 (0.736)		20252	50.0000	37.5 (M)
31 Chloroform	83	3.071	3.063 (0.758)		56699	10.0000	11.1
\$ 32 Dibromofluoromethane (S)	113	3.236	3.228 (0.799)		149127	50.0000	50.8
33 1,1,1-Trichloroethane	97	3.257	3.254 (0.804)		50010	10.0000	10.8
30 Tetrahydrofuran	42	3.050	3.052 (0.753)		20240	10.0000	8.78
34 cyclohexane	56	3.324	3.316 (0.820)		57096	10.0000	11.2
37 Isobutyl alcohol	43	2.792	2.799 (0.689)		95128	10.0000	6.19
35 Carbon Tetrachloride	117	3.448	3.435 (0.851)		44126	10.0000	10.8
36 1,1-Dichloropropene	75	3.448	3.435 (0.851)		42113	10.0000	11.3
38 Benzene	78	3.686	3.678 (0.909)		112583	10.0000	10.6
39 1,2-Dichloroethane	62	3.717	3.703 (0.917)		42351	10.0000	11.3
* 40 Fluorobenzene	96	4.053	4.050 (1.000)		466998	50.0000	
41 Trichloroethene	95	4.523	4.510 (1.116)		31276	10.0000	10.7
139 Methylcyclohexane	55	4.740	4.732 (1.170)		41375	10.0000	11.2
42 1,2-Dichloropropane	63	4.776	4.773 (1.179)		30613	10.0000	11.3
43 Dibromomethane	93	4.916	4.908 (1.213)		20417	10.0000	9.41
44 Methyl methacrylate	69	4.983	4.975 (1.230)		22322	10.0000	8.85
143 2,2,4-Trimethylpentane	57	3.815	3.802 (0.941)		74934	10.0000	9.57
45 Bromodichloromethane	83	5.117	5.114 (1.263)		40895	10.0000	10.7
46 2-Chloroethyl vinyl ether	63	5.500	5.502 (0.751)		47365	20.0000	22.5
47 cis-1,3-Dichloropropene	75	5.634	5.631 (0.769)		48458	10.0000	8.47
48 4-Methyl-2-Pentanone	43	5.826	5.843 (0.795)		186145	50.0000	41.3
\$ 49 Toluene-d8	98	5.919	5.921 (0.808)		410920	50.0000	51.2
50 Toluene	91	5.991	5.993 (0.818)		115417	10.0000	10.7
51 trans-1,3-Dichloropropene	75	6.255	6.257 (0.854)		44810	10.0000	10.7
52 Ethyl Methacrylate	69	6.394	6.401 (0.873)		41864	10.0000	10.9
53 1,1,2-Trichloroethane	83	6.435	6.443 (0.879)		22244	10.0000	8.97
54 Tetrachloroethene	166	6.565	6.567 (0.896)		33387	10.0000	10.8
55 1,3-Dichloropropane	76	6.601	6.603 (0.901)		51492	10.0000	11.5
56 2-Hexanone	43	6.720	6.727 (0.917)		128277	50.0000	58.9
57 Dibromochloromethane	129	6.813	6.820 (0.930)		31862	10.0000	10.4
58 1,2-Dibromoethane	107	6.901	6.903 (0.942)		31873	10.0000	10.6
* 59 Chlorobenzene-d5	117	7.324	7.332 (1.000)		344158	50.0000	
60 Chlorobenzene	112	7.350	7.352 (1.004)		75089	10.0000	10.2
61 1,1,1,2-Tetrachloroethane	131	7.428	7.435 (1.014)		29380	10.0000	10.7
62 Ethylbenzene	106	7.459	7.461 (1.018)		39600	10.0000	10.4
63 m&p-Xylene	106	7.557	7.564 (1.032)		98581	20.0000	20.7
65 o-Xylene	106	7.867	7.874 (1.074)		48363	10.0000	10.5
66 Styrene	104	7.883	7.890 (1.076)		83426	10.0000	10.8
67 Bromoform	173	8.012	8.014 (0.883)		18585	10.0000	9.13
68 Isopropylbenzene	105	8.157	8.164 (1.114)		121342	10.0000	10.7
69 trans-1,4-Dichloro-2-butene	53	8.425	8.427 (1.150)		12348	10.0000	11.4 (Q)
\$ 70 4-Bromofluorobenzene	95	8.265	8.267 (1.128)		162293	50.0000	51.0
71 Bromobenzene	77	8.363	8.371 (1.142)		50299	10.0000	7.94
72 1,1,1,2,2-Tetrachloroethane	83	8.384	8.386 (0.924)		37718	10.0000	11.6

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====	
73 1,2,3-Trichloropropane	75	8.405	8.412	{0.926}	42432	10.0000	7.74 (Q)	
74 n-Propylbenzene	91	8.456	8.464	{0.932}	130317	10.0000	8.21	
75 2-Chlorotoluene	91	8.508	8.515	{0.938}	84145	10.0000	8.58	
77 1,3,5-Trimethylbenzene	105	8.585	8.588	{0.946}	86726	10.0000	10.4	
76 4-Chlorotoluene	126	8.591	8.593	{0.947}	27760	10.0000	9.55	
78 tert-Butylbenzene	119	8.808	8.815	{0.971}	100872	10.0000	10.1	
79 1,2,4-Trimethylbenzene	105	8.839	8.846	{0.974}	88736	10.0000	8.83	
80 sec-Butylbenzene	105	8.958	8.960	{0.987}	104346	10.0000	8.43	
81 1,3-Dichlorobenzene	146	9.025	9.032	{0.995}	52921	10.0000	9.81	
83 p-Isopropyltoluene	119	9.056	9.058	{0.998}	87446	10.0000	9.30	
* 82 1,4-Dichlorobenzene-d4	152	9.071	9.073	{1.000}	151628	50.0000		
84 1,4-Dichlorobenzene	146	9.087	9.089	{1.002}	51648	10.0000	9.38	
86 n-Butylbenzene	91	9.319	9.327	{1.027}	69738	10.0000	7.66	
85 1,2-Dichlorobenzene	146	9.330	9.332	{1.028}	49427	10.0000	10.0	
87 1,2-Dibromo-3-chloropropane	155	9.821	9.828	{1.083}	5533	10.0000	10.1	
68 1,2,4-Trichlorobenzene	180	10.332	10.335	{1.139}	24461	10.0000	8.79	
89 Hexachlorobutadiene	225	10.431	10.438	{1.150}	7552	10.0000	10.0	
90 Naphthalene	128	10.482	10.484	{1.156}	65927	10.0000	9.82	
91 1,2,3-Trichlorobenzene	180	10.627	10.629	{1.171}	20201	10.0000	9.44	
92 2-methyl-naphthalene	142	11.159	11.156	{1.230}	12414	10.0000	11.1	

QC Flag Legend

T - Target compound detected outside RT window.
 Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A07-4CAL.D
 Lab Smp Id: 10ppb
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\8260-c1.m
 Misc Info:

Calibration Date: 19-MAY-2010
 Calibration Time: 14:53

Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	466998	3.32
59 Chlorobenzene-d5	321601	160801	643202	344158	7.01
82 1,4-Dichlorobenze	134849	67425	269698	151628	12.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.05	0.05
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.04
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 10ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	10.7	
74-87-3	Chloromethane	9.92	
75-01-4	Vinyl Chloride	10.8	
74-83-9	Bromomethane	11.4	
75-00-3	Chloroethane	10.0	
75-69-4	Trichlorofluoromethane	10.9	
354-23-4	1,2-dichlorotrifluoroethane	11.4	
60-29-7	Diethyl ether	11.8	
75-65-0	tert-Butyl Alcohol	22.0	
107-02-8	Acrolein	216	
76-13-1	1,1,2trichlorotrifluoroethan	11.1	
75-35-4	1,1-Dichloroethene	10.8	
67-64-1	Acetone	46.7	
	Iodomethane	16.9	
75-15-0	Carbon Disulfide	19.1	
107-05-1	allyl chloride	21.2	
75-05-8	Acetonitrile	212	
79-20-9	Methyl Acetate	9.34	
75-09-2	Methylene Chloride	10.3	
107-13-1	Acrylonitrile	175	
1634-04-4	Methyl-tert-butyl ether	22.1	
156-60-5	1,2-Dichloroethene (trans)	11.4	
	n-Hexane	10.7	
75-34-3	1,1-Dichloroethane	11.2	
108-05-4	Vinyl Acetate	33.2	
141-78-6	Ethyl acetate	114	
126-99-8	Chloroprene	11.9	
594-20-7	2,2-Dichloropropane	10.9	
156-59-2	1,2-Dichloroethene (cis)	9.99	
78-93-3	2-Butanone	41.4	
107-12-0	Propionitrile	9.81	
74-97-5	Bromochloromethane	6.62	
126-98-7	Methacrylonitrile	37.5	
67-66-3	Chloroform	11.1	
71-55-6	1,1,1-Trichloroethane	10.8	
	Tetrahydrofuran	8.78	
110-82-7	cyclohexane	11.2	
78-83-1	Isobutyl alcohol	6.19	
56-23-5	Carbon Tetrachloride	10.8	
563-58-6	1,1-Dichloropropene	11.3	
71-43-2	Benzene	10.6	
107-06-2	1,2-Dichloroethane	11.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 10ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	10.7	
108-87-2	Methylcyclohexane	11.2	
78-87-5	1,2-Dichloropropane	11.3	
74-95-3	Dibromomethane	9.41	
80-62-6	Methyl methacrylate	8.85	
540-84-1	2,2,4-Trimethylpentane	9.57	
75-27-4	Bromodichloromethane	10.7	
110-75-8	2-Chloroethyl vinyl ether	22.5	
10061-01-5	cis-1,3-Dichloropropene	8.47	
108-10-1	4-Methyl-2-Pentanone	41.3	
108-88-3	Toluene	10.7	
10061-02-6	trans-1,3-Dichloropropene	10.7	
	Ethyl Methacrylate	10.9	
79-00-5	1,1,2-Trichloroethane	8.97	
127-18-4	Tetrachloroethene	10.8	
142-28-9	1,3-Dichloropropane	11.5	
591-78-6	2-Hexanone	58.9	
124-48-1	Dibromochloromethane	10.4	
106-93-4	1,2-Dibromoethane	10.6	
108-90-7	Chlorobenzene	10.2	
630-20-6	1,1,1,2-Tetrachloroethane	10.7	
100-41-4	Ethylbenzene	10.4	
7816-60-0	m&p-Xylene	20.7	
95-47-6	o-Xylene	10.5	
100-42-5	Styrene	10.8	
75-25-2	Bromoform	9.13	
98-82-8	Isopropylbenzene	10.7	
	trans-1,4-Dichloro-2-butene	11.4	
108-86-1	Bromobenzene	7.94	
79-34-5	1,1,2,2-Tetrachloroethane	11.6	
96-18-4	1,2,3-Trichloropropane	7.74	
103-65-1	n-Propylbenzene	8.21	
95-49-8	2-Chlorotoluene	8.58	
108-67-8	1,3,5-Trimethylbenzene	10.4	
106-43-4	4-Chlorotoluene	9.55	
98-06-6	tert-Butylbenzene	10.1	
95-63-6	1,2,4-Trimethylbenzene	8.83	
135-98-8	sec-Butylbenzene	8.43	
541-73-1	1,3-Dichlorobenzene	9.81	
99-87-6	p-Isopropyltoluene	9.30	
106-46-7	1,4-Dichlorobenzene	9.38	
104-51-8	n-Butylbenzene	7.66	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 10ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1-----	1,2-Dichlorobenzene	10.0	
96-12-8-----	1,2-Dibromo-3-chloropropane	10.1	
120-82-1-----	1,2,4-Trichlorobenzene	8.79	
87-68-3-----	Hexachlorobutadiene	10.0	
91-20-3-----	Naphthalene	9.82	
87-61-6-----	1,2,3-Trichlorobenzene	9.44	
-----	2,methyl-naphthalene	11.1	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.8	
2037-26-5-----	Toluene-d8	51.2	
460-00-4-----	4-Bromofluorobenzene	51.0	

Data File: \\50wintarget\chem\50HSV2.1\A051910.b\A07-4CAL.D
Date: 19-MAY-2010 14:19

Client ID:

Sample Info: 10ppb

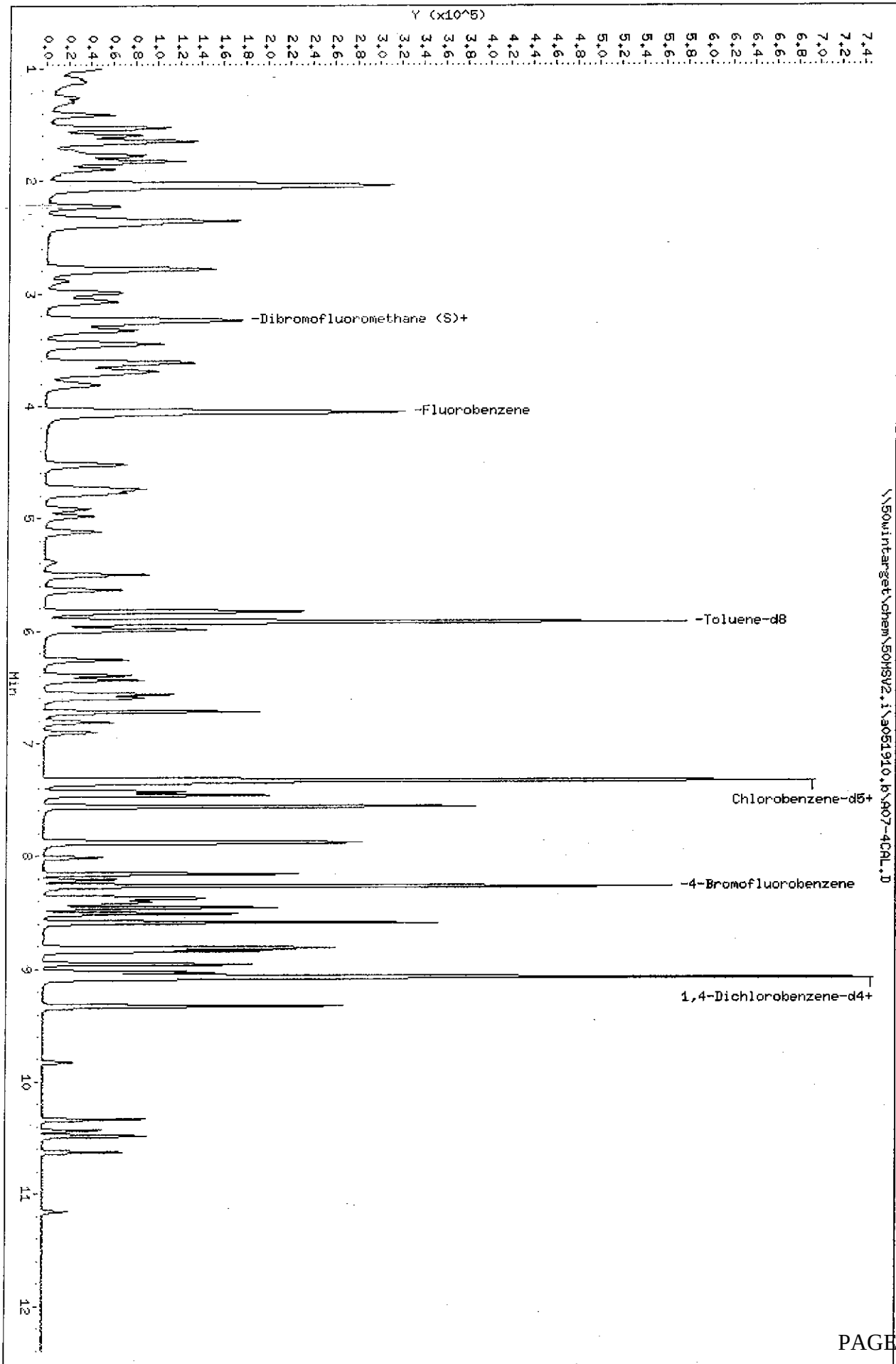
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A08-5CAL-CCV.D
Lab Smp Id: 50ppb Client Smp ID: ccv
Inj Date : 19-MAY-2010 14:53
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 50ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
Meth Date : 20-May-2010 11:51 50MSV2.i Quant Type: ISTD
Cal Date : 19-MAY-2010 14:53 Cal File: A08-5CAL.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Handwritten notes:
Mudpt AS COO
8/5-20-10

Compounds	QUANT' SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85		1.001	1.000 (0.247)		253717	50.0000	58.1
2 Chloromethane	50		1.089	1.083 (0.269)		209671	50.0000	50.9
3 Vinyl Chloride	62		1.120	1.124 (0.277)		189728	50.0000	55.9 ✓
4 Bromomethane	94		1.249	1.243 (0.309)		94291	50.0000	49.7
5 Chloroethane	64		1.125	1.119 (0.278)		59730	50.0000	53.1
6 Trichlorofluoromethane	101		1.404	1.388 (0.347)		247609	50.0000	54.5
28 1,2-dichlorotrifluoroethane	67		1.518	1.507 (0.375)		184752	50.0000	53.3
7 Diethyl ether	74		1.528	1.517 (0.377)		69541	50.0000	53.5
17 tert-Butyl Alcohol	59		1.952	1.982 (0.482)		30888	100.000	106 (M)
8 Acrolein	56		1.585	1.584 (0.391)		439907	1000.00	1100
10 1,1,2trichlorotrifluoroethane	101		1.637	1.615 (0.404)		149394	50.0000	52.1
9 1,1-Dichloroethene	96		1.642	1.631 (0.405)		126940	50.0000	51.3 ✓
11 Acetone	43		1.663	1.672 (0.411)		192854	250.000	300
12 Iodomethane	142		1.730	1.719 (0.427)		282841	100.000	90.2
13 Carbon Disulfide	76		1.766	1.750 (0.436)		616348	100.000	113 (M)
14 allyl chloride	41		1.818	1.812 (0.449)		404768	100.000	119
145 Acetonitrile	41		1.818	1.812 (0.449)		404768	1000.00	1190
138 Methyl Acetate	43		1.663	1.672 (0.411)		192854	50.0000	60.1
15 Methylene Chloride	84		1.890	1.879 (0.467)		134033	50.0000	54.2
16 Acrylonitrile	53		2.025	2.034 (0.500)		1119888	1000.00	1280
19 Methyl-tert-butyl ether	73		2.050	2.050 (0.506)		706505	100.000	98.3 ✓
18 1,2-Dichloroethene (trans)	96		2.050	2.034 (0.506)		127366	50.0000	51.2
20 n-Hexane	57		2.221	2.205 (0.548)		179362	50.0000	53.3 ✓

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
21 1,1-Dichloroethane	63	2.319	2.313 (0.573)		262219	50.0000	52.7
23 Vinyl Acetate	43	2.350	2.349 (0.580)		1390687	200.000	259
140 Ethyl acetate	88	2.392	2.380 (0.590)		129523	500.000	542
147 Chloroprene	53	2.386	2.380 (0.589)		232739	50.0000	53.4
24 2,2-Dichloropropane	77	2.774	2.768 (0.685)		225507	50.0000	52.4
25 1,2-Dichloroethene (cis)	96	2.769	2.768 (0.684)		165803	50.0000	49.8
26 2-Butanone	43	2.790	2.799 (0.689)		411891	250.000	298
27 Propionitrile	54	2.841	2.851 (0.701)		26190	50.0000	54.9
29 Bromochloromethane	49	2.991	2.985 (0.738)		128809	50.0000	59.4 (M)
146 Methacrylonitrile	41	2.981	2.980 (0.736)		108410	250.000	291 (M)
31 Chloroform	83	3.069	3.063 (0.758)		261544	50.0000	52.8 ✓
\$ 32 Dibromofluoromethane (S)	113	3.229	3.228 (0.797)		141478	50.0000	49.8
33 1,1,1-Trichloroethane	97	3.260	3.254 (0.805)		239594	50.0000	53.4
30 Tetrahydrofuran	42	3.053	3.052 (0.754)		61063	50.0000	58.9
34 cyclohexane	56	3.317	3.316 (0.819)		257534	50.0000	52.1
37 Isobutyl alcohol	43	2.790	2.799 (0.689)		411891	50.0000	58.0
35 Carbon Tetrachloride	117	3.441	3.435 (0.849)		213440	50.0000	54.0
36 1,1-Dichloropropene	75	3.441	3.435 (0.849)		197769	50.0000	54.8
38 Benzene	78	3.679	3.678 (0.908)		519465	50.0000	50.7 ✓
39 1,2-Dichloroethane	62	3.710	3.703 (0.916)		187825	50.0000	51.8
* 40 Fluorobenzene	96	4.051	4.050 (1.000)		451978	50.0000	
41 Trichloroethene	95	4.516	4.510 (1.115)		148520	50.0000	52.3
139 Methylcyclohexane	55	4.738	4.732 (1.170)		184297	50.0000	51.7
42 1,2-Dichloropropane	63	4.774	4.773 (1.179)		139736	50.0000	53.2 ✓
43 Dibromomethane	93	4.909	4.908 (1.212)		99760	50.0000	53.8
44 Methyl methacrylate	69	4.976	4.975 (1.228)		110362	50.0000	54.2
143 2,2,4-Trimethylpentane	57	3.808	3.802 (0.940)		352156	50.0000	53.0
144 1,4-Dioxane	88	4.971	5.042 (1.227)		1081	50.0000	63.4
45 Bromodichloromethane	83	5.115	5.114 (1.263)		201810	50.0000	54.4
46 2-Chloroethyl vinyl ether	63	5.498	5.502 (0.750)		223900	100.000	114
47 cis-1,3-Dichloropropene	75	5.632	5.631 (0.769)		232286	50.0000	58.9
48 4-Methyl-2-Pentanone	43	5.829	5.843 (0.795)		818928	250.000	328
\$ 49 Toluene-d8	98	5.916	5.921 (0.807)		380064	50.0000	50.7
50 Toluene	91	5.989	5.993 (0.817)		522033	50.0000	51.7 ✓
51 trans-1,3-Dichloropropene	75	6.252	6.257 (0.853)		224657	50.0000	57.2
52 Ethyl Methacrylate	69	6.392	6.401 (0.872)		208224	50.0000	57.9
53 1,1,2-Trichloroethane	83	6.433	6.443 (0.878)		103987	50.0000	58.0
54 Tetrachloroethene	166	6.568	6.567 (0.896)		150518	50.0000	52.0
55 1,3-Dichloropropane	76	6.599	6.603 (0.901)		228082	50.0000	54.4
56 2-Hexanone	43	6.718	6.727 (0.917)		575402	250.000	283
57 Dibromochloromethane	129	6.811	6.820 (0.929)		163824	50.0000	57.5
58 1,2-Dibromoethane	107	6.899	6.903 (0.941)		152916	50.0000	54.6
* 59 Chlorobenzene-d5	117	7.327	7.332 (1.000)		321601	50.0000	
60 Chlorobenzene	112	7.348	7.352 (1.003)		351583	50.0000	51.3
61 1,1,1,2-Tetrachloroethane	131	7.431	7.435 (1.014)		141833	50.0000	55.3
62 Ethylbenzene	106	7.457	7.461 (1.018)		180818	50.0000	50.9
63 m&p-Xylene	106	7.560	7.564 (1.032)		452322	100.000	108
65 o-Xylene	106	7.870	7.874 (1.074)		228711	50.0000	53.2 ✓
66 Styrene	104	7.886	7.890 (1.076)		384286	50.0000	53.4
67 Bromoform	173	8.015	8.014 (0.883)		103009	50.0000	54.7
68 Isopropylbenzene	105	8.160	8.164 (1.114)		549103	50.0000	51.8
69 trans-1,4-Dichloro-2-butene	53	8.423	8.427 (1.150)		58463	50.0000	57.7
\$ 70 4-Bromofluorobenzene	95	8.263	8.267 (1.128)		148744	50.0000	50.0
71 Bromobenzene	77	8.366	8.371 (1.142)		227137	50.0000	58.5

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====		=====	=====
72 1,1,2,2-Tetrachloroethane	83	8.382	8.386 (0.924)		166966		50.0000	57.6
73 1,2,3-Trichloropropane	75	8.403	8.412 (0.926)		199296		50.0000	62.4
74 n-Propylbenzene	91	8.459	8.464 (0.932)		582423		50.0000	61.6
75 2-Chlorotoluene	91	8.511	8.515 (0.938)		374707		50.0000	59.9
77 1,3,5-Trimethylbenzene	105	8.583	8.588 (0.946)		394391		50.0000	53.2
76 4-Chlorotoluene	126	8.589	8.593 (0.946)		130064		50.0000	50.3
78 tert-Butylbenzene	119	8.811	8.815 (0.971)		473440		50.0000	53.5
79 1,2,4-Trimethylbenzene	105	8.842	8.846 (0.974)		399431		50.0000	59.5
80 sec-Butylbenzene	105	8.956	8.960 (0.987)		486925		50.0000	58.1
81 1,3-Dichlorobenzene	146	9.028	9.032 (0.995)		243989		50.0000	54.9
83 p-Isopropyltoluene	119	9.054	9.058 (0.998)		401343		50.0000	55.7
82 1,4-Dichlorobenzene-d4	152	9.074	9.073 (1.000)		134849		50.0000	
84 1,4-Dichlorobenzene	146	9.085	9.089 (1.001)		247496		50.0000	54.2
86 n-Butylbenzene	91	9.323	9.327 (1.027)		331164		50.0000	61.0
85 1,2-Dichlorobenzene	146	9.333	9.332 (1.028)		236656		50.0000	54.0
87 1,2-Dibromo-3-chloropropane	155	9.824	9.828 (1.083)		26506		50.0000	52.3
88 1,2,4-Trichlorobenzene	180	10.336	10.335 (1.139)		125280		50.0000	54.7
89 Hexachlorobutadiene	225	10.434	10.438 (1.150)		36114		50.0000	53.9
90 Naphthalene	128	10.465	10.484 (1.155)		329962		50.0000	55.3
91 1,2,3-Trichlorobenzene	180	10.630	10.629 (1.171)		100168		50.0000	52.8
92 2-methyl-naphthalene	142	11.157	11.156 (1.230)		78057		50.0000	47.8

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i Calibration Date: 19-MAY-2010
 Lab File ID: A08-5CAL-CCV.D Calibration Time: 14:53
 Lab Smp Id: 50ppb Client Smp ID: ccv
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\8260-c1.m
 Misc Info:

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	451978	0.00
59 Chlorobenzene-d5	321601	160801	643202	321601	0.00
82 1,4-Dichlorobenze	134849	67425	269698	134849	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.05	0.00
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.00
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 19-MAY-2010 14:53
Lab File ID: A08-5CAL-CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: 50ppb Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\A051910.b\ -8260-cl.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.48331	0.56135	0.56135	0.000	16.14601	20.00000	Averaged
2 Chloromethane	0.45548	0.46390	0.46390	0.000	1.84761	20.00000	Averaged
3 Vinyl Chloride	0.37571	0.41977	0.41977	0.000	11.72897	20.00000	Averaged
4 Bromomethane	50.00000	49.73073	0.20862	0.000	-0.53855	0.000e+000	Linear
5 Chloroethane	50.00000	53.06849	0.13215	0.000	6.13698	0.000e+000	Linear
6 Trichlorofluoromethane	0.50261	0.54783	0.54783	0.000	8.99726	20.00000	Averaged
28 1,2-dichlorotrifluoroethane	0.38371	0.40876	0.40876	0.000	6.52948	20.00000	Averaged
7 Diethyl ether	0.14389	0.15386	0.15386	0.000	6.92493	20.00000	Averaged
17 tert-Butyl Alcohol	0.03221	0.03417	0.03417	0.000	6.07718	20.00000	Averaged
8 Acrolein	0.04438	0.04866	0.04866	0.000	9.66199	20.00000	Averaged
10 1,1,2-trichlorotrifluoroethane	0.31736	0.33053	0.33053	0.000	4.15102	20.00000	Averaged
9 1,1-Dichloroethene	0.27379	0.28085	0.28085	0.000	2.57997	20.00000	Averaged
11 Acetone	250	300	0.08534	0.000	20.16500	0.000e+000	Linear
12 Iodomethane	100	90.24338	0.31289	0.000	-9.75662	0.000e+000	Linear
13 Carbon Disulfide	100	113	0.68183	0.000	12.78454	0.000e+000	Linear
14 allyl chloride	100	119	0.44777	0.000	19.27332	0.000e+000	Linear
145 Acetonitrile	1000	1193	0.04478	0.000	19.27332	0.000e+000	Linear
138 Methyl Acetate	50.00000	60.08250	0.42669	0.000	20.16500	0.000e+000	Linear
15 Methylene Chloride	50.00000	54.19384	0.29655	0.000	8.38768	0.000e+000	Linear
16 Acrylonitrile	1000	1283	0.12389	0.000	28.34007	0.000e+000	Linear
19 Methyl-tert-butyl ether	0.79512	0.78157	0.78157	0.000	-1.70354	20.00000	Averaged
18 1,2-Dichloroethene (trans)	50.00000	51.16269	0.28180	0.000	2.32538	0.000e+000	Linear
20 n-Hexane	0.37194	0.39684	0.39684	0.000	6.69488	20.00000	Averaged
21 1,1-Dichloroethane	0.55078	0.58016	0.58016	0.000	5.33407	20.00000	Averaged
23 Vinyl Acetate	200	259	0.76922	0.000	29.42922	0.000e+000	Linear
140 Ethyl acetate	0.02645	0.02866	0.02866	0.000	8.32562	20.00000	Averaged
147 Chloroprene	0.48217	0.51493	0.51493	0.000	6.79562	20.00000	Averaged
24 2,2-Dichloropropane	0.47606	0.49893	0.49893	0.000	4.80576	20.00000	Averaged
25 1,2-Dichloroethene (cis)	0.36802	0.36684	0.36684	0.000	-0.32057	20.00000	Averaged
26 2-Butanone	250	298	0.18226	0.000	19.19312	0.000e+000	Linear
27 Propionitrile	0.05274	0.05795	0.05795	0.000	9.87615	20.00000	Averaged
29 Bromochloromethane	50.00000	59.35212	0.28499	0.000	18.70424	0.000e+000	Linear
146 Methacrylonitrile	250	291	0.04797	0.000	16.47935	0.000e+000	Linear
31 Chloroform	0.54825	0.57867	0.57867	0.000	5.54694	20.00000	Averaged
32 Dibromofluoromethane (S)	0.31397	0.31302	0.31302	0.000	-0.30315	20.00000	Averaged
33 1,1,1-Trichloroethane	0.49662	0.53010	0.53010	0.000	6.74118	20.00000	Averaged
30 Tetrahydrofuran	50.00000	58.93076	0.13510	0.000	17.86152	0.000e+000	Linear
34 cyclohexane	0.54705	0.56979	0.56979	0.000	4.15837	20.00000	Averaged
37 Isobutyl alcohol	50.00000	58.04253	0.91131	0.000	16.08506	0.000e+000	Linear
35 Carbon Tetrachloride	0.43746	0.47224	0.47224	0.000	7.94953	20.00000	Averaged
36 1,1-Dichloropropene	0.39886	0.43756	0.43756	0.000	9.70396	20.00000	Averaged
38 Benzene	1.13296	1.14931	1.14931	0.000	1.44328	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 19-MAY-2010 14:53
Lab File ID: A08-5CAL-CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: 50ppb Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\A08-5CAL-CCV.D

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 isopropyl acetate	+++	+++	+++	0.000	+++	20.00000	Averaged<-
39 1,2-Dichloroethane	0.40070	0.41556	0.41556	0.000	3.70782	20.00000	Averaged
41 Trichloroethene	0.31404	0.32860	0.32860	0.000	4.63652	20.00000	Averaged
139 Methylcyclohexane	0.39414	0.40776	0.40776	0.000	3.45489	20.00000	Averaged
42 1,2-Dichloropropane	0.29044	0.30917	0.30917	0.000	6.44814	20.00000	Averaged
43 Dibromomethane	50.00000	53.79178	0.22072	0.000	7.58357	0.000e+000	Linear
44 Methyl methacrylate	50.00000	54.17889	0.24418	0.000	8.35777	0.000e+000	Linear
143 2,2,4-Trimethylpentane	50.00000	53.03387	0.77914	0.000	6.06774	0.000e+000	Linear
144 1,4-Dioxane	50.00000	63.35812	0.00239	0.000	26.71624	0.000e+000	Linear
45 Bromodichloromethane	0.41017	0.44650	0.44650	0.000	8.85697	20.00000	Averaged
46 2-Chloroethyl vinyl ether	0.30536	0.34810	0.34810	0.000	13.99698	20.00000	Averaged
47 cis-1,3-Dichloropropene	50.00000	58.93167	0.72228	0.000	17.86334	0.000e+000	Linear
48 4-Methyl-2-Pentanone	250	329	0.50928	0.000	31.41484	0.000e+000	Linear
49 Toluene-d8	1.16505	1.18179	1.18179	0.000	1.43691	20.00000	Averaged
50 Toluene	1.56945	1.62323	1.62323	0.000	3.42712	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.61049	0.69856	0.69856	0.000	14.42640	20.00000	Averaged
52 Ethyl Methacrylate	0.55936	0.64746	0.64746	0.000	15.75086	20.00000	Averaged
53 1,1,2-Trichloroethane	50.00000	58.03982	0.32334	0.000	16.07964	0.000e+000	Linear
54 Tetrachloroethene	0.45030	0.46803	0.46803	0.000	3.93622	20.00000	Averaged
55 1,3-Dichloropropane	0.65200	0.70921	0.70921	0.000	8.77488	20.00000	Averaged
56 2-Hexanone	0.31624	0.35784	0.35784	0.000	13.15393	20.00000	Averaged
57 Dibromochloromethane	0.44325	0.50940	0.50940	0.000	14.92523	20.00000	Averaged
58 1,2-Dibromoethane	0.43570	0.47548	0.47548	0.000	9.13038	20.00000	Averaged
60 Chlorobenzene	1.06487	1.09323	1.09323	0.300	2.66319	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	0.39893	0.44102	0.44102	0.000	10.55223	20.00000	Averaged
62 Ethylbenzene	0.55227	0.56224	0.56224	0.000	1.80513	20.00000	Averaged
63 m&p-Xylene	100	108	0.70323	0.000	8.41771	0.000e+000	Linear
65 o-Xylene	0.66801	0.71116	0.71116	0.000	6.46070	20.00000	Averaged
66 Styrene	1.11915	1.19492	1.19492	0.000	6.77032	20.00000	Averaged
67 Bromoform	50.00000	54.67869	0.76388	0.000	9.35738	0.000e+000	Linear
68 Isopropylbenzene	1.64864	1.70740	1.70740	0.000	3.56440	20.00000	Averaged
69 trans-1,4-Dichloro-2-butene	0.15759	0.18179	0.18179	0.000	15.35379	20.00000	Averaged
142 n-amyl acetate	+++	+++	+++	0.000	+++	20.00000	Averaged<-
70 4-Bromofluorobenzene	0.46248	0.46251	0.46251	0.000	0.00628	20.00000	Averaged
71 Bromobenzene	50.00000	58.52140	0.70627	0.000	17.04280	0.000e+000	Linear
72 1,1,1,2-Tetrachloroethane	1.07534	1.23817	1.23817	0.300	15.14200	20.00000	Averaged
73 1,2,3-Trichloropropane	50.00000	62.44636	1.47792	0.000	24.89273	0.000e+000	Linear
74 n-Propylbenzene	50.00000	61.55653	4.31908	0.000	23.11306	0.000e+000	Linear
75 2-Chlorotoluene	50.00000	59.91161	2.77872	0.000	19.82321	0.000e+000	Linear
77 1,3,5-Trimethylbenzene	2.75092	2.92469	2.92469	0.000	6.31651	20.00000	Averaged
76 4-Chlorotoluene	0.95880	0.96452	0.96452	0.000	0.59634	20.00000	Averaged
78 tert-Butylbenzene	3.27897	3.51089	3.51089	0.000	7.07285	20.00000	Averaged
79 1,2,4-Trimethylbenzene	50.00000	59.54202	2.96206	0.000	19.08403	0.000e+000	Linear

Pace Analytical Services, Inc.

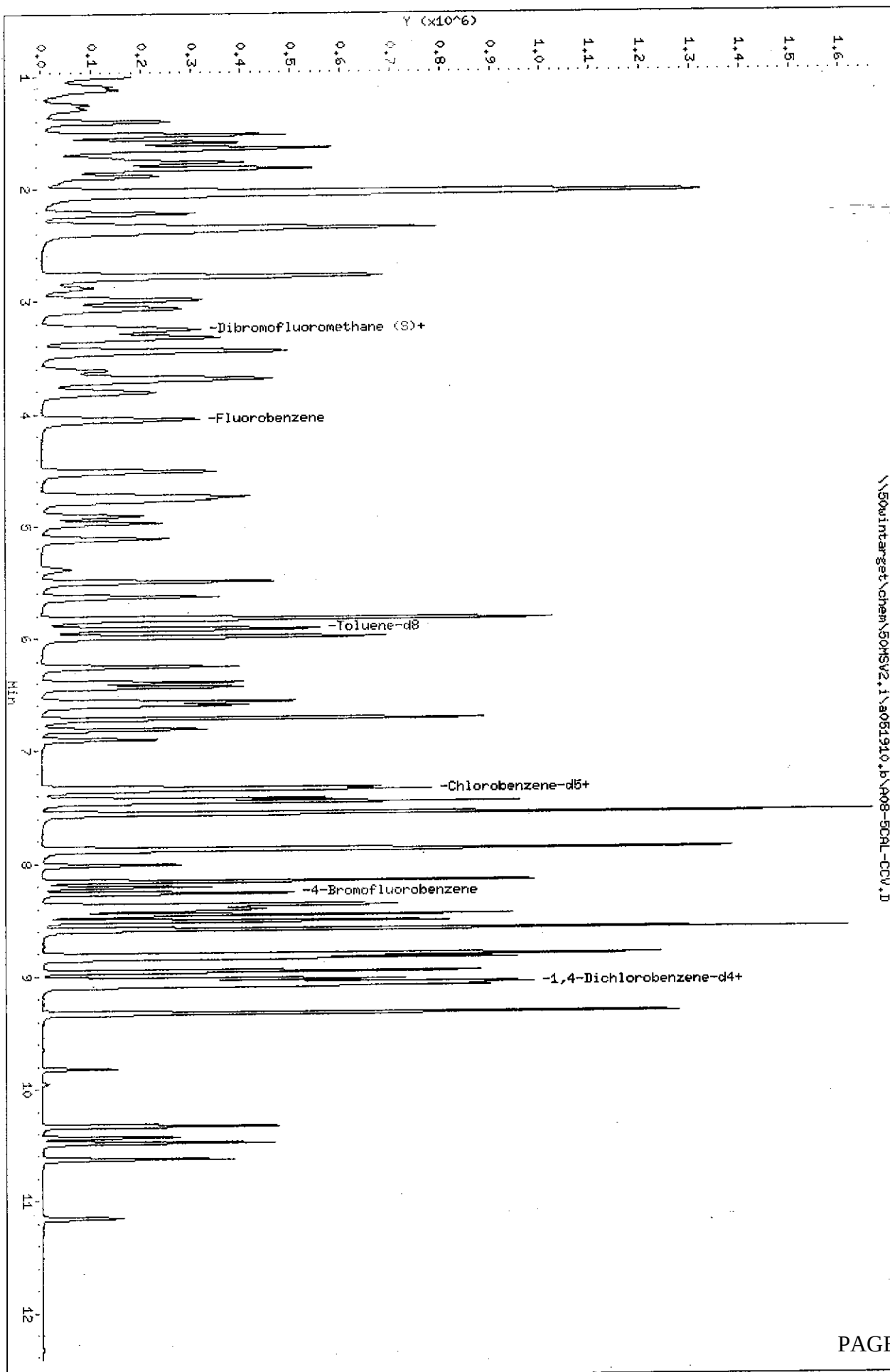
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 19-MAY-2010 14:53
 Lab File ID: A08-5CAL-CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
 Analysis Type: WATER Init. Cal. Times: 12:38 16:35
 Lab Sample ID: 50ppb Quant Type: ISTD
 Method: \\50wintarget\chem\50MSV2.i\A051910.b\8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	50.00000	58.11852	3.61089	0.000	16.23704	0.000e+000	Linear
81 1,3-Dichlorobenzene	50.00000	54.87444	1.80935	0.000	9.74888	0.000e+000	Linear
83 p-Isopropyltoluene	50.00000	55.66788	2.97624	0.000	11.33576	0.000e+000	Linear
84 1,4-Dichlorobenzene	50.00000	54.21338	1.83536	0.000	8.42675	0.000e+000	Linear
86 n-Butylbenzene	50.00000	61.02117	2.45581	0.000	22.04234	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.62596	1.75497	1.75497	0.000	7.93472	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	52.34888	0.19656	0.000	4.69776	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	54.66301	0.92904	0.000	9.32601	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	53.93292	0.26781	0.000	7.86584	0.000e+000	Linear
90 Naphthalene	2.21285	2.44690	2.44690	0.000	10.57702	20.00000	Averaged
91 1,2,3-Trichlorobenzene	50.00000	52.76510	0.74282	0.000	5.53019	0.000e+000	Linear
92 2-methyl-naphthalene	50.00000	47.81534	0.57885	0.000	-4.36932	0.000e+000	Linear

Data File: \\50wintarget\chem\50HSV2.i\A051910.b\A08-5CRL-CCV.D
 Date: 19-MAY-2010 14:53
 Client ID: ccv
 Sample Info: 50ppb
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: 50HSV2.i
 Operator: jlf
 Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A08-5CAL.D
 Lab Smp Id: 50ppb
 Inj Date : 19-MAY-2010 14:53
 Operator : jlf
 Smp Info : 50ppb
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
 Meth Date : 20-May-2010 11:51 50MSV2.i Quant Type: ISTD
 Cal Date : 19-MAY-2010 14:53 Cal File: A08-5CAL.D
 Als bottle: 17 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ppb)	(ppb)
1 Dichlorodifluoromethane	85		1.001	1.000 (0.247)		253717	50.0000	58.1
2 Chloromethane	50		1.089	1.083 (0.269)		209671	50.0000	50.9
3 Vinyl Chloride	62		1.120	1.124 (0.277)		189728	50.0000	55.9
4 Bromomethane	94		1.249	1.243 (0.309)		94291	50.0000	49.7
5 Chloroethane	64		1.125	1.119 (0.278)		59730	50.0000	53.1
6 Trichlorofluoromethane	101		1.404	1.388 (0.347)		247609	50.0000	54.5
28 1,2-dichlorotrifluoroethane	67		1.518	1.507 (0.375)		184752	50.0000	53.3
7 Diethyl ether	74		1.528	1.517 (0.377)		69541	50.0000	53.5
17 tert-Butyl Alcohol	59		1.952	1.982 (0.482)		30888	100.000	106 (M)
8 Acrolein	56		1.585	1.584 (0.391)		439907	1000.00	1100
10 1,1,2trichlorotrifluoroethane	101		1.637	1.615 (0.404)		149394	50.0000	52.1
9 1,1-Dichloroethene	96		1.642	1.631 (0.405)		126940	50.0000	51.3
11 Acetone	43		1.663	1.672 (0.411)		192854	250.000	300
12 Iodomethane	142		1.730	1.719 (0.427)		282841	100.000	90.2
13 Carbon Disulfide	76		1.766	1.750 (0.436)		616348	100.000	113 (M)
14 allyl chloride	41		1.818	1.812 (0.449)		404768	100.000	119
145 Acetonitrile	41		1.818	1.812 (0.449)		404768	1000.00	1190
138 Methyl Acetate	43		1.663	1.672 (0.411)		192854	50.0000	60.1 (Q)
15 Methylene Chloride	84		1.890	1.879 (0.467)		134033	50.0000	54.2
16 Acrylonitrile	53		2.025	2.034 (0.500)		1119888	1000.00	1280
19 Methyl-tert-butyl ether	73		2.050	2.050 (0.506)		706505	100.000	98.3
18 1,2-Dichloroethene (trans)	96		2.050	2.034 (0.506)		127366	50.0000	51.2
20 n-Hexane	57		2.221	2.205 (0.548)		179362	50.0000	53.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
21 1,1-Dichloroethane	63	2.319	2.313 (0.573)		262219	50.0000	52.7
23 Vinyl Acetate	43	2.350	2.349 (0.580)		1390687	200.000	259
140 Ethyl acetate	88	2.392	2.380 (0.590)		129523	500.000	542 (Q)
147 Chloroprene	53	2.386	2.380 (0.589)		232739	50.0000	53.4
24 2,2-Dichloropropane	77	2.774	2.768 (0.685)		225507	50.0000	52.4
25 1,2-Dichloroethene (cis)	96	2.769	2.768 (0.684)		165803	50.0000	49.8
26 2-Butanone	43	2.790	2.799 (0.689)		411891	250.000	298
27 Propionitrile	54	2.841	2.851 (0.701)		26190	50.0000	54.9 (Q)
29 Bromochloromethane	49	2.991	2.985 (0.738)		128809	50.0000	59.4 (M)
146 Methacrylonitrile	41	2.981	2.980 (0.736)		108410	250.000	291 (M)
31 Chloroform	83	3.069	3.063 (0.758)		261544	50.0000	52.8
S 32 Dibromofluoromethane (S)	113	3.229	3.228 (0.797)		141478	50.0000	49.8
33 1,1,1-Trichloroethane	97	3.260	3.254 (0.805)		239594	50.0000	53.4
30 Tetrahydrofuran	42	3.053	3.052 (0.754)		61063	50.0000	58.9
34 cyclohexane	56	3.317	3.316 (0.819)		257534	50.0000	52.1
37 Isobutyl alcohol	43	2.790	2.799 (0.689)		411891	50.0000	58.0
35 Carbon Tetrachloride	117	3.441	3.435 (0.849)		213440	50.0000	54.0
36 1,1-Dichloropropene	75	3.441	3.435 (0.849)		197769	50.0000	54.8
38 Benzene	78	3.679	3.678 (0.908)		519465	50.0000	50.7
39 1,2-Dichloroethane	62	3.710	3.703 (0.916)		187825	50.0000	51.8
* 40 Fluorobenzene	96	4.051	4.050 (1.000)		451978	50.0000	
41 Trichloroethene	95	4.516	4.510 (1.115)		148520	50.0000	52.3
139 Methylcyclohexane	55	4.738	4.732 (1.170)		184297	50.0000	51.7
42 1,2-Dichloropropane	63	4.774	4.773 (1.179)		139736	50.0000	53.2
43 Dibromomethane	93	4.909	4.908 (1.212)		99760	50.0000	53.8
44 Methyl methacrylate	69	4.976	4.975 (1.228)		110362	50.0000	54.2
143 2,2,4-Trimethylpentane	57	3.808	3.802 (0.940)		352156	50.0000	53.0
144 1,4-Dioxane	88	4.971	5.042 (1.227)		1081	50.0000	63.4 (Q)
45 Bromodichloromethane	83	5.115	5.114 (1.263)		201810	50.0000	54.4
46 2-Chloroethyl vinyl ether	63	5.498	5.502 (0.750)		223900	100.000	114
47 cis-1,3-Dichloropropene	75	5.632	5.631 (0.769)		232286	50.0000	58.9
48 4-Methyl-2-Pentanone	43	5.829	5.843 (0.795)		818928	250.000	328
\$ 49 Toluene-d8	98	5.916	5.921 (0.807)		380064	50.0000	50.7
50 Toluene	91	5.989	5.993 (0.817)		522033	50.0000	51.7
51 trans-1,3-Dichloropropene	75	6.252	6.257 (0.853)		224657	50.0000	57.2
52 Ethyl Methacrylate	69	6.392	6.401 (0.872)		208224	50.0000	57.9
53 1,1,2-Trichloroethane	83	6.433	6.443 (0.878)		103987	50.0000	58.0
54 Tetrachloroethene	166	6.568	6.567 (0.896)		150518	50.0000	52.0
55 1,3-Dichloropropane	76	6.599	6.603 (0.901)		228082	50.0000	54.4
56 2-Hexanone	43	6.718	6.727 (0.917)		575402	250.000	283
57 Dibromochloromethane	129	6.811	6.820 (0.929)		163824	50.0000	57.5
58 1,2-Dibromoethane	107	6.899	6.903 (0.941)		152916	50.0000	54.6
* 59 Chlorobenzene-d5	117	7.327	7.332 (1.000)		321601	50.0000	
60 Chlorobenzene	112	7.348	7.352 (1.003)		351583	50.0000	51.3
61 1,1,1,2-Tetrachloroethane	131	7.431	7.435 (1.014)		141833	50.0000	55.3
62 Ethylbenzene	106	7.457	7.461 (1.018)		180818	50.0000	50.9
63 m&p-Xylene	106	7.560	7.564 (1.032)		452322	100.000	108
65 o-Xylene	106	7.870	7.874 (1.074)		228711	50.0000	53.2
66 Styrene	104	7.886	7.890 (1.076)		384286	50.0000	53.4
67 Bromoform	173	8.015	8.014 (0.883)		103009	50.0000	54.7
68 Isopropylbenzene	105	8.160	8.164 (1.114)		549103	50.0000	51.8
69 trans-1,4-Dichloro-2-butene	53	8.423	8.427 (1.150)		58463	50.0000	57.7
\$ 70 4-Bromofluorobenzene	95	8.263	8.267 (1.128)		148744	50.0000	50.0
71 Bromobenzene	77	8.366	8.371 (1.142)		227137	50.0000	58.5

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
72 1,1,2,2-Tetrachloroethane	83	8.382	8.386	(0.924)	166966	50.0000	57.6
73 1,2,3-Trichloropropane	75	8.403	8.412	(0.926)	199296	50.0000	62.4
74 n-Propylbenzene	91	8.459	8.464	(0.932)	582423	50.0000	61.6
75 2-Chlorotoluene	91	8.511	8.515	(0.938)	374707	50.0000	59.9
77 1,3,5-Trimethylbenzene	105	8.583	8.588	(0.946)	394391	50.0000	53.2
76 4-Chlorotoluene	126	8.589	8.593	(0.946)	130064	50.0000	50.3
78 tert-Butylbenzene	119	8.811	8.815	(0.971)	473440	50.0000	53.5
79 1,2,4-Trimethylbenzene	105	8.842	8.846	(0.974)	399431	50.0000	59.5
80 sec-Butylbenzene	105	8.956	8.960	(0.987)	486925	50.0000	58.1
81 1,3-Dichlorobenzene	146	9.028	9.032	(0.995)	243989	50.0000	54.9
83 p-Isopropyltoluene	119	9.054	9.058	(0.998)	401343	50.0000	55.7
* 82 1,4-Dichlorobenzene-d4	152	9.074	9.073	(1.000)	134849	50.0000	
84 1,4-Dichlorobenzene	146	9.085	9.089	(1.001)	247496	50.0000	54.2
86 n-Butylbenzene	91	9.323	9.327	(1.027)	331164	50.0000	61.0
85 1,2-Dichlorobenzene	146	9.333	9.332	(1.028)	236656	50.0000	54.0
07 1,2-Dibromo-3-chloropropane	155	9.824	9.828	(1.083)	26506	50.0000	52.3
88 1,2,4-Trichlorobenzene	180	10.336	10.335	(1.139)	125280	50.0000	54.7
89 Hexachlorobutadiene	225	10.434	10.438	(1.150)	36114	50.0000	53.9
90 Naphthalene	128	10.485	10.484	(1.155)	329962	50.0000	55.3
91 1,2,3-Trichlorobenzene	180	10.630	10.629	(1.171)	100168	50.0000	52.8
92 2-methyl-naphthalene	142	11.157	11.156	(1.230)	78057	50.0000	47.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A08-5CAL.D
 Lab Smp Id: 50ppb
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\A08-5CAL.D
 Misc Info:

Calibration Date: 19-MAY-2010
 Calibration Time: 14:53

Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	451978	0.00
59 Chlorobenzene-d5	321601	160801	643202	321601	0.00
82 1,4-Dichlorobenze	134849	67425	269698	134849	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.05	0.00
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.00
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: a051910.b
Lab Smp Id: 50ppb	
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	58.1	
74-87-3	Chloromethane	50.9	
75-01-4	Vinyl Chloride	55.9	
74-83-9	Bromomethane	49.7	
75-00-3	Chloroethane	53.1	
75-69-4	Trichlorofluoromethane	54.5	
354-23-4	1,2-dichlorotrifluoroethane	53.3	
60-29-7	Diethyl ether	53.5	
75-65-0	tert-Butyl Alcohol	106	
107-02-8	Acrolein	1100	
76-13-1	1,1,2trichlorotrifluoroethan	52.1	
75-35-4	1,1-Dichloroethene	51.3	
67-64-1	Acetone	300	
	Iodomethane	90.2	
75-15-0	Carbon Disulfide	113	
107-05-1	allyl chloride	119	
75-05-8	Acetonitrile	1190	
79-20-9	Methyl Acetate	60.1	
75-09-2	Methylene Chloride	54.2	
107-13-1	Acrylonitrile	1280	
1634-04-4	Methyl-tert-butyl ether	98.3	
156-60-5	1,2-Dichloroethene (trans)	51.2	
	n-Hexane	53.3	
75-34-3	1,1-Dichloroethane	52.7	
108-05-4	Vinyl Acetate	259	
141-78-6	Ethyl acetate	542	
126-99-8	Chloroprene	53.4	
594-20-7	2,2-Dichloropropane	52.4	
156-59-2	1,2-Dichloroethene (cis)	49.8	
78-93-3	2-Butanone	298	
107-12-0	Propionitrile	54.9	
74-97-5	Bromochloromethane	59.4	
126-98-7	Methacrylonitrile	291	
67-66-3	Chloroform	52.8	
71-55-6	1,1,1-Trichloroethane	53.4	
	Tetrahydrofuran	58.9	
110-82-7	cyclohexane	52.1	
78-83-1	Isobutyl alcohol	58.0	
56-23-5	Carbon Tetrachloride	54.0	
563-58-6	1,1-Dichloropropene	54.8	
71-43-2	Benzene	50.7	
107-06-2	1,2-Dichloroethane	51.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 50ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	52.3	
108-87-2	Methylcyclohexane	51.7	
78-87-5	1,2-Dichloropropane	53.2	
74-95-3	Dibromomethane	53.8	
80-62-6	Methyl methacrylate	54.2	
540-84-1	2,2,4-Trimethylpentane	53.0	
	1,4-Dioxane	63.4	
75-27-4	Bromodichloromethane	54.4	
110-75-8	2-Chloroethyl vinyl ether	114	
10061-01-5	cis-1,3-Dichloropropene	58.9	
108-10-1	4-Methyl-2-Pentanone	328	
108-88-3	Toluene	51.7	
10061-02-6	trans-1,3-Dichloropropene	57.2	
	Ethyl Methacrylate	57.9	
79-00-5	1,1,2-Trichloroethane	58.0	
127-18-4	Tetrachloroethene	52.0	
142-28-9	1,3-Dichloropropane	54.4	
591-78-6	2-Hexanone	283	
124-48-1	Dibromochloromethane	57.5	
106-93-4	1,2-Dibromoethane	54.6	
108-90-7	Chlorobenzene	51.3	
630-20-6	1,1,1,2-Tetrachloroethane	55.3	
100-41-4	Ethylbenzene	50.9	
7816-60-0	m&p-Xylene	108	
95-47-6	o-Xylene	53.2	
100-42-5	Styrene	53.4	
75-25-2	Bromoform	54.7	
98-82-8	Isopropylbenzene	51.8	
	trans-1,4-Dichloro-2-butene	57.7	
108-86-1	Bromobenzene	58.5	
79-34-5	1,1,2,2-Tetrachloroethane	57.6	
96-18-4	1,2,3-Trichloropropane	62.4	
103-65-1	n-Propylbenzene	61.6	
95-49-8	2-Chlorotoluene	59.9	
108-67-8	1,3,5-Trimethylbenzene	53.2	
106-43-4	4-Chlorotoluene	50.3	
98-06-6	tert-Butylbenzene	53.5	
95-63-6	1,2,4-Trimethylbenzene	59.5	
135-98-8	sec-Butylbenzene	58.1	
541-73-1	1,3-Dichlorobenzene	54.9	
99-87-6	p-Isopropyltoluene	55.7	
106-46-7	1,4-Dichlorobenzene	54.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a051910.b
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8-----	n-Butylbenzene	61.0	
95-50-1-----	1,2-Dichlorobenzene	54.0	
96-12-8-----	1,2-Dibromo-3-chloropropane	52.3	
120-82-1-----	1,2,4-Trichlorobenzene	54.7	
87-68-3-----	Hexachlorobutadiene	53.9	
91-20-3-----	Naphthalene	55.3	
87-61-6-----	1,2,3-Trichlorobenzene	52.8	
-----	2,methyl-naphthalene	47.8	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	49.8	
2037-26-5-----	Toluene-d8	50.7	
460-00-4-----	4-Bromofluorobenzene	50.0	

Date : 19-MAY-2010 14:53

Client ID:

Sample Info: 50ppb

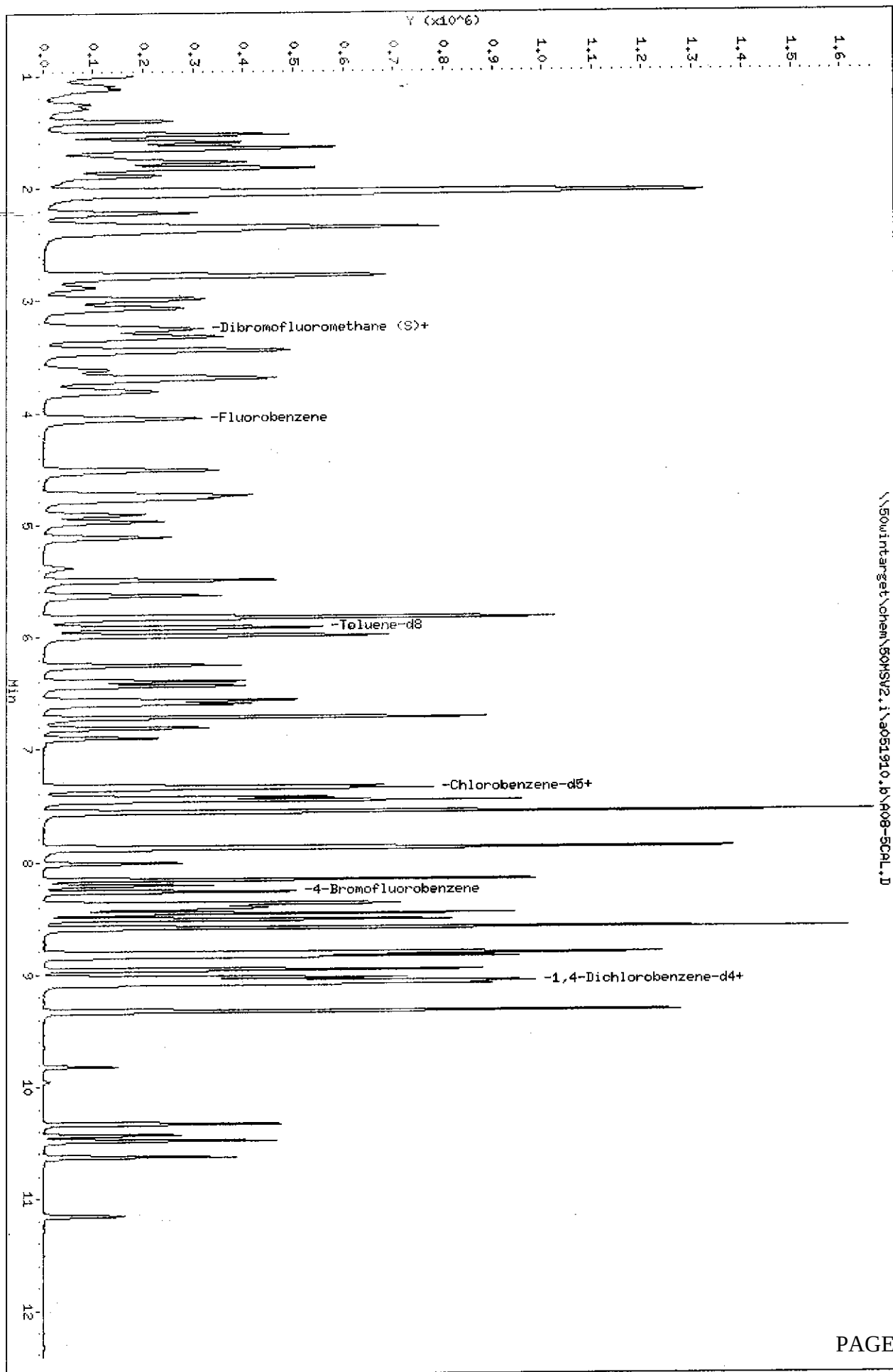
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A09-6CAL.D
 Lab Smp Id: 100ppb
 Inj Date : 19-MAY-2010 15:27
 Operator : jlf
 Smp Info : 100ppb
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A051910.b\A09-6CAL.D
 Meth Date : 20-May-2010 11:51 50MSV2.i
 Cal Date : 19-MAY-2010 15:27
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 50MSV2.i
 Quant Type: ISTD
 Cal File: A09-6CAL.D
 Calibration Sample, Level: 6
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.001	1.000 (0.247)		478474	100.000	106
2 Chloromethane	50	1.084	1.083 (0.268)		404683	100.000	95.3
3 Vinyl Chloride	62	1.120	1.124 (0.277)		353427	100.000	101
4 Bromomethane	94	1.244	1.243 (0.307)		141071	100.000	73.0
5 Chloroethane	64	1.120	1.119 (0.277)		111288	100.000	96.4
6 Trichlorofluoromethane	101	1.399	1.388 (0.346)		425573	100.000	90.8
28 1,2-dichlorotrifluoroethane	67	1.513	1.507 (0.374)		330919	100.000	92.5
7 Diethyl ether	74	1.523	1.517 (0.376)		128038	100.000	95.5
17 tert-Butyl Alcohol	59	1.952	1.982 (0.482)		56607	200.000	188 (M)
8 Acrolein	56	1.585	1.584 (0.391)		790333	2000.00	1910
10 1,1,2-trichlorotrifluoroethane	101	1.632	1.615 (0.403)		273960	100.000	92.6
9 1,1-Dichloroethene	96	1.637	1.631 (0.404)		228786	100.000	89.6
11 Acetone	43	1.663	1.672 (0.411)		329044	500.000	518
12 Iodomethane	142	1.725	1.719 (0.426)		639486	200.000	192
13 Carbon Disulfide	76	1.766	1.750 (0.436)		1109474	200.000	202 (M)
14 allyl chloride	41	1.818	1.812 (0.449)		711123	200.000	209
145 Acetonitrile	41	1.818	1.812 (0.449)		711123	2000.00	2090
138 Methyl Acetate	43	1.663	1.672 (0.411)		329044	100.000	104 (Q)
15 Methylene Chloride	84	1.885	1.879 (0.465)		244522	100.000	99.3
16 Acrylonitrile	53	2.025	2.034 (0.500)		1906848	2000.00	2220
19 Methyl-tert-butyl ether	73	2.051	2.050 (0.506)		1230283	200.000	166
18 1,2-Dichloroethene (trans)	96	2.045	2.034 (0.505)		243051	100.000	94.5
20 n-Hexane	57	2.216	2.205 (0.547)		332886	100.000	96.0

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
21 1,1-Dichloroethane	63	2.319	2.313	(0.573)	478524	100.000	93.2
23 Vinyl Acetate	43	2.350	2.349	(0.580)	2380560	400.000	451
140 Ethyl acetate	88	2.386	2.380	(0.589)	237630	1000.00	964 (Q)
147 Chloroprene	53	2.386	2.380	(0.589)	427657	100.000	95.2
24 2,2-Dichloropropane	77	2.769	2.768	(0.684)	407377	100.000	91.8
25 1,2-Dichloroethene (cis)	96	2.774	2.768	(0.685)	305458	100.000	89.0
26 2-Butanone	43	2.790	2.799	(0.689)	711514	500.000	521
27 Propionitrile	54	2.846	2.851	(0.703)	50642	100.000	103 (Q)
29 Bromochloromethane	49	2.986	2.985	(0.737)	230260	100.000	108 (M)
146 Methacrylonitrile	41	2.976	2.980	(0.735)	190205	500.000	508 (M)
31 Chloroform	83	3.069	3.063	(0.758)	481194	100.000	94.2
\$ 32 Dibromofluoromethane (S)	113	3.229	3.228	(0.797)	145175	50.0000	49.6
33 1,1,1-Trichloroethane	97	3.260	3.254	(0.805)	453360	100.000	97.9
30 Tetrahydrofuran	42	3.048	3.052	(0.752)	101211	100.000	104
34 cyclohexane	56	3.317	3.316	(0.819)	473747	100.000	92.9
37 Isobutyl alcohol	43	2.790	2.799	(0.689)	711514	100.000	103
35 Carbon Tetrachloride	117	3.436	3.435	(0.848)	400530	100.000	98.2
36 1,1-Dichloropropene	75	3.441	3.435	(0.849)	359784	100.000	96.8
38 Benzene	78	3.679	3.678	(0.908)	965852	100.000	91.5
39 1,2-Dichloroethane	62	3.704	3.703	(0.915)	350751	100.000	93.9
* 40 Fluorobenzene	96	4.051	4.050	(1.000)	466038	50.0000	
41 Trichloroethene	95	4.511	4.510	(1.114)	280805	100.000	95.9
139 Methylcyclohexane	55	4.733	4.732	(1.168)	350256	100.000	95.3
42 1,2-Dichloropropane	63	4.774	4.773	(1.179)	260352	100.000	96.2
43 Dibromomethane	93	4.909	4.908	(1.212)	189251	100.000	100
44 Methyl methacrylate	69	4.971	4.975	(1.227)	209295	100.000	101
143 2,2,4-Trimethylpentane	57	3.808	3.802	(0.940)	675239	100.000	100
144 1,4-Dioxane	88	4.981	5.042	(1.230)	2381	100.000	89.4
45 Bromodichloromethane	83	5.110	5.114	(1.262)	385952	100.000	101
46 2-Chloroethyl vinyl ether	63	5.498	5.502	(0.750)	412809	200.000	194
47 cis-1,3-Dichloropropene	75	5.632	5.631	(0.769)	437897	100.000	105
48 4-Methyl-2-Pentanone	43	5.829	5.843	(0.795)	1423056	500.000	550
\$ 49 Toluene-d8	98	5.917	5.921	(0.807)	394727	50.0000	48.7
50 Toluene	91	5.989	5.993	(0.817)	972789	100.000	89.1
51 trans-1,3-Dichloropropene	75	6.252	6.257	(0.853)	429018	100.000	101
52 Ethyl Methacrylate	69	6.392	6.401	(0.872)	385903	100.000	99.2
53 1,1,2-Trichloroethane	83	6.439	6.443	(0.879)	195747	100.000	103
54 Tetrachloroethene	166	6.568	6.567	(0.896)	302067	100.000	96.4
55 1,3-Dichloropropane	76	6.599	6.603	(0.901)	424473	100.000	93.6
56 2-Hexanone	43	6.718	6.727	(0.917)	1019743	500.000	463
57 Dibromochloromethane	129	6.811	6.820	(0.929)	325917	100.000	106
58 1,2-Dibromoethane	107	6.899	6.903	(0.941)	287981	100.000	95.0
* 59 Chlorobenzene-d5	117	7.328	7.332	(1.000)	347880	50.0000	
60 Chlorobenzene	112	7.353	7.352	(1.004)	671859	100.000	90.7
61 1,1,1,2-Tetrachloroethane	131	7.431	7.435	(1.014)	275792	100.000	99.4
62 Ethylbenzene	106	7.457	7.461	(1.018)	342930	100.000	89.2
63 m&p-Xylene	106	7.560	7.564	(1.032)	867999	200.000	194
65 o-Xylene	106	7.870	7.874	(1.074)	447278	100.000	96.2
66 Styrene	104	7.886	7.890	(1.076)	727201	100.000	93.4
67 Bromoform	173	8.015	8.014	(0.883)	205336	100.000	96.8
68 Isopropylbenzene	105	8.160	8.164	(1.114)	1042136	100.000	90.8
69 trans-1,4-Dichloro-2-butene	53	8.423	8.427	(1.150)	109479	100.000	99.8
\$ 70 4-Bromofluorobenzene	95	8.263	8.267	(1.128)	161155	50.0000	50.1
71 Bromobenzene	77	8.366	8.371	(1.142)	432859	100.000	107

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
72 1,1,2,2-Tetrachloroethane	83	8.382	8.386 (0.924)		310060	100.000	95.3
73 1,2,3-Trichloropropane	75	8.408	8.412 (0.927)		366177	100.000	105
74 n-Propylbenzene	91	8.459	8.464 (0.932)		1078511	100.000	105
75 2-Chlorotoluene	91	8.511	8.515 (0.938)		708535	100.000	104
77 1,3,5-Trimethylbenzene	105	8.583	8.588 (0.946)		748395	100.000	89.9
76 4-Chlorotoluene	126	8.589	8.593 (0.946)		262855	100.000	90.6
78 tert-Butylbenzene	119	8.811	8.815 (0.971)		911587	100.000	91.9
79 1,2,4-Trimethylbenzene	105	8.842	8.846 (0.974)		747139	100.000	102
80 sec-Butylbenzene	105	8.961	8.960 (0.987)		939597	100.000	102
81 1,3-Dichlorobenzene	146	9.028	9.032 (0.995)		476888	100.000	96.3
83 p-Isopropyltoluene	119	9.054	9.058 (0.998)		789303	100.000	99.0
* 82 1,4-Dichlorobenzene-d4	152	9.074	9.073 (1.000)		151306	50.0000	
84 1,4-Dichlorobenzene	146	9.090	9.089 (1.002)		496456	100.000	97.6
86 n-Butylbenzene	91	9.323	9.327 (1.027)		624405	100.000	106
85 1,2-Dichlorobenzene	146	9.333	9.332 (1.028)		463515	100.000	94.2
87 1,2-Dibromo-3-chloropropane	155	9.824	9.828 (1.083)		55343	100.000	97.0
88 1,2,4-Trichlorobenzene	180	10.336	10.335 (1.139)		249299	100.000	97.6
89 Hexachlorobutadiene	225	10.434	10.438 (1.150)		70534	100.000	93.9
90 Naphthalene	128	10.485	10.484 (1.155)		653806	100.000	97.6
91 1,2,3-Trichlorobenzene	180	10.630	10.629 (1.171)		205630	100.000	96.6
92 2-methyl-naphthalene	142	11.157	11.156 (1.230)		170081	100.000	88.1 (H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A09-6CAL.D
 Lab Smp Id: 100ppb
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\A09-6CAL.D
 Misc Info:

Calibration Date: 19-MAY-2010
 Calibration Time: 14:53

Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	466038	3.11
59 Chlorobenzene-d5	321601	160801	643202	347880	8.17
82 1,4-Dichlorobenze	134849	67425	269698	151306	12.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.05	0.00
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.00
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 100ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	106	
74-87-3	Chloromethane	95.3	
75-01-4	Vinyl Chloride	101	
74-83-9	Bromomethane	73.0	
75-00-3	Chloroethane	96.4	
75-69-4	Trichlorofluoromethane	90.8	
354-23-4	1,2-dichlorotrifluoroethane	92.5	
60-29-7	Diethyl ether	95.5	
75-65-0	tert-Butyl Alcohol	188	
107-02-8	Acrolein	1910	
76-13-1	1,1,2trichlorotrifluoroethan	92.6	
75-35-4	1,1-Dichloroethene	89.6	
67-64-1	Acetone	518	
	Iodomethane	192	
75-15-0	Carbon Disulfide	202	
107-05-1	allyl chloride	209	
75-05-8	Acetonitrile	2090	
79-20-9	Methyl Acetate	104	
75-09-2	Methylene Chloride	99.3	
107-13-1	Acrylonitrile	2220	
1634-04-4	Methyl-tert-butyl ether	166	
156-60-5	1,2-Dichloroethene (trans)	94.5	
	n-Hexane	96.0	
75-34-3	1,1-Dichloroethane	93.2	
108-05-4	Vinyl Acetate	451	
141-78-6	Ethyl acetate	964	
126-99-8	Chloroprene	95.2	
594-20-7	2,2-Dichloropropane	91.8	
156-59-2	1,2-Dichloroethene (cis)	89.0	
78-93-3	2-Butanone	521	
107-12-0	Propionitrile	103	
74-97-5	Bromochloromethane	108	
126-98-7	Methacrylonitrile	508	
67-66-3	Chloroform	94.2	
71-55-6	1,1,1-Trichloroethane	97.9	
	Tetrahydrofuran	104	
110-82-7	cyclohexane	92.9	
78-83-1	Isobutyl alcohol	103	
56-23-5	Carbon Tetrachloride	98.2	
563-58-6	1,1-Dichloropropene	96.8	
71-43-2	Benzene	91.5	
107-06-2	1,2-Dichloroethane	93.9	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 100ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	95.9	
108-87-2	Methylcyclohexane	95.3	
78-87-5	1,2-Dichloropropane	96.2	
74-95-3	Dibromomethane	100	
80-62-6	Methyl methacrylate	101	
540-84-1	2,2,4-Trimethylpentane	100	
	1,4-Dioxane	89.4	
75-27-4	Bromodichloromethane	101	
110-75-8	2-Chloroethyl vinyl ether	194	
10061-01-5	cis-1,3-Dichloropropene	105	
108-10-1	4-Methyl-2-Pentanone	550	
108-88-3	Toluene	89.1	
10061-02-6	trans-1,3-Dichloropropene	101	
	Ethyl Methacrylate	99.2	
79-00-5	1,1,2-Trichloroethane	103	
127-18-4	Tetrachloroethene	96.4	
142-28-9	1,3-Dichloropropane	93.6	
591-78-6	2-Hexanone	463	
124-48-1	Dibromochloromethane	106	
106-93-4	1,2-Dibromoethane	95.0	
108-90-7	Chlorobenzene	90.7	
630-20-6	1,1,1,2-Tetrachloroethane	99.4	
100-41-4	Ethylbenzene	89.2	
7816-60-0	m&p-Xylene	194	
95-47-6	o-Xylene	96.2	
100-42-5	Styrene	93.4	
75-25-2	Bromoform	96.8	
98-82-8	Isopropylbenzene	90.8	
	trans-1,4-Dichloro-2-butene	99.8	
108-86-1	Bromobenzene	107	
79-34-5	1,1,2,2-Tetrachloroethane	95.3	
96-18-4	1,2,3-Trichloropropane	105	
103-65-1	n-Propylbenzene	105	
95-49-8	2-Chlorotoluene	104	
108-67-8	1,3,5-Trimethylbenzene	89.9	
106-43-4	4-Chlorotoluene	90.6	
98-06-6	tert-Butylbenzene	91.9	
95-63-6	1,2,4-Trimethylbenzene	102	
135-98-8	sec-Butylbenzene	102	
541-73-1	1,3-Dichlorobenzene	96.3	
99-87-6	p-Isopropyltoluene	99.0	
106-46-7	1,4-Dichlorobenzene	97.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 100ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8-----	n-Butylbenzene	106	
95-50-1-----	1,2-Dichlorobenzene	94.2	
96-12-8-----	1,2-Dibromo-3-chloropropane	97.0	
120-82-1-----	1,2,4-Trichlorobenzene	97.6	
87-68-3-----	Hexachlorobutadiene	93.9	
91-20-3-----	Naphthalene	97.6	
87-61-6-----	1,2,3-Trichlorobenzene	96.6	
-----	2,methyl-naphthalene	88.1	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	49.6	
2037-26-5-----	Toluene-d8	48.7	
460-00-4-----	4-Bromofluorobenzene	50.1	

Data File: \\50wintarget\chem\50HSV2.i\A051910.b\A09-6CAL.D
Date: 19-May-2010 15:27

Client ID:

Sample Info: 100ppb

Purge Volume: 5.0

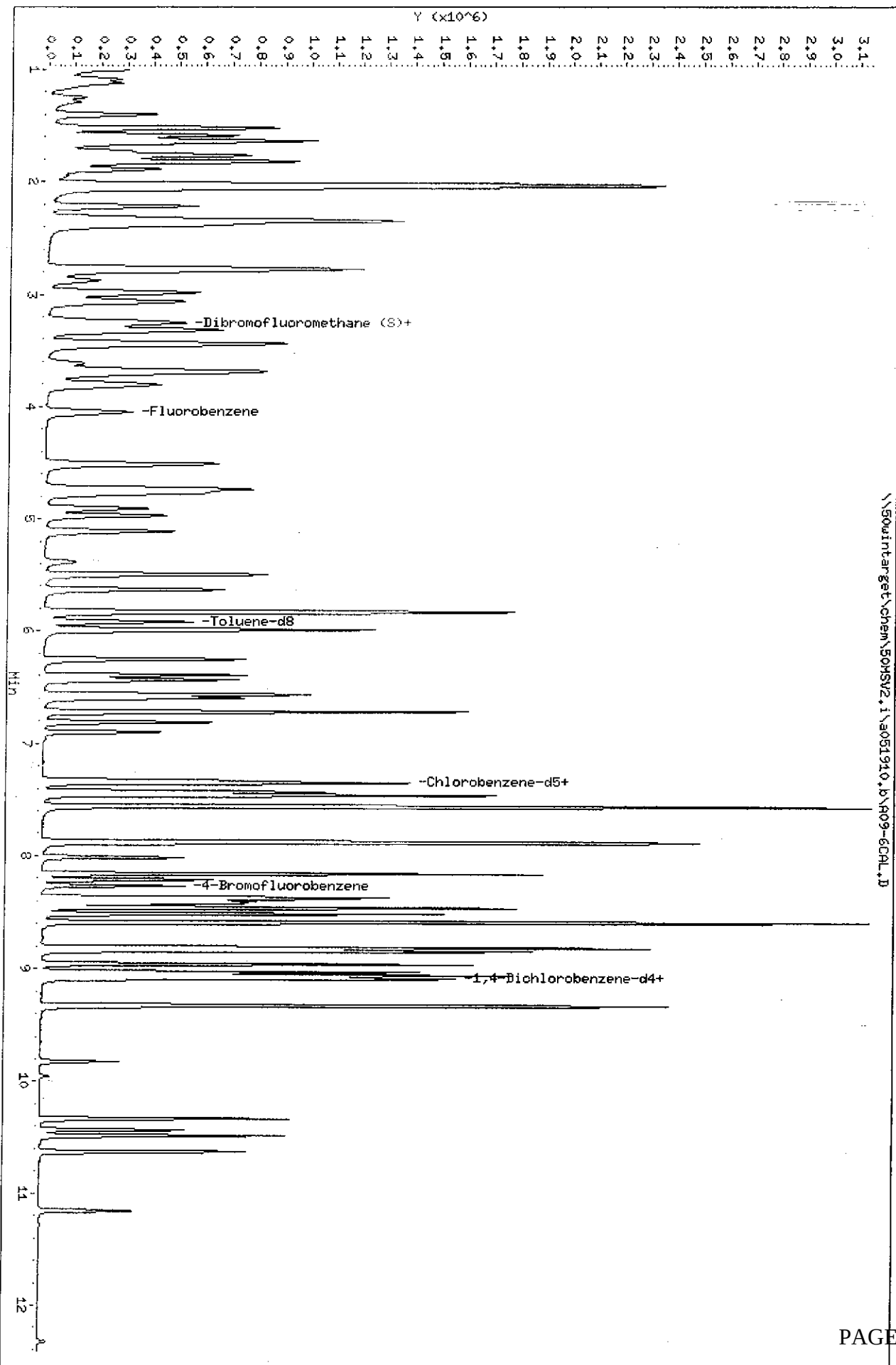
Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18

\\50wintarget\chem\50HSV2.i\A051910.b\A09-6CAL.D



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\051910.b\A10-7CAL.D
Lab Smp Id: 200ppb
Inj Date : 19-MAY-2010 16:01
Operator : jlf
Smp Info : 200ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\051910.b\8260-cl.m
Meth Date : 20-May-2010 11:51 50MSV2.i Quant Type: ISTD
Cal Date : 19-MAY-2010 16:01 Cal File: A10-7CAL.D
Als bottle: 21 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.997	1.000 (0.247)		914528	200.000	224
2 Chloromethane	50	1.080	1.083 (0.267)		843468	200.000	220
3 Vinyl Chloride	62	1.116	1.124 (0.276)		679124	200.000	214
4 Bromomethane	94	1.240	1.243 (0.307)		119183	200.000	68.1
5 Chloroethane	64	1.121	1.119 (0.277)		219380	200.000	211
6 Trichlorofluoromethane	103	1.410	1.388 (0.349)		413111	200.000	97.4
28 1,2-dichlorotrifluoroethane	67	1.508	1.507 (0.373)		607505	200.000	188
7 Diethyl ether	74	1.519	1.517 (0.375)		240841	200.000	198
17 tert-Butyl Alcohol	59	1.968	1.982 (0.487)		109581	400.000	403 (M)
8 Acrolein	56	1.581	1.584 (0.391)		1445806	4000.00	3860
10 1,1,2-trichlorotrifluoroethane	101	1.622	1.615 (0.401)		508517	200.000	190
9 1,1-Dichloroethene	96	1.632	1.631 (0.404)		430343	200.000	186
11 Acetone	43	1.663	1.672 (0.411)		597338	1000.00	1070
12 Iodomethane	142	1.720	1.719 (0.425)		1315915	400.000	430
13 Carbon Disulfide	76	1.756	1.750 (0.434)		2046940	400.000	420 (M)
14 allyl chloride	41	1.813	1.812 (0.448)		1177571	400.000	389
145 Acetonitrile	41	1.813	1.812 (0.448)		1177571	4000.00	3890
138 Methyl Acetate	43	1.663	1.672 (0.411)		597338	200.000	214 (Q)
15 Methylene Chloride	84	1.880	1.879 (0.465)		456126	200.000	210
16 Acrylonitrile	53	2.025	2.034 (0.501)		3164281	4000.00	4200
19 Methyl-tert-butyl ether	73	2.046	2.050 (0.506)		2132751	400.000	318
18 1,2-Dichloroethene (trans)	96	2.035	2.034 (0.503)		469587	200.000	202
20 n-Hexane	57	2.211	2.205 (0.547)		595943	200.000	190

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)
						ON-COL (ppb)
21 1,1-Dichloroethane	63	2.315	2.313 (0.572)		858479	200.000 185
23 Vinyl Acetate	43	2.346	2.349 (0.580)		3914703	800.000 845
140 Ethyl acetate	88	2.382	2.380 (0.589)		441798	2000.00 1980(Q)
147 Chloroprene	53	2.382	2.380 (0.589)		746844	200.000 184
24 2,2-Dichloropropane	77	2.764	2.768 (0.683)		720800	200.000 180
25 1,2-Dichloroethene (cis)	96	2.764	2.768 (0.683)		570187	200.000 184
26 2-Butanone	43	2.790	2.799 (0.690)		1230168	1000.00 1020
27 Propionitrile	54	2.847	2.851 (0.704)		94233	200.000 212
29 Bromochloromethane	49	2.986	2.985 (0.738)		393074	200.000 212(M)
146 Methacrylonitrile	41	2.976	2.980 (0.736)		344111	1000.00 1040(M)
31 Chloroform	83	3.064	3.063 (0.757)		873652	200.000 189
\$ 32 Dibromofluoromethane (S)	113	3.229	3.228 (0.798)		127725	50.0000 48.2
33 1,1,1-Trichloroethane	97	3.255	3.254 (0.805)		826283	200.000 197
30 Tetrahydrofuran	42	3.048	3.052 (0.753)		170538	200.000 206
34 cyclohexane	56	3.317	3.316 (0.820)		854857	200.000 185
37 Isobutyl alcohol	43	2.790	2.799 (0.690)		1230168	200.000 205
35 Carbon Tetrachloride	117	3.436	3.435 (0.849)		735130	200.000 199
36 1,1-Dichloropropene	75	3.436	3.435 (0.849)		639415	200.000 190
38 Benzene	78	3.679	3.678 (0.909)		1735997	200.000 182
39 1,2-Dichloroethane	62	3.705	3.703 (0.916)		613716	200.000 182
* 40 Fluorobenzene	96	4.046	4.050 (1.000)		421692	50.0000
41 Trichloroethene	95	4.506	4.510 (1.114)		513822	200.000 194
139 Methylcyclohexane	55	4.733	4.732 (1.170)		622219	200.000 187
42 1,2-Dichloropropane	63	4.775	4.773 (1.180)		467746	200.000 191
43 Dibromomethane	93	4.904	4.908 (1.212)		349061	200.000 206
44 Methyl methacrylate	69	4.971	4.975 (1.229)		375063	200.000 203
143 2,2,4-Trimethylpentane	57	3.803	3.802 (0.940)		1255692	200.000 207
144 1,4-Dioxane	88	4.982	5.042 (1.231)		6646	200.000 192(Q)
45 Bromodichloromethane	83	5.111	5.114 (1.263)		699301	200.000 202
46 2-Chloroethyl vinyl ether	63	5.498	5.502 (0.750)		720258	400.000 369
47 cis-1,3-Dichloropropene	75	5.633	5.631 (0.769)		769926	200.000 205
48 4-Methyl-2-Pentanone	43	5.834	5.843 (0.796)		2397655	1000.00 1040
\$ 49 Toluene-d8	98	5.917	5.921 (0.807)		360648	50.0000 48.4
50 Toluene	91	5.989	5.993 (0.817)		1729851	200.000 172
51 trans-1,3-Dichloropropene	75	6.253	6.257 (0.853)		764835	200.000 196
52 Ethyl Methacrylate	69	6.398	6.401 (0.873)		684346	200.000 191
53 1,1,2-Trichloroethane	83	6.439	6.443 (0.879)		349547	200.000 204
54 Tetrachloroethene	166	6.568	6.567 (0.896)		587384	200.000 204
55 1,3-Dichloropropane	76	6.599	6.603 (0.901)		750737	200.000 180
56 2-Hexanone	43	6.723	6.727 (0.917)		1721595	1000.00 852
57 Dibromochloromethane	129	6.816	6.820 (0.930)		619244	200.000 218
58 1,2-Dibromoethane	107	6.904	6.903 (0.942)		540675	200.000 194
* 59 Chlorobenzene-d5	117	7.328	7.332 (1.000)		319664	50.0000
60 Chlorobenzene	112	7.354	7.352 (1.004)		1245208	200.000 183
61 1,1,1,2-Tetrachloroethane	131	7.431	7.435 (1.014)		529263	200.000 208
62 Ethylbenzene	106	7.462	7.461 (1.018)		658663	200.000 186
63 m&p-Xylene	106	7.561	7.564 (1.032)		1645202	400.000 401
65 o-Xylene	106	7.876	7.874 (1.075)		847400	200.000 198
66 Styrene	104	7.886	7.890 (1.076)		1354025	200.000 189
67 Bromoform	173	8.015	8.014 (0.883)		392851	200.000 200
68 Isopropylbenzene	105	8.160	8.164 (1.114)		1887693	200.000 179
69 trans-1,4-Dichloro-2-butene	53	8.424	8.427 (1.150)		195543	200.000 194
\$ 70 4-Bromofluorobenzene	95	8.269	8.267 (1.128)		141165	50.0000 47.7
71 Bromobenzene	77	8.367	8.371 (1.142)		761004	200.000 210

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ppb)	(ppb)
=====	====	====	=====	=====	=====	=====	=====
72 1,1,2,2-Tetrachloroethane	83	8.388	8.386	(0.924)	543597	200.000	181
73 1,2,3-Trichloropropane	75	8.408	8.412	(0.927)	650044	200.000	207
74 n-Propylbenzene	91	8.465	8.464	(0.933)	1947010	200.000	210
75 2-Chlorotoluene	91	8.517	8.515	(0.938)	1274998	200.000	206
77 1,3,5-Trimethylbenzene	105	8.589	8.588	(0.946)	1391417	200.000	181
76 4-Chlorotoluene	126	8.594	8.593	(0.947)	544276	200.000	203 (Q)
78 tert-Butylbenzene	119	8.811	8.815	(0.971)	1732861	200.000	189
79 1,2,4-Trimethylbenzene	105	8.842	8.846	(0.974)	1373291	200.000	206
80 sec-Butylbenzene	105	8.961	8.960	(0.987)	1732863	200.000	207
81 1,3-Dichlorobenzene	146	9.028	9.032	(0.995)	924454	200.000	203
83 p-Isopropyltoluene	119	9.059	9.058	(0.998)	1498827	200.000	205
* 82 1,4-Dichlorobenzene-d4	152	9.075	9.073	(1.000)	139822	50.0000	(Q)
84 1,4-Dichlorobenzene	146	9.090	9.089	(1.002)	947746	200.000	202
86 n-Butylbenzene	91	9.323	9.327	(1.027)	1118920	200.000	209
85 1,2-Dichlorobenzene	146	9.333	9.332	(1.028)	904619	200.000	199
87 1,2-Dibromo-3-chloropropane	155	9.824	9.828	(1.083)	106941	200.000	202
88 1,2,4-Trichlorobenzene	180	10.336	10.335	(1.139)	482830	200.000	205
89 Hexachlorobutadiene	225	10.434	10.438	(1.150)	142853	200.000	206
90 Naphthalene	128	10.486	10.484	(1.155)	1248259	200.000	202
91 1,2,3-Trichlorobenzene	180	10.631	10.629	(1.171)	399924	200.000	203
92 2-methyl-naphthalene	142	11.158	11.156	(1.230)	-353128	200.000	192 (H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i

Lab File ID: A10-7CAL.D

Lab Smp Id: 200ppb

Analysis Type: VOA

Quant Type: ISTD

Operator: jlf

Method File: \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m

Misc Info:

Calibration Date: 19-MAY-2010

Calibration Time: 14:53

Level: LOW

Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.

If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	421692	-6.70
59 Chlorobenzene-d5	321601	160801	643202	319664	-0.60
82 1,4-Dichlorobenze	134849	67425	269698	139822	3.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.05	-0.12
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.08	0.01

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 200ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	224	
74-87-3	Chloromethane	220	
75-01-4	Vinyl Chloride	214	
74-83-9	Bromomethane	68.1	
75-00-3	Chloroethane	211	
75-69-4	Trichlorofluoromethane	97.4	
354-23-4	1,2-dichlorotrifluoroethane	188	
60-29-7	Diethyl ether	198	
75-65-0	tert-Butyl Alcohol	403	
107-02-8	Acrolein	3860	
76-13-1	1,1,2trichlorotrifluoroethan	190	
75-35-4	1,1-Dichloroethene	186	
67-64-1	Acetone	1070	
	Iodomethane	430	
75-15-0	Carbon Disulfide	420	
107-05-1	allyl chloride	389	
75-05-8	Acetonitrile	3890	
79-20-9	Methyl Acetate	214	
75-09-2	Methylene Chloride	210	
107-13-1	Acrylonitrile	4200	
1634-04-4	Methyl-tert-butyl ether	318	
156-60-5	1,2-Dichloroethene (trans)	202	
	n-Hexane	190	
75-34-3	1,1-Dichloroethane	185	
108-05-4	Vinyl Acetate	845	
141-78-6	Ethyl acetate	1980	
126-99-8	Chloroprene	184	
594-20-7	2,2-Dichloropropane	180	
156-59-2	1,2-Dichloroethene (cis)	184	
78-93-3	2-Butanone	1020	
107-12-0	Propionitrile	212	
74-97-5	Bromochloromethane	212	
126-98-7	Methacrylonitrile	1040	
67-66-3	Chloroform	189	
71-55-6	1,1,1-Trichloroethane	197	
	Tetrahydrofuran	206	
110-82-7	cyclohexane	185	
78-83-1	Isobutyl alcohol	205	
56-23-5	Carbon Tetrachloride	199	
563-58-6	1,1-Dichloropropene	190	
71-43-2	Benzene	182	
107-06-2	1,2-Dichloroethane	182	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 200ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	194	
108-87-2	Methylcyclohexane	187	
78-87-5	1,2-Dichloropropane	191	
74-95-3	Dibromomethane	206	
80-62-6	Methyl methacrylate	203	
540-84-1	2,2,4-Trimethylpentane	207	
	1,4-Dioxane	192	
75-27-4	Bromodichloromethane	202	
110-75-8	2-Chloroethyl vinyl ether	369	
10061-01-5	cis-1,3-Dichloropropene	205	
108-10-1	4-Methyl-2-Pentanone	1040	
108-88-3	Toluene	172	
10061-02-6	trans-1,3-Dichloropropene	196	
	Ethyl Methacrylate	191	
79-00-5	1,1,2-Trichloroethane	204	
127-18-4	Tetrachloroethene	204	
142-28-9	1,3-Dichloropropane	180	
591-78-6	2-Hexanone	852	
124-48-1	Dibromochloromethane	218	
106-93-4	1,2-Dibromoethane	194	
108-90-7	Chlorobenzene	183	
630-20-6	1,1,1,2-Tetrachloroethane	208	
100-41-4	Ethylbenzene	186	
7816-60-0	m&p-Xylene	401	
95-47-6	o-Xylene	198	
100-42-5	Styrene	189	
75-25-2	Bromoform	200	
98-82-8	Isopropylbenzene	179	
	trans-1,4-Dichloro-2-butene	194	
108-86-1	Bromobenzene	210	
79-34-5	1,1,2,2-Tetrachloroethane	181	
96-18-4	1,2,3-Trichloropropane	207	
103-65-1	n-Propylbenzene	210	
95-49-8	2-Chlorotoluene	206	
108-67-8	1,3,5-Trimethylbenzene	181	
106-43-4	4-Chlorotoluene	203	
98-06-6	tert-Butylbenzene	189	
95-63-6	1,2,4-Trimethylbenzene	206	
135-98-8	sec-Butylbenzene	207	
541-73-1	1,3-Dichlorobenzene	203	
99-87-6	p-Isopropyltoluene	205	
106-46-7	1,4-Dichlorobenzene	202	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 200ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8-----	n-Butylbenzene	209	
95-50-1-----	1,2-Dichlorobenzene	199	
96-12-8-----	1,2-Dibromo-3-chloropropane	202	
120-82-1-----	1,2,4-Trichlorobenzene	205	
87-68-3-----	Hexachlorobutadiene	206	
91-20-3-----	Naphthalene	202	
87-61-6-----	1,2,3-Trichlorobenzene	203	
-----	2,methyl-naphthalene	192	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	48.2	
2037-26-5-----	Toluene-d8	48.4	
460-00-4-----	4-Bromofluorobenzene	47.7	

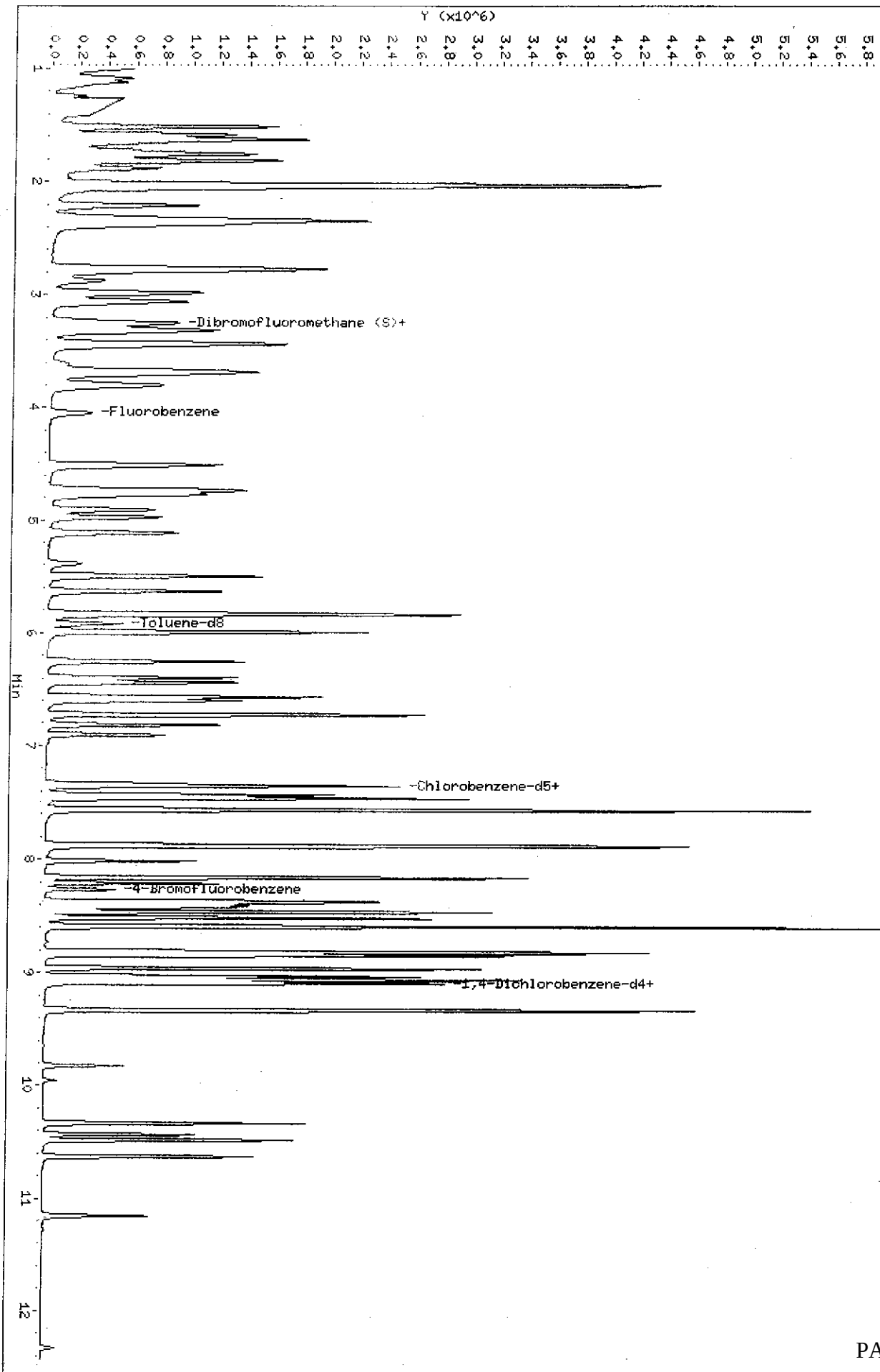
Data File: \\50wintarget\chem\50HSV2.1\A051910.6\A10-7CAL.D
Date : 19-MAY-2010 16:01

Client ID:
Sample Info: 200ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf
Column diameter: 0.18

\\50wintarget\chem\50HSV2.1\A051910.6\A10-7CAL.D



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A11-8CAL.D
 Lab Smp Id: 300ppb
 Inj Date : 19-MAY-2010 16:35
 Operator : jlf
 Smp Info : 300ppb
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
 Meth Date : 20-May-2010 11:51 50MSV2.i
 Cal Date :
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 50MSV2.i
 Quant Type: ISTD
 Cal File:
 Calibration Sample, Level: 8
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85		1.000	1.000 (0.247)		1248283	300.000	300
2 Chloromethane	50		1.083	1.083 (0.268)		1236319	300.000	316
3 Vinyl Chloride	62		1.124	1.124 (0.278)		961615	300.000	298
4 Bromomethane	94		1.243	1.243 (0.307)		313430	300.000	179
5 Chloroethane	64		1.119	1.119 (0.276)		310639	300.000	293
6 Trichlorofluoromethane	101		1.388	1.388 (0.343)		654313	300.000	151
28 1,2-dichlorotrifluoroethane	67		1.507	1.507 (0.372)		713922	300.000	216
7 Diethyl ether	74		1.517	1.517 (0.375)		295941	300.000	239
17 tert-Butyl Alcohol	59		1.982	1.982 (0.490)		182526	600.000	659(M)
8 Acrolein	56		1.584	1.584 (0.391)		1853007	6000.00	4860
10 1,1,2trichlorotrifluoroethane	101		1.615	1.615 (0.399)		710925	300.000	261
9 1,1-Dichloroethene	96		1.631	1.631 (0.403)		601952	300.000	256
11 Acetone	43		1.672	1.672 (0.413)		804695	1500.00	1430
12 Iodomethane	142		1.719	1.719 (0.424)		1820974	600.000	582
13 Carbon Disulfide	76		1.750	1.750 (0.432)		2881392	600.000	582(M)
14 allyl chloride	41		1.812	1.812 (0.447)		1467337	600.000	478(QM)
145 Acetonitrile	41		1.812	1.812 (0.447)		1538512	6000.00	5010
138 Methyl Acetate	43		1.672	1.672 (0.413)		804695	300.000	286
15 Methylene Chloride	84		1.879	1.879 (0.464)		645144	300.000	292
16 Acrylonitrile	53		2.034	2.034 (0.502)		4323805	6000.00	5690
19 Methyl-tert-butyl ether	73		2.050	2.050 (0.506)		2952004	600.000	432
18 1,2-Dichloroethene (trans)	96		2.034	2.034 (0.502)		713243	300.000	300
20 n-Hexane	57		2.205	2.205 (0.544)		831999	300.000	260

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON- COL (ppb)
21 1,1-Dichloroethane	63	2.313	2.313	(0.571)	1204655	300.000	254
23 Vinyl Acetate	43	2.349	2.349	(0.580)	5288034	1200.00	1130
140 Ethyl acetate	88	2.380	2.380	(0.588)	647634	3000.00	2850 (Q)
147 Chloroprene	53	2.380	2.380	(0.588)	1033806	300.000	249
24 2,2-Dichloropropane	77	2.768	2.768	(0.684)	1013933	300.000	248
25 1,2-Dichloroethene (cis)	96	2.768	2.768	(0.684)	833542	300.000	264
26 2-Butanone	43	2.799	2.799	(0.691)	1774629	1500.00	1460
27 Propionitrile	54	2.851	2.851	(0.704)	133281	300.000	294
29 Bromochloromethane	49	2.985	2.985	(0.737)	537116	300.000	286 (M)
146 Methacrylonitrile	41	2.980	2.980	(0.736)	493511	1500.00	1460 (M)
31 Chloroform	83	3.063	3.063	(0.756)	1242062	300.000	264
\$ 32 Dibromofluoromethane (S)	113	3.228	3.228	(0.797)	130271	50.0000	48.3
33 1,1,1-Trichloroethane	97	3.254	3.254	(0.803)	1193181	300.000	280
30 Tetrahydrofuran	42	3.052	3.052	(0.754)	241701	300.000	292
34 cyclohexane	56	3.316	3.316	(0.819)	1224173	300.000	260
37 Isobutyl alcohol	43	2.799	2.799	(0.691)	1774629	300.000	294
35 Carbon Tetrachloride	117	3.435	3.435	(0.848)	1087185	300.000	289
36 1,1-Dichloropropene	75	3.435	3.435	(0.848)	911102	300.000	266
38 Benzene	78	3.678	3.678	(0.908)	2498074	300.000	256
39 1,2-Dichloroethane	62	3.703	3.703	(0.915)	876657	300.000	254
* 40 Fluorobenzene	96	4.050	4.050	(1.000)	429727	50.0000	
41 Trichloroethene	95	4.510	4.510	(1.114)	741628	300.000	275
135 Methylcyclohexane	55	4.732	4.732	(1.168)	886172	300.000	262
42 1,2-Dichloropropane	63	4.773	4.773	(1.179)	679022	300.000	272
43 Dibromomethane	93	4.908	4.908	(1.212)	508289	300.000	295
44 Methyl methacrylate	69	4.975	4.975	(1.228)	556306	300.000	297
143 2,2,4-Trimethylpentane	57	3.802	3.802	(0.939)	1809878	300.000	294
144 1,4-Dioxane	88	5.042	5.042	(1.245)	11874	300.000	306 (M)
45 Bromodichloromethane	83	5.114	5.114	(1.263)	1021317	300.000	290
46 2-Chloroethyl vinyl ether	63	5.502	5.502	(0.750)	1038156	600.000	526
47 cis-1,3-Dichloropropene	75	5.631	5.631	(0.768)	1103764	300.000	292
48 4-Methyl-2-Pentanone	43	5.843	5.843	(0.797)	3319990	1500.00	1430
\$ 49 Toluene-d8	98	5.921	5.921	(0.808)	362841	50.0000	48.2
50 Toluene	91	5.993	5.993	(0.817)	2467539	300.000	243
51 trans-1,3-Dichloropropene	75	6.257	6.257	(0.853)	1102456	300.000	279
52 Ethyl Methacrylate	69	6.401	6.401	(0.873)	991699	300.000	274
53 1,1,2-Trichloroethane	83	6.443	6.443	(0.879)	507438	300.000	294
54 Tetrachloroethene	166	6.567	6.567	(0.896)	858695	300.000	295
55 1,3-Dichloropropane	76	6.603	6.603	(0.901)	1086535	300.000	258
56 2-Hexanone	43	6.727	6.727	(0.918)	2398462	1500.00	1170
57 Dibromochloromethane	129	6.820	6.820	(0.930)	940395	300.000	328
58 1,2-Dibromoethane	107	6.903	6.903	(0.941)	798969	300.000	284
* 59 Chlorobenzene-d5	117	7.332	7.332	(1.000)	323349	50.0000	
60 Chlorobenzene	112	7.352	7.352	(1.003)	1838659	300.000	267
61 1,1,1,2-Tetrachloroethane	131	7.435	7.435	(1.014)	797825	300.000	309
62 Ethylbenzene	106	7.461	7.461	(1.018)	981436	300.000	275
63 m&p-Xylene	106	7.564	7.564	(1.032)	2482223	600.000	600
65 o-Xylene	106	7.874	7.874	(1.074)	1275122	300.000	295
66 Styrene	104	7.890	7.890	(1.076)	1980971	300.000	274
67 Bromoform	173	8.014	8.014	(0.883)	592526	300.000	300
68 Isopropylbenzene	105	8.164	8.164	(1.113)	2675164	300.000	251
69 trans-1,4-Dichloro-2-butene	53	8.427	8.427	(1.149)	264575	300.000	260
\$ 70 4-Bromofluorobenzene	95	8.267	8.267	(1.128)	143385	50.0000	47.9
71 Bromobenzene	77	8.371	8.371	(1.142)	1051980	300.000	288

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
72 1,1,2,2-Tetrachloroethane	83	8.386	8.386	(0.924)	771413	300.000	256
73 1,2,3-Trichloropropane	75	8.412	8.412	(0.927)	907280	300.000	290
74 n-Propylbenzene	91	8.464	8.464	(0.933)	2673873	300.000	289
75 2-Chlorotoluene	91	8.515	8.515	(0.938)	1802112	300.000	292
77 1,3,5-Trimethylbenzene	105	8.588	8.588	(0.946)	2005467	300.000	260
76 4-Chlorotoluene	126	8.593	8.593	(0.947)	852394	300.000	317
78 tert-Butylbenzene	119	8.815	8.815	(0.972)	2549193	300.000	277
79 1,2,4-Trimethylbenzene	105	8.846	8.846	(0.975)	1953812	300.000	293
80 sec-Butylbenzene	105	8.960	8.960	(0.987)	2440621	300.000	292
81 1,3-Dichlorobenzene	146	9.032	9.032	(0.995)	1360802	300.000	298
83 p-Isopropyltoluene	119	9.058	9.058	(0.998)	2161138	300.000	296
* 82 1,4-Dichlorobenzene-d4	152	9.073	9.073	(1.000)	140370	50.0000	(Q)
84 1,4-Dichlorobenzene	146	9.089	9.089	(1.002)	1400262	300.000	298
86 n-Butylbenzene	91	9.327	9.327	(1.028)	1540504	300.000	289
85 1,2-Dichlorobenzene	146	9.332	9.332	(1.028)	1334872	300.000	292
87 1,2-Dibromo-3-chloropropane	155	9.828	9.828	(1.083)	158707	300.000	299
88 1,2,4-Trichlorobenzene	180	10.335	10.335	(1.139)	697750	300.000	296
89 Hexachlorobutadiene	225	10.438	10.438	(1.150)	207045	300.000	297
90 Naphthalene	128	10.484	10.484	(1.155)	1852003	300.000	298
91 1,2,3-Trichlorobenzene	180	10.629	10.629	(1.171)	589468	300.000	298
92 2-methyl-naphthalene	142	11.156	11.156	(1.230)	576300	300.000	308 (H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A11-8CAL.D
 Lab Smp Id: 300ppb
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\8260-c1.m
 Misc Info:

Calibration Date: 19-MAY-2010
 Calibration Time: 14:53

Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	429727	-4.92
59 Chlorobenzene-d5	321601	160801	643202	323349	0.54
82 1,4-Dichlorobenze	134849	67425	269698	140370	4.09

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.05	-0.02
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.06
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 300ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	300	
74-87-3	Chloromethane	316	
75-01-4	Vinyl Chloride	298	
74-83-9	Bromomethane	179	
75-00-3	Chloroethane	293	
75-69-4	Trichlorofluoromethane	151	
354-23-4	1,2-dichlorotrifluoroethane	216	
60-29-7	Diethyl ether	239	
75-65-0	tert-Butyl Alcohol	659	
107-02-8	Acrolein	4860	
76-13-1	1,1,2trichlorotrifluoroethan	261	
75-35-4	1,1-Dichloroethene	256	
67-64-1	Acetone	1430	
	Iodomethane	582	
75-15-0	Carbon Disulfide	582	
107-05-1	allyl chloride	478	
75-05-8	Acetonitrile	5010	
79-20-9	Methyl Acetate	286	
75-09-2	Methylene Chloride	292	
107-13-1	Acrylonitrile	5690	
1634-04-4	Methyl-tert-butyl ether	432	
156-60-5	1,2-Dichloroethene (trans)	300	
	n-Hexane	260	
75-34-3	1,1-Dichloroethane	254	
108-05-4	Vinyl Acetate	1130	
141-78-6	Ethyl acetate	2850	
126-99-8	Chloroprene	249	
594-20-7	2,2-Dichloropropane	248	
156-59-2	1,2-Dichloroethene (cis)	264	
78-93-3	2-Butanone	1460	
107-12-0	Propionitrile	294	
74-97-5	Bromochloromethane	286	
126-98-7	Methacrylonitrile	1460	
67-66-3	Chloroform	264	
71-55-6	1,1,1-Trichloroethane	280	
	Tetrahydrofuran	292	
110-82-7	cyclohexane	260	
78-83-1	Isobutyl alcohol	294	
56-23-5	Carbon Tetrachloride	289	
563-58-6	1,1-Dichloropropene	266	
71-43-2	Benzene	256	
107-06-2	1,2-Dichloroethane	254	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 300ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	275	
108-87-2	Methylcyclohexane	262	
78-87-5	1,2-Dichloropropane	272	
74-95-3	Dibromomethane	295	
80-62-6	Methyl methacrylate	297	
540-84-1	2,2,4-Trimethylpentane	294	
	1,4-Dioxane	306	
75-27-4	Bromodichloromethane	290	
110-75-8	2-Chloroethyl vinyl ether	526	
10061-01-5	cis-1,3-Dichloropropene	292	
108-10-1	4-Methyl-2-Pentanone	1430	
108-88-3	Toluene	243	
10061-02-6	trans-1,3-Dichloropropene	279	
	Ethyl Methacrylate	274	
79-00-5	1,1,2-Trichloroethane	294	
127-18-4	Tetrachloroethene	295	
142-28-9	1,3-Dichloropropane	258	
591-78-6	2-Hexanone	1170	
124-48-1	Dibromochloromethane	328	
106-93-4	1,2-Dibromoethane	284	
108-90-7	Chlorobenzene	267	
630-20-6	1,1,1,2-Tetrachloroethane	309	
100-41-4	Ethylbenzene	275	
7816-60-0	m&p-Xylene	600	
95-47-6	o-Xylene	295	
100-42-5	Styrene	274	
75-25-2	Bromoform	300	
98-82-8	Isopropylbenzene	251	
	trans-1,4-Dichloro-2-butene	260	
108-86-1	Bromobenzene	288	
79-34-5	1,1,2,2-Tetrachloroethane	256	
96-18-4	1,2,3-Trichloropropane	290	
103-65-1	n-Propylbenzene	289	
95-49-8	2-Chlorotoluene	292	
108-67-8	1,3,5-Trimethylbenzene	260	
106-43-4	4-Chlorotoluene	317	
98-06-6	tert-Butylbenzene	277	
95-63-6	1,2,4-Trimethylbenzene	293	
135-98-8	sec-Butylbenzene	292	
541-73-1	1,3-Dichlorobenzene	298	
99-87-6	p-Isopropyltoluene	296	
106-46-7	1,4-Dichlorobenzene	298	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 300ppb
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A051910.b
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	289	
95-50-1	1,2-Dichlorobenzene	292	
96-12-8	1,2-Dibromo-3-chloropropane	299	
120-82-1	1,2,4-Trichlorobenzene	296	
87-68-3	Hexachlorobutadiene	297	
91-20-3	Naphthalene	298	
87-61-6	1,2,3-Trichlorobenzene	298	
	2-methyl-naphthalene	308	
=====		=====	=====
1868-53-7	Dibromofluoromethane (S)	48.3	
2037-26-5	Toluene-d8	48.2	
460-00-4	4-Bromofluorobenzene	47.9	

Data File: \\50wintarget\chem\50HSV2.i\A051910.b\A11-8CAL.D
Date : 19-MAY-2010 16:35

Client ID:

Sample Info: 300ppb

Purge Volume: 5.0

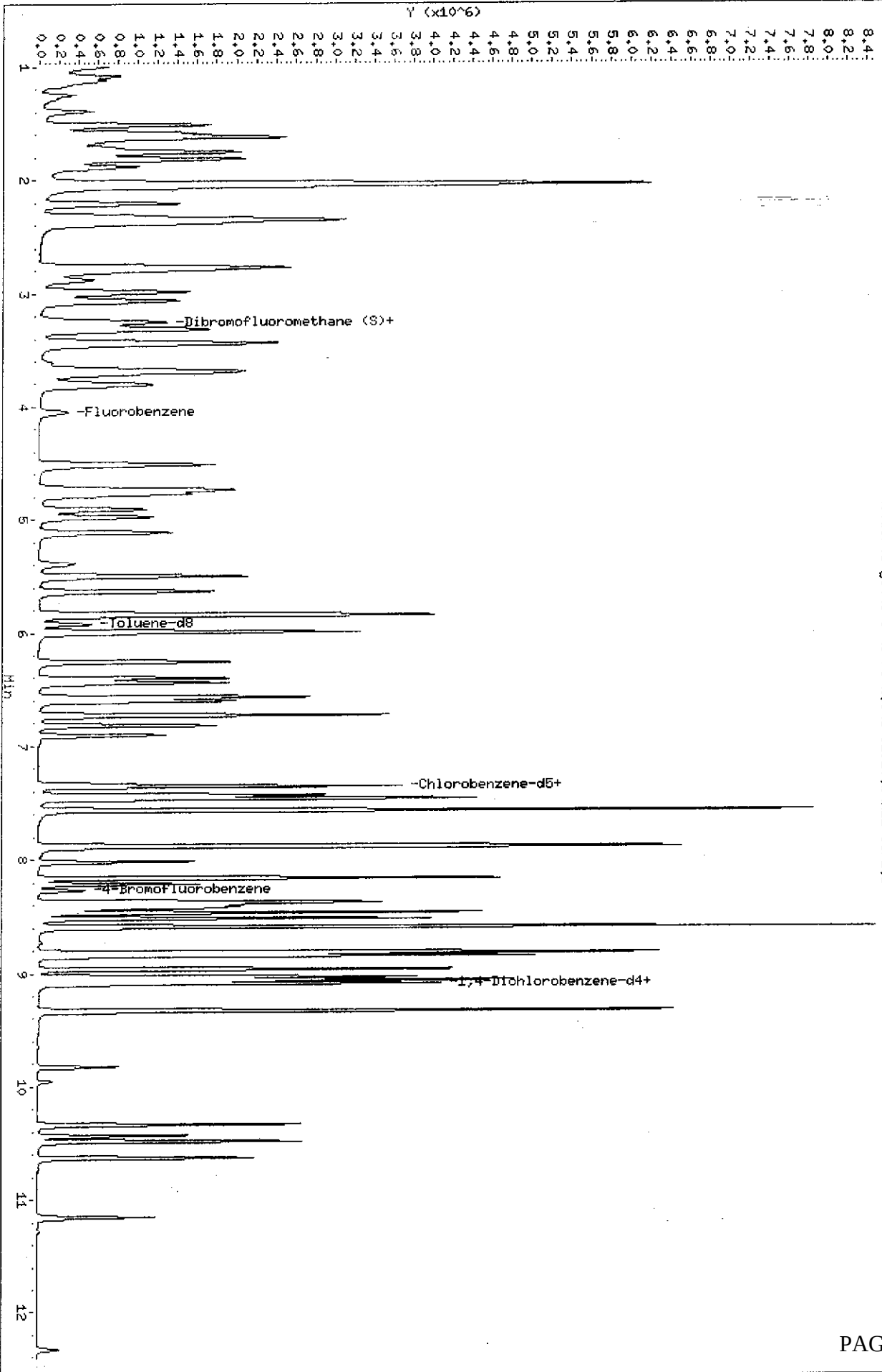
Column Phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18

\\50wintarget\chem\50HSV2.i\A051910.b\A11-8CAL.D



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A051910.b\A12ICV.D
Lab Smp Id: icv 34B-009 Client Smp ID: icv
Inj Date : 19-MAY-2010 17:09
Operator : jlf Inst ID: 50MSV2.i
Smp Info : icv 34B-009
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
Meth Date : 20-May-2010 11:51 50MSV2.i Quant Type: ISTD
Cal Date : 19-MAY-2010 15:27 Cal File: A09-6CAL.D
Als bottle: 25 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85		0.997	1.000 (0.246)		258997	60.5512	60.6
2 Chloromethane	50		1.085	1.083 (0.268)		247415	61.3778	61.4
3 Vinyl Chloride	62		1.121	1.124 (0.276)		199313	59.9436	59.9
4 Bromomethane	94		1.250	1.243 (0.308)		137424	75.0005	75.0 (R)
5 Chloroethane	64		1.121	1.119 (0.276)		64085	58.2148	58.2
6 Trichlorofluoromethane	101		1.405	1.388 (0.347)		236411	53.1484	53.1
28 1,2-dichlorotrifluoroethane	67		1.519	1.507 (0.375)		174878	51.4978	51.5
7 Diethyl ether	74		1.529	1.517 (0.377)		63001	49.4719	49.5
17 tert-Butyl Alcohol	59		1.948	1.982 (0.480)		30439	106.774	107 (M)
8 Acrolein	56		1.586	1.584 (0.391)		205738	523.857	524 (R)
10 1,1,2trichlorotrifluoroethane	101		1.638	1.615 (0.404)		141817	50.4931	50.5
9 1,1-Dichloroethene	96		1.643	1.631 (0.405)		142209	58.6900	58.7
11 Acetone	43		1.664	1.672 (0.410)		268069	440.085	440 (R)
12 Iodomethane	142		1.731	1.719 (0.427)		319672	103.402	103
13 Carbon Disulfide	76		1.767	1.750 (0.436)		798017	151.457	151 (R)
14 allyl chloride	41		1.819	1.812 (0.448)		364408	109.028	109
145 Acetonitrile	41		1.819	1.812 (0.448)		364408	1090.28	1090
138 Methyl Acetate	43		1.664	1.672 (0.410)		268069	88.0171	88.0 (R)
15 Methylene Chloride	84		1.891	1.879 (0.466)		135599	56.1509	56.2
16 Acrylonitrile	53		2.026	2.034 (0.499)		1014438	1175.71	1180
19 Methyl-tert-butyl ether	73		2.051	2.050 (0.506)		657391	93.4221	93.4
18 1,2-Dichloroethene (trans)	96		2.051	2.034 (0.506)		146186	59.9464	59.9
20 n-Hexane	57		2.222	2.205 (0.548)		185962	56.4950	56.5

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
21 1,1-Dichloroethane	63		2.320	2.313	(0.572)	256621	52.6466	52.6	
23 Vinyl Acetate	43		2.351	2.349	(0.580)	942668	169.397	169	
140 Ethyl acetate	88		2.387	2.380	(0.589)	129173	551.733	552 (Q)	
147 Chloroprene	53		2.387	2.380	(0.589)	220084	51.5758	51.6	
24 2,2-Dichloropropane	77		2.775	2.768	(0.684)	207476	49.2454	49.2	
25 1,2-Dichloroethene (cis)	96		2.775	2.768	(0.684)	178184	54.7085	54.7	
26 2-Butanone	43		2.791	2.799	(0.688)	434952	323.954	324	
27 Propionitrile	54		2.842	2.851	(0.701)	22037	47.2165	47.2 (Q)	
29 Bromochloromethane	49		2.987	2.985	(0.736)	148485	71.2427	71.2 (R)	
146 Methacrylonitrile	41		2.977	2.980	(0.734)	132942	369.407	369	
31 Chloroform	83		3.075	3.063	(0.758)	250629	51.6542	51.6	
S 32 Dibromofluoromethane (S)	113		3.235	3.228	(0.797)	140977	50.7357	50.7	
33 1,1,1-Trichloroethane	97		3.261	3.254	(0.804)	239609	54.5170	54.5	
30 Tetrahydrofuran	42		3.049	3.052	(0.752)	54434	52.3244	52.3	
34 cyclohexane	56		3.323	3.316	(0.819)	245992	50.8105	50.8	
37 Isobutyl alcohol	43		2.791	2.799	(0.688)	434952	63.2913	63.3	
35 Carbon Tetrachloride	117		3.447	3.435	(0.850)	213289	55.0917	55.1	
36 1,1-Dichloropropene	75		3.447	3.435	(0.850)	191280	54.1884	54.2	
38 Benzene	78		3.685	3.678	(0.908)	533190	53.1768	53.2	
141 isopropyl acetate	61		3.829	3.830	(0.944)	311087		(Q)	
39 1,2-Dichloroethane	62		3.711	3.703	(0.915)	185859	52.4101	52.4	
* 40 Fluorobenzene	96		4.057	4.050	(1.000)	442501	50.0000		
41 Trichloroethene	95		4.517	4.510	(1.113)	156651	56.3644	56.4	
139 Methylcyclohexane	55		4.734	4.732	(1.167)	170632	48.9177	48.9	
42 1,2-Dichloropropane	63		4.775	4.773	(1.177)	143120	55.6805	55.7	
43 Dibromomethane	93		4.910	4.908	(1.210)	99775	54.9856	55.0	
44 Methyl methacrylate	69		4.972	4.975	(1.225)	391832	202.211	202	
143 2,2,4-Trimethylpentane	57		3.809	3.802	(0.939)	308735	47.3128	47.3	
144 1,4-Dioxane	88		4.966	5.042	(1.224)	35014	799.726	800 (Q)	
45 Bromodichloromethane	83		5.116	5.114	(1.261)	202010	55.6493	55.6	
46 2-Chloroethyl vinyl ether	63		5.499	5.502	(0.750)	82556	39.7419	39.7	
47 cis-1,3-Dichloropropene	75		5.633	5.631	(0.769)	234497	56.0795	56.1	
48 4-Methyl-2-Pentanone	43		5.830	5.843	(0.795)	729277	270.917	271	
S 49 Toluene-d8	98		5.923	5.921	(0.808)	381678	48.1579	48.2	
50 Toluene	91		5.990	5.993	(0.817)	541441	50.7129	50.7	
51 trans-1,3-Dichloropropene	75		6.253	6.257	(0.853)	213494	51.4071	51.4	
52 Ethyl Methacrylate	69		6.393	6.401	(0.872)	725509	190.663	191	
53 1,1,2-Trichloroethane	83		6.439	6.443	(0.879)	102310	53.7625	53.8	
54 Tetrachloroethene	166		6.569	6.567	(0.896)	154861	50.5535	50.6	
55 1,3-Dichloropropane	76		6.600	6.603	(0.901)	220152	49.6354	49.6	
56 2-Hexanone	43		6.719	6.727	(0.917)	581724	270.406	270	
57 Dibromochloromethane	129		6.812	6.820	(0.929)	174542	57.8854	57.9	
58 1,2-Dibromoethane	107		6.905	6.903	(0.942)	154270	52.0481	52.0	
* 59 Chlorobenzene-d5	117		7.328	7.332	(1.000)	340139	50.0000		
60 Chlorobenzene	112		7.354	7.352	(1.004)	375782	51.8745	51.9	
61 1,1,1,2-Tetrachloroethane	131		7.432	7.435	(1.014)	151776	55.9274	55.9	
62 Ethylbenzene	106		7.458	7.461	(1.018)	192094	51.1296	51.1	
63 m&p-Xylene	106		7.561	7.564	(1.032)	486420	110.266	110	
65 o-Xylene	106		7.871	7.874	(1.074)	247842	54.5391	54.5	
66 Styrene	104		7.887	7.890	(1.076)	414517	54.4464	54.4	
67 Bromoform	173		8.016	8.014	(0.883)	102271	49.4341	49.4	
68 Isopropylbenzene	105		8.161	8.164	(1.114)	567297	50.5822	50.6	
69 trans-1,4-Dichloro-2-butene	53		8.424	8.427	(1.150)	190322	177.530	178 (Q)	
142 n-amyl acetate	70		8.269	8.269	(1.128)	1095		(Q)	

Compounds	QUANT STG			REL RT	RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT			ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 70 4-Bromofluorobenzene	95	8.269	8.267	(1.128)	150688	47.8958	47.9
71 Bromobenzene	77	8.367	8.371	(1.142)	227035	55.0185	55.0
72 1,1,2,2-Tetrachloroethane	83	8.383	8.386	(0.924)	167172	52.4457	52.4
73 1,2,3-Trichloropropane	75	8.424	8.412	(0.928)	361331	106.285	106
74 n-Propylbenzene	91	8.460	8.464	(0.932)	611960	58.6258	58.6
75 2-Chlorotoluene	91	8.512	8.515	(0.938)	396102	57.4613	57.5
77 1,3,5-Trimethylbenzene	105	8.584	8.588	(0.946)	425765	52.2136	52.2
76 4-Chlorotoluene	126	8.590	8.593	(0.946)	147940	52.0536	52.0
78 tert-Butylbenzene	119	8.812	8.815	(0.971)	394361	40.5741	40.6
79 1,2,4-Trimethylbenzene	105	8.843	8.846	(0.974)	428347	58.0074	58.0
80 sec-Butylbenzene	105	8.957	8.960	(0.987)	524123	56.8513	56.8
81 1,3-Dichlorobenzene	146	9.029	9.032	(0.995)	279665	57.2693	57.3
83 p-Isopropyltoluene	119	9.055	9.058	(0.998)	439628	55.4749	55.5
* 82 1,4-Dichlorobenzene-d4	152	9.075	9.073	(1.000)	148210	50.0000	
84 1,4-Dichlorobenzene	146	9.091	9.089	(1.002)	283925	56.6231	56.6
86 n-Butylbenzene	91	9.323	9.327	(1.027)	351797	58.8240	58.8
85 1,2-Dichlorobenzene	146	9.334	9.332	(1.028)	264586	54.8973	54.9
87 1,2-Dibromo-3-chloropropane	155	9.625	9.828	(1.083)	29213	52.4927	52.5
88 1,2,4-Trichlorobenzene	180	10.336	10.335	(1.139)	140708	55.8786	55.9
89 Hexachlorobutadiene	225	10.435	10.438	(1.150)	44853	60.9493	60.9
90 Naphthalene	128	10.486	10.484	(1.155)	398220	60.7106	60.7
91 1,2,3-Trichlorobenzene	180	10.631	10.629	(1.171)	126925	60.8368	60.8
92 2-methyl-naphthalene	142	11.158	11.156	(1.229)	182419	96.0188	96.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i Calibration Date: 19-MAY-2010
 Lab File ID: A12ICV.D Calibration Time: 14:53
 Lab Smp Id: icv 34B-009 Client Smp ID: icv
 Analysis Type: VOA Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A051910.b\8260-c1.m
 Misc Info:

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	442501	-2.10
59 Chlorobenzene-d5	321601	160801	643202	340139	5.76
82 1,4-Dichlorobenze	134849	67425	269698	148210	9.91

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.06	0.15
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.08	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a051910.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: icv-34B-009 Client Smp ID: icv
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: ICV
SpikeList File: 8260ICV.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A051910.b\8260-cl.m
Misc Info:

F/L
8/5-20-10

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	60.6	121.10	70-130
2 Chloromethane	50.0	61.4	122.76	70-130
3 Vinyl Chloride	50.0	59.9	119.89	70-130
4 Bromomethane	50.0	75.0	150.00*	70-130
5 Chloroethane	50.0	58.2	116.43	70-130
6 Trichlorofluoromet	50.0	53.1	106.30	70-130
28 1,2-dichlorotriflu	50.0	51.5	103.00	70-130
7 Diethyl ether	50.0	49.5	98.94	70-130
8 Acrolein	1000	524	ok per SD 52.39*	70-130
9 1,1-Dichloroethene	50.0	58.7	117.38	70-130
10 1,1,2-trichlorotrif	50.0	50.5	100.99	70-130
11 Acetone	250	440	176.03*	70-130
12 Iodomethane	100	103	103.40	70-130
13 Carbon Disulfide	100	151	Test 151.46*	70-130
138 Methyl Acetate	50.0	88.0	Test 176.03* TEL List	70-130
14 allyl chloride	100	109	109.03	70-130
15 Methylene Chloride	50.0	56.2	112.30	70-130
16 Acrylonitrile	1000	1180	117.57	70-130
27 Propionitrile	50.0	47.2	94.43	70-130
18 1,2-Dichloroethene	50.0	59.9	119.89	70-130
19 Methyl-tert-butyl	100	93.4	93.42	70-130
20 n-Hexane	50.0	56.5	112.99	70-130
21 1,1-Dichloroethane	50.0	52.6	105.29	70-130
23 Vinyl Acetate	200	169	84.70	70-130
25 1,2-Dichloroethene	50.0	54.7	109.42	70-130
24 2,2-Dichloropropan	50.0	49.2	98.49	70-130
26 2-Butanone	250	324	129.58	70-130
29 Bromochloromethane	50.0	71.2	142.49*	70-130
30 Tetrahydrofuran	50.0	52.3	104.65	70-130
31 Chloroform	50.0	51.6	103.31	70-130
33 1,1,1-Trichloroeth	50.0	54.5	109.03	70-130
34 cyclohexane	50.0	50.8	101.62	70-130
37 Isobutyl alcohol	50.0	63.3	126.58	70-130
36 1,1-Dichloropropen	50.0	54.2	108.38	70-130
35 Carbon Tetrachlori	50.0	55.1	110.18	70-130
38 Benzene	50.0	53.2	106.35	70-130
39 1,2-Dichloroethane	50.0	52.4	104.82	70-130
41 Trichloroethene	50.0	56.4	112.73	70-130
139 Methylcyclohexane	50.0	48.9	97.84	70-130
42 1,2-Dichloropropan	50.0	55.7	111.36	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	55.0	109.97	70-130
44 Methyl methacrylat	200	202	101.11	70-130
45 Bromodichlorometha	50.0	55.6	111.30	70-130
47 cis-1,3-Dichloropr	50.0	56.1	112.16	70-130
48 4-Methyl-2-Pentano	250	271	108.37	70-130
50 Toluene	50.0	50.7	101.43	70-130
51 trans-1,3-Dichloro	50.0	51.4	102.81	70-130
52 Ethyl Methacrylate	200	191	95.33	70-130
53 1,1,2-Trichloroeth	50.0	53.8	107.52	70-130
54 Tetrachloroethene	50.0	50.6	101.11	70-130
55 1,3-Dichloropropan	50.0	49.6	99.27	70-130
56 2-Hexanone	250	270	108.16	70-130
57 Dibromochlorometha	50.0	57.9	115.77	70-130
58 1,2-Dibromoethane	50.0	52.0	104.10	70-130
60 Chlorobenzene	50.0	51.9	103.75	70-130
61 1,1,1,2-Tetrachlor	50.0	55.9	111.85	70-130
62 Ethylbenzene	50.0	51.1	102.26	70-130
63 m&p-Xylene	100	110	110.27	70-130
65 o-Xylene	50.0	54.5	109.08	70-130
66 Styrene	50.0	54.4	108.89	70-130
67 Bromoform	50.0	49.4	98.87	70-130
68 Isopropylbenzene	50.0	50.6	101.16	70-130
69 trans-1,4-Dichloro	200	178	88.76	70-130
72 1,1,2,2-Tetrachlor	50.0	52.4	104.89	70-130
71 Bromobenzene	50.0	55.0	110.04	70-130
73 1,2,3-Trichloropro	100	106	106.28	70-130
74 n-Propylbenzene	50.0	58.6	117.25	70-130
75 2-Chlorotoluene	50.0	57.5	114.92	70-130
76 4-Chlorotoluene	50.0	52.0	104.11	70-130
77 1,3,5-Trimethylben	50.0	52.2	104.43	70-130
78 tert-Butylbenzene	50.0	40.6	81.15	70-130
79 1,2,4-Trimethylben	50.0	58.0	116.01	70-130
80 sec-Butylbenzene	50.0	56.8	113.70	70-130
81 1,3-Dichlorobenzen	50.0	57.3	114.54	70-130
83 p-Isopropyltoluene	50.0	55.5	110.95	70-130
84 1,4-Dichlorobenzen	50.0	56.6	113.25	70-130
86 n-Butylbenzene	50.0	58.8	117.65	70-130
85 1,2-Dichlorobenzen	50.0	54.9	109.79	70-130
88 1,2,4-Trichloroben	50.0	55.9	111.76	70-130
91 1,2,3-Trichloroben	50.0	60.8	121.67	70-130
87 1,2-Dibromo-3-chlo	50.0	52.5	104.99	70-130
89 Hexachlorobutadien	50.0	60.9	121.90	70-130
90 Naphthalene	50.0	60.7	121.42	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.7	101.47	82-122
\$ 49 Toluene-d8	50.0	48.2	96.32	80-120
\$ 70 4-Bromofluorobenze	50.0	47.9	95.79	73-120

Data File: \\50wintarget\chem\50MSV2.i\A051910.b\A12ICV.D
Report Date: 20-May-2010 11:52

Page 7

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: icv 34B-009
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Client Smp ID: icv
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	60.6	
74-87-3	Chloromethane	61.4	
75-01-4	Vinyl Chloride	59.9	
74-83-9	Bromomethane	75.0	
75-00-3	Chloroethane	58.2	
75-69-4	Trichlorofluoromethane	53.1	
354-23-4	1,2-dichlorotrifluoroethane	51.5	
60-29-7	Diethyl ether	49.5	
75-65-0	tert-Butyl Alcohol	107	
107-02-8	Acrolein	524	
76-13-1	1,1,2trichlorotrifluoroethan	50.5	
75-35-4	1,1-Dichloroethene	58.7	
67-64-1	Acetone	440	
	Iodomethane	103	
75-15-0	Carbon Disulfide	151	
107-05-1	allyl chloride	109	
75-05-8	Acetonitrile	1090	
79-20-9	Methyl Acetate	88.0	
75-09-2	Methylene Chloride	56.2	
107-13-1	Acrylonitrile	1180	
1634-04-4	Methyl-tert-butyl ether	93.4	
156-60-5	1,2-Dichloroethene (trans)	59.9	
	n-Hexane	56.5	
75-34-3	1,1-Dichloroethane	52.6	
108-05-4	Vinyl Acetate	169	
141-78-6	Ethyl acetate	552	
126-99-8	Chloroprene	51.6	
594-20-7	2,2-Dichloropropane	49.2	
156-59-2	1,2-Dichloroethene (cis)	54.7	
78-93-3	2-Butanone	324	
107-12-0	Propionitrile	47.2	
74-97-5	Bromochloromethane	71.2	
126-98-7	Methacrylonitrile	369	
67-66-3	Chloroform	51.6	
71-55-6	1,1,1-Trichloroethane	54.5	
	Tetrahydrofuran	52.3	
110-82-7	cyclohexane	50.8	
78-83-1	Isobutyl alcohol	63.3	
56-23-5	Carbon Tetrachloride	55.1	
563-58-6	1,1-Dichloropropene	54.2	
71-43-2	Benzene	53.2	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: icv 34B-009
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a051910.b
 Client Smp ID: icv
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2-----	1,2-Dichloroethane	52.4	
79-01-6-----	Trichloroethene	56.4	
108-87-2-----	Methylcyclohexane	48.9	
78-87-5-----	1,2-Dichloropropane	55.7	
74-95-3-----	Dibromomethane	55.0	
80-62-6-----	Methyl methacrylate	202	
540-84-1-----	2,2,4-Trimethylpentane	47.3	
-----	1,4-Dioxane	800	
75-27-4-----	Bromodichloromethane	55.6	
110-75-8-----	2-Chloroethyl vinyl ether	39.7	
10061-01-5-----	cis-1,3-Dichloropropene	56.1	
108-10-1-----	4-Methyl-2-Pentanone	271	
108-88-3-----	Toluene	50.7	
10061-02-6-----	trans-1,3-Dichloropropene	51.4	
-----	Ethyl Methacrylate	191	
79-00-5-----	1,1,2-Trichloroethane	53.8	
127-18-4-----	Tetrachloroethene	50.6	
142-28-9-----	1,3-Dichloropropane	49.6	
591-78-6-----	2-Hexanone	270	
124-48-1-----	Dibromochloromethane	57.9	
106-93-4-----	1,2-Dibromoethane	52.0	
108-90-7-----	Chlorobenzene	51.9	
630-20-6-----	1,1,1,2-Tetrachloroethane	55.9	
100-41-4-----	Ethylbenzene	51.1	
7816-60-0-----	m&p-Xylene	110	
95-47-6-----	o-Xylene	54.5	
100-42-5-----	Styrene	54.4	
75-25-2-----	Bromoform	49.4	
98-82-8-----	Isopropylbenzene	50.6	
-----	trans-1,4-Dichloro-2-butene	178	
628-63-7-----	n-amyl acetate	0.000	
108-86-1-----	Bromobenzene	55.0	
79-34-5-----	1,1,2,2-Tetrachloroethane	52.4	
96-18-4-----	1,2,3-Trichloropropane	106	
103-65-1-----	n-Propylbenzene	58.6	
95-49-8-----	2-Chlorotoluene	57.5	
108-67-8-----	1,3,5-Trimethylbenzene	52.2	
106-43-4-----	4-Chlorotoluene	52.0	
98-06-6-----	tert-Butylbenzene	40.6	
95-63-6-----	1,2,4-Trimethylbenzene	58.0	
135-98-8-----	sec-Butylbenzene	56.8	
541-73-1-----	1,3-Dichlorobenzene	57.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34B-009
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a051910.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6-----	p-Isopropyltoluene	55.5	
106-46-7-----	1,4-Dichlorobenzene	56.6	
104-51-8-----	n-Butylbenzene	58.8	
95-50-1-----	1,2-Dichlorobenzene	54.9	
96-12-8-----	1,2-Dibromo-3-chloropropane	52.5	
120-82-1-----	1,2,4-Trichlorobenzene	55.9	
87-68-3-----	Hexachlorobutadiene	60.9	
91-20-3-----	Naphthalene	60.7	
87-61-6-----	1,2,3-Trichlorobenzene	60.8	
-----	2,methyl-naphthalene	96.0	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.7	
2037-26-5-----	Toluene-d8	48.2	
460-00-4-----	4-Bromofluorobenzene	47.9	

Date : 19-MAY-2010 17:09

Client ID: icv

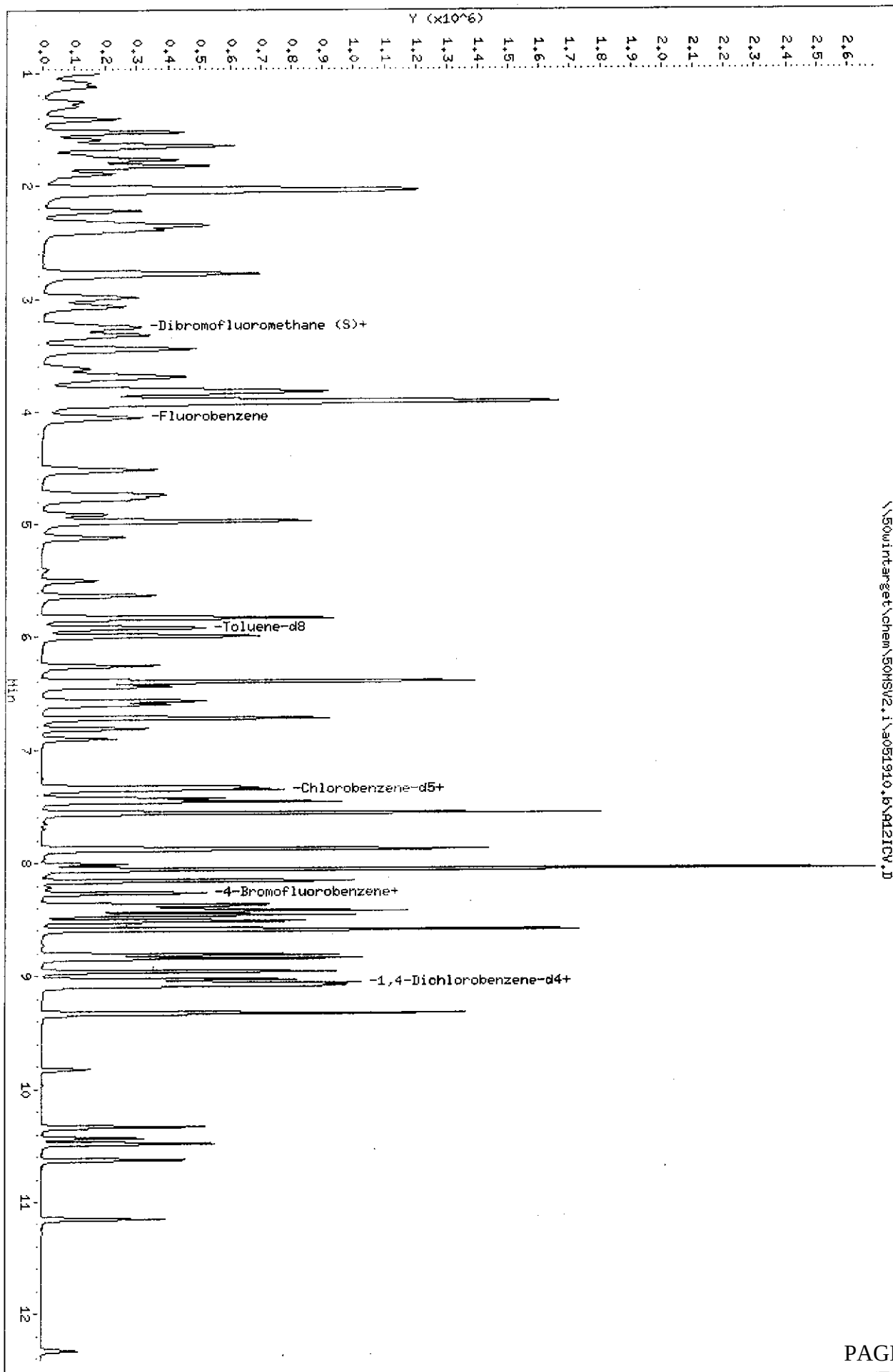
Instrument: 50HSV2.1

Sample Info: icv 34B-009

Purge Volume: 5.0

Column phase: DB-624

Operator: jlf
Column diameter: 0.18



VOA 8260B GC/MS Volatiles

Section 3: Calibration Verification Data

- * *Calibration Verification Summary Table*
- * *BFB Tune Information*
- * *Calibration Verification Standards*

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: A052610.B
Lab File ID: A00BFB BFB Injection Date: 05/26/10
Instrument ID: 50MSV2 BFB Injection Time: 1109
GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	42.4
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	70.7
175	5.0 - 9.0% of mass 174	6.0 (8.5)1
176	95.0 - 101.0% of mass 174	67.9 (96.1)1
177	5.0 - 9.0% of mass 176	5.0 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV 34B-026/02	A01CCV	05/26/10	1143
02	LCS	437657	A02LCS	05/26/10	1217
03	MB	437656	A03MB	05/26/10	1252
04	5037766005	5037766005	A04	05/26/10	1327
05	5037766006	5037766006	A05	05/26/10	1401
06	5037756003	5037756003	A06	05/26/10	1435
07	5037756008	5037756008	A07	05/26/10	1510
08	5037756011	5037756011	A08	05/26/10	1544
09	5037756016	5037756016	A09	05/26/10	1619
10	MS5037756016	437658	A10	05/26/10	1653
11	MSD503775601	437659	A11	05/26/10	1728
12	5037756001	5037756001	A12	05/26/10	1802
13	5037756002	5037756002	A13	05/26/10	1837
14	5037756004	5037756004	A14	05/26/10	1911
15	5037756005	5037756005	A15	05/26/10	1946
16	5037756006	5037756006	A16	05/26/10	2020
17	5037756007	5037756007	A17	05/26/10	2055
18	5037756009	5037756009	A18	05/26/10	2129
19	5037756010	5037756010	A19	05/26/10	2203
20	5037756013	5037756013	A20	05/26/10	2238
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Instrument ID: 50MSV2 Calibration Date: 05/26/10 Time: 1143
 Lab File ID: A01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
=====	=====	=====	=====	=====	=====	
Bromochloromethane	69.5	50.0	LINR	-39.0	20.0	<-
Chloromethane	42.7	50.0	AVRG	14.6	20.0	
Bromomethane	37.9	50.0	LINR	24.2	20.0	<-
Vinyl Chloride	48.0	50.0	AVRG	4.0	20.0	
Chloroethane	46.3	50.0	LINR	7.4	20.0	
Methylene Chloride	53.4	50.0	LINR	-6.8	20.0	
1,1-Dichloroethene	47.4	50.0	AVRG	5.2	20.0	
1,1-Dichloroethane	50.0	50.0	AVRG	0.0	20.0	
1,2-Dichloroethene (trans)	47.8	50.0	LINR	4.4	20.0	
Chloroform	50.8	50.0	AVRG	-1.6	20.0	
1,2-Dichloroethane	51.6	50.0	AVRG	-3.2	20.0	
1,1,1-Trichloroethane	48.5	50.0	AVRG	3.0	20.0	
Carbon Tetrachloride	48.5	50.0	AVRG	3.0	20.0	
Bromodichloromethane	53.4	50.0	AVRG	-6.8	20.0	
1,2-Dichloropropane	52.5	50.0	AVRG	-5.0	20.0	
trans-1,3-Dichloropropene	54.8	50.0	AVRG	-9.6	20.0	
Trichloroethene	48.6	50.0	AVRG	2.8	20.0	
Dibromochloromethane	55.2	50.0	AVRG	-10.4	20.0	
1,1,2-Trichloroethane	56.8	50.0	LINR	-13.6	20.0	
Benzene	48.6	50.0	AVRG	2.8	20.0	
cis-1,3-Dichloropropene	54.8	50.0	LINR	-9.6	20.0	
Bromoform	51.8	50.0	LINR	-3.6	20.0	
Tetrachloroethene	44.7	50.0	AVRG	10.6	20.0	
1,1,2,2-Tetrachloroethane	55.8	50.0	AVRG	-11.6	20.0	
Toluene	46.8	50.0	AVRG	6.4	20.0	
Chlorobenzene	47.6	50.0	AVRG	4.8	20.0	
Ethylbenzene	45.4	50.0	AVRG	9.2	20.0	
Styrene	49.7	50.0	AVRG	0.6	20.0	
Trichlorofluoromethane	48.2	50.0	AVRG	3.6	20.0	
m&p-Xylene	97.6	100	LINR	2.4	20.0	
1,2-Dichloroethene (cis)	47.8	50.0	AVRG	4.4	20.0	
o-Xylene	49.4	50.0	AVRG	1.2	20.0	
1,2,3-Trichloropropane	59.6	50.0	LINR	-19.2	20.0	
1,3-Dichlorobenzene	48.2	50.0	LINR	3.6	20.0	
1,4-Dichlorobenzene	48.0	50.0	LINR	4.0	20.0	
Dibromomethane	53.5	50.0	LINR	-7.0	20.0	
1,2-Dichlorobenzene	48.2	50.0	AVRG	3.6	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Instrument ID: 50MSV2 Calibration Date: 05/26/10 Time: 1143
 Lab File ID: A01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Dichlorodifluoromethane	45.9	50.0	AVRG	8.2	20.0
2,2-Dichloropropane	46.3	50.0	AVRG	7.4	20.0
1,1-Dichloropropene	48.3	50.0	AVRG	3.4	20.0
1,3-Dichloropropane	52.3	50.0	AVRG	-4.6	20.0
1,2-Dibromoethane	52.5	50.0	AVRG	-5.0	20.0
1,1,1,2-Tetrachloroethane	52.6	50.0	AVRG	-5.2	20.0
Isopropylbenzene	45.9	50.0	AVRG	8.2	20.0
Bromobenzene	54.7	50.0	LINR	-9.4	20.0
n-Propylbenzene	50.3	50.0	LINR	-0.6	20.0
2-Chlorotoluene	51.9	50.0	LINR	-3.8	20.0
4-Chlorotoluene	43.7	50.0	AVRG	12.6	20.0
1,3,5-Trimethylbenzene	45.8	50.0	AVRG	8.4	20.0
tert-Butylbenzene	45.7	50.0	AVRG	8.6	20.0
1,2,4-Trimethylbenzene	50.4	50.0	LINR	-0.8	20.0
sec-Butylbenzene	47.4	50.0	LINR	5.2	20.0
p-Isopropyltoluene	46.2	50.0	LINR	7.6	20.0
n-Butylbenzene	49.8	50.0	LINR	0.4	20.0
1,2-Dibromo-3-chloropropane	54.9	50.0	LINR	-9.8	20.0
1,2,4-Trichlorobenzene	49.8	50.0	LINR	0.4	20.0
Hexachlorobutadiene	45.7	50.0	LINR	8.6	20.0
Naphthalene	56.3	50.0	AVRG	-12.6	20.0
1,2,3-Trichlorobenzene	51.8	50.0	LINR	-3.6	20.0
Acrolein	1100	1000	AVRG	-10.0	20.0
Carbon Disulfide	129	100	LINR	-29.0	20.0 <-
Acetone	332	250	LINR	-32.8	20.0 <-
Acrylonitrile	1380	1000	LINR	-38.0	20.0 <-
Vinyl Acetate	260	200	LINR	-30.0	20.0 <-
2-Butanone	336	250	LINR	-34.4	20.0 <-
2-Chloroethyl vinyl ether	107	100	AVRG	-7.0	20.0
4-Methyl-2-Pentanone	352	250	LINR	-40.8	20.0 <-
2-Hexanone	309	250	AVRG	-23.6	20.0 <-
Methyl-tert-butyl ether	98.9	100	AVRG	1.1	20.0
Iodomethane	61.8	100	LINR	38.2	20.0 <-
trans-1,4-Dichloro-2-butene	59.3	50.0	AVRG	-18.6	20.0
Ethyl Methacrylate	59.1	50.0	AVRG	-18.2	20.0
2-methyl-naphthalene	54.2	50.0	LINR	-8.4	20.0
n-Hexane	42.5	50.0	AVRG	15.0	20.0

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Instrument ID: 50MSV2 Calibration Date: 05/26/10 Time: 1143
 Lab File ID: A01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
cyclohexane	44.3	50.0	AVRG	11.4	20.0
1,1,2trichlorotrifluoroethan	46.6	50.0	AVRG	6.8	20.0
1,2-dichlorotrifluoroethane	48.5	50.0	AVRG	3.0	20.0
Tetrahydrofuran	70.8	50.0	LINR	-41.6	20.0 <-
allyl chloride	110	100	LINR	-10.0	20.0
Diethyl ether	55.0	50.0	AVRG	-10.0	20.0
Isobutyl alcohol	65.8	50.0	LINR	-31.6	20.0 <-
Methyl methacrylate	59.5	50.0	LINR	-19.0	20.0
Propionitrile	61.6	50.0	AVRG	-23.2	20.0 <-
tert-Butyl Alcohol	129	100	AVRG	-29.0	20.0 <-
Methyl Acetate	66.5	50.0	LINR	-33.0	20.0 <-
Methylcyclohexane	43.0	50.0	AVRG	14.0	20.0
Ethyl acetate	489	500	AVRG	2.2	20.0
isopropyl acetate	0.000	250	AVRG	100.0	20.0 <-
n-amyl acetate	0.000	250	AVRG	100.0	20.0 <-
2,2,4-Trimethylpentane	41.9	50.0	LINR	16.2	20.0
1,4-Dioxane	60.8	50.0	LINR	-21.6	20.0 <-
Acetonitrile	1100	1000	LINR	-10.0	20.0
Methacrylonitrile	428	250	LINR	-71.2	20.0 <-
Chloroprene	48.1	50.0	AVRG	3.8	20.0
=====	=====	=====	=====	=====	=====
Toluene-d8	49.7	50.0	AVRG	0.6	20.0
4-Bromofluorobenzene	51.0	50.0	AVRG	-2.0	20.0
Dibromofluoromethane (S)	50.7	50.0	AVRG	-1.4	20.0

Date : 26-MAY-2010 11:09

Client ID: bfb050

Instrument: 50MSV2.i

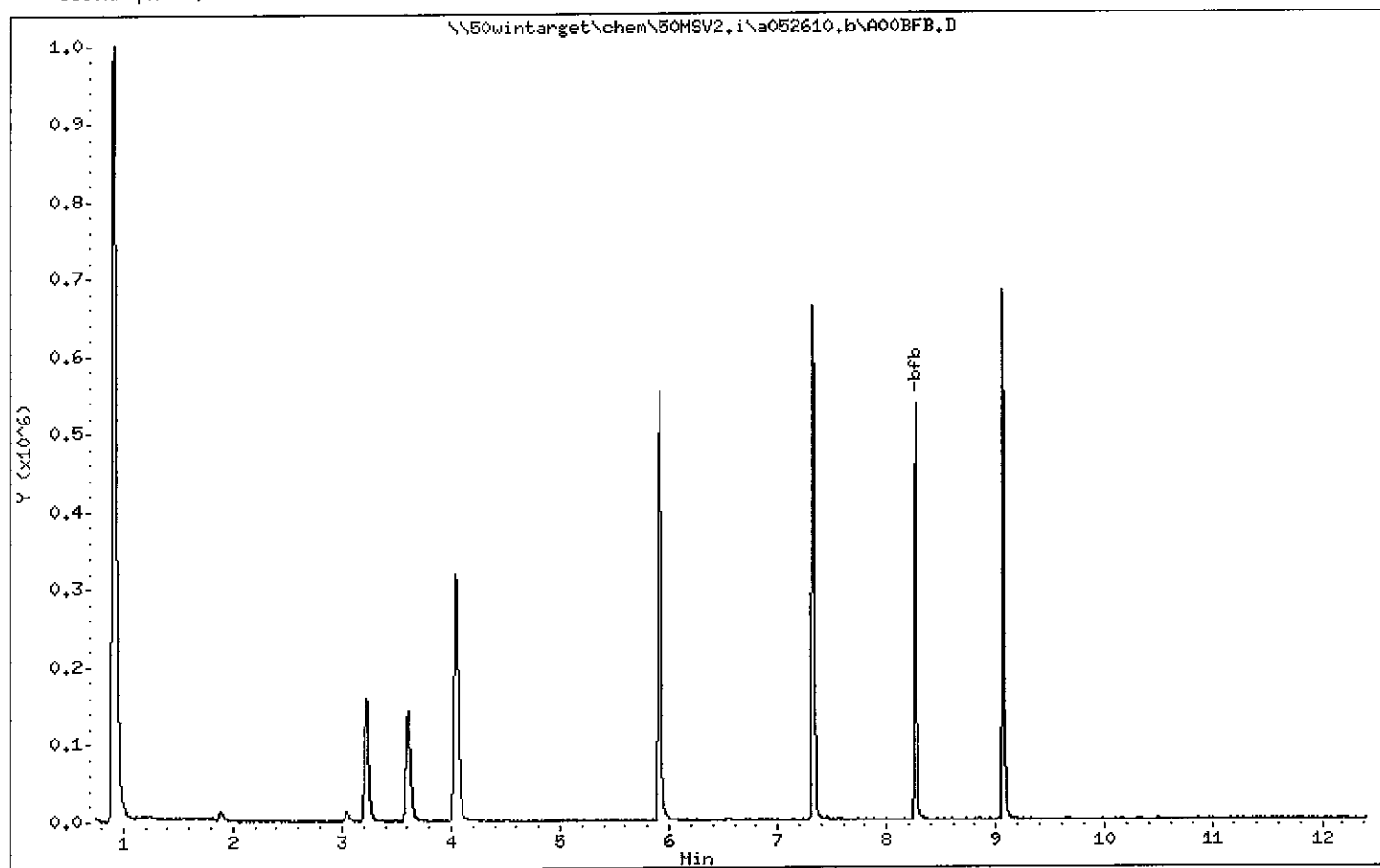
Sample Info: bfb 34B-006

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Date : 26-MAY-2010 11:09

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34B-006

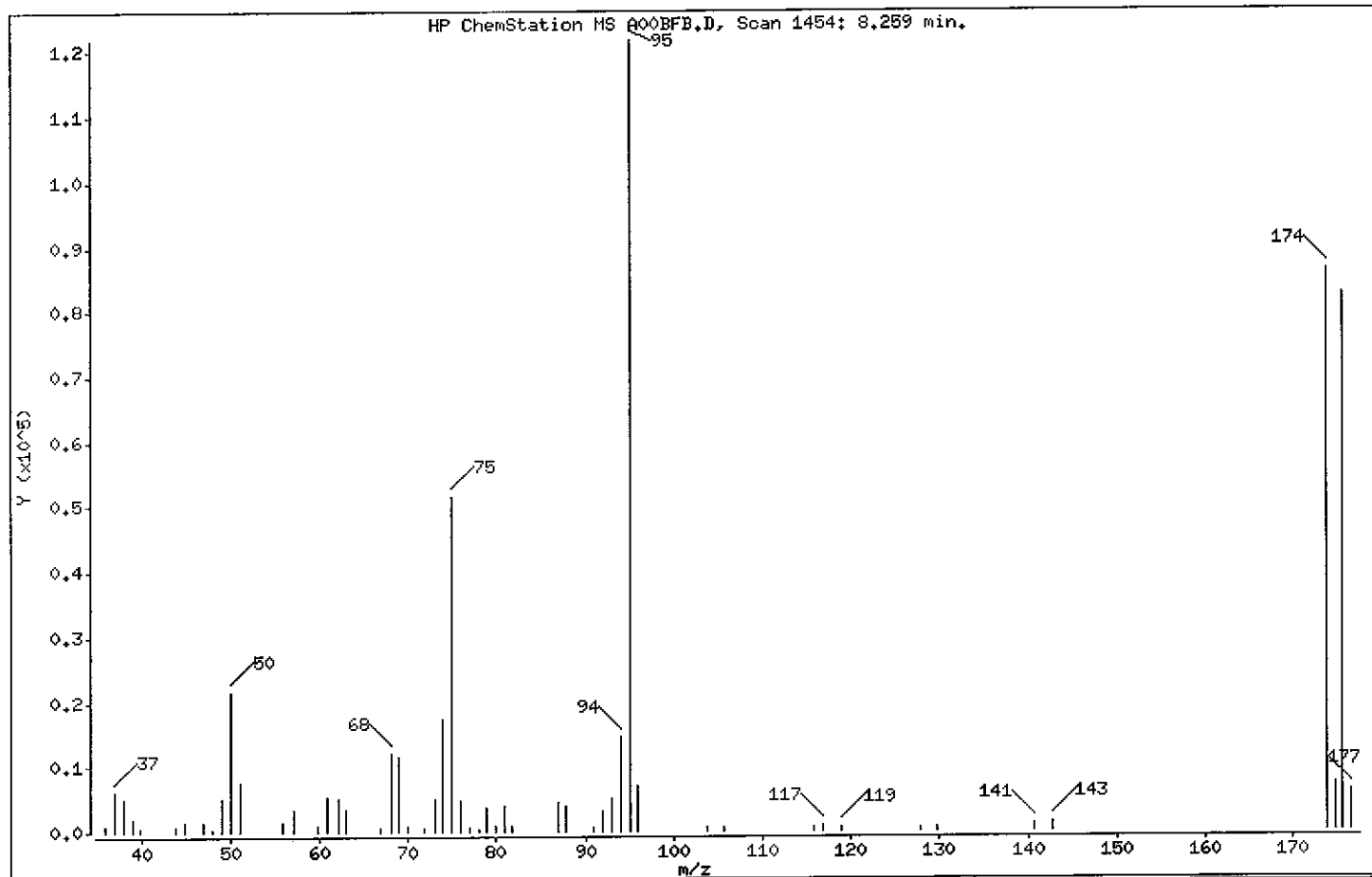
Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.64
75	30.00 - 60.00% of mass 95	42.37
96	5.00 - 9.00% of mass 95	5.75
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	70.70
175	5.00 - 9.00% of mass 174	6.02 (8.52)
176	95.00 - 101.00% of mass 174	67.91 (96.06)
177	5.00 - 9.00% of mass 176	5.02 (7.39)
95	100.00 - 100.00% of mass 95	100.00

Date : 26-MAY-2010 11:09

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34B-006

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

Data File: A00BFB.D

Spectrum: HP ChemStation MS A00BFB.D, Scan 1454: 8.259 min.

Location of Maximum: 95.00

Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	821	59.90	798	78.00	388	105.75	484
37.00	6117	60.90	5367	78.80	3646	115.75	489
38.00	4977	62.00	4902	79.90	857	116.75	750
39.00	1915	63.00	3368	80.90	3800	118.85	501
39.90	503	66.80	457	81.80	747	127.75	479
43.90	904	68.00	12094	86.90	4514	129.75	534
44.90	1441	69.00	11600	87.90	3962	140.75	1191
47.00	1392	69.90	782	90.90	493	142.75	1477
47.90	419	71.90	560	92.00	2957	173.85	86104
49.00	5035	73.00	5044	93.00	5130	174.95	7335
50.00	21480	74.00	17296	94.00	14588	175.85	82712
51.00	7427	75.00	51608	95.00	121792	176.85	6112
55.90	1433	76.00	4813	96.00	7007		
57.00	3437	77.00	537	103.75	584		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A01CCV.D
Lab Smp Id: ccv 34B-026/029 Client Smp ID: ccv
Inj Date : 26-MAY-2010 11:43
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ccv 34B-026/029
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\A01CCV.D
Meth Date : 27-May-2010 15:38 jffislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85		0.991	0.995 (0.246)		204998	50.0000	45.9
2 Chloromethane	50		1.079	1.082 (0.268)		179508	50.0000	42.7
3 Vinyl Chloride	62		1.110	1.113 (0.275)		166632	50.0000	48.0
4 Bromomethane	94		1.239	1.243 (0.308)		74317	50.0000	37.9
5 Chloroethane	64		1.110	1.108 (0.275)		53360	50.0000	46.3
6 Trichlorofluoromethane	101		1.389	1.393 (0.345)		223468	50.0000	48.2
28 1,2-dichlorotrifluoroethane	67		1.508	1.511 (0.374)		171948	50.0000	48.5
7 Diethyl ether	74		1.513	1.517 (0.375)		73004	50.0000	55.0
17 tert-Butyl Alcohol	59		1.932	1.940 (0.479)		38371	100.000	129 (M)
8 Acrolein	56		1.575	1.579 (0.391)		451769	1000.00	1100
10 1,1,2trichlorotrifluoroethane	101		1.621	1.625 (0.402)		136459	50.0000	46.6
9 1,1-Dichloroethene	96		1.627	1.630 (0.404)		119767	50.0000	47.4
11 Acetone	43		1.652	1.656 (0.410)		215890	250.000	332
12 Iodomethane	142		1.714	1.718 (0.426)		192489	100.000	61.8
13 Carbon Disulfide	76		1.751	1.760 (0.434)		715167	100.000	129
14 allyl chloride	41		1.808	1.811 (0.449)		382762	100.000	110
145 Acetonitrile	41		1.808	1.811 (0.449)		382762	1000.00	1100
138 Methyl Acetate	43		1.652	1.656 (0.410)		215890	50.0000	66.5
15 Methylene Chloride	84		1.875	1.878 (0.465)		135049	50.0000	53.4
16 Acrylonitrile	53		2.009	2.013 (0.499)		1222805	1000.00	1380
19 Methyl-tert-butyl ether	73		2.035	2.039 (0.505)		726230	100.000	98.9
18 1,2-Dichloroethene (trans)	96		2.030	2.039 (0.504)		121373	50.0000	47.8

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
	=====	=====	=====	=====	=====	=====	=====
20 n-Hexane	57	2.205	2.209 (0.547)		146061	50.0000	42.5
21 1,1-Dichloroethane	63	2.304	2.313 (0.572)		254403	50.0000	50.0
23 Vinyl Acetate	43	2.335	2.338 (0.579)		1423708	200.000	260
140 Ethyl acetate	88	2.371	2.380 (0.588)		119381	500.000	489
147 Chloroprene	53	2.371	2.375 (0.588)		214014	50.0000	48.1
24 2,2-Dichloropropane	77	2.759	2.762 (0.685)		203470	50.0000	46.3
25 1,2-Dichloroethene (cis)	96	2.759	2.762 (0.685)		162246	50.0000	47.8
26 2-Butanone	43	2.769	2.773 (0.687)		469325	250.000	336
27 Propionitrile	54	2.826	2.829 (0.701)		29977	50.0000	61.6
29 Bromochloromethane	49	2.970	2.974 (0.737)		151405	50.0000	69.5
146 Methacrylonitrile	41	2.965	2.969 (0.736)		159664	250.000	428
31 Chloroform	83	3.048	3.057 (0.756)		257339	50.0000	50.8
\$ 32 Dibromofluoromethane (S)	113	3.213	3.222 (0.797)		146840	50.0000	50.7
33 1,1,1-Trichloroethane	97	3.244	3.248 (0.805)		222316	50.0000	48.5
30 Tetrahydrofuran	42	3.032	3.041 (0.753)		72393	50.0000	70.8
34 cyclohexane	56	3.301	3.305 (0.819)		223740	50.0000	44.3
37 Isobutyl alcohol	43	2.769	2.773 (0.687)		469325	50.0000	65.8
35 Carbon Tetrachloride	117	3.425	3.429 (0.850)		195862	50.0000	48.5
36 1,1-Dichloropropene	75	3.420	3.429 (0.849)		177855	50.0000	48.3
38 Benzene	78	3.663	3.672 (0.909)		508919	50.0000	48.6
39 1,2-Dichloroethane	62	3.689	3.693 (0.915)		190775	50.0000	51.6
* 40 Fluorobenzene	96	4.030	4.039 (1.000)		461579	50.0000	
41 Trichloroethene	95	4.495	4.504 (1.115)		140874	50.0000	48.6
139 Methylcyclohexane	55	4.717	4.726 (1.171)		156419	50.0000	43.0
42 1,2-Dichloropropane	63	4.754	4.768 (1.180)		140746	50.0000	52.5
43 Dibromomethane	93	4.893	4.897 (1.214)		101420	50.0000	53.5
44 Methyl methacrylate	69	4.955	4.964 (1.230)		123380	50.0000	59.5
143 2,2,4-Trimethylpentane	57	3.787	3.796 (0.940)		286404	50.0000	41.9
144 1,4-Dioxane	88	4.960	4.969 (1.231)		981	50.0000	60.8
45 Bromodichloromethane	83	5.095	5.104 (1.264)		202259	50.0000	53.4
46 2-Chloroethyl vinyl ether	63	5.482	5.491 (0.749)		222615	100.000	107
47 cis-1,3-Dichloropropene	75	5.617	5.626 (0.768)		229802	50.0000	54.8
48 4-Methyl-2-Pentanone	43	5.813	5.822 (0.794)		922118	250.000	352
\$ 49 Toluene-d8	98	5.906	5.910 (0.807)		393865	50.0000	49.7
50 Toluene	91	5.973	5.982 (0.816)		500160	50.0000	46.8
51 trans-1,3-Dichloropropene	75	6.237	6.246 (0.852)		227691	50.0000	54.8
52 Ethyl Methacrylate	69	6.382	6.385 (0.872)		225082	50.0000	59.1
53 1,1,2-Trichloroethane	83	6.423	6.432 (0.878)		107849	50.0000	56.8
54 Tetrachloroethene	166	6.552	6.561 (0.895)		136914	50.0000	44.7
55 1,3-Dichloropropane	76	6.588	6.592 (0.900)		232032	50.0000	52.3
56 2-Hexanone	43	6.707	6.711 (0.917)		664824	250.000	309
57 Dibromochloromethane	129	6.800	6.809 (0.929)		166627	50.0000	55.2
58 1,2-Dibromoethane	107	6.893	6.897 (0.942)		155715	50.0000	52.5
* 59 Chlorobenzene-d5	117	7.317	7.326 (1.000)		340382	50.0000	
60 Chlorobenzene	112	7.343	7.347 (1.004)		344828	50.0000	47.6
61 1,1,1,2-Tetrachloroethane	131	7.420	7.424 (1.014)		142943	50.0000	52.6
62 Ethylbenzene	106	7.452	7.455 (1.018)		170879	50.0000	45.4
63 m&p-Xylene	106	7.550	7.553 (1.032)		431743	100.000	97.9
65 o-Xylene	106	7.865	7.869 (1.075)		224843	50.0000	49.4
66 Styrene	104	7.875	7.879 (1.076)		378707	50.0000	49.7
67 Bromoform	173	8.005	8.013 (0.883)		109464	50.0000	51.8
68 Isopropylbenzene	105	8.149	8.153 (1.114)		515685	50.0000	45.9
69 trans-1,4-Dichloro-2-butene	53	8.413	8.422 (1.150)		63598	50.0000	59.3
142 n-amyl acetate	70	8.258	8.256 (1.129)		1139	250.000	

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 70 4-Bromofluorobenzene	95	8.258	8.261	(1.129)	160420	50.0000	51.0
71 Bromobenzene	77	8.356	8.365	(1.142)	226062	50.0000	54.7
72 1,1,2,2-Tetrachloroethane	83	8.377	8.380	(0.924)	181667	50.0000	55.8
73 1,2,3-Trichloropropane	75	8.397	8.401	(0.926)	214322	50.0000	59.6
74 n-Propylbenzene	91	8.449	8.458	(0.932)	543619	50.0000	50.3
75 2-Chlorotoluene	91	8.506	8.510	(0.938)	367987	50.0000	51.9
77 1,3,5-Trimethylbenzene	105	8.578	8.582	(0.946)	381788	50.0000	45.8
76 4-Chlorotoluene	126	8.583	8.587	(0.947)	126832	50.0000	43.7
78 tert-Butylbenzene	119	8.806	8.804	(0.971)	453667	50.0000	45.7
79 1,2,4-Trimethylbenzene	105	8.837	8.840	(0.975)	383790	50.0000	50.4
80 sec-Butylbenzene	105	8.950	8.954	(0.987)	450940	50.0000	47.4
81 1,3-Dichlorobenzene	146	9.023	9.026	(0.995)	241448	50.0000	48.2
83 p-Isopropyltoluene	119	9.049	9.052	(0.998)	376611	50.0000	46.2
* 82 1,4-Dichlorobenzene-d4	152	9.064	9.068	(1.000)	151395	50.0000	
84 1,4-Dichlorobenzene	146	9.080	9.083	(1.002)	246788	50.0000	48.0
86 n-Butylbenzene	91	9.317	9.321	(1.028)	308527	50.0000	49.8
85 1,2-Dichlorobenzene	146	9.322	9.331	(1.029)	237293	50.0000	48.2
87 1,2-Dibromo-3-chloropropane	155	9.819	9.822	(1.083)	31221	50.0000	54.9
88 1,2,4-Trichlorobenzene	180	10.330	10.334	(1.140)	128481	50.0000	49.8
89 Hexachlorobutadiene	225	10.429	10.432	(1.151)	34346	50.0000	45.7
90 Naphthalene	128	10.475	10.484	(1.156)	377427	50.0000	56.3
91 1,2,3-Trichlorobenzene	180	10.620	10.629	(1.172)	110515	50.0000	51.8
92 2-methyl-naphthalene	142	11.152	11.156	(1.230)	100789	50.0000	54.2

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A01CCV.D
 Lab Smp Id: ccv 34B-026/029
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A01CCV.D
 Misc Info:

Calibration Date: 25-MAY-2010
 Calibration Time: 22:49
 Client Smp ID: ccv
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	461579	2.12
59 Chlorobenzene-d5	321601	160801	643202	340382	5.84
82 1,4-Dichlorobenze	134849	67425	269698	151395	12.27

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.03	-0.51
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.14
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.06	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-MAY-2010 11:43
Lab File ID: A01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: ccv 34B-026/029 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.48331	0.44412	0.44412	0.000	-8.10845	20.00000	Averaged
2 Chloromethane	0.45548	0.38890	0.38890	0.000	-14.61776	20.00000	Averaged
3 Vinyl Chloride	0.37571	0.36100	0.36100	0.000	-3.91313	20.00000	Averaged
4 Bromomethane	50.00000	37.92852	0.16101	0.000	-24.14297	0.000e+000	Linear
5 Chloroethane	50.00000	46.34755	0.11560	0.000	-7.30490	0.000e+000	Linear
6 Trichlorofluoromethane	0.50261	0.48414	0.48414	0.000	-3.67572	20.00000	Averaged
28 1,2-dichlorotrifluoroethane	0.38371	0.37252	0.37252	0.000	-2.91569	20.00000	Averaged
7 Diethyl ether	0.14389	0.15816	0.15816	0.000	9.91475	20.00000	Averaged
17 tert-Butyl Alcohol	0.03221	0.04156	0.04156	0.000	29.03471	20.00000	Averaged <-
8 Acrolein	0.04438	0.04894	0.04894	0.000	10.27649	20.00000	Averaged
10 1,1,2-trichlorotrifluoroetha	0.31736	0.29564	0.29564	0.000	-6.84550	20.00000	Averaged
9 1,1-Dichloroethene	0.27379	0.25947	0.25947	0.000	-5.22965	20.00000	Averaged
11 Acetone	250	332	0.09354	0.000	32.96349	0.000e+000	Linear
12 Iodomethane	100	61.81603	0.20851	0.000	-38.18397	0.000e+000	Linear
13 Carbon Disulfide	100	129	0.77470	0.000	29.11732	0.000e+000	Linear
14 allyl chloride	100	110	0.41462	0.000	9.84288	0.000e+000	Linear
145 Acetonitrile	1000	1098	0.04146	0.000	9.84288	0.000e+000	Linear
138 Methyl Acetate	50.00000	66.48174	0.46772	0.000	32.96349	0.000e+000	Linear
15 Methylene Chloride	50.00000	53.40880	0.29258	0.000	6.81761	0.000e+000	Linear
16 Acrylonitrile	1000	1383	0.13246	0.000	38.30587	0.000e+000	Linear
19 Methyl-tert-butyl ether	0.79512	0.78668	0.78668	0.000	-1.06087	20.00000	Averaged
18 1,2-Dichloroethene (trans)	50.00000	47.75433	0.26295	0.000	-4.49134	0.000e+000	Linear
20 n-Hexane	0.37194	0.31644	0.31644	0.000	-14.92173	20.00000	Averaged
21 1,1-Dichloroethane	0.55078	0.55116	0.55116	0.000	0.06868	20.00000	Averaged
23 Vinyl Acetate	200	260	0.77111	0.000	29.78548	0.000e+000	Linear
140 Ethyl acetate	0.02645	0.02586	0.02586	0.000	-2.23334	20.00000	Averaged
147 Chloroprene	0.48217	0.46366	0.46366	0.000	-3.83927	20.00000	Averaged
24 2,2-Dichloropropane	0.47606	0.44081	0.44081	0.000	-7.40304	20.00000	Averaged
25 1,2-Dichloroethene (cis)	0.36802	0.35150	0.35150	0.000	-4.48790	20.00000	Averaged
26 2-Butanone	250	336	0.20336	0.000	34.48950	0.000e+000	Linear
27 Propionitrile	0.05274	0.06494	0.06494	0.000	23.14800	20.00000	Averaged <-
29 Bromochloromethane	50.00000	69.46905	0.32802	0.000	38.93810	0.000e+000	Linear
146 Methacrylonitrile	250	428	0.06918	0.000	71.24732	0.000e+000	Linear
31 Chloroform	0.54825	0.55752	0.55752	0.000	1.68988	20.00000	Averaged
32 Dibromofluoromethane (S)	0.31397	0.31813	0.31813	0.000	1.32302	20.00000	Averaged
33 1,1,1-Trichloroethane	0.49662	0.48164	0.48164	0.000	-3.01646	20.00000	Averaged
30 Tetrahydrofuran	50.00000	70.81060	0.15684	0.000	41.62121	0.000e+000	Linear
34 cyclohexane	0.54705	0.48473	0.48473	0.000	-11.39169	20.00000	Averaged
37 Isobutyl alcohol	50.00000	65.77091	1.01678	0.000	31.54181	0.000e+000	Linear
35 Carbon Tetrachloride	0.43746	0.42433	0.42433	0.000	-3.00120	20.00000	Averaged
36 1,1-Dichloropropene	0.39886	0.38532	0.38532	0.000	-3.39460	20.00000	Averaged
38 Benzene	1.13296	1.10256	1.10256	0.000	-2.68341	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-MAY-2010 11:43
Lab File ID: A01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: ccv 34B-026/029 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\A052610.b\ -8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 isopropyl acetate	++++	++++	++++	0.000	++++	20.00000	Averaged <-
39 1,2-Dichloroethane	0.40070	0.41331	0.41331	0.000	3.14563	20.00000	Averaged
41 Trichloroethene	0.31404	0.30520	0.30520	0.000	-2.81473	20.00000	Averaged
139 Methylcyclohexane	0.39414	0.33888	0.33888	0.000	-14.02078	20.00000	Averaged
42 1,2-Dichloropropane	0.29044	0.30492	0.30492	0.000	4.98738	20.00000	Averaged
43 Dibromomethane	50.00000	53.54237	0.21972	0.000	7.08474	0.000e+000	Linear
44 Methyl methacrylate	50.00000	59.51655	0.26730	0.000	19.03309	0.000e+000	Linear
143 2,2,4-Trimethylpentane	50.00000	41.88835	0.62049	0.000	-16.22330	0.000e+000	Linear
144 1,4-Dioxane	50.00000	60.80175	0.00213	0.000	21.60349	0.000e+000	Linear
45 Bromodichloromethane	0.41017	0.43819	0.43819	0.000	6.92986	20.00000	Averaged
46 2-Chloroethyl vinyl ether	0.30536	0.32701	0.32701	0.000	7.08890	20.00000	Averaged
47 cis-1,3-Dichloropropene	50.00000	54.83968	0.67513	0.000	9.67935	0.000e+000	Linear
48 4-Methyl-2-Pentanone	250	352	0.54181	0.000	40.73234	0.000e+000	Linear
49 Toluene-d8	1.16505	1.15713	1.15713	0.000	-0.67983	20.00000	Averaged
50 Toluene	1.56945	1.46941	1.46941	0.000	-6.37405	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.61049	0.66893	0.66893	0.000	9.57285	20.00000	Averaged
52 Ethyl Methacrylate	0.55936	0.66126	0.66126	0.000	18.21838	20.00000	Averaged
53 1,1,2-Trichloroethane	50.00000	56.80804	0.31685	0.000	13.61608	0.000e+000	Linear
54 Tetrachloroethene	0.45030	0.40224	0.40224	0.000	-10.67416	20.00000	Averaged
55 1,3-Dichloropropane	0.65200	0.68168	0.68168	0.000	4.55295	20.00000	Averaged
56 2-Hexanone	0.31624	0.39063	0.39063	0.000	23.52526	20.00000	Averaged <-
57 Dibromochloromethane	0.44325	0.48953	0.48953	0.000	10.44195	20.00000	Averaged
58 1,2-Dibromoethane	0.43570	0.45747	0.45747	0.000	4.99630	20.00000	Averaged
60 Chlorobenzene	1.06487	1.01306	1.01306	0.300	-4.86502	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	0.39893	0.41995	0.41995	0.000	5.26983	20.00000	Averaged
62 Ethylbenzene	0.55227	0.50202	0.50202	0.000	-9.09924	20.00000	Averaged
63 m&p-Xylene	100	97.60301	0.54420	0.000	-2.39699	0.000e+000	Linear
65 o-Xylene	0.66801	0.66056	0.66056	0.000	-1.11454	20.00000	Averaged
66 Styrene	1.11915	1.11259	1.11259	0.000	-0.58541	20.00000	Averaged
67 Bromoform	50.00000	51.77750	0.72304	0.000	3.55501	0.000e+000	Linear
68 Isopropylbenzene	1.64864	1.51502	1.51502	0.000	-8.10498	20.00000	Averaged
69 trans-1,4-Dichloro-2-butene	0.15759	0.18684	0.18684	0.000	18.56186	20.00000	Averaged
142 n-amyl acetate	++++	0.00067	0.00067	0.000	++++	20.00000	Averaged <-
70 4-Bromofluorobenzene	0.46248	0.47129	0.47129	0.000	1.90539	20.00000	Averaged
71 Bromobenzene	50.00000	54.71739	0.66414	0.000	9.43478	0.000e+000	Linear
72 1,1,2,2-Tetrachloroethane	1.07534	1.19995	1.19995	0.300	11.58813	20.00000	Averaged
73 1,2,3-Trichloropropane	50.00000	59.60287	1.41565	0.000	19.20574	0.000e+000	Linear
74 n-Propylbenzene	50.00000	50.32591	3.59073	0.000	0.65182	0.000e+000	Linear
75 2-Chlorotoluene	50.00000	51.87626	2.43064	0.000	3.75252	0.000e+000	Linear
77 1,3,5-Trimethylbenzene	2.75092	2.52180	2.52180	0.000	-8.32895	20.00000	Averaged
76 4-Chlorotoluene	0.95880	0.83776	0.83776	0.000	-12.62441	20.00000	Averaged
78 tert-Butylbenzene	3.27897	2.99658	2.99658	0.000	-8.61229	20.00000	Averaged
79 1,2,4-Trimethylbenzene	50.00000	50.43052	2.53502	0.000	0.86103	0.000e+000	Linear

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-MAY-2010 11:43
 Lab File ID: A01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
 Analysis Type: WATER Init. Cal. Times: 12:38 16:35
 Lab Sample ID: ccv 34B-026/029 Quant Type: ISTD
 Method: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	50.00000	47.36838	2.97857	0.000	-5.26325	0.000e+000	Linear
81 1,3-Dichlorobenzene	50.00000	48.25386	1.59482	0.000	-3.49228	0.000e+000	Linear
83 p-Isopropyltoluene	50.00000	46.22648	2.48761	0.000	-7.54705	0.000e+000	Linear
84 1,4-Dichlorobenzene	50.00000	48.05653	1.63009	0.000	-3.88694	0.000e+000	Linear
86 n-Butylbenzene	50.00000	49.84698	2.03789	0.000	-0.30605	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.62596	1.56738	1.56738	0.000	-3.60272	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	54.89961	0.20622	0.000	9.79921	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	49.85932	0.84865	0.000	-0.28136	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	45.68206	0.22686	0.000	-8.63588	0.000e+000	Linear
90 Naphthalene	2.21285	2.49300	2.49300	0.000	12.66009	20.00000	Averaged
91 1,2,3-Trichlorobenzene	50.00000	51.85265	0.72998	0.000	3.70531	0.000e+000	Linear
92 2-methyl-naphthalene	50.00000	54.23943	0.66574	0.000	8.47886	0.000e+000	Linear

Date: 26-MAY-2010 11:43

Client ID: ocv

Sample Info: ocv 34B-026/029

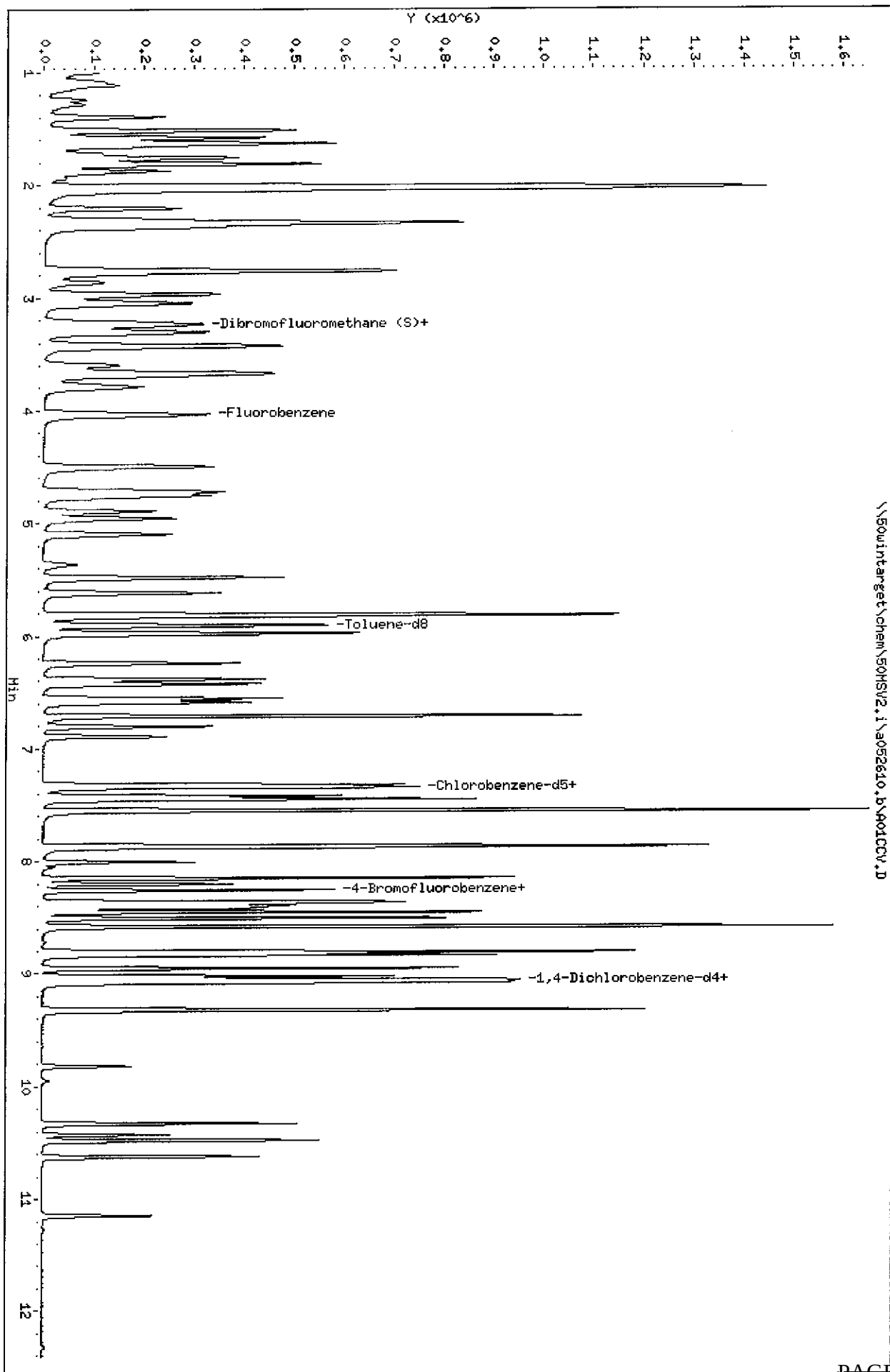
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: A052610.B
Lab File ID: C00BFB BFB Injection Date: 05/26/10
Instrument ID: 50MSV2 BFB Injection Time: 2312
GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	42.3
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	77.6
175	5.0 - 9.0% of mass 174	6.4 (8.3)1
176	95.0 - 101.0% of mass 174	75.1 (96.7)1
177	5.0 - 9.0% of mass 176	4.9 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	C01CCV	05/26/10	2346
02	LCS	437666	C02LCS	05/27/10	0020
03	MB	437665	C03MB	05/27/10	0054
04	5037756012	5037756012	C04	05/27/10	0128
05	MS5037756012	437667	C05	05/27/10	0202
06	MSD503775601	437668	C06	05/27/10	0236
07	5037756015	5037756015	C07	05/27/10	0311
08	5037756017	5037756017	C08	05/27/10	0345
09	5037756018	5037756018	C09	05/27/10	0419
10	5037756019	5037756019	C10	05/27/10	0453
11	5037756020	5037756020	C11	05/27/10	0527
12	5037756021	5037756021	C12	05/27/10	0601
13	5037756022	5037756022	C13	05/27/10	0634
14	5037756023	5037756023	C14	05/27/10	0708
15	5037756024	5037756024	C15	05/27/10	0742
16	5037756025	5037756025	C16	05/27/10	0816
17	5037756026	5037756026	C17	05/27/10	0851
18	5037756027	5037756027	C18	05/27/10	0925
19	5037756014	5037756014	C19	05/27/10	0959
20	5037895001	5037895001	C20	05/27/10	1033
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Instrument ID: 50MSV2 Calibration Date: 05/26/10 Time: 2346
 Lab File ID: C01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
=====	=====	=====	=====	=====	=====	
Bromochloromethane	75.7	50.0	LINR	-51.4	20.0	<-
Chloromethane	43.6	50.0	AVRG	12.8	20.0	
Bromomethane	20.9	50.0	LINR	58.2	20.0	<-
Vinyl Chloride	54.4	50.0	AVRG	-8.8	20.0	
Chloroethane	52.5	50.0	LINR	-5.0	20.0	
Methylene Chloride	57.7	50.0	LINR	-15.4	20.0	
1,1-Dichloroethene	52.2	50.0	AVRG	-4.4	20.0	
1,1-Dichloroethane	54.0	50.0	AVRG	-8.0	20.0	
1,2-Dichloroethene (trans)	53.0	50.0	LINR	-6.0	20.0	
Chloroform	53.4	50.0	AVRG	-6.8	20.0	
1,2-Dichloroethane	53.6	50.0	AVRG	-7.2	20.0	
1,1,1-Trichloroethane	54.4	50.0	AVRG	-8.8	20.0	
Carbon Tetrachloride	54.0	50.0	AVRG	-8.0	20.0	
Bromodichloromethane	55.0	50.0	AVRG	-10.0	20.0	
1,2-Dichloropropane	54.8	50.0	AVRG	-9.6	20.0	
trans-1,3-Dichloropropene	52.4	50.0	AVRG	-4.8	20.0	
Trichloroethene	54.4	50.0	AVRG	-8.8	20.0	
Dibromochloromethane	56.9	50.0	AVRG	-13.8	20.0	
1,1,2-Trichloroethane	57.1	50.0	LINR	-14.2	20.0	
Benzene	51.2	50.0	AVRG	-2.4	20.0	
cis-1,3-Dichloropropene	54.0	50.0	LINR	-8.0	20.0	
Bromoform	53.1	50.0	LINR	-6.2	20.0	
Tetrachloroethene	79.4	50.0	AVRG	-58.8	20.0	<-
1,1,2,2-Tetrachloroethane	54.4	50.0	AVRG	-8.8	20.0	
Toluene	50.5	50.0	AVRG	-1.0	20.0	
Chlorobenzene	49.7	50.0	AVRG	0.6	20.0	
Ethylbenzene	48.9	50.0	AVRG	2.2	20.0	
Styrene	52.1	50.0	AVRG	-4.2	20.0	
Trichlorofluoromethane	55.7	50.0	AVRG	-11.4	20.0	
m&p-Xylene	105	100	LINR	-5.0	20.0	
1,2-Dichloroethene (cis)	51.6	50.0	AVRG	-3.2	20.0	
o-Xylene	51.7	50.0	AVRG	-3.4	20.0	
1,2,3-Trichloropropane	57.2	50.0	LINR	-14.4	20.0	
1,3-Dichlorobenzene	51.0	50.0	LINR	-2.0	20.0	
1,4-Dichlorobenzene	49.8	50.0	LINR	0.4	20.0	
Dibromomethane	55.0	50.0	LINR	-10.0	20.0	
1,2-Dichlorobenzene	50.2	50.0	AVRG	-0.4	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Instrument ID: 50MSV2 Calibration Date: 05/26/10 Time: 2346
 Lab File ID: C01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Dichlorodifluoromethane	49.2	50.0	AVRG	1.6	20.0
2,2-Dichloropropane	35.0	50.0	AVRG	30.0	20.0
1,1-Dichloropropene	54.1	50.0	AVRG	-8.2	20.0
1,3-Dichloropropane	53.1	50.0	AVRG	-6.2	20.0
1,2-Dibromoethane	53.0	50.0	AVRG	-6.0	20.0
1,1,1,2-Tetrachloroethane	53.8	50.0	AVRG	-7.6	20.0
Isopropylbenzene	50.7	50.0	AVRG	-1.4	20.0
Bromobenzene	57.1	50.0	LINR	-14.2	20.0
n-Propylbenzene	56.8	50.0	LINR	-13.6	20.0
2-Chlorotoluene	56.7	50.0	LINR	-13.4	20.0
4-Chlorotoluene	47.4	50.0	AVRG	5.2	20.0
1,3,5-Trimethylbenzene	48.8	50.0	AVRG	2.4	20.0
tert-Butylbenzene	44.0	50.0	AVRG	12.0	20.0
1,2,4-Trimethylbenzene	55.2	50.0	LINR	-10.4	20.0
sec-Butylbenzene	52.4	50.0	LINR	-4.8	20.0
p-Isopropyltoluene	50.6	50.0	LINR	-1.2	20.0
n-Butylbenzene	54.0	50.0	LINR	-8.0	20.0
1,2-Dibromo-3-chloropropane	51.4	50.0	LINR	-2.8	20.0
1,2,4-Trichlorobenzene	48.9	50.0	LINR	2.2	20.0
Hexachlorobutadiene	45.9	50.0	LINR	8.2	20.0
Naphthalene	52.9	50.0	AVRG	-5.8	20.0
1,2,3-Trichlorobenzene	50.6	50.0	LINR	-1.2	20.0
Acrolein	924	1000	AVRG	7.6	20.0
Carbon Disulfide	144	100	LINR	-44.0	20.0
Acetone	325	250	LINR	-30.0	20.0
Acrylonitrile	1370	1000	LINR	-37.0	20.0
Vinyl Acetate	198	200	LINR	1.0	20.0
2-Butanone	321	250	LINR	-28.4	20.0
2-Chloroethyl vinyl ether	107	100	AVRG	-7.0	20.0
4-Methyl-2-Pentanone	336	250	LINR	-34.4	20.0
2-Hexanone	288	250	AVRG	-15.2	20.0
Methyl-tert-butyl ether	104	100	AVRG	-4.0	20.0
Iodomethane	56.9	100	LINR	43.1	20.0
trans-1,4-Dichloro-2-butene	51.0	50.0	AVRG	-2.0	20.0
Ethyl Methacrylate	58.7	50.0	AVRG	-17.4	20.0
2-methyl-naphthalene	47.3	50.0	LINR	5.4	20.0
n-Hexane	44.7	50.0	AVRG	10.6	20.0

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052610.B
 Instrument ID: 50MSV2 Calibration Date: 05/26/10 Time: 2346
 Lab File ID: C01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
cyclohexane	51.1	50.0	AVRG	-2.2	20.0
1,1,2trichlorotrifluoroethan	52.1	50.0	AVRG	-4.2	20.0
1,2-dichlorotrifluoroethane	53.6	50.0	AVRG	-7.2	20.0
Tetrahydrofuran	66.7	50.0	LINR	-33.4	20.0 <-
allyl chloride	117	100	LINR	-17.0	20.0
Diethyl ether	57.0	50.0	AVRG	-14.0	20.0
Isobutyl alcohol	62.6	50.0	LINR	-25.2	20.0 <-
Methyl methacrylate	57.8	50.0	LINR	-15.6	20.0
Propionitrile	57.2	50.0	AVRG	-14.4	20.0
tert-Butyl Alcohol	119	100	AVRG	-19.0	20.0
Methyl Acetate	64.9	50.0	LINR	-29.8	20.0 <-
Methylcyclohexane	49.6	50.0	AVRG	0.8	20.0
Ethyl acetate	555	500	AVRG	-11.0	20.0
isopropyl acetate	0.000	250	AVRG	100.0	20.0 <-
n-amyl acetate	0.000	250	AVRG	100.0	20.0 <-
2,2,4-Trimethylpentane	46.9	50.0	LINR	6.2	20.0
1,4-Dioxane	53.8	50.0	LINR	-7.6	20.0
Acetonitrile	1170	1000	LINR	-17.0	20.0
Methacrylonitrile	418	250	LINR	-67.2	20.0 <-
Chloroprene	54.6	50.0	AVRG	-9.2	20.0
=====	=====	=====	=====	=====	=====
Toluene-d8	49.6	50.0	AVRG	0.8	20.0
4-Bromofluorobenzene	51.6	50.0	AVRG	-3.2	20.0
Dibromofluoromethane (S)	50.5	50.0	AVRG	-1.0	20.0

Date : 26-MAY-2010 23:12

Client ID: bfb050

Instrument: 50MSV2.i

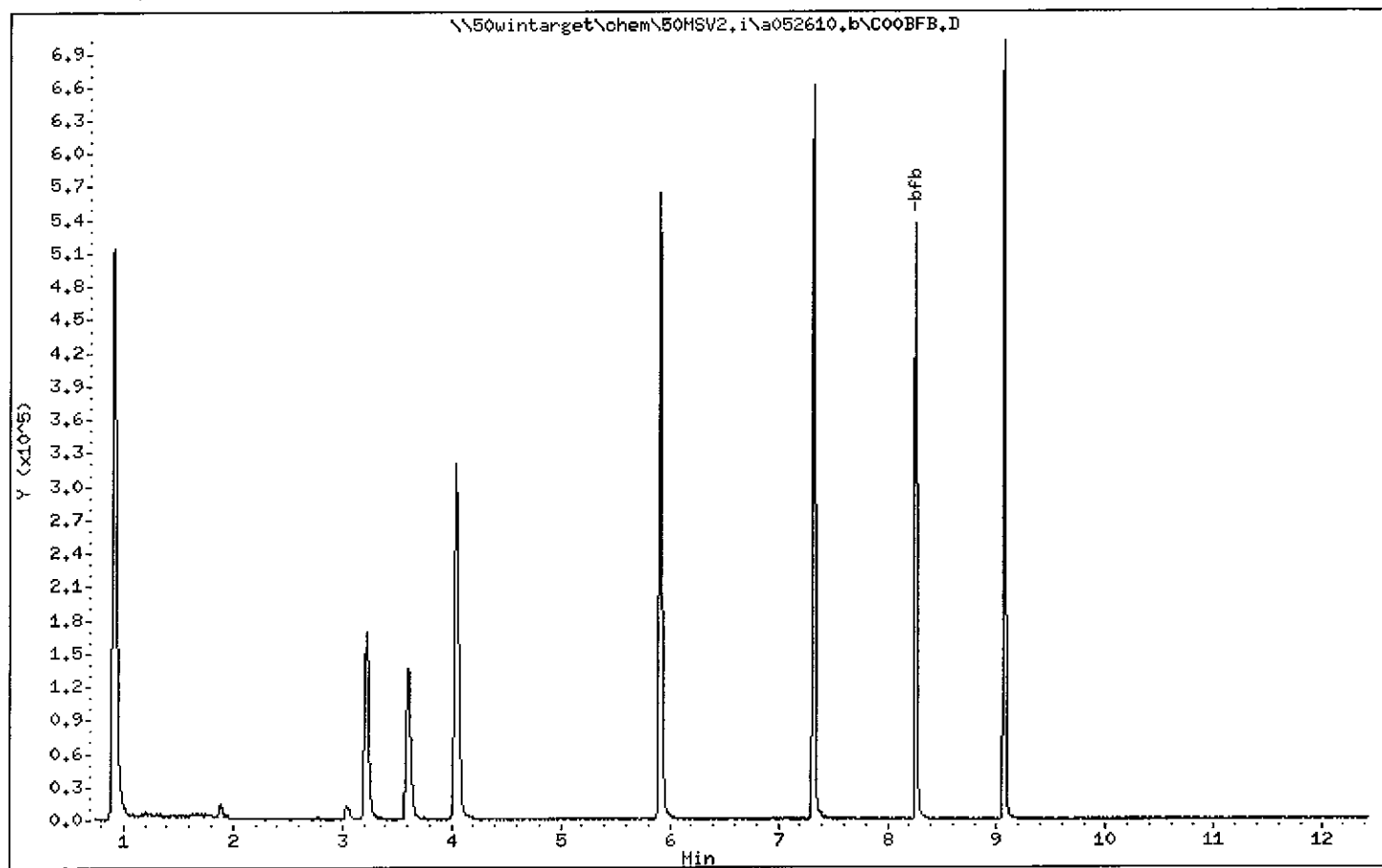
Sample Info: bfb

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Date : 26-MAY-2010 23:12

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb

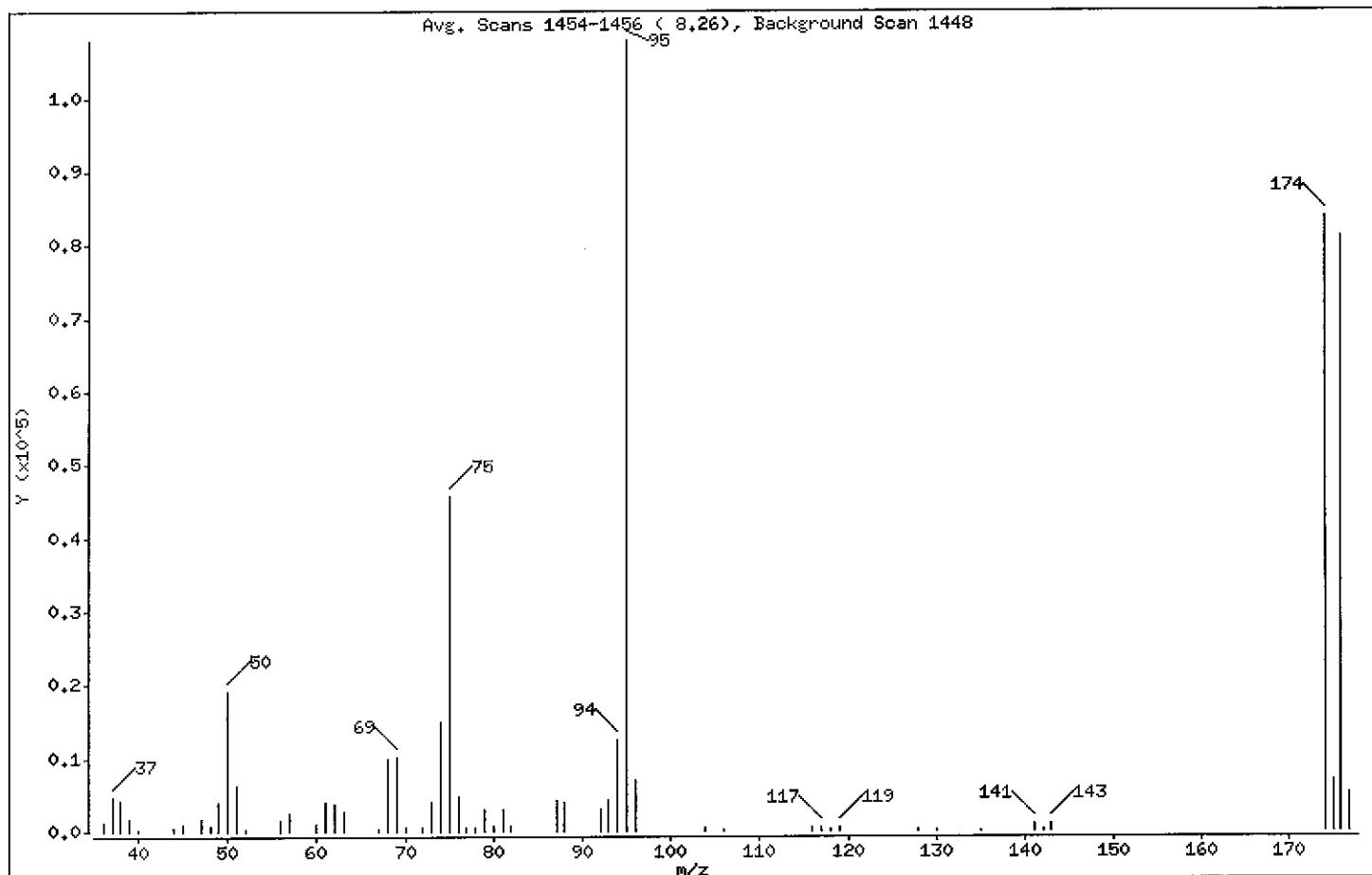
Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.62
75	30.00 - 60.00% of mass 95	42.34
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.59
175	5.00 - 9.00% of mass 174	6.42 (8.28)
176	95.00 - 101.00% of mass 174	75.06 (96.74)
177	5.00 - 9.00% of mass 176	4.89 (6.52)
95	100.00 - 100.00% of mass 95	100.00

Date : 26-MAY-2010 23:12

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

Data File: C00BFB.D

Spectrum: Avg. Scans 1454-1456 (8.26), Background Scan 1448

Location of Maximum: 95.00

Number of points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1235	60.00	949	79.00	3095	118.00	299
37.00	4651	61.00	4047	80.00	648	119.00	590
38.00	4174	62.00	3766	81.00	3020	128.00	252
39.00	1787	63.00	2800	82.00	675	130.00	325
40.00	259	67.00	179	87.00	4197	135.00	122
44.00	416	68.00	10038	88.00	4056	141.00	979
45.00	1104	69.00	10184	92.00	2863	142.00	127
47.00	1625	70.00	544	93.00	4182	143.00	1024
48.00	634	72.00	512	94.00	12339	174.00	83720
49.00	4004	73.00	3898	95.00	107904	175.00	6930
50.00	19016	74.00	14771	96.00	7058	176.00	80992
51.00	6204	75.00	45688	104.00	397	177.00	5278
52.00	277	76.00	4636	106.00	315		
56.00	1396	77.00	547	116.00	420		
57.00	2538	78.00	496	117.00	610		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C01CCV.D
 Lab Smp Id: ccv Client Smp ID: ccv
 Inj Date : 26-MAY-2010 23:46
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : ccv
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 47 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.995	0.995 (0.246)		217193	50.0000	49.2
2 Chloromethane	50	1.082	1.082 (0.268)		181376	50.0000	43.6
3 Vinyl Chloride	62	1.113	1.113 (0.276)		186828	50.0000	54.4
4 Bromomethane	94	1.243	1.243 (0.308)		42172	50.0000	20.9
5 Chloroethane	64	1.108	1.108 (0.275)		59701	50.0000	52.5
6 Trichlorofluoromethane	101	1.393	1.393 (0.345)		255768	50.0000	55.7
28 1,2-dichlorotrifluoroethane	67	1.511	1.511 (0.374)		187855	50.0000	53.6
7 Diethyl ether	74	1.517	1.517 (0.376)		74877	50.0000	57.0
17 tert-Butyl Alcohol	59	1.940	1.940 (0.481)		34935	100.000	119 (M)
8 Acrolein	56	1.579	1.579 (0.391)		374794	1000.00	924
10 1,1,2trichlorotrifluoroethane	101	1.625	1.625 (0.402)		150968	50.0000	52.1
9 1,1-Dichloroethene	96	1.630	1.630 (0.404)		130469	50.0000	52.2
11 Acetone	43	1.656	1.656 (0.410)		209111	250.000	325
12 Iodomethane	142	1.718	1.718 (0.425)		173867	100.000	56.9
13 Carbon Disulfide	76	1.760	1.760 (0.436)		784168	100.000	144
14 allyl chloride	41	1.811	1.811 (0.449)		402139	100.000	117
145 Acetonitrile	41	1.811	1.811 (0.449)		402139	1000.00	1170
138 Methyl Acetate	43	1.656	1.656 (0.410)		209111	50.0000	64.9
15 Methylene Chloride	84	1.878	1.878 (0.465)		143468	50.0000	57.7
16 Acrylonitrile	53	2.013	2.013 (0.498)		1196976	1000.00	1370
19 Methyl-tert-butyl ether	73	2.039	2.039 (0.505)		752421	100.000	104
18 1,2-Dichloroethene (trans)	96	2.039	2.039 (0.505)		133339	50.0000	53.0

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
20 n-Hexane	57	2.209	2.209	{0.547}	152024	50.0000	44.7
21 1,1-Dichloroethane	63	2.313	2.313	{0.573}	271728	50.0000	54.0
23 Vinyl Acetate	43	2.338	2.338	{0.579}	1111999	200.000	198
140 Ethyl acetate	88	2.380	2.380	{0.589}	134157	500.000	555
147 Chloroprene	53	2.375	2.375	{0.588}	240320	50.0000	54.6
24 2,2-Dichloropropane	77	2.762	2.762	{0.684}	152043	50.0000	35.0
25 1,2-Dichloroethene (cis)	96	2.762	2.762	{0.684}	173661	50.0000	51.6
26 2-Butanone	43	2.773	2.773	{0.687}	444911	250.000	321
27 Propionitrile	54	2.829	2.829	{0.701}	27583	50.0000	57.2
29 Bromochloromethane	49	2.974	2.974	{0.736}	161980	50.0000	75.7
146 Methacrylonitrile	41	2.969	2.969	{0.735}	154264	250.000	418
31 Chloroform	83	3.057	3.057	{0.757}	267470	50.0000	53.4
\$ 32 Dibromofluoromethane (S)	113	3.222	3.222	{0.798}	144945	50.0000	50.5
33 1,1,1-Trichloroethane	97	3.248	3.248	{0.804}	246770	50.0000	54.4
30 Tetrahydrofuran	42	3.041	3.041	{0.753}	68211	50.0000	66.7
34 cyclohexane	56	3.305	3.305	{0.818}	255309	50.0000	51.1
37 Isobutyl alcohol	43	2.773	2.773	{0.687}	444911	50.0000	62.6
35 Carbon Tetrachloride	117	3.429	3.429	{0.849}	216000	50.0000	54.0
36 1,1-Dichloropropene	75	3.429	3.429	{0.849}	197260	50.0000	54.1
38 Benzene	78	3.672	3.672	{0.909}	530062	50.0000	51.2
39 1,2-Dichloroethane	62	3.693	3.693	{0.914}	196410	50.0000	53.6
* 40 Fluorobenzene	96	4.039	4.039	{1.000}	456732	50.0000	
41 Trichloroethene	95	4.504	4.504	{1.115}	155924	50.0000	54.4
139 Methylcyclohexane	55	4.726	4.726	{1.170}	178468	50.0000	49.6
42 1,2-Dichloropropene	63	4.768	4.768	{1.180}	145324	50.0000	54.8
43 Dibromomethane	93	4.897	4.897	{1.212}	103079	50.0000	55.0
44 Methyl methacrylate	69	4.964	4.964	{1.229}	118722	50.0000	57.8
143 2,2,4-Trimethylpentane	57	3.796	3.796	{0.940}	315794	50.0000	46.9
144 1,4-Dioxane	88	4.969	4.969	{1.230}	637	50.0000	53.8
45 Bromodichloromethane	83	5.104	5.104	{1.264}	205950	50.0000	55.0
46 2-Chloroethyl vinyl ether	63	5.491	5.491	{0.750}	220411	100.000	107
47 cis-1,3-Dichloropropene	75	5.626	5.626	{0.768}	224842	50.0000	54.0
48 4-Methyl-2-Pentanone	43	5.822	5.822	{0.795}	877698	250.000	336
\$ 49 Toluene-d8	98	5.910	5.910	{0.807}	390797	50.0000	49.6
50 Toluene	91	5.982	5.982	{0.817}	535926	50.0000	50.5
51 trans-1,3-Dichloropropene	75	6.246	6.246	{0.853}	216274	50.0000	52.4
52 Ethyl Methacrylate	69	6.385	6.385	{0.872}	221871	50.0000	58.7
53 1,1,2-Trichloroethane	83	6.432	6.432	{0.878}	107598	50.0000	57.1
54 Tetrachloroethene	166	6.561	6.561	{0.896}	241543	50.0000	79.4
55 1,3-Dichloropropane	76	6.592	6.592	{0.900}	234156	50.0000	53.1
56 2-Hexanone	43	6.711	6.711	{0.916}	616569	250.000	288
57 Dibromochloromethane	129	6.809	6.809	{0.929}	170481	50.0000	56.9
58 1,2-Dibromoethane	107	6.897	6.897	{0.941}	156190	50.0000	53.0
* 59 Chlorobenzene-d5	117	7.326	7.326	{1.000}	337893	50.0000	
60 Chlorobenzene	112	7.347	7.347	{1.003}	357867	50.0000	49.7
61 1,1,1,2-Tetrachloroethane	131	7.424	7.424	{1.013}	144995	50.0000	53.8
62 Ethylbenzene	106	7.455	7.455	{1.018}	182544	50.0000	48.9
63 m&p-Xylene	106	7.553	7.553	{1.031}	459017	100.000	105
65 o-Xylene	106	7.869	7.869	{1.074}	233246	50.0000	51.5
66 Styrene	104	7.879	7.879	{1.075}	393829	50.0000	52.1
67 Bromoform	173	8.013	8.013	{0.884}	109544	50.0000	53.1
68 Isopropylbenzene	105	8.153	8.153	{1.113}	565266	50.0000	50.7
69 trans-1,4-Dichloro-2-butene	53	8.422	8.422	{1.150}	54310	50.0000	51.0
142 n-amyl acetate	70	8.256	8.256	{1.127}	1079	250.000	

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 70 4-Bromofluorobenzene	95	8.261	8.261	(1.128)	161153	50.0000	51.6
71 Bromobenzene	77	8.365	8.365	(1.142)	233262	50.0000	57.1
72 1,1,2,2-Tetrachloroethane	83	8.380	8.380	(0.924)	172922	50.0000	54.4
73 1,2,3-Trichloropropane	75	8.401	8.401	(0.926)	201164	50.0000	57.2
74 n-Propylbenzene	91	8.458	8.458	(0.933)	592565	50.0000	56.8
75 2-Chlorotoluene	91	8.510	8.510	(0.938)	389954	50.0000	56.7
77 1,3,5-Trimethylbenzene	105	8.582	8.582	(0.946)	396521	50.0000	48.8
76 4-Chlorotoluene	126	8.587	8.587	(0.947)	134105	50.0000	47.4
78 tert-Butylbenzene	119	8.804	8.804	(0.971)	426256	50.0000	44.0
79 1,2,4-Trimethylbenzene	105	8.840	8.840	(0.975)	407295	50.0000	55.2
80 sec-Butylbenzene	105	8.954	8.954	(0.987)	483761	50.0000	52.4
81 1,3-Dichlorobenzene	146	9.026	9.026	(0.995)	248489	50.0000	51.0
83 p-Isopropyltoluene	119	9.052	9.052	(0.998)	400611	50.0000	50.6
* 82 1,4-Dichlorobenzene-d4	152	9.068	9.068	(1.000)	147661	50.0000	
84 1,4-Dichlorobenzene	146	9.083	9.083	(1.002)	249198	50.0000	49.8
86 n-Butylbenzene	91	9.321	9.321	(1.028)	323635	50.0000	54.0
85 1,2-Dichlorobenzene	146	9.331	9.331	(1.029)	241120	50.0000	50.2
87 1,2-Dibromo-3-chloropropane	155	9.822	9.822	(1.083)	28523	50.0000	51.4
88 1,2,4-Trichlorobenzene	180	10.334	10.334	(1.140)	122890	50.0000	48.9
89 Hexachlorobutadiene	225	10.432	10.432	(1.150)	33651	50.0000	45.9
90 Naphthalene	128	10.484	10.484	(1.156)	345996	50.0000	52.9
91 1,2,3-Trichlorobenzene	180	10.629	10.629	(1.172)	105093	50.0000	50.6
92 2-methyl-naphthalene	142	11.156	11.156	(1.230)	84516	50.0000	47.3

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C01CCV.D
 Lab Smp Id: ccv
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 11:43
 Client Smp ID: ccv
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	451978	225989	903956	456732	1.05
59 Chlorobenzene-d5	321601	160801	643202	337893	5.07
82 1,4-Dichlorobenze	134849	67425	269698	147661	9.50

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.05	3.55	4.55	4.04	-0.29
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	-0.02
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-MAY-2010 23:46
Lab File ID: C01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: ccv Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.48331	0.47554	0.47554	0.000	-1.60877	20.00000	Averaged
2 Chloromethane	0.45548	0.39712	0.39712	0.000	-12.81372	20.00000	Averaged
3 Vinyl Chloride	0.37571	0.40905	0.40905	0.000	8.87601	20.00000	Averaged
4 Bromomethane	50.00000	20.90613	0.09233	0.000	-58.18773	0.000e+000	Linear
5 Chloroethane	50.00000	52.48407	0.13071	0.000	4.96815	0.000e+000	Linear
6 Trichlorofluoromethane	0.50261	0.56000	0.56000	0.000	11.41694	20.00000	Averaged
28 1,2-dichlorotrifluoroethane	0.38371	0.41130	0.41130	0.000	7.19123	20.00000	Averaged
7 Diethyl ether	0.14389	0.16394	0.16394	0.000	13.93112	20.00000	Averaged
17 tert-Butyl Alcohol	0.03221	0.03824	0.03824	0.000	18.72681	20.00000	Averaged
8 Acrolein	0.04438	0.04103	0.04103	0.000	-7.54216	20.00000	Averaged
10 1,1,2-trichlorotrifluoroethane	0.31736	0.33054	0.33054	0.000	4.15285	20.00000	Averaged
9 1,1-Dichloroethene	0.27379	0.28566	0.28566	0.000	4.33434	20.00000	Averaged
11 Acetone	250	325	0.09157	0.000	29.88212	0.000e+000	Linear
12 Iodomethane	100	56.86667	0.19034	0.000	-43.13333	0.000e+000	Linear
13 Carbon Disulfide	100	144	0.85846	0.000	43.84904	0.000e+000	Linear
14 allyl chloride	100	117	0.44024	0.000	17.12880	0.000e+000	Linear
145 Acetonitrile	1000	1171	0.04402	0.000	17.12880	0.000e+000	Linear
138 Methyl Acetate	50.00000	64.94106	0.45784	0.000	29.88212	0.000e+000	Linear
15 Methylene Chloride	50.00000	57.67084	0.31412	0.000	15.34168	0.000e+000	Linear
16 Acrylonitrile	1000	1367	0.13104	0.000	36.65268	0.000e+000	Linear
19 Methyl-tert-butyl ether	0.79512	0.82370	0.82370	0.000	3.59515	20.00000	Averaged
18 1,2-Dichloroethene (trans)	50.00000	52.99745	0.29194	0.000	5.99489	0.000e+000	Linear
20 n-Hexane	0.37194	0.33285	0.33285	0.000	-10.50863	20.00000	Averaged
21 1,1-Dichloroethane	0.55078	0.59494	0.59494	0.000	8.01770	20.00000	Averaged
23 Vinyl Acetate	200	198	0.60867	0.000	-0.91850	0.000e+000	Linear
140 Ethyl acetate	0.02645	0.02937	0.02937	0.000	11.03336	20.00000	Averaged
147 Chloroprene	0.48217	0.52617	0.52617	0.000	9.12646	20.00000	Averaged
24 2,2-Dichloropropane	0.47606	0.33289	0.33289	0.000	-30.07260	20.00000	Averaged <-
25 1,2-Dichloroethene (cis)	0.36802	0.38023	0.38023	0.000	3.31688	20.00000	Averaged
26 2-Butanone	250	321	0.19482	0.000	28.30225	0.000e+000	Linear
27 Propionitrile	0.05274	0.06039	0.06039	0.000	14.51577	20.00000	Averaged
29 Bromochloromethane	50.00000	75.73182	0.35465	0.000	51.46364	0.000e+000	Linear
146 Methacrylonitrile	250	418	0.06755	0.000	67.03728	0.000e+000	Linear
31 Chloroform	0.54825	0.58562	0.58562	0.000	6.81489	20.00000	Averaged
32 Dibromofluoromethane (S)	0.31397	0.31735	0.31735	0.000	1.07683	20.00000	Averaged
33 1,1,1-Trichloroethane	0.49662	0.54029	0.54029	0.000	8.79384	20.00000	Averaged
30 Tetrahydrofuran	50.00000	66.71588	0.14935	0.000	33.43175	0.000e+000	Linear
34 cyclohexane	0.54705	0.55899	0.55899	0.000	2.18369	20.00000	Averaged
37 Isobutyl alcohol	50.00000	62.64485	0.97412	0.000	25.28970	0.000e+000	Linear
35 Carbon Tetrachloride	0.43746	0.47293	0.47293	0.000	8.10718	20.00000	Averaged
36 1,1-Dichloropropene	0.39886	0.43189	0.43189	0.000	8.28267	20.00000	Averaged
38 Benzene	1.13296	1.16055	1.16055	0.000	2.43527	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-MAY-2010 23:46
Lab File ID: C01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: ccv Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\052610.b\8260-cl.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 isopropyl acetate	++++	++++	++++	0.000	++++	20.00000	Averaged
39 1,2-Dichloroethane	0.40070	0.43003	0.43003	0.000	7.31923	20.00000	Averaged
41 Trichloroethene	0.31404	0.34139	0.34139	0.000	8.70942	20.00000	Averaged
139 Methylcyclohexane	0.39414	0.39075	0.39075	0.000	-0.85999	20.00000	Averaged
42 1,2-Dichloropropane	0.29044	0.31818	0.31818	0.000	9.55267	20.00000	Averaged
43 Dibromomethane	50.00000	55.03788	0.22569	0.000	10.07576	0.000e+000	Linear
44 Methyl methacrylate	50.00000	57.81724	0.25994	0.000	15.63449	0.000e+000	Linear
143 2,2,4-Trimethylpentane	50.00000	46.87137	0.69142	0.000	-6.25727	0.000e+000	Linear
144 1,4-Dioxane	50.00000	53.79059	0.00139	0.000	7.58118	0.000e+000	Linear
45 Bromodichloromethane	0.41017	0.45092	0.45092	0.000	9.93379	20.00000	Averaged
46 2-Chloroethyl vinyl ether	0.30536	0.32616	0.32616	0.000	6.80970	20.00000	Averaged
47 cis-1,3-Dichloropropene	50.00000	53.99733	0.66542	0.000	7.99466	0.000e+000	Linear
48 4-Methyl-2-Pentanone	250	336	0.51951	0.000	34.34496	0.000e+000	Linear
49 Toluene-d8	1.16505	1.15657	1.15657	0.000	-0.72756	20.00000	Averaged
50 Toluene	1.56945	1.58608	1.58608	0.000	1.06005	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.61049	0.64007	0.64007	0.000	4.84526	20.00000	Averaged
52 Ethyl Methacrylate	0.55936	0.65663	0.65663	0.000	17.39029	20.00000	Averaged
53 1,1,2-Trichloroethane	50.00000	57.10981	0.31844	0.000	14.21963	0.000e+000	Linear
54 Tetrachloroethene	0.45030	0.71485	0.71485	0.000	58.74904	20.00000	Averaged
55 1,3-Dichloropropane	0.65200	0.69299	0.69299	0.000	6.28723	20.00000	Averaged
56 2-Hexanone	0.31624	0.36495	0.36495	0.000	15.40328	20.00000	Averaged
57 Dibromochloromethane	0.44325	0.50454	0.50454	0.000	13.82877	20.00000	Averaged
58 1,2-Dibromoethane	0.43570	0.46225	0.46225	0.000	6.09237	20.00000	Averaged
60 Chlorobenzene	1.06487	1.05911	1.05911	0.300	-0.54039	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	0.39893	0.42912	0.42912	0.000	7.56759	20.00000	Averaged
62 Ethylbenzene	0.55227	0.54024	0.54024	0.000	-2.17862	20.00000	Averaged
63 m&p-Xylene	100	105	0.67923	0.000	4.65769	0.000e+000	Linear
65 o-Xylene	0.66801	0.69030	0.69030	0.000	3.33672	20.00000	Averaged
66 Styrene	1.11915	1.16554	1.16554	0.000	4.14583	20.00000	Averaged
67 Bromoform	50.00000	53.11457	0.74186	0.000	6.22914	0.000e+000	Linear
68 Isopropylbenzene	1.64864	1.67291	1.67291	0.000	1.47235	20.00000	Averaged
69 trans-1,4-Dichloro-2-butene	0.15759	0.16073	0.16073	0.000	1.99262	20.00000	Averaged
142 n-amyl acetate	++++	0.00064	0.00064	0.000	++++	20.00000	Averaged
70 4-Bromofluorobenzene	0.46248	0.47694	0.47694	0.000	3.12511	20.00000	Averaged
71 Bromobenzene	50.00000	57.08325	0.69034	0.000	14.16651	0.000e+000	Linear
72 1,1,2,2-Tetrachloroethane	1.07534	1.17107	1.17107	0.300	8.90252	20.00000	Averaged
73 1,2,3-Trichloropropane	50.00000	57.16855	1.36234	0.000	14.33710	0.000e+000	Linear
74 n-Propylbenzene	50.00000	56.83717	4.01301	0.000	13.67434	0.000e+000	Linear
75 2-Chlorotoluene	50.00000	56.72950	2.64087	0.000	13.45899	0.000e+000	Linear
77 1,3,5-Trimethylbenzene	2.75092	2.68535	2.68535	0.000	-2.38381	20.00000	Averaged
76 4-Chlorotoluene	0.95880	0.90820	0.90820	0.000	-5.27776	20.00000	Averaged
78 tert-Butylbenzene	3.27897	2.88672	2.88672	0.000	-11.96268	20.00000	Averaged
79 1,2,4-Trimethylbenzene	50.00000	55.19469	2.75831	0.000	10.38939	0.000e+000	Linear

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 26-MAY-2010 23:46
 Lab File ID: C01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
 Analysis Type: WATER Init. Cal. Times: 12:38 16:35
 Lab Sample ID: ccv Quant Type: ISTD
 Method: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	50.00000	52.42776	3.27616	0.000	4.85552	0.000e+000	Linear
81 1,3-Dichlorobenzene	50.00000	50.97003	1.68283	0.000	1.94007	0.000e+000	Linear
83 p-Isopropyltoluene	50.00000	50.58243	2.71305	0.000	1.16486	0.000e+000	Linear
84 1,4-Dichlorobenzene	50.00000	49.78251	1.68764	0.000	-0.43499	0.000e+000	Linear
86 n-Butylbenzene	50.00000	53.96054	2.19174	0.000	7.92108	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.62596	1.63293	1.63293	0.000	0.42893	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	51.45253	0.19317	0.000	2.90506	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	48.87915	0.83224	0.000	-2.24169	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	45.88963	0.22789	0.000	-8.22074	0.000e+000	Linear
90 Naphthalene	2.21285	2.34318	2.34318	0.000	5.88976	20.00000	Averaged
91 1,2,3-Trichlorobenzene	50.00000	50.55488	0.71172	0.000	1.10976	0.000e+000	Linear
92 2-methyl-naphthalene	50.00000	47.33606	0.57237	0.000	-5.32788	0.000e+000	Linear

Data File: \\50wintarget\chem\50HSV2.i\A052610.b\CO1CCV.D
Date : 26-MAY-2010 23:46

Client ID: cov

Sample Info: cov

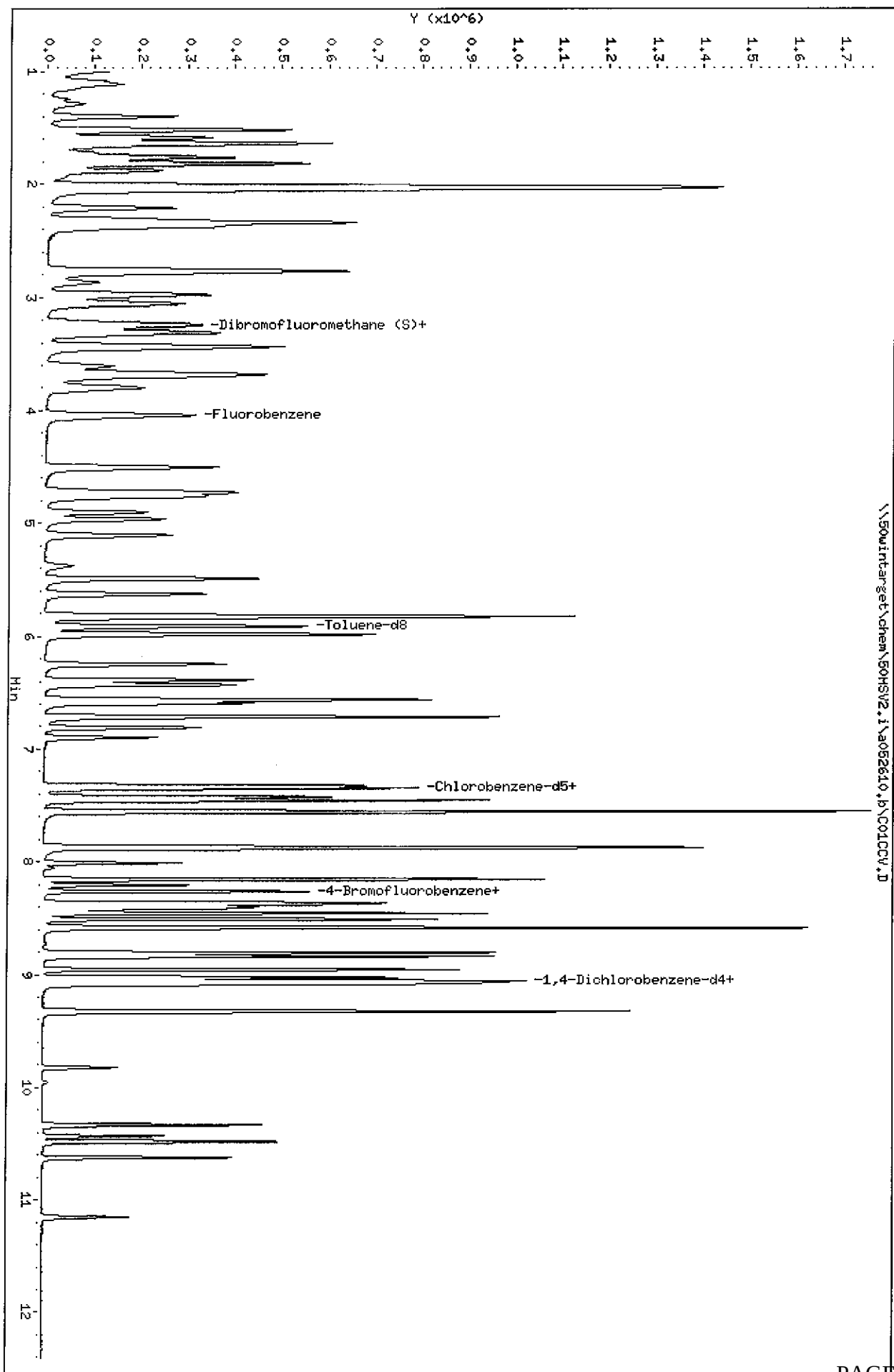
Purge Volume: 5.0

Column Phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: A052710.B
Lab File ID: A00BFB BFB Injection Date: 05/27/10
Instrument ID: 50MSV2 BFB Injection Time: 1128
GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	43.5
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	6.3 (8.0)1
176	95.0 - 101.0% of mass 174	75.4 (97.0)1
177	5.0 - 9.0% of mass 176	5.2 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV 34B-040/02	A01CCV	05/27/10	1202
02	LCS	LCS 34B-009	A02LCS	05/27/10	1236
03	MB	MB 34B-008	A03MB	05/27/10	1311
04	CCV	CCV-624	A04CCV	05/27/10	1345
05	LCS	438350	A05LCS	05/27/10	1420
06	MB	438349	A06MB	05/27/10	1454
07	5037895001	5037895001	A07	05/27/10	1528
08	5037756003	5037756003	A08	05/27/10	1603
09	5037756008	5037756008	A09	05/27/10	1637
10	5037756004	5037756004	A10	05/27/10	1711
11	5037756005	5037756005	A11	05/27/10	1746
12	5037771008	5037771008	A12	05/27/10	1820
13	5037771003	5037771003	A13	05/27/10	1854
14	5037771006	5037771006	A14	05/27/10	1929
15	5037771007	5037771007	A15	05/27/10	2003
16	5037771002	5037771002	A16	05/27/10	2036
17	5037771005	5037771005	A17	05/27/10	2111
18	5037771004	5037771004	A18	05/27/10	2145
19	5037771001	5037771001	A19	05/27/10	2219
20	5037771001	R5037771001	A20	05/27/10	2253
21	5037771001	R5037771001	A21	05/27/10	2327
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052710.B
 Instrument ID: 50MSV2 Calibration Date: 05/27/10 Time: 1202
 Lab File ID: A01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
=====	=====	=====	=====	=====	=====	
Bromochloromethane	71.8	50.0	LINR	-43.6	20.0	<-
Chloromethane	37.6	50.0	AVRG	24.8	20.0	<-
Bromomethane	29.3	50.0	LINR	41.4	20.0	<-
Vinyl Chloride	46.7	50.0	AVRG	6.6	20.0	
Chloroethane	44.7	50.0	LINR	10.6	20.0	
Methylene Chloride	56.2	50.0	LINR	-12.4	20.0	
1,1-Dichloroethene	49.1	50.0	AVRG	1.8	20.0	
1,1-Dichloroethane	51.0	50.0	AVRG	-2.0	20.0	
1,2-Dichloroethene (trans)	50.3	50.0	LINR	-0.6	20.0	
Chloroform	51.8	50.0	AVRG	-3.6	20.0	
1,2-Dichloroethane	52.4	50.0	AVRG	-4.8	20.0	
1,1,1-Trichloroethane	50.1	50.0	AVRG	-0.2	20.0	
Carbon Tetrachloride	49.6	50.0	AVRG	0.8	20.0	
Bromodichloromethane	53.5	50.0	AVRG	-7.0	20.0	
1,2-Dichloropropane	52.6	50.0	AVRG	-5.2	20.0	
trans-1,3-Dichloropropene	55.2	50.0	AVRG	-10.4	20.0	
Trichloroethene	49.9	50.0	AVRG	0.2	20.0	
Dibromochloromethane	55.6	50.0	AVRG	-11.2	20.0	
1,1,2-Trichloroethane	58.6	50.0	LINR	-17.2	20.0	
Benzene	49.3	50.0	AVRG	1.4	20.0	
cis-1,3-Dichloropropene	56.6	50.0	LINR	-13.2	20.0	
Bromoform	52.9	50.0	LINR	-5.8	20.0	
Tetrachloroethene	48.6	50.0	AVRG	2.8	20.0	
1,1,2,2-Tetrachloroethane	58.6	50.0	AVRG	-17.2	20.0	
Toluene	48.3	50.0	AVRG	3.4	20.0	
Chlorobenzene	48.0	50.0	AVRG	4.0	20.0	
Ethylbenzene	46.7	50.0	AVRG	6.6	20.0	
Styrene	50.4	50.0	AVRG	-0.8	20.0	
Trichlorofluoromethane	46.8	50.0	AVRG	6.4	20.0	
m&p-Xylene	101	100	LINR	-1.0	20.0	
1,2-Dichloroethene (cis)	49.0	50.0	AVRG	2.0	20.0	
o-Xylene	50.6	50.0	AVRG	-1.2	20.0	
1,2,3-Trichloropropane	63.7	50.0	LINR	-27.4	20.0	<-
1,3-Dichlorobenzene	48.8	50.0	LINR	2.4	20.0	
1,4-Dichlorobenzene	48.8	50.0	LINR	2.4	20.0	
Dibromomethane	54.3	50.0	LINR	-8.6	20.0	
1,2-Dichlorobenzene	49.4	50.0	AVRG	1.2	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052710.B
 Instrument ID: 50MSV2 Calibration Date: 05/27/10 Time: 1202
 Lab File ID: A01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
Dichlorodifluoromethane	39.1	50.0	AVRG	21.8	20.0	<-
2,2-Dichloropropane	48.1	50.0	AVRG	3.8	20.0	
1,1-Dichloropropene	50.9	50.0	AVRG	-1.8	20.0	
1,3-Dichloropropane	54.0	50.0	AVRG	-8.0	20.0	
1,2-Dibromoethane	53.5	50.0	AVRG	-7.0	20.0	
1,1,1,2-Tetrachloroethane	51.9	50.0	AVRG	-3.8	20.0	
Isopropylbenzene	47.0	50.0	AVRG	6.0	20.0	
Bromobenzene	55.3	50.0	LINR	-10.6	20.0	
n-Propylbenzene	53.2	50.0	LINR	-6.4	20.0	
2-Chlorotoluene	53.6	50.0	LINR	-7.2	20.0	
4-Chlorotoluene	45.0	50.0	AVRG	10.0	20.0	
1,3,5-Trimethylbenzene	47.5	50.0	AVRG	5.0	20.0	
tert-Butylbenzene	46.7	50.0	AVRG	6.6	20.0	
1,2,4-Trimethylbenzene	52.7	50.0	LINR	-5.4	20.0	
sec-Butylbenzene	49.5	50.0	LINR	1.0	20.0	
p-Isopropyltoluene	48.6	50.0	LINR	2.8	20.0	
n-Butylbenzene	53.2	50.0	LINR	-6.4	20.0	
1,2-Dibromo-3-chloropropane	56.8	50.0	LINR	-13.6	20.0	
1,2,4-Trichlorobenzene	51.1	50.0	LINR	-2.2	20.0	
Hexachlorobutadiene	47.0	50.0	LINR	6.0	20.0	
Naphthalene	58.4	50.0	AVRG	-16.8	20.0	
1,2,3-Trichlorobenzene	54.1	50.0	LINR	-8.2	20.0	
Acrolein	953	1000	AVRG	4.7	20.0	
Carbon Disulfide	134	100	LINR	-34.0	20.0	<-
Acetone	344	250	LINR	-37.6	20.0	<-
Acrylonitrile	1470	1000	LINR	-47.0	20.0	<-
Vinyl Acetate	266	200	LINR	-33.0	20.0	<-
2-Butanone	352	250	LINR	-40.8	20.0	<-
2-Chloroethyl vinyl ether	110	100	AVRG	-10.0	20.0	
4-Methyl-2-Pentanone	378	250	LINR	-51.2	20.0	<-
2-Hexanone	326	250	AVRG	-30.4	20.0	<-
Methyl-tert-butyl ether	103	100	AVRG	-3.0	20.0	
Iodomethane	52.5	100	LINR	47.5	20.0	<-
trans-1,4-Dichloro-2-butene	60.4	50.0	AVRG	-20.8	20.0	<-
Ethyl Methacrylate	60.2	50.0	AVRG	-20.4	20.0	<-
2-methyl-naphthalene	57.0	50.0	LINR	-14.0	20.0	
n-Hexane	46.0	50.0	AVRG	8.0	20.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: A052710.B
 Instrument ID: 50MSV2 Calibration Date: 05/27/10 Time: 1202
 Lab File ID: A01CCV Init. Calib. Date(s): 05/19/10 05/19/10
 Heated Purge: (Y/N) N Init. Calib. Times: 1238 1635
 GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
=====	=====	=====	=====	=====	=====
cyclohexane	47.6	50.0	AVRG	4.8	20.0
1,1,2trichlorotrifluoroethan	49.5	50.0	AVRG	1.0	20.0
1,2-dichlorotrifluoroethane	50.4	50.0	AVRG	-0.8	20.0
Tetrahydrofuran	74.6	50.0	LINR	-49.2	20.0 <-
allyl chloride	110	100	LINR	-10.0	20.0
Diethyl ether	56.8	50.0	AVRG	-13.6	20.0
Isobutyl alcohol	69.0	50.0	LINR	-38.0	20.0 <-
Methyl methacrylate	61.9	50.0	LINR	-23.8	20.0 <-
Propionitrile	63.7	50.0	AVRG	-27.4	20.0 <-
tert-Butyl Alcohol	133	100	AVRG	-33.0	20.0 <-
Methyl Acetate	68.8	50.0	LINR	-37.6	20.0 <-
Methylcyclohexane	46.3	50.0	AVRG	7.4	20.0
Ethyl acetate	516	500	AVRG	-3.2	20.0
isopropyl acetate	0.000	250	AVRG	100.0	20.0 <-
n-amyl acetate	0.000	250	AVRG	100.0	20.0 <-
2,2,4-Trimethylpentane	46.0	50.0	LINR	8.0	20.0
1,4-Dioxane	57.6	50.0	LINR	-15.2	20.0
Acetonitrile	1100	1000	LINR	-10.0	20.0
Methacrylonitrile	452	250	LINR	-80.8	20.0 <-
Chloroprene	49.2	50.0	AVRG	1.6	20.0
=====	=====	=====	=====	=====	=====
Toluene-d8	49.8	50.0	AVRG	0.4	20.0
4-Bromofluorobenzene	51.5	50.0	AVRG	-3.0	20.0
Dibromofluoromethane (S)	50.5	50.0	AVRG	-1.0	20.0

Date : 27-MAY-2010 11:28

Client ID: bfb050

Instrument: 50MSV2.i

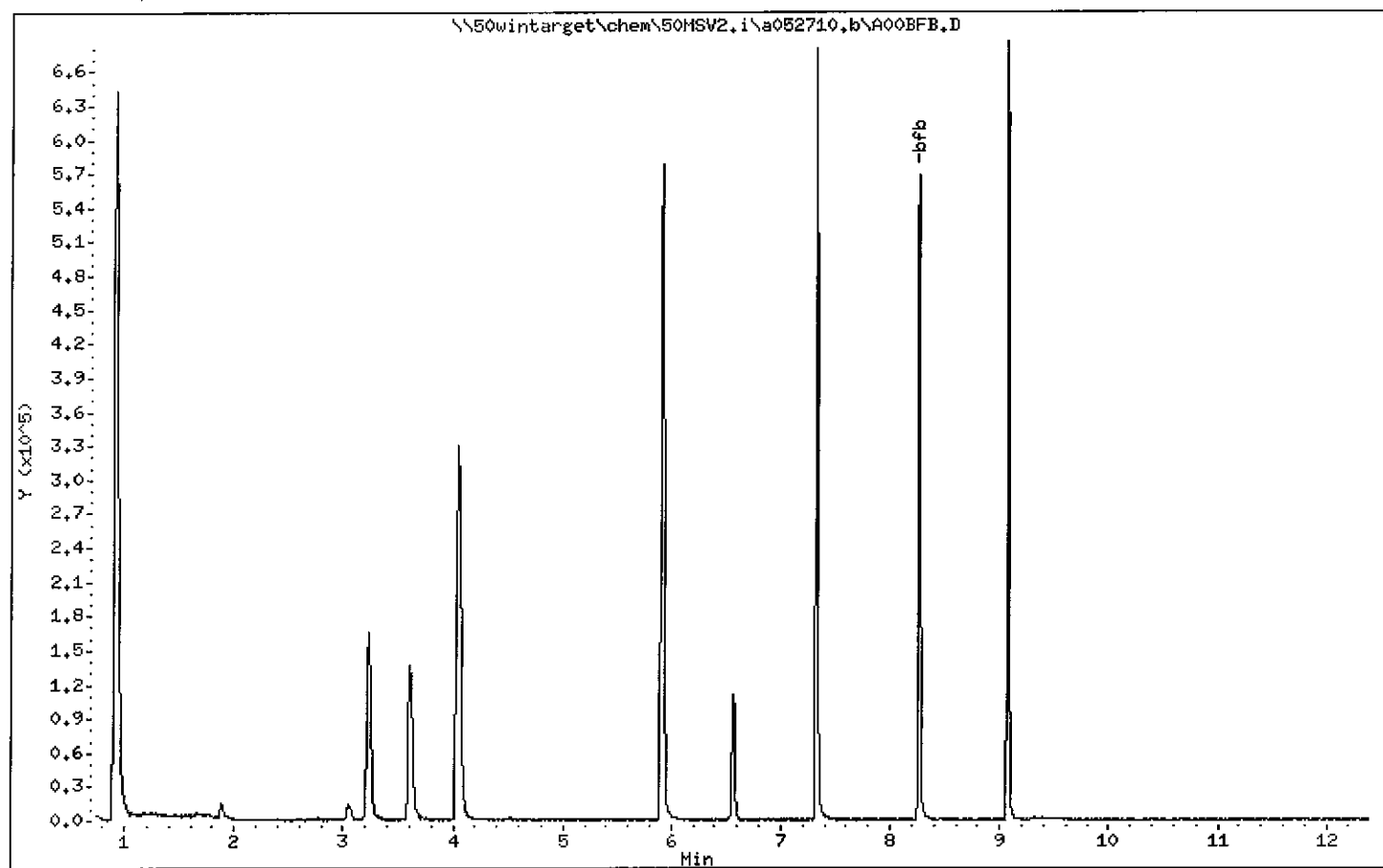
Sample Info: bfb 34B-006

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Date : 27-MAY-2010 11:28

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34B-006

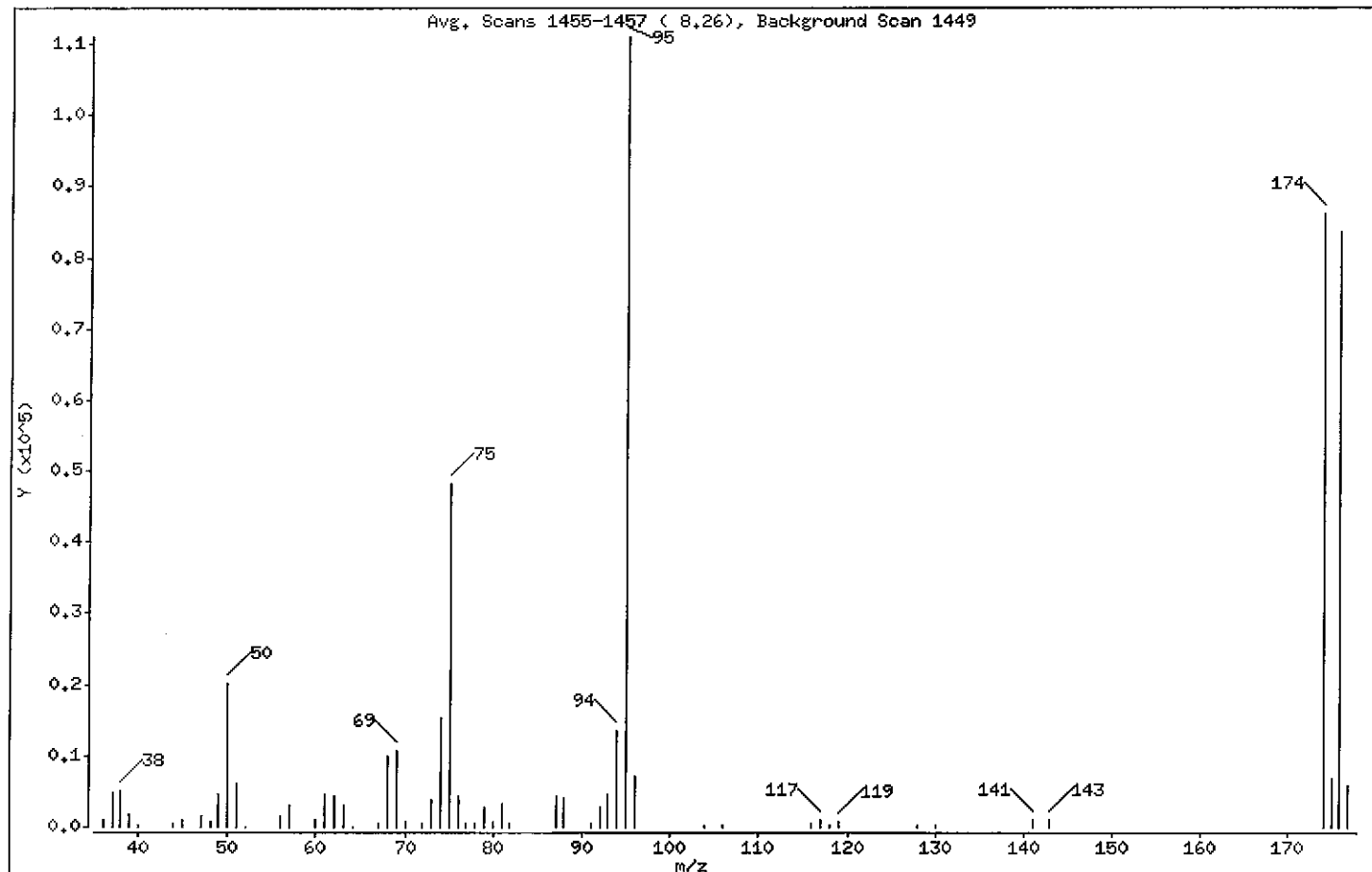
Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.23
75	30.00 - 60.00% of mass 95	43.46
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.69
175	5.00 - 9.00% of mass 174	6.25 (8.05)
176	95.00 - 101.00% of mass 174	75.36 (97.00)
177	5.00 - 9.00% of mass 176	5.24 (6.96)
95	100.00 - 100.00% of mass 95	100.00

Date : 27-MAY-2010 11:28

Client ID: bfb050

Instrument: 50MSV2.i

Sample Info: bfb 34B-006

Volume Injected (uL): 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18

Data File: A00BFB.D

Spectrum: Avg. Scans 1455-1457 (8.26), Background Scan 1449

Location of Maximum: 95.00

Number of points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	985	60.00	912	78.00	447	116.00	411
37.00	4844	61.00	4539	79.00	2769	117.00	1020
38.00	5034	62.00	4237	80.00	811	118.00	144
39.00	1702	63.00	3050	81.00	3276	119.00	797
40.00	251	64.00	119	82.00	625	128.00	134
44.00	515	67.00	417	87.00	4296	130.00	359
45.00	910	68.00	9988	88.00	4197	141.00	1019
47.00	1573	69.00	10682	91.00	533	143.00	1017
48.00	759	70.00	816	92.00	2892	174.00	86280
49.00	4566	72.00	614	93.00	4673	175.00	6943
50.00	20240	73.00	3846	94.00	13459	176.00	83688
51.00	6137	74.00	15438	95.00	111056	177.00	5824
52.00	120	75.00	48264	96.00	7243		
56.00	1559	76.00	4246	104.00	336		
57.00	2943	77.00	536	106.00	347		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A01CCV.D
Lab Smp Id: ccv 34B-040/029 Client Smp ID: ccv
Inj Date : 27-MAY-2010 12:02
Operator : jlf Inst ID: 50MSV2.i
Smp Info : ccv 34B-040/029
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A01CCV.D
Meth Date : 28-May-2010 11:17 jfislars Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: All-8CAL.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	0.991	1.012	(0.246)	179334	50.0000	39.1
2 Chloromethane	50	1.084	1.094	(0.269)	162714	50.0000	37.6
3 Vinyl Chloride	62	1.115	1.130	(0.276)	166758	50.0000	46.7
4 Bromomethane	94	1.239	1.265	(0.307)	59903	50.0000	29.3
5 Chloroethane	64	1.110	1.136	(0.275)	52994	50.0000	44.7
6 Trichlorofluoromethane	101	1.394	1.415	(0.346)	223639	50.0000	46.8
28 1,2-dichlorotrifluoroethane	67	1.508	1.534	(0.374)	183798	50.0000	50.4
7 Diethyl ether	74	1.518	1.534	(0.376)	77606	50.0000	56.8
17 tert-Butyl Alcohol	59	1.942	1.963	(0.481)	40731	100.000	133
8 Acrolein	56	1.575	1.601	(0.390)	401664	1000.00	953
10 1,1,2trichlorotrifluoroethane	101	1.622	1.647	(0.402)	149296	50.0000	49.5
9 1,1-Dichloroethene	96	1.632	1.658	(0.404)	127765	50.0000	49.1
11 Acetone	43	1.653	1.678	(0.410)	229250	250.000	344
12 Iodomethane	142	1.715	1.740	(0.425)	165510	100.000	52.5
13 Carbon Disulfide	76	1.756	1.782	(0.435)	759372	100.000	134
14 allyl chloride	41	1.808	1.833	(0.448)	395424	100.000	110
145 Acetonitrile	41	1.808	1.833	(0.448)	395424	1000.00	1100
138 Methyl Acetate	43	1.653	1.678	(0.410)	229250	50.0000	68.8
15 Methylene Chloride	84	1.875	1.906	(0.465)	145543	50.0000	56.2
16 Acrylonitrile	53	2.009	2.040	(0.498)	1327526	1000.00	1470
19 Methyl-tert-butyl ether	73	2.040	2.066	(0.506)	779346	100.000	103
18 1,2-Dichloroethene (trans)	96	2.035	2.061	(0.504)	131628	50.0000	50.3

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
20 n-Hexane	57	2.206	2.236	(0.547)	162448	50.0000	46.0
21 1,1-Dichloroethane	63	2.309	2.340	(0.572)	266962	50.0000	51.0
23 Vinyl Acetate	43	2.340	2.366	(0.580)	1498254	200.000	266
140 Ethyl acetate	88	2.376	2.407	(0.589)	129603	500.000	516
147 Chloroprene	53	2.376	2.407	(0.589)	225329	50.0000	49.2
24 2,2-Dichloropropane	77	2.759	2.789	(0.684)	217257	50.0000	48.1
25 1,2-Dichloroethene (cis)	96	2.759	2.795	(0.684)	171144	50.0000	49.0
26 2-Butanone	43	2.774	2.805	(0.688)	503737	250.000	352
27 Propionitrile	54	2.831	2.862	(0.702)	31881	50.0000	63.7
29 Bromochloromethane	49	2.976	3.012	(0.737)	160450	50.0000	71.8
146 Methacrylonitrile	41	2.965	2.996	(0.735)	172942	250.000	452
31 Chloroform	83	3.053	3.089	(0.757)	269890	50.0000	51.8
\$ 32 Dibromofluoromethane (S)	113	3.219	3.255	(0.798)	150567	50.0000	50.5
33 1,1,1-Trichloroethane	97	3.245	3.286	(0.804)	236256	50.0000	50.1
30 Tetrahydrofuran	42	3.038	3.069	(0.753)	77771	50.0000	74.6
34 cyclohexane	56	3.307	3.348	(0.819)	247257	50.0000	47.6
37 Isobutyl alcohol	43	2.774	2.805	(0.688)	503737	50.0000	69.0
35 Carbon Tetrachloride	117	3.425	3.472	(0.849)	206256	50.0000	49.6
36 1,1-Dichloropropene	75	3.425	3.467	(0.849)	192879	50.0000	50.9
38 Benzene	78	3.668	3.709	(0.909)	530200	50.0000	49.3
39 1,2-Dichloroethane	62	3.694	3.730	(0.915)	199328	50.0000	52.4
* 40 Fluorobenzene	96	4.035	4.076	(1.000)	474775	50.0000	
41 Trichloroethene	95	4.500	4.536	(1.115)	148827	50.0000	49.9
139 Methylcyclohexane	55	4.723	4.759	(1.170)	173451	50.0000	46.3
42 1,2-Dichloropropane	63	4.764	4.795	(1.181)	145031	50.0000	52.6
43 Dibromomethane	93	4.898	4.929	(1.214)	105811	50.0000	54.3
44 Methyl methacrylate	69	4.960	4.991	(1.229)	131897	50.0000	61.9
143 2,2,4-Trimethylpentane	57	3.792	3.834	(0.940)	322481	50.0000	46.0
144 1,4-Dioxane	88	4.966	5.002	(1.231)	850	50.0000	57.6
45 Bromodichloromethane	83	5.105	5.136	(1.265)	208520	50.0000	53.5
46 2-Chloroethyl vinyl ether	63	5.488	5.518	(0.749)	235340	100.000	110
47 cis-1,3-Dichloropropene	75	5.622	5.653	(0.768)	242864	50.0000	56.6
48 4-Methyl-2-Pentanone	43	5.824	5.849	(0.795)	1008685	250.000	378
\$ 49 Toluene-d8	98	5.911	5.937	(0.807)	404878	50.0000	49.8
50 Toluene	91	5.979	6.009	(0.816)	529447	50.0000	48.3
51 trans-1,3-Dichloropropene	75	6.247	6.273	(0.853)	235273	50.0000	55.2
52 Ethyl Methacrylate	69	6.387	6.413	(0.872)	235229	50.0000	60.2
53 1,1,2-Trichloroethane	83	6.428	6.454	(0.878)	113929	50.0000	58.6
54 Tetrachloroethene	166	6.558	6.583	(0.896)	152803	50.0000	48.6
55 1,3-Dichloropropane	76	6.594	6.619	(0.900)	245646	50.0000	54.0
56 2-Hexanone	43	6.713	6.733	(0.917)	720650	250.000	326
57 Dibromochloromethane	129	6.806	6.831	(0.929)	172034	50.0000	55.6
58 1,2-Dibromoethane	107	6.893	6.919	(0.941)	162679	50.0000	53.5
* 59 Chlorobenzene-d5	117	7.322	7.343	(1.000)	349045	50.0000	
60 Chlorobenzene	112	7.348	7.369	(1.004)	357054	50.0000	48.0
61 1,1,1,2-Tetrachloroethane	131	7.426	7.446	(1.014)	144664	50.0000	51.9
62 Ethylbenzene	106	7.457	7.472	(1.018)	180046	50.0000	46.7
63 m&p-Xylene	106	7.555	7.575	(1.032)	459981	100.000	101
65 o-Xylene	106	7.870	7.886	(1.075)	235871	50.0000	50.6
66 Styrene	104	7.881	7.896	(1.076)	393936	50.0000	50.4
67 Bromoform	173	8.010	8.030	(0.883)	113295	50.0000	52.9
68 Isopropylbenzene	105	8.155	8.170	(1.114)	541198	50.0000	47.0
69 trans-1,4-Dichloro-2-butene	53	8.418	8.433	(1.150)	66425	50.0000	60.4
142 n-amyl acetate	70	8.263	8.278	(1.128)	1186	250.000	

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb)	ON-COL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 70 4-Bromofluorobenzene	95	8.263	8.278	(1.128)	166189	50.0000	51.5
71 Bromobenzene	77	8.361	8.382	(1.142)	234037	50.0000	55.3
72 1,1,2,2-Tetrachloroethane	83	8.382	8.397	(0.924)	193483	50.0000	58.6
73 1,2,3-Trichloropropane	75	8.403	8.418	(0.926)	231101	50.0000	63.7
74 n-Propylbenzene	91	8.454	8.475	(0.932)	579742	50.0000	53.2
75 2-Chlorotoluene	91	8.506	8.526	(0.938)	384411	50.0000	53.6
77 1,3,5-Trimethylbenzene	105	8.584	8.599	(0.946)	401172	50.0000	47.5
76 4-Chlorotoluene	126	8.589	8.604	(0.947)	132503	50.0000	45.0
78 tert-Butylbenzene	119	8.806	8.821	(0.971)	469858	50.0000	46.7
79 1,2,4-Trimethylbenzene	105	8.842	8.857	(0.975)	405640	50.0000	52.7
80 sec-Butylbenzene	105	8.956	8.971	(0.987)	476525	50.0000	49.5
81 1,3-Dichlorobenzene	146	9.028	9.043	(0.995)	247575	50.0000	48.8
83 p-Isopropyltoluene	119	9.054	9.069	(0.998)	400258	50.0000	48.6
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.085	(1.000)	153436	50.0000	
84 1,4-Dichlorobenzene	146	9.085	9.100	(1.002)	254124	50.0000	48.8
86 n-Butylbenzene	91	9.323	9.338	(1.028)	332137	50.0000	53.2
85 1,2-Dichlorobenzene	146	9.328	9.343	(1.028)	246250	50.0000	49.4
87 1,2-Dibromo-3-chloropropane	155	9.824	9.839	(1.083)	32770	50.0000	56.8
88 1,2,4-Trichlorobenzene	180	10.336	10.351	(1.140)	133411	50.0000	51.1
89 Hexachlorobutadiene	225	10.434	10.449	(1.150)	35828	50.0000	47.0
90 Naphthalene	128	10.480	10.496	(1.156)	396521	50.0000	58.4
91 1,2,3-Trichlorobenzene	180	10.625	10.640	(1.172)	116897	50.0000	54.1
92 2-methyl-naphthalene	142	11.157	11.173	(1.230)	107893	50.0000	57.0

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A01CCV.D
Lab Smp Id: ccv 34B-040/029
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052710.b\A01CCV.D
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	451978	225989	903956	474775	5.04
59 Chlorobenzene-d5	321601	160801	643202	349045	8.53
82 1,4-Dichlorobenze	134849	67425	269698	153436	13.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.05	3.55	4.55	4.04	-0.38
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.07
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 27-MAY-2010 12:02
Lab File ID: A01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: ccv 34B-040/029 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\A01CCV.D\8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	0.48331	0.37772	0.37772	0.000	-21.84679	20.00000	Averaged <-
2 Chloromethane	0.45548	0.34272	0.34272	0.000	-24.75687	20.00000	Averaged <-
3 Vinyl Chloride	0.37571	0.35124	0.35124	0.000	-6.51315	20.00000	Averaged
4 Bromomethane	50.00000	29.29369	0.12617	0.000	-41.41263	0.000e+000	Linear
5 Chloroethane	50.00000	44.72958	0.11162	0.000	-10.54083	0.000e+000	Linear
6 Trichlorofluoromethane	0.50261	0.47104	0.47104	0.000	-6.28132	20.00000	Averaged
28 1,2-dichlorotrifluoroethane	0.38371	0.38713	0.38713	0.000	0.89064	20.00000	Averaged
7 Diethyl ether	0.14389	0.16346	0.16346	0.000	13.59594	20.00000	Averaged
17 tert-Butyl Alcohol	0.03221	0.04290	0.04290	0.000	33.16396	20.00000	Averaged <-
8 Acrolein	0.04438	0.04230	0.04230	0.000	-4.67921	20.00000	Averaged
10 1,1,2trichlorotrifluoroetha	0.31736	0.31446	0.31446	0.000	-0.91498	20.00000	Averaged
9 1,1-Dichloroethene	0.27379	0.26911	0.26911	0.000	-1.71088	20.00000	Averaged
11 Acetone	250	344	0.09657	0.000	37.68582	0.000e+000	Linear
12 Iodomethane	100	52.49980	0.17430	0.000	-47.50020	0.000e+000	Linear
13 Carbon Disulfide	100	134	0.79972	0.000	33.51817	0.000e+000	Linear
14 allyl chloride	100	110	0.41643	0.000	10.35794	0.000e+000	Linear
145 Acetonitrile	1000	1104	0.04164	0.000	10.35794	0.000e+000	Linear
138 Methyl Acetate	50.00000	68.84291	0.48286	0.000	37.68582	0.000e+000	Linear
15 Methylene Chloride	50.00000	56.17345	0.30655	0.000	12.34690	0.000e+000	Linear
16 Acrylonitrile	1000	1468	0.13981	0.000	46.84790	0.000e+000	Linear
19 Methyl-tert-butyl ether	0.79512	0.82075	0.82075	0.000	3.22441	20.00000	Averaged
18 1,2-Dichloroethene (trans)	50.00000	50.33905	0.27724	0.000	0.67810	0.000e+000	Linear
20 n-Hexane	0.37194	0.34216	0.34216	0.000	-8.00654	20.00000	Averaged
21 1,1-Dichloroethane	0.55078	0.56229	0.56229	0.000	2.09009	20.00000	Averaged
23 Vinyl Acetate	200	266	0.78893	0.000	33.15404	0.000e+000	Linear
140 Ethyl acetate	0.02645	0.02730	0.02730	0.000	3.18791	20.00000	Averaged
147 Chloroprene	0.48217	0.47460	0.47460	0.000	-1.56924	20.00000	Averaged
24 2,2-Dichloropropane	0.47606	0.45760	0.45760	0.000	-3.87677	20.00000	Averaged
25 1,2-Dichloroethene (cis)	0.36802	0.36047	0.36047	0.000	-2.05004	20.00000	Averaged
26 2-Butanone	250	352	0.21220	0.000	40.90252	0.000e+000	Linear
27 Propionitrile	0.05274	0.06715	0.06715	0.000	27.32959	20.00000	Averaged <-
29 Bromochloromethane	50.00000	71.80494	0.33795	0.000	43.60988	0.000e+000	Linear
146 Methacrylonitrile	250	452	0.07285	0.000	80.72516	0.000e+000	Linear
31 Chloroform	0.54825	0.56846	0.56846	0.000	3.68529	20.00000	Averaged
\$ 32 Dibromofluoromethane (S)	0.31397	0.31713	0.31713	0.000	1.00707	20.00000	Averaged
33 1,1,1-Trichloroethane	0.49662	0.49762	0.49762	0.000	0.20015	20.00000	Averaged
30 Tetrahydrofuran	50.00000	74.61913	0.16381	0.000	49.23826	0.000e+000	Linear
34 cyclohexane	0.54705	0.52079	0.52079	0.000	-4.79985	20.00000	Averaged
37 Isobutyl alcohol	50.00000	69.01103	1.06100	0.000	38.02206	0.000e+000	Linear
35 Carbon Tetrachloride	0.43746	0.43443	0.43443	0.000	-0.69274	20.00000	Averaged
36 1,1-Dichloropropene	0.39886	0.40625	0.40625	0.000	1.85409	20.00000	Averaged
38 Benzene	1.13296	1.11674	1.11674	0.000	-1.43195	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 27-MAY-2010 12:02
Lab File ID: A01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
Analysis Type: WATER Init. Cal. Times: 12:38 16:35
Lab Sample ID: ccv 34B-040/029 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 isopropyl acetate	++++	++++	++++	0.000	++++	20.00000	Averaged <-
39 1,2-Dichloroethane	0.40070	0.41984	0.41984	0.000	4.77456	20.00000	Averaged
41 Trichloroethene	0.31404	0.31347	0.31347	0.000	-0.18184	20.00000	Averaged
139 Methylcyclohexane	0.39414	0.36533	0.36533	0.000	-7.30869	20.00000	Averaged
42 1,2-Dichloropropane	0.29044	0.30547	0.30547	0.000	5.17683	20.00000	Averaged
43 Dibromomethane	50.00000	54.33011	0.22287	0.000	8.66023	0.000e+000	Linear
44 Methyl methacrylate	50.00000	61.94243	0.27781	0.000	23.88487	0.000e+000	Linear
143 2,2,4-Trimethylpentane	50.00000	46.01491	0.67923	0.000	-7.97018	0.000e+000	Linear
144 1,4-Dioxane	50.00000	57.58712	0.00179	0.000	15.17424	0.000e+000	Linear
45 Bromodichloromethane	0.41017	0.43920	0.43920	0.000	7.07565	20.00000	Averaged
46 2-Chloroethyl vinyl ether	0.30536	0.33712	0.33712	0.000	10.40048	20.00000	Averaged
47 cis-1,3-Dichloropropene	50.00000	56.63319	0.69580	0.000	13.26639	0.000e+000	Linear
48 4-Methyl-2-Pentanone	250	378	0.57797	0.000	51.08760	0.000e+000	Linear
49 Toluene-d8	1.16505	1.15996	1.15996	0.000	-0.43667	20.00000	Averaged
50 Toluene	1.56945	1.51684	1.51684	0.000	-3.35154	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.61049	0.67405	0.67405	0.000	10.41151	20.00000	Averaged
52 Ethyl Methacrylate	0.55936	0.67392	0.67392	0.000	20.48147	20.00000	Averaged <-
53 1,1,2-Trichloroethane	50.00000	58.62025	0.32640	0.000	17.24050	0.000e+000	Linear
54 Tetrachloroethene	0.45030	0.43777	0.43777	0.000	-2.78208	20.00000	Averaged
55 1,3-Dichloropropane	0.65200	0.70377	0.70377	0.000	7.94021	20.00000	Averaged
56 2-Hexanone	0.31624	0.41293	0.41293	0.000	30.57458	20.00000	Averaged <-
57 Dibromochloromethane	0.44325	0.49287	0.49287	0.000	11.19573	20.00000	Averaged
58 1,2-Dibromoethane	0.43570	0.46607	0.46607	0.000	6.96956	20.00000	Averaged
60 Chlorobenzene	1.06487	1.02295	1.02295	0.300	-3.93686	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	0.39893	0.41446	0.41446	0.000	3.89309	20.00000	Averaged
62 Ethylbenzene	0.55227	0.51582	0.51582	0.000	-6.59987	20.00000	Averaged
63 m&p-Xylene	100	101	0.65891	0.000	1.47418	0.000e+000	Linear
65 o-Xylene	0.66801	0.67576	0.67576	0.000	1.16092	20.00000	Averaged
66 Styrene	1.11915	1.12861	1.12861	0.000	0.84576	20.00000	Averaged
67 Bromoform	50.00000	52.86773	0.73839	0.000	5.73547	0.000e+000	Linear
68 Isopropylbenzene	1.64864	1.55051	1.55051	0.000	-5.95216	20.00000	Averaged
69 trans-1,4-Dichloro-2-butene	0.15759	0.19030	0.19030	0.000	20.75866	20.00000	Averaged <-
142 n-amyl acetate	++++	0.00068	0.00068	0.000	++++	20.00000	Averaged <-
70 4-Bromofluorobenzene	0.46248	0.47612	0.47612	0.000	2.94993	20.00000	Averaged
71 Bromobenzene	50.00000	55.29210	0.67051	0.000	10.58420	0.000e+000	Linear
72 1,1,1,2-Tetrachloroethane	1.07534	1.26100	1.26100	0.300	17.26516	20.00000	Averaged
73 1,2,3-Trichloropropane	50.00000	63.73643	1.50617	0.000	27.47286	0.000e+000	Linear
74 n-Propylbenzene	50.00000	53.21957	3.77840	0.000	6.43914	0.000e+000	Linear
75 2-Chlorotoluene	50.00000	53.60093	2.50535	0.000	7.20186	0.000e+000	Linear
77 1,3,5-Trimethylbenzene	2.75092	2.61459	2.61459	0.000	-4.95598	20.00000	Averaged
76 4-Chlorotoluene	0.95880	0.86357	0.86357	0.000	-9.93185	20.00000	Averaged
78 tert-Butylbenzene	3.27897	3.06224	3.06224	0.000	-6.60976	20.00000	Averaged
79 1,2,4-Trimethylbenzene	50.00000	52.74946	2.64371	0.000	5.49891	0.000e+000	Linear

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV2.i Injection Date: 27-MAY-2010 12:02
 Lab File ID: A01CCV.D Init. Cal. Date(s): 19-MAY-2010 19-MAY-2010
 Analysis Type: WATER Init. Cal. Times: 12:38 16:35
 Lab Sample ID: ccv 34B-040/029 Quant Type: ISTD
 Method: \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m

COMPOUND	RRF / AMOUNT	RFS0	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
80 sec-Butylbenzene	50.00000	49.52965	3.10569	0.000	-0.94070	0.000e+000	Linear
81 1,3-Dichlorobenzene	50.00000	48.83151	1.61354	0.000	-2.33698	0.000e+000	Linear
83 p-Isopropyltoluene	50.00000	48.56495	2.60863	0.000	-2.87011	0.000e+000	Linear
84 1,4-Dichlorobenzene	50.00000	48.84024	1.65622	0.000	-2.31953	0.000e+000	Linear
86 n-Butylbenzene	50.00000	53.23644	2.16466	0.000	6.47288	0.000e+000	Linear
85 1,2-Dichlorobenzene	1.62596	1.60490	1.60490	0.000	-1.29473	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	56.84066	0.21357	0.000	13.68132	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	51.10470	0.86949	0.000	2.20940	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	47.02023	0.23350	0.000	-5.95954	0.000e+000	Linear
90 Naphthalene	2.21285	2.58428	2.58428	0.000	16.76514	20.00000	Averaged
91 1,2,3-Trichlorobenzene	50.00000	54.11871	0.76186	0.000	8.23743	0.000e+000	Linear
92 2-methyl-naphthalene	50.00000	57.00786	0.70318	0.000	14.01572	0.000e+000	Linear

Date: 27-MAY-2010 12:02

Client ID: ccv

Sample Info: ccv 34B-040/029

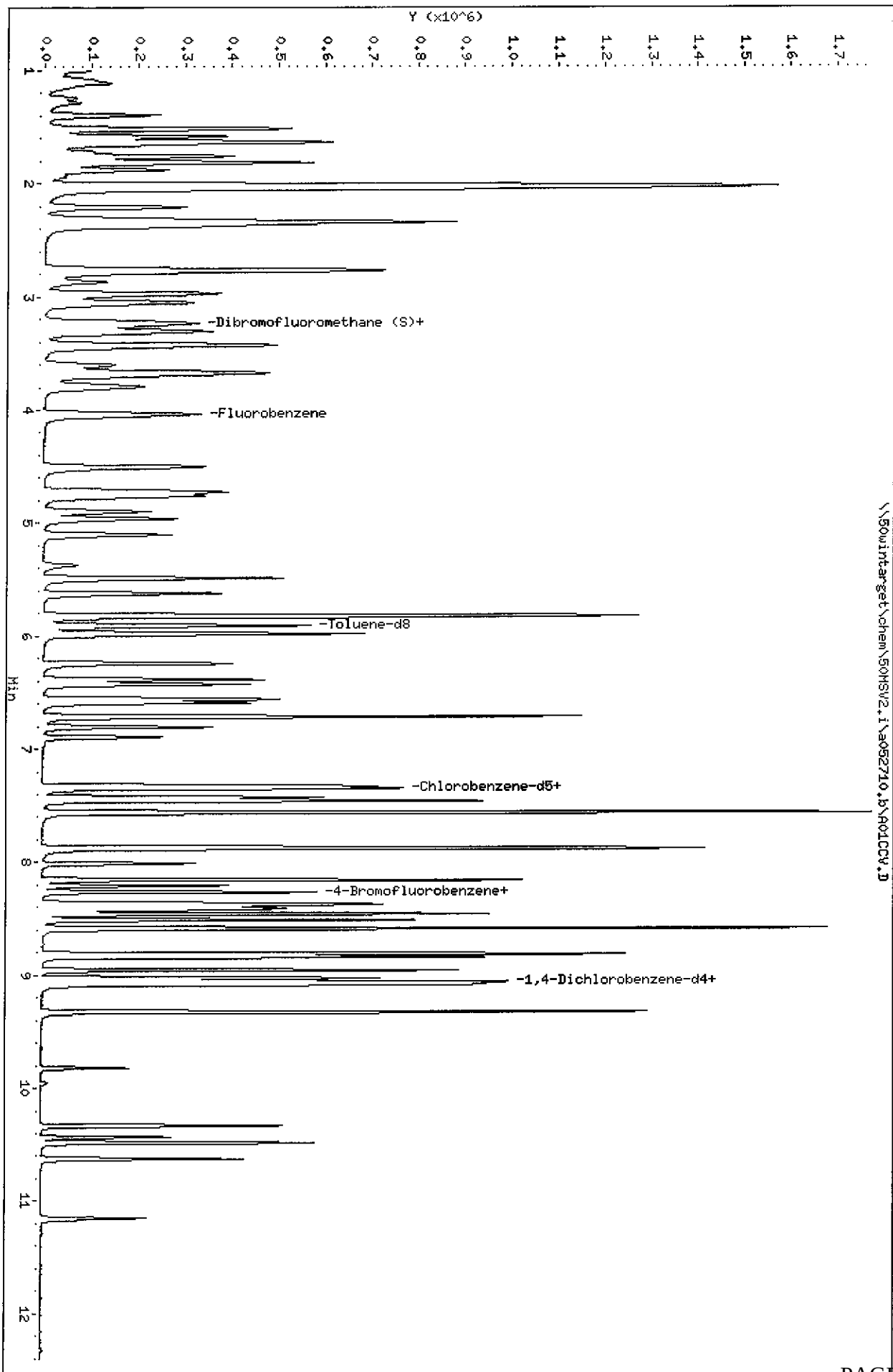
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18



VOA 8260B GC/MS Volatiles

Section 4: Quality Control Data

- * *Laboratory Control Samples (LCS)*
- * *Matrix Spike and Spike Duplicate Samples (MS/MSD)*

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A02LCS.D
 Lab Smp Id: 437657 Client Smp ID: lcs
 Inj Date : 26-MAY-2010 12:17
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : lcs 34B-009
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\A02LCS.D
 Meth Date : 27-May-2010 15:38 jfislars Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)
=====	====	====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	0.991	0.995	(0.246)	265179	58.8627	58.9
2 Chloromethane	50	1.079	1.082	(0.268)	193728	45.6301	45.6
3 Vinyl Chloride	62	1.115	1.113	(0.277)	190518	54.4022	54.4
4 Bromomethane	94	1.239	1.243	(0.308)	101262	51.8760	51.9
5 Chloroethane	64	1.110	1.108	(0.275)	58988	50.8004	50.8
6 Trichlorofluoromethane	101	1.394	1.393	(0.346)	239897	51.2059	51.2
28 1,2-dichlorotrifluoroethane	67	1.508	1.511	(0.374)	177577	49.6494	49.6
7 Diethyl ether	74	1.518	1.517	(0.377)	67530	50.3479	50.3
17 tert-Butyl Alcohol	59	1.937	1.940	(0.481)	40705	135.568	136 (M)
8 Acrolein	56	1.580	1.579	(0.392)	667830	1614.50	1610
10 1,1,2trichlorotrifluoroethane	101	1.627	1.625	(0.404)	144107	48.7149	48.7
9 1,1-Dichloroethene	96	1.632	1.630	(0.405)	144786	56.7332	56.7
11 Acetone	43	1.653	1.656	(0.410)	229202	351.176	351
12 Iodomethane	142	1.720	1.718	(0.427)	240821	75.3916	75.4
13 Carbon Disulfide	76	1.756	1.760	(0.436)	747282	133.867	134
14 allyl chloride	41	1.808	1.811	(0.449)	350641	98.9064	98.9
145 Acetonitrile	41	1.808	1.811	(0.449)	350641	989.064	989
138 Methyl Acetate	43	1.653	1.656	(0.410)	229202	70.2352	70.2
15 Methylene Chloride	84	1.875	1.878	(0.465)	140847	55.3140	55.3
16 Acrylonitrile	53	2.009	2.013	(0.499)	1247324	1398.84	1400 (R)
19 Methyl-tert-butyl ether	73	2.035	2.039	(0.505)	759181	102.434	102
18 1,2-Dichloroethene (trans)	96	2.035	2.039	(0.505)	140304	54.6436	54.6
20 n-Hexane	57	2.206	2.209	(0.547)	176103	50.7956	50.8

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.309	2.313 {0.573}		258631	50.3769	50.4
23 Vinyl Acetate	43	2.335	2.338 {0.579}		1105890	192.319	192
140 Ethyl acetate	88	2.376	2.380 {0.590}		128681	521.849	522 (Q)
147 Chloroprene	53	2.376	2.375 {0.590}		229782	51.1266	51.1
24 2,2-Dichloropropane	77	2.759	2.762 {0.685}		214337	48.3024	48.3
25 1,2-Dichloroethene (cis)	96	2.753	2.762 {0.683}		176073	51.3278	51.3
26 2-Butanone	43	2.774	2.773 {0.688}		477264	338.856	339
27 Propionitrile	54	2.826	2.829 {0.701}		28096	57.1556	57.2 (Q)
29 Bromochloromethane	49	2.971	2.974 {0.737}		157561	71.8335	71.8
146 Methacrylonitrile	41	2.960	2.969 {0.735}		169479	451.015	451
31 Chloroform	83	3.053	3.057 {0.758}		258576	50.5983	50.6
\$ 32 Dibromofluoromethane (S)	113	3.213	3.222 {0.797}		151550	51.7839	51.8
33 1,1,1-Trichloroethane	97	3.244	3.248 {0.805}		239836	51.8104	51.8
30 Tetrahydrofuran	42	3.033	3.041 {0.753}		74094	71.9814	72.0
34 cyclohexane	56	3.301	3.305 {0.819}		239396	46.9486	46.9
37 Isobutyl alcohol	43	2.774	2.773 {0.688}		477264	66.3029	66.3
35 Carbon Tetrachloride	117	3.425	3.429 {0.850}		215704	52.8993	52.9
36 1,1-Dichloropropene	75	3.425	3.429 {0.850}		194094	52.2063	52.2
38 Benzene	78	3.663	3.672 {0.909}		522576	49.4838	49.5
141 isopropyl acetate	61	3.803	3.830 {0.944}		385476		(Q)
39 1,2-Dichloroethane	62	3.689	3.693 {0.915}		205357	54.9812	55.0
* 40 Fluorobenzene	96	4.030	4.039 {1.000}		466059	50.0000	
41 Trichloroethene	95	4.495	4.504 {1.115}		150701	51.4827	51.5
139 Methylcyclohexane	55	4.717	4.726 {1.171}		167779	45.6685	45.7
42 1,2-Dichloropropane	63	4.759	4.768 {1.181}		147358	54.4314	54.4
43 Dibromomethane	93	4.888	4.897 {1.213}		107545	56.3082	56.3
44 Methyl methacrylate	69	4.955	4.964 {1.230}		481830	236.453	236
143 2,2,4-Trimethylpentane	57	3.787	3.796 {0.940}		312173	45.3535	45.4
144 1,4-Dioxane	88	4.960	4.969 {1.231}		46267	993.043	993 (Q)
45 Bromodichloromethane	83	5.100	5.104 {1.265}		210587	55.0797	55.1
46 2-Chloroethyl vinyl ether	63	5.482	5.491 {0.749}		90161	42.2322	42.2
47 cis-1,3-Dichloropropene	75	5.617	5.626 {0.768}		240809	56.0327	56.0
48 4-Methyl-2-Pentanone	43	5.813	5.822 {0.794}		935572	347.148	347 (R)
\$ 49 Toluene-d8	98	5.901	5.910 {0.806}		398703	48.9491	48.9
50 Toluene	91	5.979	5.982 {0.817}		525514	47.8935	47.9
51 trans-1,3-Dichloropropene	75	6.237	6.246 {0.852}		227877	53.3903	53.4
52 Ethyl Methacrylate	69	6.382	6.385 {0.872}		849152	217.137	217
53 1,1,2-Trichloroethane	83	6.423	6.432 {0.878}		110775	56.8164	56.8
54 Tetrachloroethene	166	6.552	6.561 {0.895}		144097	45.7709	45.8
55 1,3-Dichloropropane	76	6.588	6.592 {0.900}		244796	53.7029	53.7
56 2-Hexanone	43	6.707	6.711 {0.917}		693324	313.589	314
57 Dibromochloromethane	129	6.800	6.809 {0.929}		180503	58.2476	58.2
58 1,2-Dibromoethane	107	6.888	6.897 {0.941}		165591	54.3607	54.4
* 59 Chlorobenzene-d5	117	7.317	7.326 {1.000}		349568	50.0000	
60 Chlorobenzene	112	7.343	7.347 {1.004}		359000	48.2211	48.2
61 1,1,1,2-Tetrachloroethane	131	7.421	7.424 {1.014}		147677	52.9491	52.9
62 Ethylbenzene	106	7.446	7.455 {1.018}		181851	47.0977	47.1
63 m&p-Xylene	106	7.550	7.553 {1.032}		459952	101.313	101
65 o-Xylene	106	7.860	7.869 {1.074}		236380	50.6138	50.6
66 Styrene	104	7.875	7.879 {1.076}		398813	50.9707	51.0
67 Bromoform	173	8.005	8.013 {0.883}		115641	53.5400	53.5
68 Isopropylbenzene	105	8.149	8.153 {1.114}		539772	46.8298	46.8
69 trans-1,4-Dichloro-2-butene	53	8.413	8.422 {1.150}		233668	212.083	212 (Q)
142 n-amyl acetate	70	8.258	8.256 {1.129}		1209		(Q)

						CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 70 4-Bromofluorobenzene	95	8.258	8.261	(1.129)	166882	51.6123	51.6	
71 Bromobenzene	77	8.356	8.365	(1.142)	234393	55.2935	55.3	
72 1,1,2,2-Tetrachloroethane	83	8.377	8.380	(0.924)	193839	58.2865	58.3	
73 1,2,3-Trichloropropane	75	8.413	8.401	(0.928)	430669	122.137	122	
74 n-Propylbenzene	91	8.449	8.458	(0.932)	586315	53.4248	53.4	
75 2-Chlorotoluene	91	8.506	8.510	(0.938)	391997	54.2865	54.3	
77 1,3,5-Trimethylbenzene	105	8.578	8.582	(0.946)	409275	48.1072	48.1	
76 4-Chlorotoluene	126	8.584	8.587	(0.947)	137014	46.2074	46.2	
78 tert-Butylbenzene	119	8.801	8.804	(0.971)	412255	40.6538	40.6	
79 1,2,4-Trimethylbenzene	105	8.837	8.840	(0.975)	420888	54.4175	54.4	
80 sec-Butylbenzene	105	8.950	8.954	(0.987)	490345	50.6411	50.6	
81 1,3-Dichlorobenzene	146	9.018	9.026	(0.995)	261378	51.2015	51.2	
83 p-Isopropyltoluene	119	9.049	9.052	(0.998)	407023	49.0207	49.0	
* 82 1,4-Dichlorobenzene-d4	152	9.064	9.068	(1.000)	154631	50.0000		
84 1,4-Dichlorobenzene	146	9.080	9.083	(1.002)	264377	50.4452	50.4	
86 n-Butylbenzene	91	9.317	9.321	(1.028)	335917	53.4428	53.4	
85 1,2-Dichlorobenzene	146	9.323	9.331	(1.029)	254259	50.5640	50.6	
87 1,2-Dibromo-3-chloropropane	155	9.819	9.822	(1.083)	34267	58.9608	59.0	
88 1,2,4-Trichlorobenzene	180	10.330	10.334	(1.140)	135147	51.3740	51.4	
89 Hexachlorobutadiene	225	10.429	10.432	(1.151)	38177	49.7176	49.7	
90 Naphthalene	128	10.475	10.484	(1.156)	402419	58.8032	58.8	
91 1,2,3-Trichlorobenzene	180	10.620	10.629	(1.172)	120103	55.1738	55.2	
92 2-methyl-naphthalene	142	11.152	11.156	(1.230)	132761	68.4965	68.5	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A02LCS.D
Lab Smp Id: 437657
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	466059	2.04
59 Chlorobenzene-d5	337893	168947	675786	349568	3.46
82 1,4-Dichlorobenze	147661	73831	295322	154631	4.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.03	-0.22
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.12
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.06	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: 437657 Client Smp ID: lcs
 Level: LOW Operator: jlf
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 8260LCS.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	58.9	117.73	30-170
2 Chloromethane	50.0	45.6	91.26	35-147
3 Vinyl Chloride	50.0	54.4	108.80	55-141
4 Bromomethane	50.0	51.9	103.75	30-170
5 Chloroethane	50.0	50.8	101.60	56-153
6 Trichlorofluoromet	50.0	51.2	102.41	62-150
7 Diethyl ether	50.0	50.3	100.70	70-130
8 Acrolein	1000	1610	161.45	30-170
9 1,1-Dichloroethene	50.0	56.7	113.47	63-128
10 1,1,2trichlorotrif	50.0	48.7	97.43	74-153
11 Acetone	250	351	140.47	30-170
12 Iodomethane	100	75.4	75.39	41-170
13 Carbon Disulfide	100	134	133.87	58-152
14 allyl chloride	100	98.9	98.91	70-130
15 Methylene Chloride	50.0	55.3	110.63	32-164
16 Acrylonitrile	1000	1400	139.88*	67-136
17 tert-Butyl Alcohol	100	136	135.57	50-150
18 1,2-Dichloroethene	50.0	54.6	109.29	71-126
19 Methyl-tert-butyl	100	102	102.43	66-147
20 n-Hexane	50.0	50.8	101.59	69-157
21 1,1-Dichloroethane	50.0	50.4	100.75	67-133
23 Vinyl Acetate	200	192	96.16	41-145
24 2,2-Dichloropropan	50.0	48.3	96.60	53-144
25 1,2-Dichloroethene	50.0	51.3	102.66	74-128
26 2-Butanone	250	339	135.54	47-189
28 1,2-dichlorotriflu	50.0	49.6	99.30	54-162
29 Bromochloromethane	50.0	71.8	143.67	54-162
31 Chloroform	50.0	50.6	101.20	74-131
33 1,1,1-Trichloroeth	50.0	51.8	103.62	69-136
35 Carbon Tetrachlori	50.0	52.9	105.80	62-143
36 1,1-Dichloropropen	50.0	52.2	104.41	75-134
37 Isobutyl alcohol	50.0	66.3	132.61	50-150
38 Benzene	50.0	49.5	98.97	78-127
39 1,2-Dichloroethane	50.0	55.0	109.96	69-139
41 Trichloroethene	50.0	51.5	102.97	74-130
42 1,2-Dichloropropan	50.0	54.4	108.86	76-129
43 Dibromomethane	50.0	56.3	112.62	73-133
44 Methyl methacrylat	200	236	118.23	70-130
45 Bromodichlorometha	50.0	55.1	110.16	69-133
47 cis-1,3-Dichloropr	50.0	56.0	112.07	54-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
48 4-Methyl-2-Pentano	250	347	138.86*	61-135
50 Toluene	50.0	47.9	95.79	75-129
51 trans-1,3-Dichloro	50.0	53.4	106.78	54-123
52 Ethyl Methacrylate	200	217	108.57	59-138
53 1,1,2-Trichloroeth	50.0	56.8	113.63	77-132
54 Tetrachloroethene	50.0	45.8	91.54	60-119
55 1,3-Dichloropropan	50.0	53.7	107.41	74-126
56 2-Hexanone	250	314	125.44	57-167
57 Dibromochlorometha	50.0	58.2	116.50	66-131
58 1,2-Dibromoethane	50.0	54.4	108.72	75-126
60 Chlorobenzene	50.0	48.2	96.44	75-123
61 1,1,1,2-Tetrachlor	50.0	52.9	105.90	69-130
62 Ethylbenzene	50.0	47.1	94.20	81-126
63 m&p-Xylene	100	101	101.31	71-131
65 o-Xylene	50.0	50.6	101.23	72-127
66 Styrene	50.0	51.0	101.94	74-128
67 Bromoform	50.0	53.5	107.08	60-127
68 Isopropylbenzene	50.0	46.8	93.66	80-130
69 trans-1,4-Dichloro	200	212	106.04	50-150
71 Bromobenzene	50.0	55.3	110.59	62-139
72 1,1,2,2-Tetrachlor	50.0	58.3	116.57	69-130
73 1,2,3-Trichloropro	100	122	122.14	60-131
74 n-Propylbenzene	50.0	53.4	106.85	71-132
75 2-Chlorotoluene	50.0	54.3	108.57	72-128
76 4-Chlorotoluene	50.0	46.2	92.41	73-124
77 1,3,5-Trimethylben	50.0	48.1	96.21	74-130
78 tert-Butylbenzene	50.0	40.6	81.31	63-117
79 1,2,4-Trimethylben	50.0	54.4	108.84	73-130
80 sec-Butylbenzene	50.0	50.6	101.28	73-130
81 1,3-Dichlorobenzen	50.0	51.2	102.40	76-125
83 p-Isopropyltoluene	50.0	49.0	98.04	66-131
84 1,4-Dichlorobenzen	50.0	50.4	100.89	75-122
85 1,2-Dichlorobenzen	50.0	50.6	101.13	76-124
86 n-Butylbenzene	50.0	53.4	106.89	68-135
87 1,2-Dibromo-3-chlo	50.0	59.0	117.92	61-125
88 1,2,4-Trichloroben	50.0	51.4	102.75	60-130
89 Hexachlorobutadien	50.0	49.7	99.44	70-130
90 Naphthalene	50.0	58.8	117.61	61-135
91 1,2,3-Trichloroben	50.0	55.2	110.35	58-131
138 Methyl Acetate	50.0	70.2	140.47	30-170
34 cyclohexane	50.0	46.9	93.90	63-134
139 Methylcyclohexane	50.0	45.7	91.34	65-135

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.8	103.57	82-122
\$ 49 Toluene-d8	50.0	48.9	97.90	80-120
\$ 70 4-Bromofluorobenze	50.0	51.6	103.22	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437657
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: lcs
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	58.9	
74-87-3	Chloromethane	45.6	
75-01-4	Vinyl Chloride	54.4	
74-83-9	Bromomethane	51.9	
75-00-3	Chloroethane	50.8	
75-69-4	Trichlorofluoromethane	51.2	
354-23-4	1,2-dichlorotrifluoroethane	49.6	
60-29-7	Diethyl ether	50.3	
75-65-0	tert-Butyl Alcohol	136	
107-02-8	Acrolein	1610	
76-13-1	1,1,2trichlorotrifluoroethan	48.7	
75-35-4	1,1-Dichloroethene	56.7	
67-64-1	Acetone	351	
	Iodomethane	75.4	
75-15-0	Carbon Disulfide	134	
107-05-1	allyl chloride	98.9	
75-05-8	Acetonitrile	989	
79-20-9	Methyl Acetate	70.2	
75-09-2	Methylene Chloride	55.3	
107-13-1	Acrylonitrile	1400	
1634-04-4	Methyl-tert-butyl ether	102	
156-60-5	1,2-Dichloroethene (trans)	54.6	
	n-Hexane	50.8	
75-34-3	1,1-Dichloroethane	50.4	
108-05-4	Vinyl Acetate	192	
141-78-6	Ethyl acetate	522	
126-99-8	Chloroprene	51.1	
594-20-7	2,2-Dichloropropane	48.3	
156-59-2	1,2-Dichloroethene (cis)	51.3	
78-93-3	2-Butanone	339	
107-12-0	Propionitrile	57.2	
74-97-5	Bromochloromethane	71.8	
126-98-7	Methacrylonitrile	451	
67-66-3	Chloroform	50.6	
71-55-6	1,1,1-Trichloroethane	51.8	
	Tetrahydrofuran	72.0	
110-82-7	cyclohexane	46.9	
78-83-1	Isobutyl alcohol	66.3	
56-23-5	Carbon Tetrachloride	52.9	
563-58-6	1,1-Dichloropropene	52.2	
71-43-2	Benzene	49.5	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437657
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: lcs
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	55.0	
79-01-6	Trichloroethene	51.5	
108-87-2	Methylcyclohexane	45.7	
78-87-5	1,2-Dichloropropane	54.4	
74-95-3	Dibromomethane	56.3	
80-62-6	Methyl methacrylate	236	
540-84-1	2,2,4-Trimethylpentane	45.4	
	1,4-Dioxane	993	
75-27-4	Bromodichloromethane	55.1	
110-75-8	2-Chloroethyl vinyl ether	42.2	
10061-01-5	cis-1,3-Dichloropropene	56.0	
108-10-1	4-Methyl-2-Pentanone	347	
108-88-3	Toluene	47.9	
10061-02-6	trans-1,3-Dichloropropene	53.4	
	Ethyl Methacrylate	217	
79-00-5	1,1,2-Trichloroethane	56.8	
127-18-4	Tetrachloroethene	45.8	
142-28-9	1,3-Dichloropropane	53.7	
591-78-6	2-Hexanone	314	
124-48-1	Dibromochloromethane	58.2	
106-93-4	1,2-Dibromoethane	54.4	
108-90-7	Chlorobenzene	48.2	
630-20-6	1,1,1,2-Tetrachloroethane	52.9	
100-41-4	Ethylbenzene	47.1	
7816-60-0	m&p-Xylene	101	
95-47-6	o-Xylene	50.6	
100-42-5	Styrene	51.0	
75-25-2	Bromoform	53.5	
98-82-8	Isopropylbenzene	46.8	
	trans-1,4-Dichloro-2-butene	212	
628-63-7	n-amyl acetate	0.000	
108-86-1	Bromobenzene	55.3	
79-34-5	1,1,2,2-Tetrachloroethane	58.3	
96-18-4	1,2,3-Trichloropropane	122	
103-65-1	n-Propylbenzene	53.4	
95-49-8	2-Chlorotoluene	54.3	
108-67-8	1,3,5-Trimethylbenzene	48.1	
106-43-4	4-Chlorotoluene	46.2	
98-06-6	tert-Butylbenzene	40.6	
95-63-6	1,2,4-Trimethylbenzene	54.4	
135-98-8	sec-Butylbenzene	50.6	
541-73-1	1,3-Dichlorobenzene	51.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 437657
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6-----	p-Isopropyltoluene	49.0	
106-46-7-----	1,4-Dichlorobenzene	50.4	
104-51-8-----	n-Butylbenzene	53.4	
95-50-1-----	1,2-Dichlorobenzene	50.6	
96-12-8-----	1,2-Dibromo-3-chloropropane	59.0	
120-82-1-----	1,2,4-Trichlorobenzene	51.4	
87-68-3-----	Hexachlorobutadiene	49.7	
91-20-3-----	Naphthalene	58.8	
87-61-6-----	1,2,3-Trichlorobenzene	55.2	
-----	2,methyl-naphthalene	68.5	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.8	
2037-26-5-----	Toluene-d8	48.9	
460-00-4-----	4-Bromofluorobenzene	51.6	

Date: 26-MAY-2010 12:17

Client ID: Ios

Sample Info: Ios 34B-009

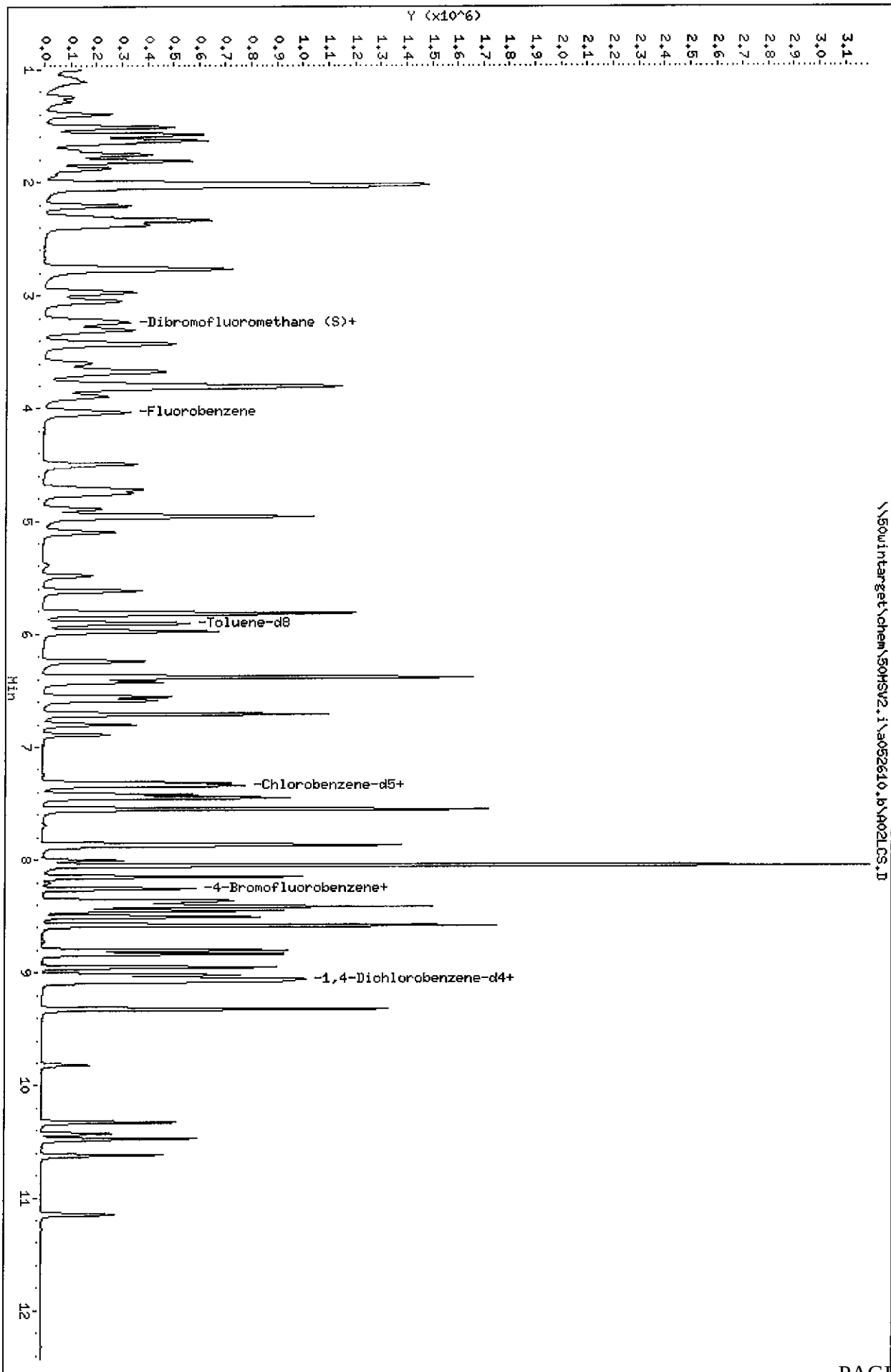
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A10.D
 Lab Smp Id: 437658 Client Smp ID: ms5037756016
 Inj Date : 26-MAY-2010 16:53
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : ms5037756016
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-cl.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 21 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
1 Dichlorodifluoromethane	85	50.9616	51.0	0.994	0.995	(0.247)	227604
2 Chloromethane	50	42.9905	43.0	1.087	1.082	(0.270)	180947
3 Vinyl Chloride	62	51.8982	51.9	1.118	1.113	(0.277)	180181
4 Bromomethane	94	48.5784	48.6	1.247	1.243	(0.309)	94242
5 Chloroethane	64	49.2093	49.2	1.113	1.108	(0.276)	56669
6 Trichlorofluoromethane	101	49.4782	49.5	1.397	1.393	(0.347)	229803
28 1,2-dichlorotrifluoroethane	67	48.4817	48.5	1.511	1.511	(0.375)	171905
7 Diethyl ether	74	46.6647	46.7	1.516	1.517	(0.376)	62050
17 tert-Butyl Alcohol	59	124.529	124	1.940	1.940	(0.481)	37068
8 Acrolein	56	1360.71	1360	1.578	1.579	(0.391)	557995
10 1,1,2trichlorotrifluoroethane	101	46.0364	46.0	1.630	1.625	(0.404)	135009
9 1,1-Dichloroethene	96	55.2727	55.3	1.635	1.630	(0.405)	139842
11 Acetone	43	288.992	289	1.656	1.656	(0.411)	190380
12 Iodomethane	142	55.0078	55.0	1.723	1.718	(0.427)	169580
13 Carbon Disulfide	76	134.254	134	1.759	1.760	(0.436)	742867
14 allyl chloride	41	86.4155	86.4 (QM)	1.811	1.811	(0.449)	307040
145 Acetonitrile	41	933.366	933	1.811	1.811	(0.449)	329523
138 Methyl Acetate	43	57.7984	57.8	1.656	1.656	(0.411)	190380
15 Methylene Chloride	84	51.4641	51.5	1.878	1.878	(0.466)	130643
16 Acrylonitrile	53	1287.48	1290	2.012	2.013	(0.499)	1148056
19 Methyl-tert-butyl ether	73	94.9720	95.0	2.038	2.039	(0.505)	697805
18 1,2-Dichloroethene (trans)	96	64.7942	64.8	2.038	2.039	(0.505)	165025
20 n-Hexane	57	51.6274	51.6	2.209	2.209	(0.548)	177443

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.307	2.313	{0.572}	246737	48.4783	48.5
23 Vinyl Acetate	43	2.338	2.338	{0.580}	947032	161.776	162
140 Ethyl acetate	88	2.374	2.380	{0.589}	124949	511.123	511(Q)
147 Chloroprene	53	2.379	2.375	{0.590}	230531	51.7395	51.7
24 2,2-Dichloropropane	77	2.762	2.762	{0.685}	206664	46.9784	47.0
25 1,2-Dichloroethene (cis)	96	2.762	2.762	{0.685}	320263	94.1735	94.2(R)
26 2-Butanone	43	2.772	2.773	{0.687}	416645	294.519	294
27 Propionitrile	54	2.829	2.829	{0.701}	25123	51.5523	51.6(Q)
29 Bromochloromethane	49	2.974	2.974	{0.737}	147944	67.6309	67.6
146 Methacrylonitrile	41	2.969	2.969	{0.736}	145571	388.294	388
31 Chloroform	83	3.056	3.057	{0.758}	246890	48.7319	48.7
\$ 32 Dibromofluoromethane (S)	113	3.222	3.222	{0.799}	144978	49.9693	50.0
33 1,1,1-Trichloroethane	97	3.248	3.248	{0.805}	234020	50.9938	51.0
30 Tetrahydrofuran	42	3.036	3.041	{0.753}	58032	53.7375	53.7
34 cyclohexane	56	3.310	3.305	{0.821}	233637	46.2179	46.2
37 Isobutyl alcohol	43	2.772	2.773	{0.687}	416645	57.3424	57.3
35 Carbon Tetrachloride	117	3.429	3.429	{0.850}	206102	50.9842	51.0
36 1,1-Dichloropropene	75	3.429	3.429	{0.850}	190850	51.7803	51.8
38 Benzene	78	3.666	3.672	{0.909}	500459	47.8018	47.8
141 isopropyl acetate	61	3.806	3.830	{0.944}	345661		(Q)
39 1,2-Dichloroethane	62	3.692	3.693	{0.915}	191992	51.8501	51.8
* 40 Fluorobenzene	96	4.033	4.039	{1.000}	462039	50.0000	
41 Trichloroethene	95	4.498	4.504	{1.115}	848870	292.515	292(R)
139 Methylcyclohexane	55	4.726	4.726	{1.172}	157955	43.3685	43.4
42 1,2-Dichloropropane	63	4.762	4.768	{1.181}	135023	50.3091	50.3
43 Dibromomethane	93	4.896	4.897	{1.214}	97931	51.5940	51.6
44 Methyl methacrylate	69	4.958	4.964	{1.229}	436606	215.936	216
143 2,2,4-Trimethylpentane	57	3.790	3.796	{0.940}	286859	41.9141	41.9
144 1,4-Dioxane	88	4.958	4.969	{1.229}	43271	939.108	939(Q)
45 Bromodichloromethane	83	5.098	5.104	{1.264}	196291	51.7872	51.8
47 cis-1,3-Dichloropropene	75	5.620	5.626	{0.768}	226898	53.3756	53.4
48 4-Methyl-2-Pentanone	43	5.816	5.822	{0.795}	865766	323.566	324
\$ 49 Toluene-d8	98	5.904	5.910	{0.807}	402112	50.0657	50.1
50 Toluene	91	5.977	5.982	{0.816}	499505	46.1668	46.2
51 trans-1,3-Dichloropropene	75	6.240	6.246	{0.852}	208522	49.5464	49.5
52 Ethyl Methacrylate	69	6.385	6.385	{0.872}	786336	203.918	204
53 1,1,2-Trichloroethane	83	6.426	6.432	{0.878}	103669	53.7564	53.8
54 Tetrachloroethene	166	6.555	6.561	{0.896}	138379	44.5761	44.6
55 1,3-Dichloropropane	76	6.586	6.592	{0.900}	224605	49.9702	50.0
56 2-Hexanone	43	6.710	6.711	{0.917}	627911	288.018	288
57 Dibromochloromethane	129	6.804	6.809	{0.929}	162770	53.2679	53.3
58 1,2-Dibromoethane	107	6.891	6.897	{0.941}	150961	50.2587	50.2
* 59 Chlorobenzene-d5	117	7.320	7.326	{1.000}	344694	50.0000	
60 Chlorobenzene	112	7.346	7.347	{1.004}	334253	45.5319	45.5
61 1,1,1,2-Tetrachloroethane	131	7.424	7.424	{1.014}	136907	49.7817	49.8
62 Ethylbenzene	106	7.450	7.455	{1.018}	172928	45.4200	45.4
63 m&p-Xylene	106	7.553	7.553	{1.032}	430699	96.1228	96.1
65 o-Xylene	106	7.863	7.869	{1.074}	220340	47.8464	47.8
66 Styrene	104	7.879	7.879	{1.076}	367123	47.5840	47.6
67 Bromoform	173	8.008	8.013	{0.883}	103751	48.1857	48.2
68 Isopropylbenzene	105	8.152	8.153	{1.114}	509038	44.7879	44.8
69 trans-1,4-Dichloro-2-butene	53	8.416	8.422	{1.150}	209986	193.283	193(Q)
142 n-amyl acetate	70	8.261	8.256	{1.128}	1345		(Q)
\$ 70 4-Bromofluorobenzene	95	8.261	8.261	{1.128}	165585	51.9353	51.9

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
71 Bromobenzene	77	8.359	8.365	(1.142)	214922	51.0489	51.0
72 1,1,2,2-Tetrachloroethane	83	8.375	8.380	(0.924)	178940	53.9271	53.9
73 1,2,3-Trichloropropane	75	8.416	8.401	(0.928)	398012	112.757	113
74 n-Propylbenzene	91	8.452	8.458	(0.932)	556093	50.5355	50.5
75 2-Chlorotoluene	91	8.504	8.510	(0.938)	363542	50.1601	50.2
77 1,3,5-Trimethylbenzene	105	8.581	8.582	(0.946)	377571	44.4802	44.5
76 4-Chlorotoluene	126	8.587	8.587	(0.947)	124178	41.9724	42.0
78 tert-Butylbenzene	119	8.804	8.804	(0.971)	336318	33.2398	33.2
79 1,2,4-Trimethylbenzene	105	8.835	8.840	(0.974)	387614	49.9462	49.9
80 sec-Butylbenzene	105	8.954	8.954	(0.987)	467336	48.2265	48.2
81 1,3-Dichlorobenzene	146	9.021	9.026	(0.995)	239086	46.8595	46.8
83 p-Isopropyltoluene	119	9.052	9.052	(0.998)	379732	45.7170	45.7
* 82 1,4-Dichlorobenzene-d4	152	9.067	9.068	(1.000)	154285	50.0000	
84 1,4-Dichlorobenzene	146	9.083	9.083	(1.002)	236586	45.1573	45.2
86 n-Butylbenzene	91	9.315	9.321	(1.027)	319473	50.7233	50.7
85 1,2-Dichlorobenzene	146	9.326	9.331	(1.029)	226446	45.1338	45.1
87 1,2-Dibromo-3-chloropropane	155	9.822	9.822	(1.083)	29717	51.3062	51.3
88 1,2,4-Trichlorobenzene	180	10.328	10.334	(1.139)	121722	46.2917	46.3
89 Hexachlorobutadiene	225	10.432	10.432	(1.150)	35129	45.8484	45.8
90 Naphthalene	128	10.478	10.484	(1.156)	355627	52.0822	52.1
91 1,2,3-Trichlorobenzene	180	10.623	10.629	(1.172)	106106	48.8498	48.8
92 2-methyl-naphthalene	142	11.150	11.156	(1.230)	97959	51.9613	52.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A10.D
 Lab Smp Id: 437658
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A10.D
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: ms5037756016
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	462039	1.16
59 Chlorobenzene-d5	337893	168947	675786	344694	2.01
82 1,4-Dichlorobenze	147661	73831	295322	154285	4.49

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.03	-0.14
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.08
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: 437658 Client Smp ID: ms5037756016
 Level: LOW Operator: jlf
 Data Type: MS DATA SampleType: MS
 SpikeList File: 8260MS.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	51.0	101.92	30-163
2 Chloromethane	50.0	43.0	85.98	36-136
3 Vinyl Chloride	50.0	51.9	103.80	51-144
4 Bromomethane	50.0	48.6	97.16	30-170
5 Chloroethane	50.0	49.2	98.42	54-157
6 Trichlorofluoromet	50.0	49.5	98.96	53-162
28 1,2-dichlorotriflu	50.0	48.5	96.96	50-150
7 Diethyl ether	50.0	46.7	93.33	70-130
8 Acrolein	1000	1360	136.07	30-170
9 1,1-Dichloroethene	50.0	55.3	110.55	55-140
10 1,1,2trichlorotrif	50.0	46.0	92.07	50-150
11 Acetone	250	289	115.60	30-170
12 Iodomethane	100	55.0	55.01	28-168
13 Carbon Disulfide	100	134	134.25	46-162
138 Methyl Acetate	50.0	57.8	115.60	40-182
14 allyl chloride	100	86.4	86.42	39-155
15 Methylene Chloride	50.0	51.5	102.93	46-154
16 Acrylonitrile	1000	1290	128.75	66-137
27 Propionitrile	50.0	51.6	103.10	50-150
17 tert-Butyl Alcohol	100	124	124.53	50-150
18 1,2-Dichloroethene	50.0	64.8	129.59	60-137
19 Methyl-tert-butyl	100	95.0	94.97	52-156
20 n-Hexane	50.0	51.6	103.25	32-176
21 1,1-Dichloroethane	50.0	48.5	96.96	68-139
23 Vinyl Acetate	200	162	80.89	24-132
25 1,2-Dichloroethene	50.0	94.2	188.35*	65-132
24 2,2-Dichloropropan	50.0	47.0	93.96	35-157
26 2-Butanone	250	294	117.81	62-132
29 Bromochloromethane	50.0	67.6	135.26	65-157
30 Tetrahydrofuran	50.0	53.7	107.47	50-150
31 Chloroform	50.0	48.7	97.46	67-134
33 1,1,1-Trichloroeth	50.0	51.0	101.99	64-143
34 cyclohexane	50.0	46.2	92.44	39-167
37 Isobutyl alcohol	50.0	57.3	114.68	50-150
36 1,1-Dichloropropen	50.0	51.8	103.56	66-140
35 Carbon Tetrachlori	50.0	51.0	101.97	54-145
38 Benzene	50.0	47.8	95.60	63-141
39 1,2-Dichloroethane	50.0	51.8	103.70	63-148
41 Trichloroethene	50.0	292	585.03*	61-137
139 Methylcyclohexane	50.0	43.4	86.74	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	50.3	100.62	70-136
43 Dibromomethane	50.0	51.6	103.19	67-144
44 Methyl methacrylat	200	216	107.97	50-150
45 Bromodichlorometha	50.0	51.8	103.57	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	53.4	106.75	46-121
48 4-Methyl-2-Pentano	250	324	129.43	57-135
50 Toluene	50.0	46.2	92.33	59-142
51 trans-1,3-Dichloro	50.0	49.5	99.09	43-117
52 Ethyl Methacrylate	200	204	101.96	52-140
53 1,1,2-Trichloroeth	50.0	53.8	107.51	71-143
54 Tetrachloroethene	50.0	44.6	89.15	25-146
55 1,3-Dichloropropan	50.0	50.0	99.94	65-133
56 2-Hexanone	250	288	115.21	61-141
57 Dibromochlorometha	50.0	53.3	106.54	64-124
58 1,2-Dibromoethane	50.0	50.2	100.52	67-134
60 Chlorobenzene	50.0	45.5	91.06	56-133
61 1,1,1,2-Tetrachlor	50.0	49.8	99.56	55-131
62 Ethylbenzene	50.0	45.4	90.84	44-151
63 m&p-Xylene	100	96.1	96.12	41-153
65 o-Xylene	50.0	47.8	95.69	52-139
66 Styrene	50.0	47.6	95.17	38-141
67 Bromoform	50.0	48.2	96.37	58-124
68 Isopropylbenzene	50.0	44.8	89.58	40-148
69 trans-1,4-Dichloro	200	193	96.64	44-139
72 1,1,2,2-Tetrachlor	50.0	53.9	107.85	64-142
71 Bromobenzene	50.0	51.0	102.10	57-128
73 1,2,3-Trichloropro	100	113	112.76	33-140
74 n-Propylbenzene	50.0	50.5	101.07	40-148
75 2-Chlorotoluene	50.0	50.2	100.32	44-143
76 4-Chlorotoluene	50.0	42.0	83.94	43-140
77 1,3,5-Trimethylben	50.0	44.5	88.96	39-145
78 tert-Butylbenzene	50.0	33.2	66.48	32-133
79 1,2,4-Trimethylben	50.0	49.9	99.89	39-146
80 sec-Butylbenzene	50.0	48.2	96.45	38-150
81 1,3-Dichlorobenzen	50.0	46.8	93.72	40-143
83 p-Isopropyltoluene	50.0	45.7	91.43	34-146
84 1,4-Dichlorobenzen	50.0	45.2	90.31	38-142
86 n-Butylbenzene	50.0	50.7	101.45	27-153
85 1,2-Dichlorobenzen	50.0	45.1	90.27	48-137
88 1,2,4-Trichloroben	50.0	46.3	92.58	39-146
91 1,2,3-Trichloroben	50.0	48.8	97.70	33-140
87 1,2-Dibromo-3-chlo	50.0	51.3	102.61	39-140
89 Hexachlorobutadien	50.0	45.8	91.70	30-145
90 Naphthalene	50.0	52.1	104.16	44-138
92 2,methyl-naphthale	50.0	52.0	103.92	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.0	99.94	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 49 Toluene-d8	50.0	50.1	100.13	80-120
\$ 70 4-Bromofluorobenze	50.0	51.9	103.87	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437658
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: ms5037756016
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	51.0	
74-87-3	Chloromethane	43.0	
75-01-4	Vinyl Chloride	51.9	
74-83-9	Bromomethane	48.6	
75-00-3	Chloroethane	49.2	
75-69-4	Trichlorofluoromethane	49.5	
354-23-4	1,2-dichlorotrifluoroethane	48.5	
60-29-7	Diethyl ether	46.7	
75-65-0	tert-Butyl Alcohol	124	
107-02-8	Acrolein	1360	
76-13-1	1,1,2trichlorotrifluoroethane	46.0	
75-35-4	1,1-Dichloroethene	55.3	
67-64-1	Acetone	289	
	Iodomethane	55.0	
75-15-0	Carbon Disulfide	134	
107-05-1	allyl chloride	86.4	
75-05-8	Acetonitrile	933	
79-20-9	Methyl Acetate	57.8	
75-09-2	Methylene Chloride	51.5	
107-13-1	Acrylonitrile	1290	
1634-04-4	Methyl-tert-butyl ether	95.0	
156-60-5	1,2-Dichloroethene (trans)	64.8	
	n-Hexane	51.6	
75-34-3	1,1-Dichloroethane	48.5	
108-05-4	Vinyl Acetate	162	
141-78-6	Ethyl acetate	511	
126-99-8	Chloroprene	51.7	
594-20-7	2,2-Dichloropropane	47.0	
156-59-2	1,2-Dichloroethene (cis)	94.2	
78-93-3	2-Butanone	294	
107-12-0	Propionitrile	51.6	
74-97-5	Bromochloromethane	67.6	
126-98-7	Methacrylonitrile	388	
67-66-3	Chloroform	48.7	
71-55-6	1,1,1-Trichloroethane	51.0	
	Tetrahydrofuran	53.7	
110-82-7	cyclohexane	46.2	
78-83-1	Isobutyl alcohol	57.3	
56-23-5	Carbon Tetrachloride	51.0	
563-58-6	1,1-Dichloropropene	51.8	
71-43-2	Benzene	47.8	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437658
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: ms5037756016
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	51.8	
79-01-6	Trichloroethene	292	
108-87-2	Methylcyclohexane	43.4	
78-87-5	1,2-Dichloropropane	50.3	
74-95-3	Dibromomethane	51.6	
80-62-6	Methyl methacrylate	216	
540-84-1	2,2,4-Trimethylpentane	41.9	
	1,4-Dioxane	939	
75-27-4	Bromodichloromethane	51.8	
10061-01-5	cis-1,3-Dichloropropene	53.4	
108-10-1	4-Methyl-2-Pentanone	324	
108-88-3	Toluene	46.2	
10061-02-6	trans-1,3-Dichloropropene	49.5	
	Ethyl Methacrylate	204	
79-00-5	1,1,2-Trichloroethane	53.8	
127-18-4	Tetrachloroethene	44.6	
142-28-9	1,3-Dichloropropane	50.0	
591-78-6	2-Hexanone	288	
124-48-1	Dibromochloromethane	53.3	
106-93-4	1,2-Dibromoethane	50.2	
108-90-7	Chlorobenzene	45.5	
630-20-6	1,1,1,2-Tetrachloroethane	49.8	
100-41-4	Ethylbenzene	45.4	
7816-60-0	m&p-Xylene	96.1	
95-47-6	o-Xylene	47.8	
100-42-5	Styrene	47.6	
75-25-2	Bromoform	48.2	
98-82-8	Isopropylbenzene	44.8	
	trans-1,4-Dichloro-2-butene	193	
628-63-7	n-amyl acetate	0.000	
108-86-1	Bromobenzene	51.0	
79-34-5	1,1,2,2-Tetrachloroethane	53.9	
96-18-4	1,2,3-Trichloropropane	113	
103-65-1	n-Propylbenzene	50.5	
95-49-8	2-Chlorotoluene	50.2	
108-67-8	1,3,5-Trimethylbenzene	44.5	
106-43-4	4-Chlorotoluene	42.0	
98-06-6	tert-Butylbenzene	33.2	
95-63-6	1,2,4-Trimethylbenzene	49.9	
135-98-8	sec-Butylbenzene	48.2	
541-73-1	1,3-Dichlorobenzene	46.8	
99-87-6	p-Isopropyltoluene	45.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

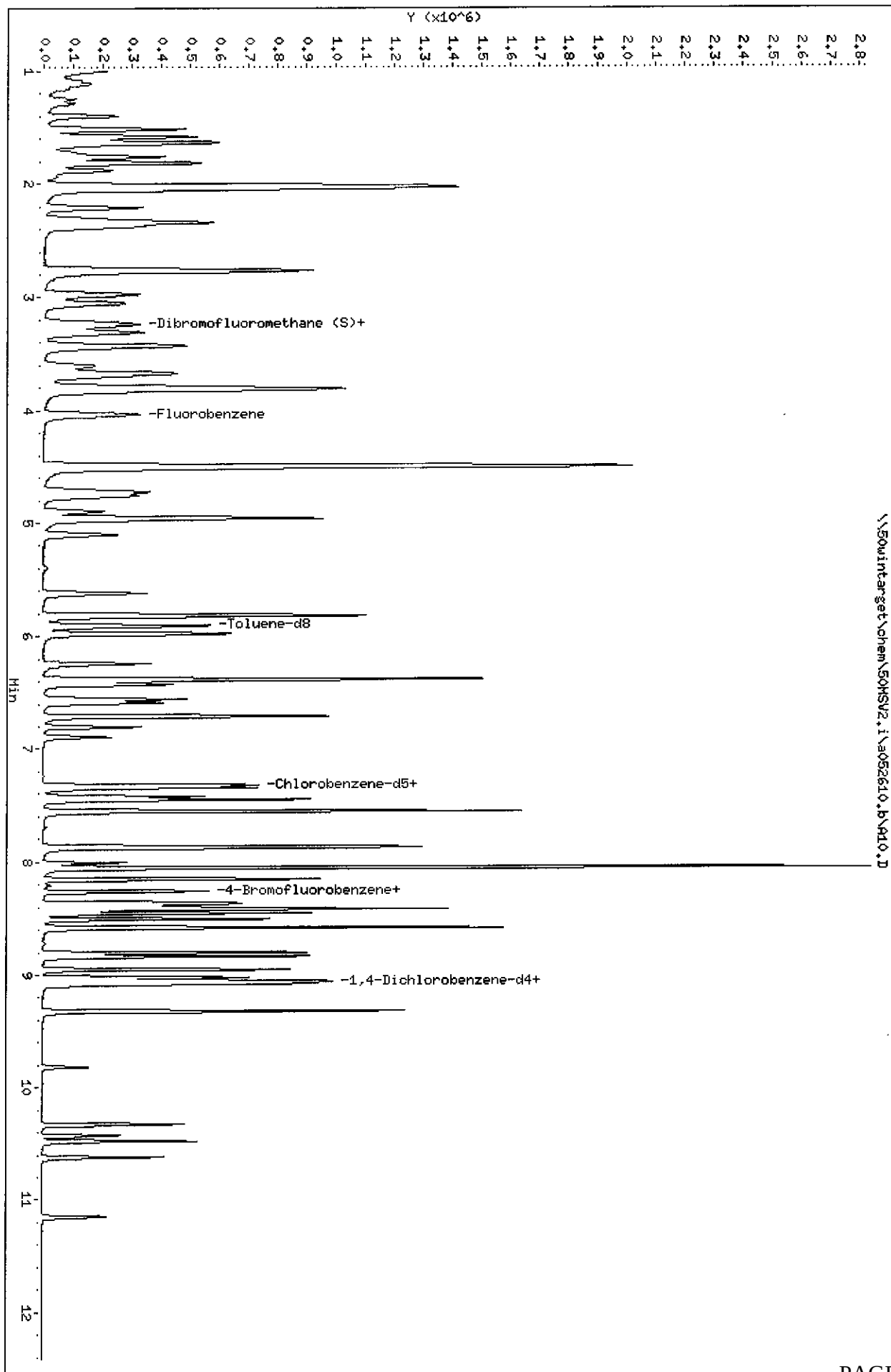
Client Name:
 Lab Smp Id: 437658
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: ms5037756016
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
106-46-7-----	1,4-Dichlorobenzene	45.2	
104-51-8-----	n-Butylbenzene	50.7	
95-50-1-----	1,2-Dichlorobenzene	45.1	
96-12-8-----	1,2-Dibromo-3-chloropropane	51.3	
120-82-1-----	1,2,4-Trichlorobenzene	46.3	
87-68-3-----	Hexachlorobutadiene	45.8	
91-20-3-----	Naphthalene	52.1	
87-61-6-----	1,2,3-Trichlorobenzene	48.8	
-----	2,methyl-naphthalene	52.0	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.0	
2037-26-5-----	Toluene-d8	50.1	
460-00-4-----	4-Bromofluorobenzene	51.9	

Data File: \\50wintarget\chem\50HSV2.1\9052610.b\A10.D
Date: 26-MAY-2010 16:53
Client ID: ms5037756016
Sample Info: ms5037756016
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50HSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A11.D
 Lab Smp Id: 437659 Client Smp ID: msd5037756016
 Inj Date : 26-MAY-2010 17:28
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : msd5037756016
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 23 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.998	0.995 (0.247)		234794	53.2374	53.2
2 Chloromethane	50	1.086	1.082 (0.269)		189122	45.5019	45.5
3 Vinyl Chloride	62	1.117	1.113 (0.277)		185772	54.1863	54.2
4 Bromomethane	94	1.251	1.243 (0.310)		107934	56.6575	56.6
5 Chloroethane	64	1.117	1.108 (0.277)		59684	52.5239	52.5
6 Trichlorofluoromethane	101	1.401	1.393 (0.347)		235528	51.3531	51.4
28 1,2-dichlorotrifluoroethane	67	1.510	1.511 (0.374)		176390	50.3767	50.4
7 Diethyl ether	74	1.520	1.517 (0.377)		63808	48.5946	48.6
17 tert-Butyl Alcohol	59	1.939	1.940 (0.480)		37230	126.657	127 (Q)
8 Acrolein	56	1.582	1.579 (0.392)		580268	1432.94	1430
10 1,1,2trichlorotrifluoroethane	101	1.629	1.625 (0.403)		143762	49.6420	49.6
9 1,1-Dichloroethene	96	1.634	1.630 (0.405)		144803	57.9584	58.0
11 Acetone	43	1.655	1.656 (0.410)		198555	307.033	307
12 Iodomethane	142	1.722	1.718 (0.427)		223733	71.8028	71.8
13 Carbon Disulfide	76	1.758	1.760 (0.435)		768062	140.901	141
14 allyl chloride	41	1.810	1.811 (0.448)		323356	92.6989	92.7 (QM)
145 Acetonitrile	41	1.810	1.811 (0.448)		327315	939.331	939
138 Methyl Acetate	43	1.655	1.656 (0.410)		198555	61.4067	61.4 (Q)
15 Methylene Chloride	84	1.882	1.878 (0.466)		128889	51.4121	51.4
16 Acrylonitrile	53	2.016	2.013 (0.500)		1178080	1344.03	1340
19 Methyl-tert-butyl ether	73	2.042	2.039 (0.506)		717250	98.8549	98.8
18 1,2-Dichloroethene (trans)	96	2.037	2.039 (0.505)		169053	67.2091	67.2
20 n-Hexane	57	2.208	2.209 (0.547)		184455	54.3474	54.3

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====	
21 1,1-Dichloroethane	63	2.311	2.313	{0.572}	261016	51.9334	51.9	
23 Vinyl Acetate	43	2.342	2.338	{0.580}	950291	164.904	165	
140 Ethyl acetate	88	2.383	2.380	{0.590}	128857	533.786	534 (Q)	
147 Chloroprene	53	2.378	2.375	{0.589}	238005	54.0935	54.1	
24 2,2-Dichloropropane	77	2.766	2.762	{0.685}	207538	47.7747	47.8	
25 1,2-Dichloroethene (cis)	96	2.761	2.762	{0.684}	324015	96.4835	96.5 (R)	
26 2-Butanone	43	2.776	2.773	{0.688}	425232	305.483	305	
27 Propionitrile	54	2.833	2.829	{0.702}	26139	54.3165	54.3 (Q)	
29 Bromochloromethane	49	2.978	2.974	{0.738}	149179	69.2210	69.2	
146 Methacrylonitrile	41	2.967	2.969	{0.735}	153386	415.560	416	
31 Chloroform	83	3.055	3.057	{0.757}	255780	51.1261	51.1	
\$ 32 Dibromofluoromethane (S)	113	3.221	3.222	{0.798}	147814	51.5921	51.6	
33 1,1,1-Trichloroethane	97	3.246	3.248	{0.804}	244748	54.0070	54.0	
30 Tetrahydrofuran	42	3.040	3.041	{0.753}	59531	56.4026	56.4	
34 cyclohexane	56	3.308	3.305	{0.820}	243874	48.8540	48.8	
37 Isobutyl alcohol	43	2.776	2.773	{0.688}	425232	59.5583	59.6	
35 Carbon Tetrachloride	117	3.433	3.429	{0.850}	214476	53.7277	53.7	
36 1,1-Dichloropropene	75	3.433	3.429	{0.850}	196554	54.0034	54.0	
38 Benzene	78	3.670	3.672	{0.909}	517649	50.0700	50.1	
141 isopropyl acetate	61	3.805	3.830	{0.942}	343955		(Q)	
39 1,2-Dichloroethane	62	3.691	3.693	{0.914}	196973	53.8691	53.9	
* 40 Fluorobenzene	96	4.037	4.039	{1.000}	456260	50.0000		
41 Trichloroethene	95	4.497	4.504	{1.114}	851359	297.089	297 (R)	
139 Methylcyclohexane	55	4.725	4.726	{1.170}	165422	45.9940	46.0	
42 1,2-Dichloropropane	63	4.761	4.768	{1.179}	139918	52.7932	52.8	
43 Dibromomethane	93	4.895	4.897	{1.212}	100905	53.9016	53.9	
44 Methyl methacrylate	69	4.957	4.964	{1.228}	453264	227.126	227	
143 2,2,4-Trimethylpentane	57	3.789	3.796	{0.939}	300705	44.5984	44.6	
144 1,4-Dioxane	88	4.957	4.969	{1.228}	45549	998.402	998 (Q)	
45 Bromodichloromethane	83	5.102	5.104	{1.264}	203001	54.2359	54.2	
47 cis-1,3-Dichloropropene	75	5.619	5.626	{0.768}	235705	55.5992	55.6	
48 4-Methyl-2-Pentanone	43	5.820	5.822	{0.795}	905229	340.000	340 (R)	
\$ 49 Toluene-d8	98	5.908	5.910	{0.807}	393201	48.9613	49.0	
50 Toluene	91	5.975	5.982	{0.816}	519748	48.0428	48.0	
51 trans-1,3-Dichloropropene	75	6.244	6.246	{0.853}	213785	50.8022	50.8	
52 Ethyl Methacrylate	69	6.384	6.385	{0.872}	814937	211.357	211	
53 1,1,2-Trichloroethane	83	6.430	6.432	{0.879}	106449	55.2921	55.3	
54 Tetrachloroethene	166	6.559	6.561	{0.896}	143814	46.3317	46.3	
55 1,3-Dichloropropane	76	6.590	6.592	{0.900}	231444	51.4971	51.5	
56 2-Hexanone	43	6.709	6.711	{0.917}	650643	298.476	298	
57 Dibromochloromethane	129	6.802	6.809	{0.929}	169215	55.3829	55.4	
58 1,2-Dibromoethane	107	6.890	6.897	{0.941}	153994	51.2738	51.3	
* 59 Chlorobenzene-d5	117	7.319	7.326	{1.000}	344658	50.0000		
60 Chlorobenzene	112	7.345	7.347	{1.004}	344553	46.9399	46.9	
61 1,1,1,2-Tetrachloroethane	131	7.423	7.424	{1.014}	139281	50.6502	50.6	
62 Ethylbenzene	106	7.454	7.455	{1.018}	179227	47.0794	47.1	
63 m&p-Xylene	106	7.552	7.553	{1.032}	446212	99.6588	99.6	
65 o-Xylene	106	7.862	7.869	{1.074}	228296	49.5792	49.6	
66 Styrene	104	7.877	7.879	{1.076}	380684	49.3469	49.3	
67 Bromoform	173	8.007	8.013	{0.883}	107992	51.3331	51.3	
68 Isopropylbenzene	105	8.151	8.153	{1.114}	526887	46.3632	46.4	
69 trans-1,4-Dichloro-2-butene	53	8.415	8.422	{1.150}	220708	203.174	203 (Q)	
142 n-amyl acetate	70	8.260	8.256	{1.129}	1653		(Q)	
\$ 70 4-Bromofluorobenzene	95	8.260	8.261	{1.129}	162517	50.9783	51.0	

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)
=====	----	----	-----	-----	-----	-----	-----
71 Bromobenzene	77	8.358	8.365	{1.142}	222446	53.0260	53.0
72 1,1,2,2-Tetrachloroethane	83	8.379	8.380	{0.924}	185673	57.3015	57.3
73 1,2,3-Trichloropropane	75	8.415	8.401	{0.928}	410318	119.319	119
74 n-Propylbenzene	91	8.451	8.458	{0.932}	581431	54.4647	54.5
75 2-Chlorotoluene	91	8.508	8.510	{0.938}	382565	54.3826	54.4
77 1,3,5-Trimethylbenzene	105	8.580	8.582	{0.946}	397440	47.9464	47.9
76 4-Chlorotoluene	126	8.585	8.587	{0.947}	130818	45.2797	45.3
78 tert-Butylbenzene	119	8.803	8.804	{0.971}	403486	40.8370	40.8
79 1,2,4-Trimethylbenzene	105	8.839	8.840	{0.975}	397874	52.6879	52.7
80 sec-Butylbenzene	105	8.952	8.954	{0.987}	485736	51.5408	51.5
81 1,3-Dichlorobenzene	146	9.025	9.026	{0.995}	245870	49.3988	49.4
83 p-Isopropyltoluene	119	9.051	9.052	{0.998}	401175	49.6103	49.6
* 82 1,4-Dichlorobenzene-d4	152	9.066	9.068	{1.000}	150663	50.0000	
84 1,4-Dichlorobenzene	146	9.082	9.083	{1.002}	251206	49.1736	49.2
86 n-Butylbenzene	91	9.319	9.321	{1.028}	330672	54.0417	54.0
85 1,2-Dichlorobenzene	146	9.325	9.331	{1.029}	237928	48.5624	48.6
87 1,2-Dibromo-3-chloropropane	155	9.821	9.822	{1.083}	31358	55.4042	55.4
88 1,2,4-Trichlorobenzene	180	10.327	10.334	{1.139}	128469	50.1009	50.1
89 Hexachlorobutadiene	225	10.431	10.432	{1.150}	37576	50.2240	50.2
90 Naphthalene	128	10.477	10.484	{1.156}	381839	57.2654	57.3
91 1,2,3-Trichlorobenzene	180	10.622	10.629	{1.172}	114106	53.7987	53.8
92 2-methyl-naphthalene	142	11.154	11.156	{1.230}	122400	65.0838	65.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A11.D
Lab Smp Id: 437659
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: msd5037756016
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	456260	-0.10
59 Chlorobenzene-d5	337893	168947	675786	344658	2.00
82 1,4-Dichlorobenze	147661	73831	295322	150663	2.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	-0.04
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.09
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: 437659 Client Smp ID: msd5037756016
 Level: LOW Operator: jlf
 Data Type: MS DATA SampleType: MSD
 SpikeList File: 8260MS.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	53.2	106.47	30-163
2 Chloromethane	50.0	45.5	91.00	36-136
3 Vinyl Chloride	50.0	54.2	108.37	51-144
4 Bromomethane	50.0	56.6	113.31	30-170
5 Chloroethane	50.0	52.5	105.05	54-157
6 Trichlorofluoromet	50.0	51.4	102.71	53-162
28 1,2-dichlorotrifu	50.0	50.4	100.75	50-150
7 Diethyl ether	50.0	48.6	97.19	70-130
8 Acrolein	1000	1430	143.29	30-170
9 1,1-Dichloroethene	50.0	58.0	115.92	55-140
10 1,1,2trichlorotrif	50.0	49.6	99.28	50-150
11 Acetone	250	307	122.81	30-170
12 Iodomethane	100	71.8	71.80	28-168
13 Carbon Disulfide	100	141	140.90	46-162
138 Methyl Acetate	50.0	61.4	122.81	40-182
14 allyl chloride	100	92.7	92.70	39-155
15 Methylene Chloride	50.0	51.4	102.82	46-154
16 Acrylonitrile	1000	1340	134.40	66-137
27 Propionitrile	50.0	54.3	108.63	50-150
17 tert-Butyl Alcohol	100	127	126.66	50-150
18 1,2-Dichloroethene	50.0	67.2	134.42	60-137
19 Methyl-tert-butyl	100	98.8	98.85	52-156
20 n-Hexane	50.0	54.3	108.69	32-176
21 1,1-Dichloroethane	50.0	51.9	103.87	68-139
23 Vinyl Acetate	200	165	82.45	24-132
25 1,2-Dichloroethene	50.0	96.5	192.97*	65-132
24 2,2-Dichloropropan	50.0	47.8	95.55	35-157
26 2-Butanone	250	305	122.19	62-132
29 Bromochloromethane	50.0	69.2	138.44	65-157
30 Tetrahydrofuran	50.0	56.4	112.81	50-150
31 Chloroform	50.0	51.1	102.25	67-134
33 1,1,1-Trichloroeth	50.0	54.0	108.01	64-143
34 cyclohexane	50.0	48.8	97.71	39-167
37 Isobutyl alcohol	50.0	59.6	119.12	50-150
36 1,1-Dichloropropen	50.0	54.0	108.01	66-140
35 Carbon Tetrachlori	50.0	53.7	107.46	54-145
38 Benzene	50.0	50.1	100.14	63-141
39 1,2-Dichloroethane	50.0	53.9	107.74	63-148
41 Trichloroethene	50.0	297	594.18*	61-137
139 Methylcyclohexane	50.0	46.0	91.99	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	52.8	105.59	70-136
43 Dibromomethane	50.0	53.9	107.80	67-144
44 Methyl methacrylat	200	227	113.56	50-150
45 Bromodichlorometha	50.0	54.2	108.47	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	55.6	111.20	46-121
48 4-Methyl-2-Pentano	250	340	136.00*	57-135
50 Toluene	50.0	48.0	96.09	59-142
51 trans-1,3-Dichloro	50.0	50.8	101.60	43-117
52 Ethyl Methacrylate	200	211	105.68	52-140
53 1,1,2-Trichloroeth	50.0	55.3	110.58	71-143
54 Tetrachloroethene	50.0	46.3	92.66	25-146
55 1,3-Dichloropropan	50.0	51.5	102.99	65-133
56 2-Hexanone	250	298	119.39	61-141
57 Dibromochlorometha	50.0	55.4	110.77	64-124
58 1,2-Dibromoethane	50.0	51.3	102.55	67-134
60 Chlorobenzene	50.0	46.9	93.88	56-133
61 1,1,1,2-Tetrachlor	50.0	50.6	101.30	55-131
62 Ethylbenzene	50.0	47.1	94.16	44-151
63 m&p-Xylene	100	99.6	99.66	41-153
65 o-Xylene	50.0	49.6	99.16	52-139
66 Styrene	50.0	49.3	98.69	38-141
67 Bromoform	50.0	51.3	102.67	58-124
68 Isopropylbenzene	50.0	46.4	92.73	40-148
69 trans-1,4-Dichloro	200	203	101.59	44-139
72 1,1,2,2-Tetrachlor	50.0	57.3	114.60	64-142
71 Bromobenzene	50.0	53.0	106.05	57-128
73 1,2,3-Trichloropro	100	119	119.32	33-140
74 n-Propylbenzene	50.0	54.5	108.93	40-148
75 2-Chlorotoluene	50.0	54.4	108.77	44-143
76 4-Chlorotoluene	50.0	45.3	90.56	43-140
77 1,3,5-Trimethylben	50.0	47.9	95.89	39-145
78 tert-Butylbenzene	50.0	40.8	81.67	32-133
79 1,2,4-Trimethylben	50.0	52.7	105.38	39-146
80 sec-Butylbenzene	50.0	51.5	103.08	38-150
81 1,3-Dichlorobenzen	50.0	49.4	98.80	40-143
83 p-Isopropyltoluene	50.0	49.6	99.22	34-146
84 1,4-Dichlorobenzen	50.0	49.2	98.35	38-142
86 n-Butylbenzene	50.0	54.0	108.08	27-153
85 1,2-Dichlorobenzen	50.0	48.6	97.12	48-137
88 1,2,4-Trichloroben	50.0	50.1	100.20	39-146
91 1,2,3-Trichloroben	50.0	53.8	107.60	33-140
87 1,2-Dibromo-3-chlo	50.0	55.4	110.81	39-140
89 Hexachlorobutadien	50.0	50.2	100.45	30-145
90 Naphthalene	50.0	57.3	114.53	44-138
92 2,methyl-naphthale	50.0	65.1	130.17	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.6	103.18	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 49 Toluene-d8	50.0	49.0	97.92	80-120
\$ 70 4-Bromofluorobenze	50.0	51.0	101.96	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437659
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: msd5037756016
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	53.2	
74-87-3	Chloromethane	45.5	
75-01-4	Vinyl Chloride	54.2	
74-83-9	Bromomethane	56.6	
75-00-3	Chloroethane	52.5	
75-69-4	Trichlorofluoromethane	51.4	
354-23-4	1,2-dichlorotrifluoroethane	50.4	
60-29-7	Diethyl ether	48.6	
75-65-0	tert-Butyl Alcohol	127	
107-02-8	Acrolein	1430	
76-13-1	1,1,2trichlorotrifluoroethane	49.6	
75-35-4	1,1-Dichloroethene	58.0	
67-64-1	Acetone	307	
	Iodomethane	71.8	
75-15-0	Carbon Disulfide	141	
107-05-1	allyl chloride	92.7	
75-05-8	Acetonitrile	939	
79-20-9	Methyl Acetate	61.4	
75-09-2	Methylene Chloride	51.4	
107-13-1	Acrylonitrile	1340	
1634-04-4	Methyl-tert-butyl ether	98.8	
156-60-5	1,2-Dichloroethene (trans)	67.2	
	n-Hexane	54.3	
75-34-3	1,1-Dichloroethane	51.9	
108-05-4	Vinyl Acetate	165	
141-78-6	Ethyl acetate	534	
126-99-8	Chloroprene	54.1	
594-20-7	2,2-Dichloropropane	47.8	
156-59-2	1,2-Dichloroethene (cis)	96.5	
78-93-3	2-Butanone	305	
107-12-0	Propionitrile	54.3	
74-97-5	Bromochloromethane	69.2	
126-98-7	Methacrylonitrile	416	
67-66-3	Chloroform	51.1	
71-55-6	1,1,1-Trichloroethane	54.0	
	Tetrahydrofuran	56.4	
110-82-7	cyclohexane	48.8	
78-83-1	Isobutyl alcohol	59.6	
56-23-5	Carbon Tetrachloride	53.7	
563-58-6	1,1-Dichloropropene	54.0	
71-43-2	Benzene	50.1	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437659
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.B
 Client Smp ID: MSD5037756016
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	53.9	
79-01-6	Trichloroethene	297	
108-87-2	Methylcyclohexane	46.0	
78-87-5	1,2-Dichloropropane	52.8	
74-95-3	Dibromomethane	53.9	
80-62-6	Methyl methacrylate	227	
540-84-1	2,2,4-Trimethylpentane	44.6	
	1,4-Dioxane	998	
75-27-4	Bromodichloromethane	54.2	
10061-01-5	cis-1,3-Dichloropropene	55.6	
108-10-1	4-Methyl-2-Pentanone	340	
108-88-3	Toluene	48.0	
10061-02-6	trans-1,3-Dichloropropene	50.8	
	Ethyl Methacrylate	211	
79-00-5	1,1,2-Trichloroethane	55.3	
127-18-4	Tetrachloroethene	46.3	
142-28-9	1,3-Dichloropropane	51.5	
591-78-6	2-Hexanone	298	
124-48-1	Dibromochloromethane	55.4	
106-93-4	1,2-Dibromoethane	51.3	
108-90-7	Chlorobenzene	46.9	
630-20-6	1,1,1,2-Tetrachloroethane	50.6	
100-41-4	Ethylbenzene	47.1	
7816-60-0	m&p-Xylene	99.6	
95-47-6	o-Xylene	49.6	
100-42-5	Styrene	49.3	
75-25-2	Bromoform	51.3	
98-82-8	Isopropylbenzene	46.4	
	trans-1,4-Dichloro-2-butene	203	
628-63-7	n-amyl acetate	0.000	
108-86-1	Bromobenzene	53.0	
79-34-5	1,1,2,2-Tetrachloroethane	57.3	
96-18-4	1,2,3-Trichloropropane	119	
103-65-1	n-Propylbenzene	54.5	
95-49-8	2-Chlorotoluene	54.4	
108-67-8	1,3,5-Trimethylbenzene	47.9	
106-43-4	4-Chlorotoluene	45.3	
98-06-6	tert-Butylbenzene	40.8	
95-63-6	1,2,4-Trimethylbenzene	52.7	
135-98-8	sec-Butylbenzene	51.5	
541-73-1	1,3-Dichlorobenzene	49.4	
99-87-6	p-Isopropyltoluene	49.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

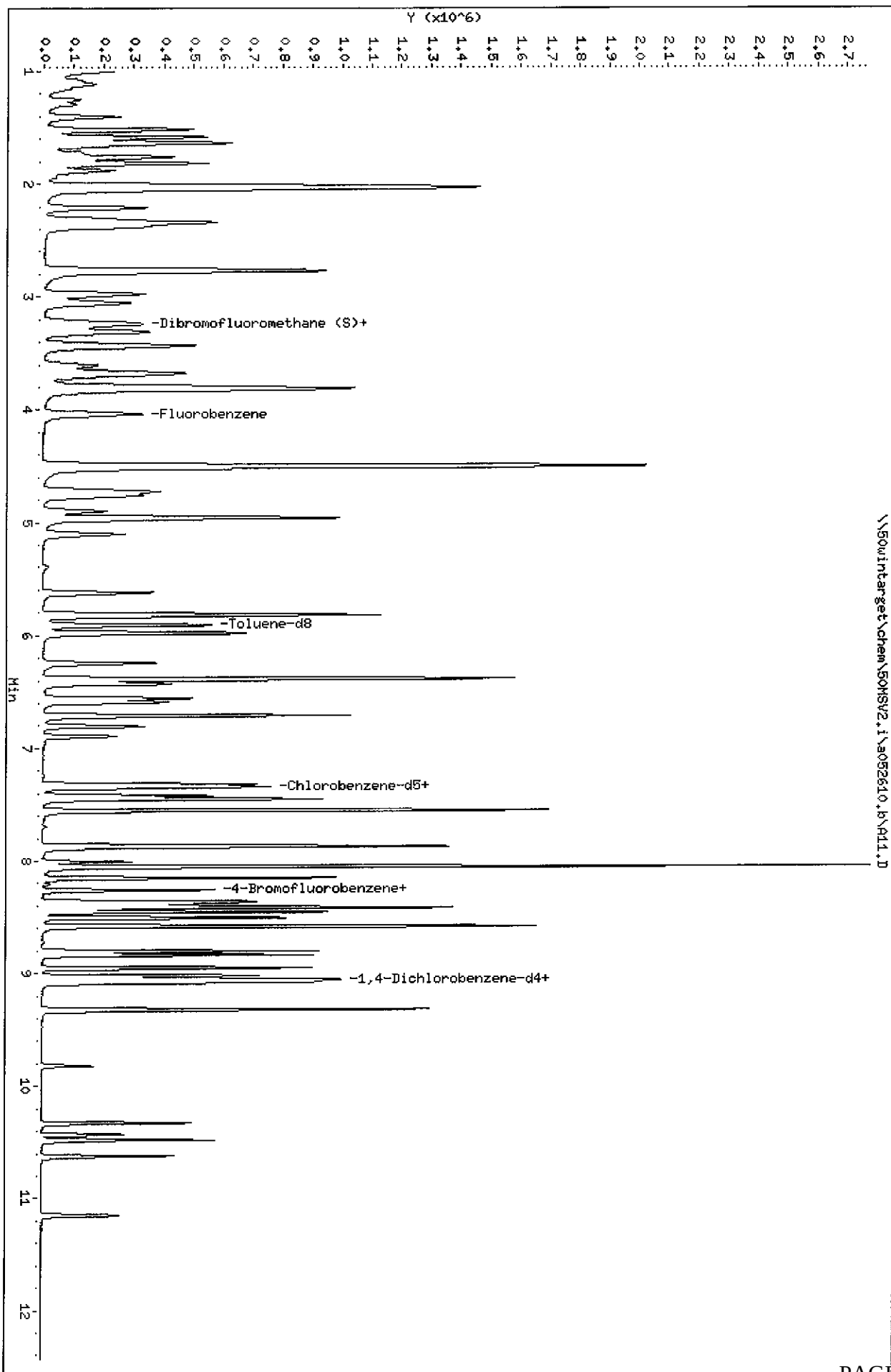
Client Name:
 Lab Smp Id: 437659
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: msd5037756016
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
106-46-7-----	1,4-Dichlorobenzene	49.2	
104-51-8-----	n-Butylbenzene	54.0	
95-50-1-----	1,2-Dichlorobenzene	48.6	
96-12-8-----	1,2-Dibromo-3-chloropropane	55.4	
120-82-1-----	1,2,4-Trichlorobenzene	50.1	
87-68-3-----	Hexachlorobutadiene	50.2	
91-20-3-----	Naphthalene	57.3	
87-61-6-----	1,2,3-Trichlorobenzene	53.8	
-----	2,methyl-naphthalene	65.1	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.6	
2037-26-5-----	Toluene-d8	49.0	
460-00-4-----	4-Bromofluorobenzene	51.0	

Data File: \\50wintarget\chem\50HSV2.i\A052610.b\A11.D
Date : 26-May-2010 17:28
Client ID: msd5037756016
Sample Info: msd5037756016
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50HSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C02LCS.D
Lab Smp Id: 437666 Client Smp ID: lcs
Inj Date : 27-MAY-2010 00:20
Operator : jlf Inst ID: 50MSV2.i
Smp Info : lcs
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-cl.m
Meth Date : 27-May-2010 15:38 jfislars Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 49 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
1 Dichlorodifluoromethane	85	63.0478	63.0	0.990	0.995 (0.245)		268816
2 Chloromethane	50	47.5103	47.5	1.083	1.082 (0.268)		190904
3 Vinyl Chloride	62	59.0133	59.0	1.109	1.113 (0.275)		195594
4 Bromomethane	94	40.8625	40.9	1.244	1.243 (0.308)		76239
5 Chloroethane	64	56.5744	56.6	1.109	1.108 (0.275)		62099
6 Trichlorofluoromethane	101	57.8369	57.8	1.399	1.393 (0.346)		256446
28 1,2-dichlorotrifluoroethane	67	52.6262	52.6	1.512	1.511 (0.374)		178140
7 Diethyl ether	74	50.4140	50.4	1.523	1.517 (0.377)		63996
17 tert-Butyl Alcohol	59	117.518	118 (Q)	1.936	1.940 (0.479)		33395
8 Acrolein	56	1476.71	1480	1.580	1.579 (0.391)		578108
10 1,1,2trichlorotrifluoroethane	101	51.2418	51.2	1.626	1.625 (0.403)		143461
9 1,1-Dichloroethene	96	59.8408	59.8	1.637	1.630 (0.405)		144535
11 Acetone	43	312.421	312	1.657	1.656 (0.410)		195001
12 Iodomethane	142	94.9428	94.9	1.719	1.718 (0.426)		291250
13 Carbon Disulfide	76	142.518	142	1.761	1.760 (0.436)		750634
14 allyl chloride	41	102.283	102	1.812	1.811 (0.449)		342327
145 Acetonitrile	41	1022.83	1020	1.812	1.811 (0.449)		342327
138 Methyl Acetate	43	62.4843	62.5	1.657	1.656 (0.410)		195001
15 Methylene Chloride	84	56.3117	56.3	1.879	1.878 (0.465)		135525
16 Acrylonitrile	53	1339.92	1340	2.014	2.013 (0.499)		1135797
19 Methyl-tert-butyl ether	73	103.662	104	2.040	2.039 (0.505)		727122
18 1,2-Dichloroethene (trans)	96	59.1789	59.2	2.040	2.039 (0.505)		143848
20 n-Hexane	57	52.6348	52.6	2.210	2.209 (0.547)		172703

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.314	2.313	(0.573)	264675	54.4725	54.5
23 Vinyl Acetate	43	2.339	2.338	(0.579)	710086	120.206	120
140 Ethyl acetate	88	2.381	2.380	(0.589)	132822	569.134	569 (Q)
147 Chloroprene	53	2.381	2.375	(0.589)	237628	55.8653	55.9
24 2,2-Dichloropropane	77	2.763	2.762	(0.684)	147530	35.1290	35.1
25 1,2-Dichloroethene (cis)	96	2.763	2.762	(0.684)	173242	53.3613	53.4
26 2-Butanone	43	2.779	2.773	(0.688)	419890	312.714	313
27 Propionitrile	54	2.830	2.829	(0.701)	24687	53.0636	53.1 (Q)
29 Bromochloromethane	49	2.980	2.974	(0.738)	156032	75.5183	75.5
146 Methacrylonitrile	41	2.965	2.969	(0.734)	150857	423.085	423
31 Chloroform	83	3.058	3.057	(0.757)	263748	54.5318	54.5
\$ 32 Dibromofluoromethane (S)	113	3.228	3.222	(0.799)	142255	51.3594	51.4
33 1,1,1-Trichloroethane	97	3.249	3.248	(0.804)	246604	56.2881	56.3
30 Tetrahydrofuran	42	3.042	3.041	(0.753)	62446	62.4671	62.5
34 cyclohexane	56	3.311	3.305	(0.820)	253861	52.6036	52.6
37 Isobutyl alcohol	43	2.779	2.773	(0.688)	419890	61.0196	61.0
35 Carbon Tetrachloride	117	3.430	3.429	(0.849)	219599	56.9030	56.9
36 1,1-Dichloropropene	75	3.435	3.429	(0.850)	195590	55.5867	55.6
38 Benzene	78	3.673	3.672	(0.909)	527360	52.7636	52.8
141 isopropyl acetate	61	3.812	3.830	(0.944)	351771		(Q)
39 1,2-Dichloroethane	62	3.699	3.693	(0.916)	198829	56.2468	56.2
* 40 Fluorobenzene	96	4.040	4.039	(1.000)	441090	50.0000	
41 Trichloroethene	95	4.500	4.504	(1.114)	160962	58.1008	58.1
139 Methylcyclohexane	55	4.727	4.726	(1.170)	172508	49.6138	49.6
42 1,2-Dichloropropane	63	4.763	4.768	(1.179)	145872	56.9327	56.9
43 Dibromomethane	93	4.903	4.897	(1.214)	102606	56.7758	56.8
44 Methyl methacrylate	69	4.965	4.964	(1.229)	435147	225.532	226
143 2,2,4-Trimethylpentane	57	3.797	3.796	(0.940)	281588	43.1461	43.1
144 1,4-Dioxane	88	4.965	4.969	(1.229)	39973	910.041	910 (Q)
45 Bromodichloromethane	83	5.105	5.104	(1.264)	212045	58.6005	58.6
46 2-Chloroethyl vinyl ether	63	5.492	5.491	(0.750)	85427	42.2203	42.2
47 cis-1,3-Dichloropropene	75	5.627	5.626	(0.768)	227056	55.7253	55.7
48 4-Methyl-2-Pentanone	43	5.823	5.822	(0.795)	839600	326.789	327
\$ 49 Toluene-d8	98	5.911	5.910	(0.807)	386003	50.0019	50.0
50 Toluene	91	5.983	5.982	(0.817)	525111	50.4945	50.5
51 trans-1,3-Dichloropropene	75	6.247	6.246	(0.853)	207527	51.3024	51.3
52 Ethyl Methacrylate	69	6.386	6.385	(0.872)	800654	216.021	216
53 1,1,2-Trichloroethane	83	6.433	6.432	(0.878)	110163	59.7787	59.8
54 Tetrachloroethene	166	6.562	6.561	(0.896)	147229	49.3433	49.3
55 1,3-Dichloropropane	76	6.593	6.592	(0.900)	235197	54.4410	54.4
56 2-Hexanone	43	6.712	6.711	(0.916)	604318	288.397	288
57 Dibromochloromethane	129	6.810	6.809	(0.929)	176290	60.0236	60.0
58 1,2-Dibromoethane	107	6.898	6.897	(0.941)	158770	54.9943	55.0
* 59 Chlorobenzene-d5	117	7.327	7.326	(1.000)	331307	50.0000	
60 Chlorobenzene	112	7.348	7.347	(1.003)	356440	50.5161	50.5
61 1,1,1,2-Tetrachloroethane	131	7.425	7.424	(1.013)	145427	55.0164	55.0
62 Ethylbenzene	106	7.456	7.455	(1.018)	182155	49.7767	49.8
63 m&p-Xylene	106	7.554	7.553	(1.031)	453818	105.544	106
65 o-Xylene	106	7.870	7.869	(1.074)	236619	53.4575	53.4
66 Styrene	104	7.880	7.879	(1.075)	391120	52.7428	52.7
67 Bromoform	173	8.009	8.013	(0.883)	107294	52.2665	52.3
68 Isopropylbenzene	105	8.154	8.153	(1.113)	538830	49.3248	49.3
69 trans-1,4-Dichloro-2-butene	53	8.418	8.422	(1.149)	185979	178.103	178 (Q)
142 n-amyl acetate	70	8.263	8.256	(1.128)	1518		(Q)

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
\$ 70 4-Bromofluorobenzene	95	8.263	8.261	(1.128)	159583	52.0752	52.1
71 Bromobenzene	77	8.361	8.365	(1.141)	229811	57.3819	57.4
72 1,1,2,2-Tetrachloroethane	83	8.381	8.380	(0.924)	168143	53.1867	53.2
73 1,2,3-Trichloropropane	75	8.418	8.401	(0.928)	365134	108.387	108
74 n-Propylbenzene	91	8.459	8.458	(0.933)	590107	56.8601	56.9
75 2-Chlorotoluene	91	8.511	8.510	(0.938)	386181	56.4136	56.4
77 1,3,5-Trimethylbenzene	105	8.583	8.582	(0.946)	402482	49.7666	49.8
76 4-Chlorotoluene	126	8.588	8.587	(0.947)	131871	46.7835	46.8
78 tert-Butylbenzene	119	8.805	8.804	(0.971)	364354	37.7969	37.8
79 1,2,4-Trimethylbenzene	105	8.841	8.840	(0.975)	418363	57.0683	57.1
80 sec-Butylbenzene	105	8.955	8.954	(0.987)	494101	53.8764	53.9
81 1,3-Dichlorobenzene	146	9.027	9.026	(0.995)	253114	52.1767	52.2
83 p-Isopropyltoluene	119	9.053	9.052	(0.998)	406664	51.6160	51.6
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.068	(1.000)	146994	50.0000	
84 1,4-Dichlorobenzene	146	9.084	9.083	(1.002)	258860	51.9838	52.0
86 n-Butylbenzene	91	9.322	9.321	(1.028)	326376	54.7250	54.7
85 1,2-Dichlorobenzene	146	9.327	9.331	(1.028)	245947	51.4521	51.4
87 1,2-Dibromo-3-chloropropane	155	9.823	9.822	(1.083)	29158	52.8244	52.8
88 1,2,4-Trichlorobenzene	180	10.335	10.334	(1.140)	124670	49.8284	49.8
89 Hexachlorobutadiene	225	10.433	10.432	(1.150)	36519	50.0295	50.0
90 Naphthalene	128	10.480	10.484	(1.156)	355884	54.7051	54.7
91 1,2,3-Trichlorobenzene	180	10.624	10.629	(1.172)	109027	52.6865	52.7
92 2-methyl-naphthalene	142	11.157	11.156	(1.230)	104192	57.4248	57.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: C02LCS.D
Lab Smp Id: 437666
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	441090	-3.42
59 Chlorobenzene-d5	337893	168947	675786	331307	-1.95
82 1,4-Dichlorobenze	147661	73831	295322	146994	-0.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	0.03
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: A052610.b
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: 437666 Client Smp ID: LCS
 Level: LOW Operator: jlf
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 8260LCS.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	63.0	126.10	30-170
2 Chloromethane	50.0	47.5	95.02	35-147
3 Vinyl Chloride	50.0	59.0	118.03	55-141
4 Bromomethane	50.0	40.9	81.72	30-170
5 Chloroethane	50.0	56.6	113.15	56-153
6 Trichlorofluoromet	50.0	57.8	115.67	62-150
7 Diethyl ether	50.0	50.4	100.83	70-130
8 Acrolein	1000	1480	147.67	30-170
9 1,1-Dichloroethene	50.0	59.8	119.68	63-128
10 1,1,2trichlorotrif	50.0	51.2	102.48	74-153
11 Acetone	250	312	124.97	30-170
12 Iodomethane	100	94.9	94.94	41-170
13 Carbon Disulfide	100	142	142.52	58-152
14 allyl chloride	100	102	102.28	70-130
15 Methylene Chloride	50.0	56.3	112.62	32-164
16 Acrylonitrile	1000	1340	133.99	67-136
17 tert-Butyl Alcohol	100	118	117.52	50-150
18 1,2-Dichloroethene	50.0	59.2	118.36	71-126
19 Methyl-tert-butyl	100	104	103.66	66-147
20 n-Hexane	50.0	52.6	105.27	69-157
21 1,1-Dichloroethane	50.0	54.5	108.95	67-133
23 Vinyl Acetate	200	120	60.10	41-145
24 2,2-Dichloropropan	50.0	35.1	70.26	53-144
25 1,2-Dichloroethene	50.0	53.4	106.72	74-128
26 2-Butanone	250	313	125.09	47-189
28 1,2-dichlorotriflu	50.0	52.6	105.25	54-162
29 Bromochloromethane	50.0	75.5	151.04	54-162
31 Chloroform	50.0	54.5	109.06	74-131
33 1,1,1-Trichloroeth	50.0	56.3	112.58	69-136
35 Carbon Tetrachlori	50.0	56.9	113.81	62-143
36 1,1-Dichloropropen	50.0	55.6	111.17	75-134
37 Isobutyl alcohol	50.0	61.0	122.04	50-150
38 Benzene	50.0	52.8	105.53	78-127
39 1,2-Dichloroethane	50.0	56.2	112.49	69-139
41 Trichloroethene	50.0	58.1	116.20	74-130
42 1,2-Dichloropropan	50.0	56.9	113.87	76-129
43 Dibromomethane	50.0	56.8	113.55	73-133
44 Methyl methacrylat	200	226	112.77	70-130
45 Bromodichlorometha	50.0	58.6	117.20	69-133
47 cis-1,3-Dichloropr	50.0	55.7	111.45	54-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
48 4-Methyl-2-Pentano	250	327	130.72	61-135
50 Toluene	50.0	50.5	100.99	75-129
51 trans-1,3-Dichloro	50.0	51.3	102.60	54-123
52 Ethyl Methacrylate	200	216	108.01	59-138
53 1,1,2-Trichloroeth	50.0	59.8	119.56	77-132
54 Tetrachloroethene	50.0	49.3	98.69	60-119
55 1,3-Dichloropropan	50.0	54.4	108.88	74-126
56 2-Hexanone	250	288	115.36	57-167
57 Dibromochlorometha	50.0	60.0	120.05	66-131
58 1,2-Dibromoethane	50.0	55.0	109.99	75-126
60 Chlorobenzene	50.0	50.5	101.03	75-123
61 1,1,1,2-Tetrachlor	50.0	55.0	110.03	69-130
62 Ethylbenzene	50.0	49.8	99.55	81-126
63 m&p-Xylene	100	106	105.54	71-131
65 o-Xylene	50.0	53.4	106.92	72-127
66 Styrene	50.0	52.7	105.49	74-128
67 Bromoform	50.0	52.3	104.53	60-127
68 Isopropylbenzene	50.0	49.3	98.65	80-130
69 trans-1,4-Dichloro	200	178	89.05	50-150
71 Bromobenzene	50.0	57.4	114.76	62-139
72 1,1,2,2-Tetrachlor	50.0	53.2	106.37	69-130
73 1,2,3-Trichloropro	100	108	108.39	60-131
74 n-Propylbenzene	50.0	56.9	113.72	71-132
75 2-Chlorotoluene	50.0	56.4	112.83	72-128
76 4-Chlorotoluene	50.0	46.8	93.57	73-124
77 1,3,5-Trimethylben	50.0	49.8	99.53	74-130
78 tert-Butylbenzene	50.0	37.8	75.59	63-117
79 1,2,4-Trimethylben	50.0	57.1	114.14	73-130
80 sec-Butylbenzene	50.0	53.9	107.75	73-130
81 1,3-Dichlorobenzen	50.0	52.2	104.35	76-125
83 p-Isopropyltoluene	50.0	51.6	103.23	66-131
84 1,4-Dichlorobenzen	50.0	52.0	103.97	75-122
85 1,2-Dichlorobenzen	50.0	51.4	102.90	76-124
86 n-Butylbenzene	50.0	54.7	109.45	68-135
87 1,2-Dibromo-3-chlo	50.0	52.8	105.65	61-125
88 1,2,4-Trichloroben	50.0	49.8	99.66	60-130
89 Hexachlorobutadien	50.0	50.0	100.06	70-130
90 Naphthalene	50.0	54.7	109.41	61-135
91 1,2,3-Trichloroben	50.0	52.7	105.37	58-131
138 Methyl Acetate	50.0	62.5	124.97	30-170
34 cyclohexane	50.0	52.6	105.21	63-134
139 Methylcyclohexane	50.0	49.6	99.23	65-135

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.4	102.72	82-122
\$ 49 Toluene-d8	50.0	50.0	100.00	80-120
\$ 70 4-Bromofluorobenze	50.0	52.1	104.15	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437666
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: lcs
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	63.0	
74-87-3	Chloromethane	47.5	
75-01-4	Vinyl Chloride	59.0	
74-83-9	Bromomethane	40.9	
75-00-3	Chloroethane	56.6	
75-69-4	Trichlorofluoromethane	57.8	
354-23-4	1,2-dichlorotrifluoroethane	52.6	
60-29-7	Diethyl ether	50.4	
75-65-0	tert-Butyl Alcohol	118	
107-02-8	Acrolein	1480	
76-13-1	1,1,2trichlorotrifluoroethan	51.2	
75-35-4	1,1-Dichloroethene	59.8	
67-64-1	Acetone	312	
	Iodomethane	94.9	
75-15-0	Carbon Disulfide	142	
107-05-1	allyl chloride	102	
75-05-8	Acetonitrile	1020	
79-20-9	Methyl Acetate	62.5	
75-09-2	Methylene Chloride	56.3	
107-13-1	Acrylonitrile	1340	
1634-04-4	Methyl-tert-butyl ether	104	
156-60-5	1,2-Dichloroethene (trans)	59.2	
	n-Hexane	52.6	
75-34-3	1,1-Dichloroethane	54.5	
108-05-4	Vinyl Acetate	120	
141-78-6	Ethyl acetate	569	
126-99-8	Chloroprene	55.9	
594-20-7	2,2-Dichloropropane	35.1	
156-59-2	1,2-Dichloroethene (cis)	53.4	
78-93-3	2-Butanone	313	
107-12-0	Propionitrile	53.1	
74-97-5	Bromochloromethane	75.5	
126-98-7	Methacrylonitrile	423	
67-66-3	Chloroform	54.5	
71-55-6	1,1,1-Trichloroethane	56.3	
	Tetrahydrofuran	62.5	
110-82-7	cyclohexane	52.6	
78-83-1	Isobutyl alcohol	61.0	
56-23-5	Carbon Tetrachloride	56.9	
563-58-6	1,1-Dichloropropene	55.6	
71-43-2	Benzene	52.8	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437666
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: lcs
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	56.2	
79-01-6	Trichloroethene	58.1	
108-87-2	Methylcyclohexane	49.6	
78-87-5	1,2-Dichloropropane	56.9	
74-95-3	Dibromomethane	56.8	
80-62-6	Methyl methacrylate	226	
540-84-1	2,2,4-Trimethylpentane	43.1	
	1,4-Dioxane	910	
75-27-4	Bromodichloromethane	58.6	
110-75-8	2-Chloroethyl vinyl ether	42.2	
10061-01-5	cis-1,3-Dichloropropene	55.7	
108-10-1	4-Methyl-2-Pentanone	327	
108-88-3	Toluene	50.5	
10061-02-6	trans-1,3-Dichloropropene	51.3	
	Ethyl Methacrylate	216	
79-00-5	1,1,2-Trichloroethane	59.8	
127-18-4	Tetrachloroethene	49.3	
142-28-9	1,3-Dichloropropane	54.4	
591-78-6	2-Hexanone	288	
124-48-1	Dibromochloromethane	60.0	
106-93-4	1,2-Dibromoethane	55.0	
108-90-7	Chlorobenzene	50.5	
630-20-6	1,1,1,2-Tetrachloroethane	55.0	
100-41-4	Ethylbenzene	49.8	
7816-60-0	m&p-Xylene	106	
95-47-6	o-Xylene	53.4	
100-42-5	Styrene	52.7	
75-25-2	Bromoform	52.3	
98-82-8	Isopropylbenzene	49.3	
	trans-1,4-Dichloro-2-butene	178	
628-63-7	n-amyl acetate	0.000	
108-86-1	Bromobenzene	57.4	
79-34-5	1,1,2,2-Tetrachloroethane	53.2	
96-18-4	1,2,3-Trichloropropane	108	
103-65-1	n-Propylbenzene	56.9	
95-49-8	2-Chlorotoluene	56.4	
108-67-8	1,3,5-Trimethylbenzene	49.8	
106-43-4	4-Chlorotoluene	46.8	
98-06-6	tert-Butylbenzene	37.8	
95-63-6	1,2,4-Trimethylbenzene	57.1	
135-98-8	sec-Butylbenzene	53.9	
541-73-1	1,3-Dichlorobenzene	52.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 437666
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6-----	p-Isopropyltoluene	51.6	
106-46-7-----	1,4-Dichlorobenzene	52.0	
104-51-8-----	n-Butylbenzene	54.7	
95-50-1-----	1,2-Dichlorobenzene	51.4	
96-12-8-----	1,2-Dibromo-3-chloropropane	52.8	
120-82-1-----	1,2,4-Trichlorobenzene	49.8	
87-68-3-----	Hexachlorobutadiene	50.0	
91-20-3-----	Naphthalene	54.7	
87-61-6-----	1,2,3-Trichlorobenzene	52.7	
-----	2-methyl-naphthalene	57.4	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.4	
2037-26-5-----	Toluene-d8	50.0	
460-00-4-----	4-Bromofluorobenzene	52.1	

Data File: \\50wintarget\chem\50MSV2.i\9052610.b\CO2LCS.D

Page 10

Date : 27-MAY-2010 00:20

Client ID: 1cs

Instrument: 50MSV2.i

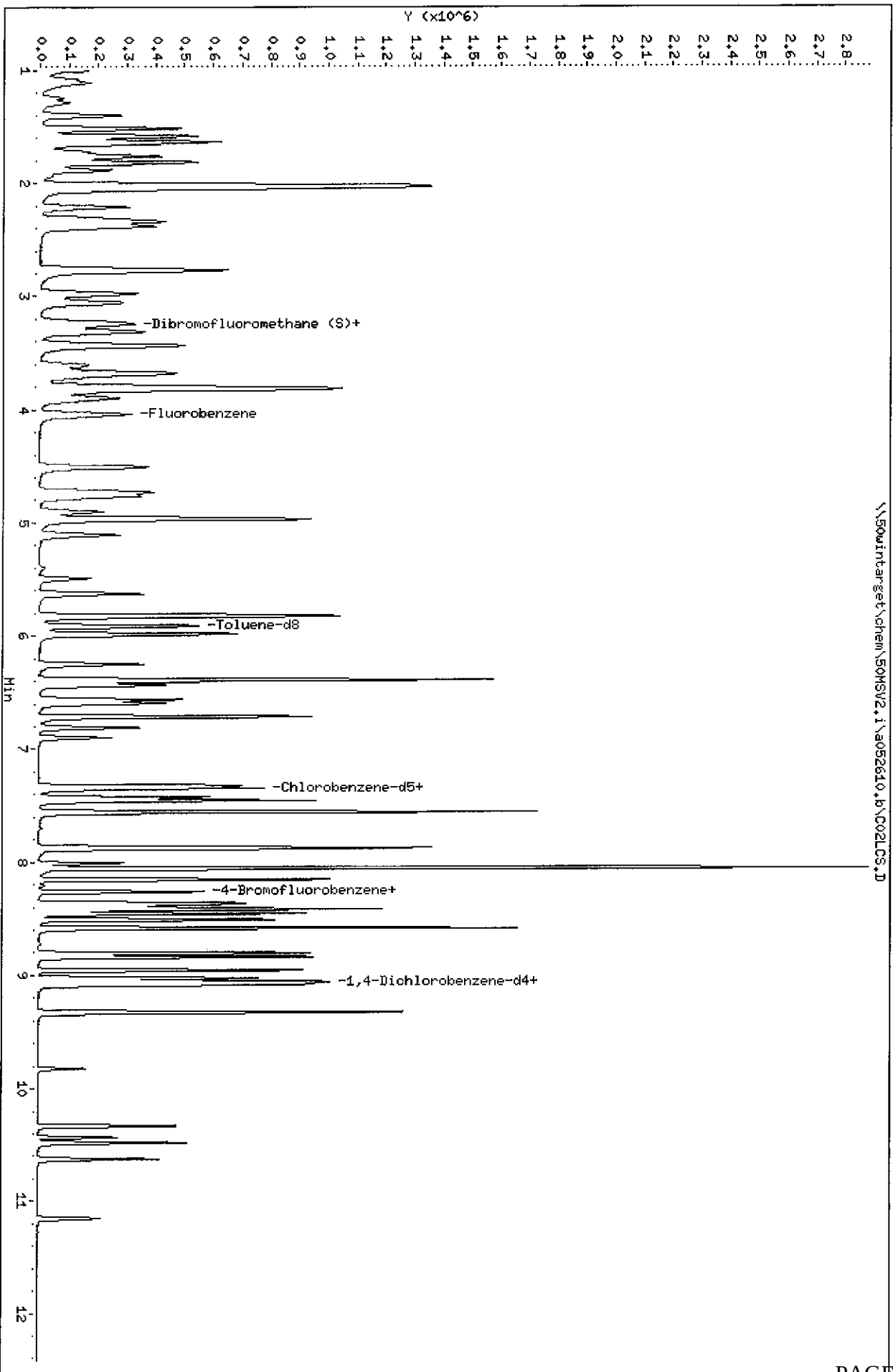
Sample Info: 1cs

Purge Volume: 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C05.D
 Lab Smp Id: 437667 Client Smp ID: ms5037756012
 Inj Date : 27-MAY-2010 02:02
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : ms5037756012
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislars Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: All-8CAL.D
 Als bottle: 55 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====
1 Dichlorodifluoromethane	85	0.991	0.995 (0.245)		205720	49.1035	49.1
2 Chloromethane	50	1.079	1.082 (0.267)		185734	47.0419	47.0
3 Vinyl Chloride	62	1.115	1.113 (0.276)		187967	57.7161	57.7
4 Bromomethane	94	1.250	1.243 (0.309)		85811	47.0954	47.1
5 Chloroethane	64	1.115	1.108 (0.276)		59525	55.1748	55.2
6 Trichlorofluoromethane	101	1.399	1.393 (0.346)		229836	52.7532	52.8
28 1,2-dichlorotrifluoroethane	67	1.513	1.511 (0.374)		176164	52.9638	53.0
7 Diethyl ether	74	1.523	1.517 (0.377)		63601	50.9898	51.0
17 tert-Butyl Alcohol	59	1.937	1.940 (0.479)		30250	108.335	108 (M)
8 Acrolein	56	1.580	1.579 (0.391)		494752	1286.16	1290
10 1,1,2trichlorotrifluoroethane	101	1.632	1.625 (0.403)		114391	41.5818	41.6
9 1,1-Dichloroethene	96	1.637	1.630 (0.405)		136524	57.5247	57.5
11 Acetone	43	1.658	1.656 (0.410)		180561	292.544	292
12 Iodomethane	142	1.725	1.718 (0.426)		282718	93.8540	93.8
13 Carbon Disulfide	76	1.761	1.760 (0.435)		731044	141.192	141
14 allyl chloride	41	1.813	1.811 (0.448)		352314	107.515	108
145 Acetonitrile	41	1.813	1.811 (0.448)		352314	1075.15	1080
138 Methyl Acetate	43	1.658	1.656 (0.410)		180561	58.5089	58.5 (Q)
15 Methylene Chloride	84	1.880	1.878 (0.465)		133671	56.5416	56.5
16 Acrylonitrile	53	2.020	2.013 (0.499)		1080236	1291.90	1290
19 Methyl-tert-butyl ether	73	2.046	2.039 (0.506)		718328	104.221	104
18 1,2-Dichloroethene (trans)	96	2.046	2.039 (0.506)		141311	59.1644	59.2
20 n-Hexane	57	2.216	2.209 (0.548)		138013	42.8070	42.8

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.314	2.313	(0.572)	268321	56.2006	56.2
23 Vinyl Acetate	43	2.345	2.338	(0.580)	779361	138.006	138
140 Ethyl acetate	88	2.381	2.380	(0.589)	124185	541.545	542 (Q)
147 Chloroprene	53	2.381	2.375	(0.589)	225290	53.9023	53.9
24 2,2-Dichloropropane	77	2.769	2.762	(0.684)	161590	39.1580	39.2
25 1,2-Dichloroethene (cis)	96	2.769	2.762	(0.684)	198055	62.0841	62.1
26 2-Butanone	43	2.779	2.773	(0.687)	371986	278.751	279
27 Propionitrile	54	2.831	2.829	(0.700)	23120	50.5751	50.6 (Q)
29 Bromochloromethane	49	2.981	2.974	(0.737)	157958	78.0357	78.0
146 Methacrylonitrile	41	2.971	2.969	(0.734)	136430	387.927	388
31 Chloroform	83	3.064	3.057	(0.757)	258546	54.4027	54.4
\$ 32 Dibromofluoromethane (S)	113	3.234	3.222	(0.799)	141810	52.1052	52.1
33 1,1,1-Trichloroethane	97	3.250	3.248	(0.803)	233698	54.2866	54.3
30 Tetrahydrofuran	42	3.043	3.041	(0.752)	52160	50.8660	50.9
34 cyclohexane	56	3.317	3.305	(0.820)	196229	41.3813	41.4
37 Isobutyl alcohol	43	2.779	2.773	(0.687)	371986	54.1558	54.2
35 Carbon Tetrachloride	117	3.436	3.429	(0.849)	200764	52.9434	52.9
36 1,1-Dichloropropene	75	3.436	3.429	(0.849)	184731	53.4300	53.4
38 Benzene	78	3.679	3.672	(0.909)	515657	52.5060	52.5
141 isopropyl acetate	61	3.813	3.830	(0.943)	296551		(Q)
39 1,2-Dichloroethane	62	3.699	3.693	(0.914)	196729	56.6380	56.6
* 40 Fluorobenzene	96	4.046	4.039	(1.000)	433417	50.0000	
41 Trichloroethene	95	4.506	4.504	(1.114)	427031	156.870	157 (R)
139 Methylcyclohexane	55	4.733	4.726	(1.170)	126087	36.9049	36.9
42 1,2-Dichloropropane	63	4.769	4.768	(1.179)	143060	56.8237	56.8
43 Dibromomethane	93	4.904	4.897	(1.212)	101023	56.8926	56.9
44 Methyl methacrylate	69	4.966	4.964	(1.227)	416083	219.411	219
143 2,2,4-Trimethylpentane	57	3.798	3.796	(0.939)	219361	33.8541	33.8
144 1,4-Dioxane	88	4.966	4.969	(1.227)	35579	828.150	828 (Q)
45 Bromodichloromethane	83	5.110	5.104	(1.263)	204741	57.5837	57.6
47 cis-1,3-Dichloropropene	75	5.627	5.626	(0.768)	226125	55.5742	55.6
48 4-Methyl-2-Pentanone	43	5.824	5.822	(0.795)	793148	307.247	307
\$ 49 Toluene-d8	98	5.917	5.910	(0.807)	384263	49.8545	49.8
50 Toluene	91	5.984	5.982	(0.817)	500591	48.2121	48.2
51 trans-1,3-Dichloropropene	75	6.247	6.246	(0.853)	203584	50.4065	50.4
52 Ethyl Methacrylate	69	6.392	6.385	(0.872)	769820	208.027	208
53 1,1,2-Trichloroethane	83	6.434	6.432	(0.878)	107008	58.0686	58.1
54 Tetrachloroethene	166	6.563	6.561	(0.896)	128591	43.1644	43.2
55 1,3-Dichloropropane	76	6.594	6.592	(0.900)	233030	54.0239	54.0
56 2-Hexanone	43	6.713	6.711	(0.916)	569146	272.037	272
57 Dibromochloromethane	129	6.811	6.809	(0.929)	169414	57.7728	57.8
58 1,2-Dibromoethane	107	6.899	6.897	(0.941)	150849	52.3325	52.3
* 59 Chlorobenzene-d5	117	7.328	7.326	(1.000)	330789	50.0000	
60 Chlorobenzene	112	7.348	7.347	(1.003)	336695	47.7925	47.8
61 1,1,1,2-Tetrachloroethane	131	7.426	7.424	(1.013)	140602	53.2743	53.3
62 Ethylbenzene	106	7.457	7.455	(1.018)	166206	45.4895	45.5
63 m&p-Xylene	106	7.555	7.553	(1.031)	413063	96.0609	96.1
65 o-Xylene	106	7.870	7.869	(1.074)	219526	49.6735	49.7
66 Styrene	104	7.881	7.879	(1.075)	367087	49.5794	49.6
67 Bromoform	173	8.015	8.013	(0.884)	104405	51.3617	51.4
68 Isopropylbenzene	105	8.155	8.153	(1.113)	473839	43.4434	43.4
69 trans-1,4-Dichloro-2-butene	53	8.418	8.422	(1.149)	181705	174.283	174 (Q)
142 n-amyl acetate	70	8.263	8.256	(1.128)	1327		(Q)
\$ 70 4-Bromofluorobenzene	95	8.263	8.261	(1.128)	156769	51.2371	51.2

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====	
71 Bromobenzene	77	8.367	8.365	{1.142}	218903	54.5023	54.5	
72 1,1,2,2-Tetrachloroethane	63	8.382	8.380	{0.924}	173972	55.5661	55.6	
73 1,2,3-Trichloropropane	75	8.418	8.401	{0.928}	352930	105.663	106	
74 n-Propylbenzene	91	8.460	8.458	{0.933}	514092	49.4112	49.4	
75 2-Chlorotoluene	91	8.511	8.510	{0.938}	351675	51.5321	51.5	
77 1,3,5-Trimethylbenzene	105	8.584	8.582	{0.946}	360286	44.9828	45.0	
76 4-Chlorotoluene	126	8.589	8.587	{0.947}	120469	43.1544	43.2	
78 tert-Butylbenzene	119	8.806	8.804	{0.971}	359195	37.6244	37.6	
79 1,2,4-Trimethylbenzene	105	8.842	8.840	{0.975}	374103	51.1724	51.2	
80 sec-Butylbenzene	105	8.956	8.954	{0.987}	408952	44.4886	44.5	
81 1,3-Dichlorobenzene	146	9.028	9.026	{0.995}	229143	47.6123	47.6	
83 p-Isopropyltoluene	119	9.054	9.052	{0.998}	340724	43.3842	43.4	
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.068	{1.000}	145577	50.0000		
84 1,4-Dichlorobenzene	146	9.085	9.083	{1.002}	234415	47.4613	47.5	
86 n-Butylbenzene	91	9.323	9.321	{1.028}	265472	44.1168	44.1	
85 1,2-Dichlorobenzene	146	9.333	9.331	{1.029}	225284	47.5882	47.6	
87 1,2-Dibromo-3-chloropropane	155	9.824	9.822	{1.083}	26837	49.1250	49.1	
88 1,2,4-Trichlorobenzene	180	10.336	10.334	{1.140}	106916	43.0344	43.0	
89 Hexachlorobutadiene	225	10.434	10.432	{1.150}	26238	36.2863	36.3	
90 Naphthalene	128	10.486	10.484	{1.156}	315297	48.9379	48.9	
91 1,2,3-Trichlorobenzene	180	10.630	10.629	{1.172}	91492	44.6388	44.6	
92 2-methyl-naphthalene	142	11.158	11.156	{1.230}	75284	43.2531	43.2	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C05.D
 Lab Smp Id: 437667
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: ms5037756012
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	433417	-5.10
59 Chlorobenzene-d5	337893	168947	675786	330789	-2.10
82 1,4-Dichlorobenze	147661	73831	295322	145577	-1.41

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.17
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.02
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: A052610.b
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: 437667 Client Smp ID: ms5037756012
 Level: LOW Operator: jlf
 Data Type: MS DATA SampleType: MS
 SpikeList File: 8260MS.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	49.1	98.21	30-163
2 Chloromethane	50.0	47.0	94.08	36-136
3 Vinyl Chloride	50.0	57.7	115.43	51-144
4 Bromomethane	50.0	47.1	94.19	30-170
5 Chloroethane	50.0	55.2	110.35	54-157
6 Trichlorofluoromet	50.0	52.8	105.51	53-162
28 1,2-dichlorotriflu	50.0	53.0	105.93	50-150
7 Diethyl ether	50.0	51.0	101.98	70-130
8 Acrolein	1000	1290	128.62	30-170
9 1,1-Dichloroethene	50.0	57.5	115.05	55-140
10 1,1,2trichlorotrif	50.0	41.6	83.16	50-150
11 Acetone	250	292	117.02	30-170
12 Iodomethane	100	93.8	93.85	28-168
13 Carbon Disulfide	100	141	141.19	46-162
138 Methyl Acetate	50.0	58.5	117.02	40-182
14 allyl chloride	100	108	107.51	39-155
15 Methylene Chloride	50.0	56.5	113.08	46-154
16 Acrylonitrile	1000	1290	129.19	66-137
27 Propionitrile	50.0	50.6	101.15	50-150
17 tert-Butyl Alcohol	100	108	108.34	50-150
18 1,2-Dichloroethene	50.0	59.2	118.33	60-137
19 Methyl-tert-butyl	100	104	104.22	52-156
20 n-Hexane	50.0	42.8	85.61	32-176
21 1,1-Dichloroethane	50.0	56.2	112.40	68-139
23 Vinyl Acetate	200	138	69.00	24-132
25 1,2-Dichloroethene	50.0	62.1	124.17	65-132
24 2,2-Dichloropropan	50.0	39.2	78.32	35-157
26 2-Butanone	250	279	111.50	62-132
29 Bromochloromethane	50.0	78.0	156.07	65-157
30 Tetrahydrofuran	50.0	50.9	101.73	50-150
31 Chloroform	50.0	54.4	108.81	67-134
33 1,1,1-Trichloroeth	50.0	54.3	108.57	64-143
34 cyclohexane	50.0	41.4	82.76	39-167
37 Isobutyl alcohol	50.0	54.2	108.31	50-150
36 1,1-Dichloropropen	50.0	53.4	106.86	66-140
35 Carbon Tetrachlori	50.0	52.9	105.89	54-145
38 Benzene	50.0	52.5	105.01	63-141
39 1,2-Dichloroethane	50.0	56.6	113.28	63-148
41 Trichloroethene	50.0	157	313.74*	61-137
139 Methylcyclohexane	50.0	36.9	73.81	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	56.8	113.65	70-136
43 Dibromomethane	50.0	56.9	113.79	67-144
44 Methyl methacrylat	200	219	109.71	50-150
45 Bromodichlorometha	50.0	57.6	115.17	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	55.6	111.15	46-121
48 4-Methyl-2-Pentano	250	307	122.90	57-135
50 Toluene	50.0	48.2	96.42	59-142
51 trans-1,3-Dichloro	50.0	50.4	100.81	43-117
52 Ethyl Methacrylate	200	208	104.01	52-140
53 1,1,2-Trichloroeth	50.0	58.1	116.14	71-143
54 Tetrachloroethene	50.0	43.2	86.33	25-146
55 1,3-Dichloropropan	50.0	54.0	108.05	65-133
56 2-Hexanone	250	272	108.81	61-141
57 Dibromochlorometha	50.0	57.8	115.55	64-124
58 1,2-Dibromoethane	50.0	52.3	104.67	67-134
60 Chlorobenzene	50.0	47.8	95.59	56-133
61 1,1,1,2-Tetrachlor	50.0	53.3	106.55	55-131
62 Ethylbenzene	50.0	45.5	90.98	44-151
63 m&p-Xylene	100	96.1	96.06	41-153
65 o-Xylene	50.0	49.7	99.35	52-139
66 Styrene	50.0	49.6	99.16	38-141
67 Bromoform	50.0	51.4	102.72	58-124
68 Isopropylbenzene	50.0	43.4	86.89	40-148
69 trans-1,4-Dichloro	200	174	87.14	44-139
72 1,1,2,2-Tetrachlor	50.0	55.6	111.13	64-142
71 Bromobenzene	50.0	54.5	109.00	57-128
73 1,2,3-Trichloropro	100	106	105.66	33-140
74 n-Propylbenzene	50.0	49.4	98.82	40-148
75 2-Chlorotoluene	50.0	51.5	103.06	44-143
76 4-Chlorotoluene	50.0	43.2	86.31	43-140
77 1,3,5-Trimethylben	50.0	45.0	89.97	39-145
78 tert-Butylbenzene	50.0	37.6	75.25	32-133
79 1,2,4-Trimethylben	50.0	51.2	102.34	39-146
80 sec-Butylbenzene	50.0	44.5	88.98	38-150
81 1,3-Dichlorobenzen	50.0	47.6	95.22	40-143
83 p-Isopropyltoluene	50.0	43.4	86.77	34-146
84 1,4-Dichlorobenzen	50.0	47.5	94.92	38-142
86 n-Butylbenzene	50.0	44.1	88.23	27-153
85 1,2-Dichlorobenzen	50.0	47.6	95.18	48-137
88 1,2,4-Trichloroben	50.0	43.0	86.07	39-146
91 1,2,3-Trichloroben	50.0	44.6	89.28	33-140
87 1,2-Dibromo-3-chlo	50.0	49.1	98.25	39-140
89 Hexachlorobutadien	50.0	36.3	72.57	30-145
90 Naphthalene	50.0	48.9	97.88	44-138
92 2-methyl-naphthale	50.0	43.2	86.51	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.1	104.21	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 49 Toluene-d8	50.0	49.8	99.71	80-120
\$ 70 4-Bromofluorobenze	50.0	51.2	102.47	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437667
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: MS5037756012
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	49.1	
74-87-3	Chloromethane	47.0	
75-01-4	Vinyl Chloride	57.7	
74-83-9	Bromomethane	47.1	
75-00-3	Chloroethane	55.2	
75-69-4	Trichlorofluoromethane	52.8	
354-23-4	1,2-dichlorotrifluoroethane	53.0	
60-29-7	Diethyl ether	51.0	
75-65-0	tert-Butyl Alcohol	108	
107-02-8	Acrolein	1290	
76-13-1	1,1,2trichlorotrifluoroethane	41.6	
75-35-4	1,1-Dichloroethene	57.5	
67-64-1	Acetone	292	
	Iodomethane	93.8	
75-15-0	Carbon Disulfide	141	
107-05-1	allyl chloride	108	
75-05-8	Acetonitrile	1080	
79-20-9	Methyl Acetate	58.5	
75-09-2	Methylene Chloride	56.5	
107-13-1	Acrylonitrile	1290	
1634-04-4	Methyl-tert-butyl ether	104	
156-60-5	1,2-Dichloroethene (trans)	59.2	
	n-Hexane	42.8	
75-34-3	1,1-Dichloroethane	56.2	
108-05-4	Vinyl Acetate	138	
141-78-6	Ethyl acetate	542	
126-99-8	Chloroprene	53.9	
594-20-7	2,2-Dichloropropane	39.2	
156-59-2	1,2-Dichloroethene (cis)	62.1	
78-93-3	2-Butanone	279	
107-12-0	Propionitrile	50.6	
74-97-5	Bromochloromethane	78.0	
126-98-7	Methacrylonitrile	388	
67-66-3	Chloroform	54.4	
71-55-6	1,1,1-Trichloroethane	54.3	
	Tetrahydrofuran	50.9	
110-82-7	cyclohexane	41.4	
78-83-1	Isobutyl alcohol	54.2	
56-23-5	Carbon Tetrachloride	52.9	
563-58-6	1,1-Dichloropropene	53.4	
71-43-2	Benzene	52.5	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437667
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: MS5037756012
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	56.6	
79-01-6	Trichloroethene	157	
108-87-2	Methylcyclohexane	36.9	
78-87-5	1,2-Dichloropropane	56.8	
74-95-3	Dibromomethane	56.9	
80-62-6	Methyl methacrylate	219	
540-84-1	2,2,4-Trimethylpentane	33.8	
	1,4-Dioxane	828	
75-27-4	Bromodichloromethane	57.6	
10061-01-5	cis-1,3-Dichloropropene	55.6	
108-10-1	4-Methyl-2-Pentanone	307	
108-88-3	Toluene	48.2	
10061-02-6	trans-1,3-Dichloropropene	50.4	
	Ethyl Methacrylate	208	
79-00-5	1,1,2-Trichloroethane	58.1	
127-18-4	Tetrachloroethene	43.2	
142-28-9	1,3-Dichloropropane	54.0	
591-78-6	2-Hexanone	272	
124-48-1	Dibromochloromethane	57.8	
106-93-4	1,2-Dibromoethane	52.3	
108-90-7	Chlorobenzene	47.8	
630-20-6	1,1,1,2-Tetrachloroethane	53.3	
100-41-4	Ethylbenzene	45.5	
7816-60-0	m&p-Xylene	96.1	
95-47-6	o-Xylene	49.7	
100-42-5	Styrene	49.6	
75-25-2	Bromoform	51.4	
98-82-8	Isopropylbenzene	43.4	
	trans-1,4-Dichloro-2-butene	174	
628-63-7	n-amyl acetate	0.000	
108-86-1	Bromobenzene	54.5	
79-34-5	1,1,2,2-Tetrachloroethane	55.6	
96-18-4	1,2,3-Trichloropropane	106	
103-65-1	n-Propylbenzene	49.4	
95-49-8	2-Chlorotoluene	51.5	
108-67-8	1,3,5-Trimethylbenzene	45.0	
106-43-4	4-Chlorotoluene	43.2	
98-06-6	tert-Butylbenzene	37.6	
95-63-6	1,2,4-Trimethylbenzene	51.2	
135-98-8	sec-Butylbenzene	44.5	
541-73-1	1,3-Dichlorobenzene	47.6	
99-87-6	p-Isopropyltoluene	43.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

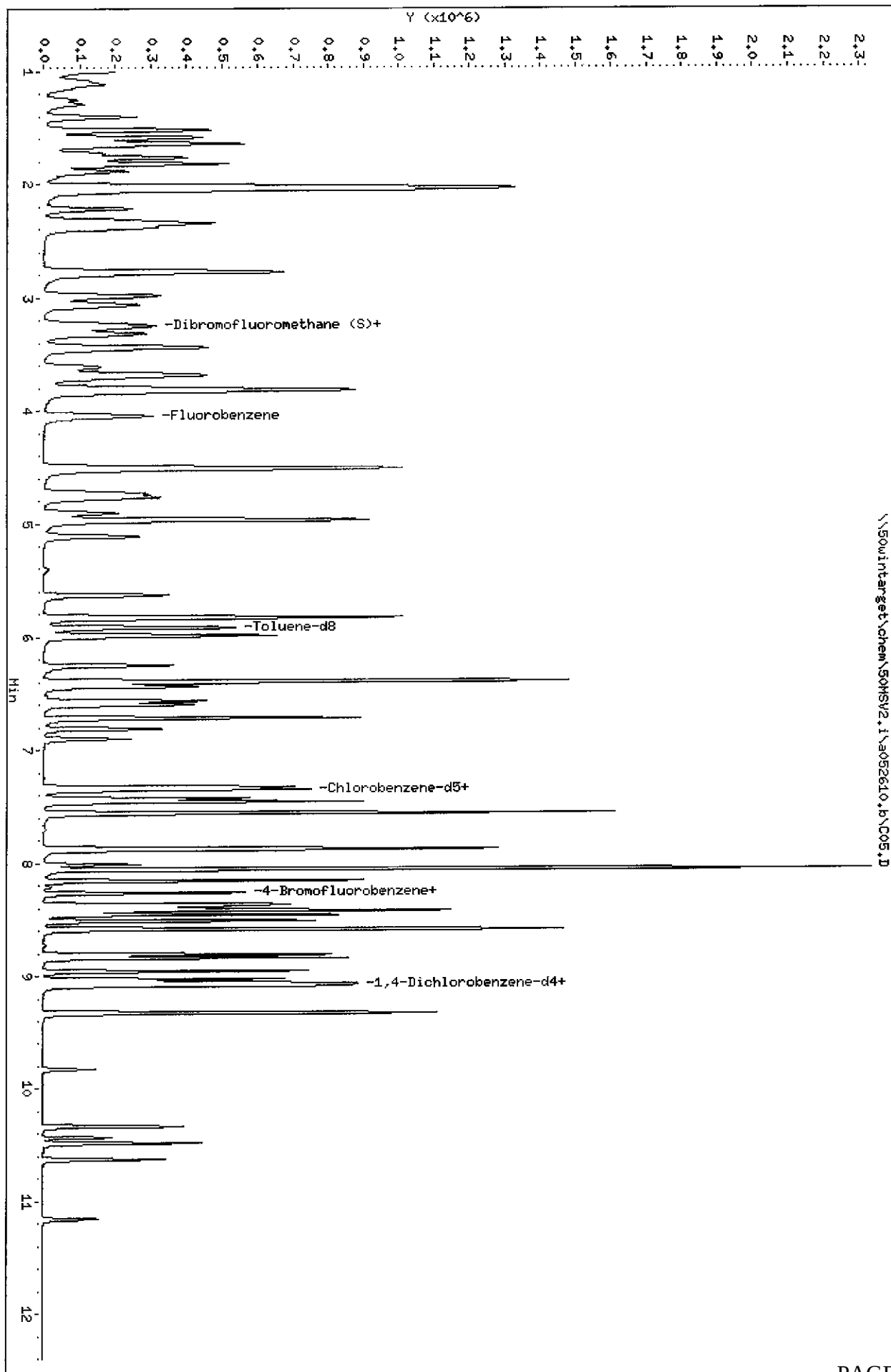
Client Name:
Lab Smp Id: 437667
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: ms5037756012
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
106-46-7-----	1,4-Dichlorobenzene	47.5	
104-51-8-----	n-Butylbenzene	44.1	
95-50-1-----	1,2-Dichlorobenzene	47.6	
96-12-8-----	1,2-Dibromo-3-chloropropane	49.1	
120-82-1-----	1,2,4-Trichlorobenzene	43.0	
87-68-3-----	Hexachlorobutadiene	36.3	
91-20-3-----	Naphthalene	48.9	
87-61-6-----	1,2,3-Trichlorobenzene	44.6	
-----	2,methyl-naphthalene	43.2	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	52.1	
2037-26-5-----	Toluene-d8	49.8	
460-00-4-----	4-Bromofluorobenzene	51.2	

Data File: \\Sowintarget\chem\50HSV2.i\A052610.b\CO5.D
Date: 27-MAY-2010 02:02
Client ID: ms5037756012
Sample Info: ms5037756012
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50HSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C06.D
 Lab Smp Id: 437668 Client Smp ID: msd5037756012
 Inj Date : 27-MAY-2010 02:36
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : msd5037756012
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 57 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
1 Dichlorodifluoromethane	85	49.1660	49.2	0.990	0.995 (0.244)		200896
2 Chloromethane	50	46.4996	46.5	1.083	1.082 (0.267)		178987
3 Vinyl Chloride	62	57.3821	57.4	1.119	1.113 (0.276)		182191
4 Bromomethane	94	50.5934	50.6	1.243	1.243 (0.307)		89621
5 Chloroethane	64	53.9785	54.0	1.114	1.108 (0.275)		56787
6 Trichlorofluoromethane	101	52.5737	52.6	1.398	1.393 (0.345)		223308
28 1,2-dichlorotrifluoroethane	67	52.0536	52.0	1.517	1.511 (0.375)		168793
7 Diethyl ether	74	51.5223	51.5	1.522	1.517 (0.376)		62653
17 tert-Butyl Alcohol	59	108.302	108 (M)	1.935	1.940 (0.478)		29482
8 Acrolein	56	1199.89	1200	1.584	1.579 (0.391)		449988
10 1,1,2trichlorotrifluoroethane	101	42.4393	42.4	1.631	1.625 (0.403)		113821
9 1,1-Dichloroethene	96	57.7823	57.8	1.641	1.630 (0.405)		133695
11 Acetone	43	293.603	294	1.656	1.656 (0.409)		176605
12 Iodomethane	142	106.142	106	1.724	1.718 (0.426)		313755
13 Carbon Disulfide	76	141.399	141	1.765	1.760 (0.436)		713697
14 allyl chloride	41	106.256	106	1.817	1.811 (0.449)		339736
145 Acetonitrile	41	1062.56	1060	1.817	1.811 (0.449)		339736
138 Methyl Acetate	43	58.7206	58.7	1.656	1.656 (0.409)		176605
15 Methylene Chloride	84	55.1097	55.1	1.884	1.878 (0.465)		127260
16 Acrylonitrile	53	1290.48	1290	2.018	2.013 (0.498)		1052102
19 Methyl-tert-butyl ether	73	103.673	104	2.044	2.039 (0.505)		696621
18 1,2-Dichloroethene (trans)	96	59.3455	59.3	2.044	2.039 (0.505)		138189
20 n-Hexane	57	41.6662	41.7	2.215	2.209 (0.547)		130965

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
21 1,1-Dichloroethane	63	2.313	2.313	{0.571}	257893	55.4064	55.4
23 Vinyl Acetate	43	2.344	2.338	{0.579}	642902	111.857	112
140 Ethyl acetate	88	2.385	2.380	{0.589}	121427	543.144	543 (Q)
147 Chloroprene	53	2.385	2.375	{0.589}	220670	54.1555	54.2
24 2,2-Dichloropropane	77	2.768	2.762	{0.683}	152143	37.8175	37.8
25 1,2-Dichloroethene (cis)	96	2.768	2.762	{0.683}	192527	61.9042	61.9
26 2-Butanone	43	2.778	2.773	{0.686}	364967	280.736	281
27 Propionitrile	54	2.840	2.829	{0.701}	21221	47.6156	47.6 (Q)
29 Bromochloromethane	49	2.985	2.974	{0.737}	151506	76.6504	76.6
146 Methacrylonitrile	41	2.969	2.969	{0.733}	134762	393.288	393
31 Chloroform	83	3.062	3.057	{0.756}	248537	53.6423	53.6
\$ 32 Dibromofluoromethane (S)	113	3.228	3.222	{0.797}	136987	51.6282	51.6
33 1,1,1-Trichloroethane	97	3.259	3.248	{0.805}	230598	54.9448	54.9
30 Tetrahydrofuran	42	3.042	3.041	{0.751}	50097	49.8901	49.9
34 cyclohexane	56	3.315	3.305	{0.819}	189367	40.9618	41.0
37 Isobutyl alcohol	43	2.778	2.773	{0.686}	364967	54.5569	54.6
35 Carbon Tetrachloride	117	3.439	3.429	{0.849}	195281	52.8227	52.8
36 1,1-Dichloropropene	75	3.434	3.429	{0.848}	178358	52.9142	52.9
38 Benzene	78	3.677	3.672	{0.908}	504254	52.6662	52.7
141 isopropyl acetate	61	3.822	3.830	{0.944}	271574		(Q)
39 1,2-Dichloroethane	62	3.703	3.693	{0.914}	191362	56.5105	56.5
* 40 Fluorobenzene	96	4.049	4.039	{1.000}	422544	50.0000	
41 Trichloroethene	95	4.509	4.504	{1.114}	436034	164.299	164 (R)
139 Methylcyclohexane	55	4.732	4.726	{1.168}	119681	35.9313	35.9
42 1,2-Dichloropropane	63	4.768	4.768	{1.177}	140177	57.1113	57.1
43 Dibromomethane	93	4.907	4.897	{1.212}	99430	57.4513	57.4
44 Methyl methacrylate	69	4.964	4.964	{1.226}	406031	219.622	220
143 2,2,4-Trimethylpentane	57	3.796	3.796	{0.937}	204005	32.2160	32.2
144 1,4-Dioxane	88	4.964	4.969	{1.226}	35137	838.382	838 (Q)
45 Bromodichloromethane	83	5.109	5.104	{1.262}	201161	58.0327	58.0
47 cis-1,3-Dichloropropene	75	5.631	5.626	{0.769}	222256	56.5507	56.6
48 4-Methyl-2-Pentanone	43	5.827	5.822	{0.795}	773673	310.256	310
\$ 49 Toluene-d8	98	5.915	5.910	{0.807}	370017	49.6459	49.6
50 Toluene	91	5.988	5.982	{0.817}	491388	48.9422	48.9
51 trans-1,3-Dichloropropene	75	6.251	6.246	{0.853}	200710	51.3922	51.4
52 Ethyl Methacrylate	69	6.391	6.385	{0.872}	752606	210.321	210
53 1,1,2-Trichloroethane	83	6.432	6.432	{0.878}	103113	57.8546	57.8
54 Tetrachloroethene	166	6.566	6.561	{0.896}	125437	43.5438	43.5
55 1,3-Dichloropropane	76	6.597	6.592	{0.901}	223997	53.7034	53.7
56 2-Hexanone	43	6.716	6.711	{0.917}	554655	274.166	274
57 Dibromochloromethane	129	6.809	6.809	{0.929}	165246	58.2762	58.3
58 1,2-Dibromoethane	107	6.897	6.897	{0.941}	149026	53.4659	53.5
* 59 Chlorobenzene-d5	117	7.326	7.326	{1.000}	319864	50.0000	
60 Chlorobenzene	112	7.352	7.347	{1.004}	331902	48.7213	48.7
61 1,1,1,2-Tetrachloroethane	131	7.430	7.424	{1.014}	137985	54.0685	54.1
62 Ethylbenzene	106	7.455	7.455	{1.018}	163550	46.2914	46.3
63 m&p-Xylene	106	7.559	7.553	{1.032}	416190	100.168	100
65 o-Xylene	106	7.869	7.869	{1.074}	217711	50.9454	50.9
66 Styrene	104	7.884	7.879	{1.076}	360452	50.3461	50.3
67 Bromoform	173	8.014	8.013	{0.883}	99871	51.5099	51.5
68 Isopropylbenzene	105	8.158	8.153	{1.114}	470980	44.6561	44.6
69 trans-1,4-Dichloro-2-butene	53	8.422	8.422	{1.150}	178263	176.821	177 (Q)
142 n-amyl acetate	70	8.262	8.256	{1.128}	1067		
\$ 70 4-Bromofluorobenzene	95	8.262	8.261	{1.128}	152408	51.5131	51.5

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====
71 Bromobenzene	77	8.365	8.365	(1.142)	218543	56.4416	56.4
72 1,1,2,2-Tetrachloroethane	83	8.381	8.380	(0.924)	171627	57.4725	57.5
73 1,2,3-Trichloropropane	75	8.422	8.401	(0.928)	346784	109.004	109
74 n-Propylbenzene	91	8.458	8.458	(0.932)	510473	51.6470	51.6
75 2-Chlorotoluene	91	8.510	8.510	(0.938)	352585	54.3848	54.4
77 1,3,5-Trimethylbenzene	105	8.587	8.582	(0.946)	360049	47.1307	47.1
76 4-Chlorotoluene	126	8.592	8.587	(0.947)	119364	44.8298	44.8
78 tert-Butylbenzene	119	8.810	8.804	(0.971)	313078	34.3824	34.4
79 1,2,4-Trimethylbenzene	105	8.841	8.840	(0.974)	369241	53.0813	53.1
80 sec-Butylbenzene	105	8.959	8.954	(0.987)	409775	46.9029	46.9
81 1,3-Dichlorobenzene	146	9.027	9.026	(0.995)	231996	50.5995	50.6
83 p-Isopropyltoluene	119	9.058	9.052	(0.998)	340223	45.5052	45.5
* 82 1,4-Dichlorobenzene-d4	152	9.073	9.068	(1.000)	138851	50.0000	
84 1,4-Dichlorobenzene	146	9.089	9.083	(1.002)	232833	49.4591	49.4
86 n-Butylbenzene	91	9.321	9.321	(1.027)	262446	45.8960	45.9
85 1,2-Dichlorobenzene	146	9.332	9.331	(1.028)	224509	49.7217	49.7
87 1,2-Dibromo-3-chloropropane	155	9.828	9.822	(1.083)	27171	52.1176	52.1
88 1,2,4-Trichlorobenzene	180	10.334	10.334	(1.139)	107602	45.4554	45.4
89 Hexachlorobutadiene	225	10.432	10.432	(1.150)	25868	37.5086	37.5
90 Naphthalene	128	10.484	10.484	(1.156)	319268	51.9547	52.0
91 1,2,3-Trichlorobenzene	180	10.629	10.629	(1.171)	91765	46.9423	46.9
92 2-methyl-naphthalene	142	11.156	11.156	(1.230)	88005	51.8789	51.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C06.D
 Lab Smp Id: 437668
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: msd5037756012
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	422544	-7.49
59 Chlorobenzene-d5	337893	168947	675786	319864	-5.34
82 1,4-Dichlorobenze	147661	73831	295322	138851	-5.97

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.26
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.00
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: A052610.b
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: 437668 Client Smp ID: msd5037756012
 Level: LOW Operator: jlf
 Data Type: MS DATA SampleType: MSD
 SpikeList File: 8260MS.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	49.2	98.37	30-163
2 Chloromethane	50.0	46.5	93.00	36-136
3 Vinyl Chloride	50.0	57.4	114.76	51-144
4 Bromomethane	50.0	50.6	101.19	30-170
5 Chloroethane	50.0	54.0	107.96	54-157
6 Trichlorofluoromet	50.0	52.6	105.15	53-162
28 1,2-dichlorotriflu	50.0	52.0	104.11	50-150
7 Diethyl ether	50.0	51.5	103.04	70-130
8 Acrolein	1000	1200	119.99	30-170
9 1,1-Dichloroethene	50.0	57.8	115.56	55-140
10 1,1,2trichlorotrif	50.0	42.4	84.88	50-150
11 Acetone	250	294	117.44	30-170
12 Iodomethane	100	106	106.14	28-168
13 Carbon Disulfide	100	141	141.40	46-162
138 Methyl Acetate	50.0	58.7	117.44	40-182
14 allyl chloride	100	106	106.26	39-155
15 Methylene Chloride	50.0	55.1	110.22	46-154
16 Acrylonitrile	1000	1290	129.05	66-137
27 Propionitrile	50.0	47.6	95.23	50-150
17 tert-Butyl Alcohol	100	108	108.30	50-150
18 1,2-Dichloroethene	50.0	59.3	118.69	60-137
19 Methyl-tert-butyl	100	104	103.67	52-156
20 n-Hexane	50.0	41.7	83.33	32-176
21 1,1-Dichloroethane	50.0	55.4	110.81	68-139
23 Vinyl Acetate	200	112	55.93	24-132
25 1,2-Dichloroethene	50.0	61.9	123.81	65-132
24 2,2-Dichloropropan	50.0	37.8	75.63	35-157
26 2-Butanone	250	281	112.29	62-132
29 Bromochloromethane	50.0	76.6	153.30	65-157
30 Tetrahydrofuran	50.0	49.9	99.78	50-150
31 Chloroform	50.0	53.6	107.28	67-134
33 1,1,1-Trichloroeth	50.0	54.9	109.89	64-143
34 cyclohexane	50.0	41.0	81.92	39-167
37 Isobutyl alcohol	50.0	54.6	109.11	50-150
36 1,1-Dichloropropen	50.0	52.9	105.83	66-140
35 Carbon Tetrachlori	50.0	52.8	105.65	54-145
38 Benzene	50.0	52.7	105.33	63-141
39 1,2-Dichloroethane	50.0	56.5	113.02	63-148
41 Trichloroethene	50.0	164	328.60*	61-137
139 Methylcyclohexane	50.0	35.9	71.86	44-158

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	57.1	114.22	70-136
43 Dibromomethane	50.0	57.4	114.90	67-144
44 Methyl methacrylat	200	220	109.81	50-150
45 Bromodichlorometha	50.0	58.0	116.07	63-135
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	56.6	113.10	46-121
48 4-Methyl-2-Pentano	250	310	124.10	57-135
50 Toluene	50.0	48.9	97.88	59-142
51 trans-1,3-Dichloro	50.0	51.4	102.78	43-117
52 Ethyl Methacrylate	200	210	105.16	52-140
53 1,1,2-Trichloroeth	50.0	57.8	115.71	71-143
54 Tetrachloroethene	50.0	43.5	87.09	25-146
55 1,3-Dichloropropan	50.0	53.7	107.41	65-133
56 2-Hexanone	250	274	109.67	61-141
57 Dibromochlorometha	50.0	58.3	116.55	64-124
58 1,2-Dibromoethane	50.0	53.5	106.93	67-134
60 Chlorobenzene	50.0	48.7	97.44	56-133
61 1,1,1,2-Tetrachlor	50.0	54.1	108.14	55-131
62 Ethylbenzene	50.0	46.3	92.58	44-151
63 m&p-Xylene	100	100	100.17	41-153
65 o-Xylene	50.0	50.9	101.89	52-139
66 Styrene	50.0	50.3	100.69	38-141
67 Bromoform	50.0	51.5	103.02	58-124
68 Isopropylbenzene	50.0	44.6	89.31	40-148
69 trans-1,4-Dichloro	200	177	88.41	44-139
72 1,1,2,2-Tetrachlor	50.0	57.5	114.94	64-142
71 Bromobenzene	50.0	56.4	112.88	57-128
73 1,2,3-Trichloropro	100	109	109.00	33-140
74 n-Propylbenzene	50.0	51.6	103.29	40-148
75 2-Chlorotoluene	50.0	54.4	108.77	44-143
76 4-Chlorotoluene	50.0	44.8	89.66	43-140
77 1,3,5-Trimethylben	50.0	47.1	94.26	39-145
78 tert-Butylbenzene	50.0	34.4	68.76	32-133
79 1,2,4-Trimethylben	50.0	53.1	106.16	39-146
80 sec-Butylbenzene	50.0	46.9	93.81	38-150
81 1,3-Dichlorobenzen	50.0	50.6	101.20	40-143
83 p-Isopropyltoluene	50.0	45.5	91.01	34-146
84 1,4-Dichlorobenzen	50.0	49.4	98.92	38-142
86 n-Butylbenzene	50.0	45.9	91.79	27-153
85 1,2-Dichlorobenzen	50.0	49.7	99.44	48-137
88 1,2,4-Trichloroben	50.0	45.4	90.91	39-146
91 1,2,3-Trichloroben	50.0	46.9	93.88	33-140
87 1,2-Dibromo-3-chlo	50.0	52.1	104.24	39-140
89 Hexachlorobutadien	50.0	37.5	75.02	30-145
90 Naphthalene	50.0	52.0	103.91	44-138
92 2-methyl-naphthale	50.0	51.9	103.76	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.6	103.26	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 49 Toluene-d8	50.0	49.6	99.29	80-120
\$ 70 4-Bromofluorobenze	50.0	51.5	103.03	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437668
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: MSD5037756012
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	49.2	
74-87-3	Chloromethane	46.5	
75-01-4	Vinyl Chloride	57.4	
74-83-9	Bromomethane	50.6	
75-00-3	Chloroethane	54.0	
75-69-4	Trichlorofluoromethane	52.6	
354-23-4	1,2-dichlorotrifluoroethane	52.0	
60-29-7	Diethyl ether	51.5	
75-65-0	tert-Butyl Alcohol	108	
107-02-8	Acrolein	1200	
76-13-1	1,1,2trichlorotrifluoroethane	42.4	
75-35-4	1,1-Dichloroethene	57.8	
67-64-1	Acetone	294	
	Iodomethane	106	
75-15-0	Carbon Disulfide	141	
107-05-1	allyl chloride	106	
75-05-8	Acetonitrile	1060	
79-20-9	Methyl Acetate	58.7	
75-09-2	Methylene Chloride	55.1	
107-13-1	Acrylonitrile	1290	
1634-04-4	Methyl-tert-butyl ether	104	
156-60-5	1,2-Dichloroethene (trans)	59.3	
	n-Hexane	41.7	
75-34-3	1,1-Dichloroethane	55.4	
108-05-4	Vinyl Acetate	112	
141-78-6	Ethyl acetate	543	
126-99-8	Chloroprene	54.2	
594-20-7	2,2-Dichloropropane	37.8	
156-59-2	1,2-Dichloroethene (cis)	61.9	
78-93-3	2-Butanone	281	
107-12-0	Propionitrile	47.6	
74-97-5	Bromochloromethane	76.6	
126-98-7	Methacrylonitrile	393	
67-66-3	Chloroform	53.6	
71-55-6	1,1,1-Trichloroethane	54.9	
	Tetrahydrofuran	49.9	
110-82-7	cyclohexane	41.0	
78-83-1	Isobutyl alcohol	54.6	
56-23-5	Carbon Tetrachloride	52.8	
563-58-6	1,1-Dichloropropene	52.9	
71-43-2	Benzene	52.7	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437668
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: MSD5037756012
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	56.5	
79-01-6	Trichloroethene	164	
108-87-2	Methylcyclohexane	35.9	
78-87-5	1,2-Dichloropropane	57.1	
74-95-3	Dibromomethane	57.4	
80-62-6	Methyl methacrylate	220	
540-84-1	2,2,4-Trimethylpentane	32.2	
	1,4-Dioxane	838	
75-27-4	Bromodichloromethane	58.0	
10061-01-5	cis-1,3-Dichloropropene	56.6	
108-10-1	4-Methyl-2-Pentanone	310	
108-88-3	Toluene	48.9	
10061-02-6	trans-1,3-Dichloropropene	51.4	
	Ethyl Methacrylate	210	
79-00-5	1,1,2-Trichloroethane	57.8	
127-18-4	Tetrachloroethene	43.5	
142-28-9	1,3-Dichloropropane	53.7	
591-78-6	2-Hexanone	274	
124-48-1	Dibromochloromethane	58.3	
106-93-4	1,2-Dibromoethane	53.5	
108-90-7	Chlorobenzene	48.7	
630-20-6	1,1,1,2-Tetrachloroethane	54.1	
100-41-4	Ethylbenzene	46.3	
7816-60-0	m&p-Xylene	100	
95-47-6	o-Xylene	50.9	
100-42-5	Styrene	50.3	
75-25-2	Bromoform	51.5	
98-82-8	Isopropylbenzene	44.6	
	trans-1,4-Dichloro-2-butene	177	
628-63-7	n-amyl acetate	0.000	
108-86-1	Bromobenzene	56.4	
79-34-5	1,1,2,2-Tetrachloroethane	57.5	
96-18-4	1,2,3-Trichloropropane	109	
103-65-1	n-Propylbenzene	51.6	
95-49-8	2-Chlorotoluene	54.4	
108-67-8	1,3,5-Trimethylbenzene	47.1	
106-43-4	4-Chlorotoluene	44.8	
98-06-6	tert-Butylbenzene	34.4	
95-63-6	1,2,4-Trimethylbenzene	53.1	
135-98-8	sec-Butylbenzene	46.9	
541-73-1	1,3-Dichlorobenzene	50.6	
99-87-6	p-Isopropyltoluene	45.5	

Pace Analytical Services, Inc.

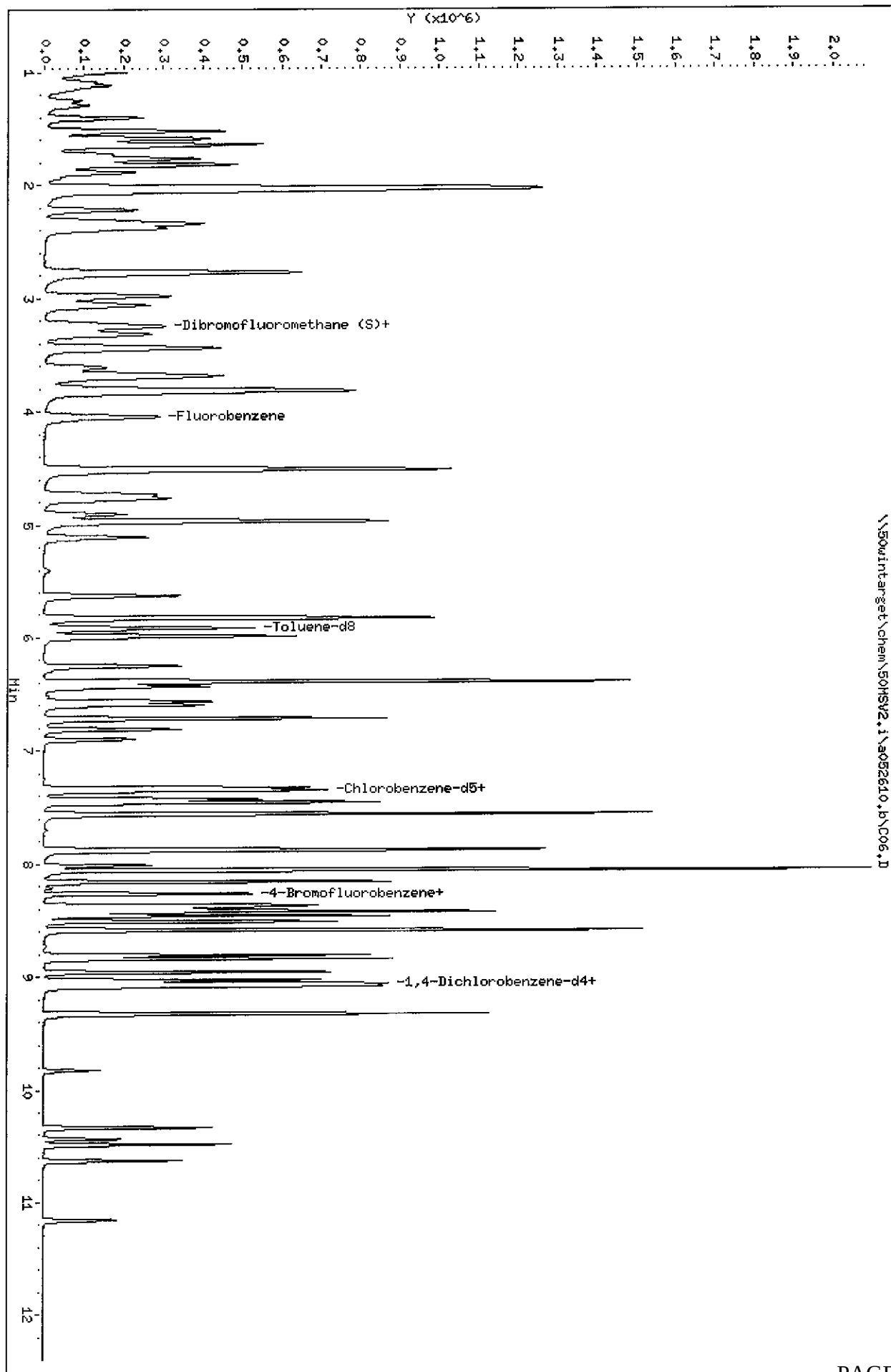
TARGET COMPOUNDS

Client Name:	Client SDG: A052610.b
Lab Smp Id: 437668	Client Smp ID: MSD5037756012
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
106-46-7-----	1,4-Dichlorobenzene	49.4	
104-51-8-----	n-Butylbenzene	45.9	
95-50-1-----	1,2-Dichlorobenzene	49.7	
96-12-8-----	1,2-Dibromo-3-chloropropane	52.1	
120-82-1-----	1,2,4-Trichlorobenzene	45.4	
87-68-3-----	Hexachlorobutadiene	37.5	
91-20-3-----	Naphthalene	52.0	
87-61-6-----	1,2,3-Trichlorobenzene	46.9	
-----	2,methyl-naphthalene	51.9	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.6	
2037-26-5-----	Toluene-d8	49.6	
460-00-4-----	4-Bromofluorobenzene	51.5	

Data File: \\50wintarget\chem\50HSV2.i\A052610.b\CO6.D
 Date : 27-MAY-2010 02:36
 Client ID: msd5037756012
 Sample Info: msd5037756012
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: 50HSV2.i
 Operator: jlf
 Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052710.b\A02LCS.D
 Lab Smp Id: lcs 34B-009 Client Smp ID: lcs
 Inj Date : 27-MAY-2010 12:36
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : lcs 34B-009
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
 Meth Date : 28-May-2010 11:17 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 5 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85		0.991	1.012	(0.245)		259090	56.0355	56.0
2 Chloromethane	50		1.078	1.094	(0.267)		193418	44.3882	44.4
3 Vinyl Chloride	62		1.115	1.130	(0.276)		197309	54.8958	54.9
4 Bromomethane	94		1.239	1.265	(0.307)		96539	48.0466	48.0
5 Chloroethane	64		1.115	1.136	(0.276)		62190	52.2002	52.2
6 Trichlorofluoromethane	101		1.394	1.415	(0.345)		247640	51.5024	51.5
28 1,2-dichlorotrifluoroethane	67		1.513	1.534	(0.374)		188187	51.2658	51.3
7 Diethyl ether	74		1.518	1.534	(0.376)		73141	53.1321	53.1
17 tert-Butyl Alcohol	59		1.942	1.963	(0.481)		43974	142.697	143 (QM)
8 Acrolein	56		1.580	1.601	(0.391)		703397	1656.85	1660
10 1,1,2trichlorotrifluoroethane	101		1.626	1.647	(0.403)		150997	49.7344	49.7
9 1,1-Dichloroethene	96		1.631	1.658	(0.404)		151114	57.6935	57.7
11 Acetone	43		1.652	1.678	(0.409)		223377	331.840	332
12 Iodomethane	142		1.719	1.740	(0.426)		234296	71.7287	71.7
13 Carbon Disulfide	76		1.756	1.782	(0.435)		787534	137.650	138
14 allyl chloride	41		1.812	1.833	(0.449)		373548	102.972	103
145 Acetonitrile	41		1.812	1.833	(0.449)		373548	1029.72	1030
138 Methyl Acetate	43		1.652	1.678	(0.409)		223377	66.3680	66.4
15 Methylene Chloride	84		1.880	1.906	(0.465)		151703	58.2707	58.3
16 Acrylonitrile	53		2.014	2.040	(0.499)		1305686	1429.85	1430 (R)
19 Methyl-tert-butyl ether	73		2.040	2.066	(0.505)		799149	105.060	105
18 1,2-Dichloroethene (trans)	96		2.040	2.061	(0.505)		147895	56.1169	56.1
20 n-Hexane	57		2.210	2.236	(0.547)		192533	54.1098	54.1

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====	=====	
21 1,1-Dichloroethane	63		2.309	2.340	{0.571}	281273	53.3815	53.4	
23 Vinyl Acetate	43		2.340	2.366	{0.579}	1183507	201.901	202	
140 Ethyl acetate	88		2.381	2.407	{0.589}	132319	522.835	523 (Q)	
147 Chloroprene	53		2.376	2.407	{0.588}	241547	52.3653	52.4	
24 2,2-Dichloropropane	77		2.763	2.789	{0.684}	223903	49.1635	49.2	
25 1,2-Dichloroethene (cis)	96		2.763	2.795	{0.684}	188776	53.6189	53.6	
26 2-Butanone	43		2.779	2.805	{0.688}	484930	335.140	335	
27 Propionitrile	54		2.825	2.862	{0.699}	28005	55.5087	55.5 (Q)	
29 Bromochloromethane	49		2.975	3.012	{0.736}	166225	74.0529	74.0	
146 Methacrylonitrile	41		2.970	2.996	{0.735}	176560	458.081	458	
31 Chloroform	83		3.058	3.089	{0.757}	276140	52.6488	52.6	
\$ 32 Dibromofluoromethane (S)	113		3.218	3.255	{0.797}	152730	50.8481	50.8	
33 1,1,1-Trichloroethane	97		3.249	3.286	{0.804}	248291	52.2607	52.3	
30 Tetrahydrofuran	42		3.037	3.069	{0.752}	76697	72.7262	72.7	
34 cyclohexane	56		3.306	3.348	{0.818}	254250	48.5823	48.6	
37 Isobutyl alcohol	43		2.779	2.805	{0.688}	484930	65.5520	65.6	
35 Carbon Tetrachloride	117		3.425	3.472	{0.848}	217775	52.0368	52.0	
36 1,1-Dichloropropene	75		3.430	3.467	{0.849}	203712	53.3874	53.4	
38 Benzene	78		3.673	3.709	{0.909}	560222	51.6874	51.7	
141 isopropyl acetate	61		3.813	3.830	{0.944}	398008		(Q)	
39 1,2-Dichloroethane	62		3.699	3.730	{0.916}	215338	56.1742	56.2	
* 40 Fluorobenzene	96		4.040	4.076	{1.000}	478332	50.0000		
41 Trichloroethene	95		4.505	4.536	{1.115}	159384	53.0519	53.0	
139 Methylcyclohexane	55		4.727	4.759	{1.170}	172471	45.7411	45.7	
42 1,2-Dichloropropane	63		4.764	4.795	{1.179}	157031	56.5162	56.5	
43 Dibromomethane	93		4.898	4.929	{1.212}	109787	55.9988	56.0	
44 Methyl methacrylate	69		4.960	4.991	{1.228}	497077	237.688	238	
143 2,2,4-Trimethylpentane	57		3.797	3.834	{0.940}	315767	44.6740	44.7	
144 1,4-Dioxane	88		4.960	5.002	{1.228}	48814	1019.70	1020 (Q)	
45 Bromodichloromethane	83		5.105	5.136	{1.264}	224777	57.2827	57.3	
46 2-Chloroethyl vinyl ether	63		5.487	5.518	{0.749}	95877	44.3694	44.4	
47 cis-1,3-Dichloropropene	75		5.622	5.653	{0.768}	253140	58.3381	58.3	
48 4-Methyl-2-Pentanone	43		5.823	5.849	{0.795}	980196	360.599	360 (R)	
\$ 49 Toluene-d8	98		5.911	5.937	{0.807}	409199	49.6334	49.6	
50 Toluene	91		5.983	6.009	{0.817}	555032	49.9752	50.0	
51 trans-1,3-Dichloropropene	75		6.247	6.273	{0.853}	237338	54.9381	54.9	
52 Ethyl Methacrylate	69		6.386	6.413	{0.872}	885955	223.823	224	
53 1,1,2-Trichloroethane	83		6.428	6.454	{0.878}	117560	59.7304	59.7	
54 Tetrachloroethene	166		6.562	6.583	{0.896}	150675	47.2846	47.3	
55 1,3-Dichloropropane	76		6.593	6.619	{0.900}	258456	56.0176	56.0	
56 2-Hexanone	43		6.712	6.733	{0.917}	715389	319.676	320	
57 Dibromochloromethane	129		6.805	6.831	{0.929}	185788	59.2319	59.2	
58 1,2-Dibromoethane	107		6.898	6.919	{0.942}	172831	56.0550	56.0	
* 59 Chlorobenzene-d5	117		7.322	7.343	{1.000}	353824	50.0000		
60 Chlorobenzene	112		7.348	7.369	{1.004}	375230	49.7949	49.8	
61 1,1,1,2-Tetrachloroethane	131		7.425	7.446	{1.014}	151718	53.7437	53.7	
62 Ethylbenzene	106		7.456	7.472	{1.018}	190549	48.7568	48.8	
63 m&p-Xylene	106		7.555	7.575	{1.032}	480571	104.638	105	
65 o-Xylene	106		7.865	7.886	{1.074}	250088	52.9048	52.9	
66 Styrene	104		7.880	7.896	{1.076}	416895	52.6408	52.6	
67 Bromoform	173		8.009	8.030	{0.883}	120236	54.5754	54.6	
68 Isopropylbenzene	105		8.154	8.170	{1.114}	553925	47.4797	47.5	
69 trans-1,4-Dichloro-2-butene	53		8.418	8.433	{1.150}	238602	213.956	214 (Q)	
142 n-amyl acetate	70		8.257	8.278	{1.128}	1216		(Q)	

						CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	
=====	=====	=====	=====	=====	=====	=====	=====	
\$ 70 4-Bromofluorobenzene	95	8.263	8.278	{1.128}	168303	51.4257	51.4	
71 Bromobenzene	77	8.361	8.382	{1.142}	246320	57.6090	57.6	
72 1,1,2,2-Tetrachloroethane	83	8.381	8.397	{0.924}	202895	59.8219	59.8	
73 1,2,3-Trichloropropane	75	8.418	8.418	{0.928}	446057	124.117	124	
74 n-Propylbenzene	91	8.454	8.475	{0.932}	610783	54.6790	54.7	
75 2-Chlorotoluene	91	8.511	8.526	{0.938}	408186	55.5171	55.5	
77 1,3,5-Trimethylbenzene	105	8.583	8.599	{0.946}	426374	49.1414	49.1	
76 4-Chlorotoluene	126	8.588	8.604	{0.947}	138754	45.8832	45.9	
78 tert-Butylbenzene	119	8.805	8.821	{0.971}	367991	35.5824	35.6	
79 1,2,4-Trimethylbenzene	105	8.836	8.857	{0.974}	433798	55.0336	55.0	
80 sec-Butylbenzene	105	8.955	8.971	{0.987}	501993	50.8473	50.8	
81 1,3-Dichlorobenzene	146	9.028	9.043	{0.995}	270816	52.0329	52.0	
83 p-Isopropyltoluene	119	9.053	9.069	{0.998}	419520	49.5618	49.6	
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.085	{1.000}	157701	50.0000		
84 1,4-Dichlorobenzene	146	9.084	9.100	{1.002}	272631	51.0167	51.0	
86 n-Butylbenzene	91	9.322	9.338	{1.028}	346981	54.1879	54.2	
85 1,2-Dichlorobenzene	146	9.327	9.343	{1.028}	259273	50.5573	50.6	
87 1,2-Dibromo-3-chloropropane	155	9.823	9.839	{1.083}	34242	57.7800	57.8	
88 1,2,4-Trichlorobenzene	180	10.330	10.351	{1.139}	137941	51.4160	51.4	
89 Hexachlorobutadiene	225	10.433	10.449	{1.150}	38801	49.5464	49.5	
90 Naphthalene	128	10.480	10.496	{1.156}	417511	59.8208	59.8	
91 1,2,3-Trichlorobenzene	180	10.625	10.640	{1.172}	121117	54.5562	54.6	
92 2-methyl-naphthalene	142	11.152	11.173	{1.230}	134891	68.2594	68.2	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A02LCS.D
 Lab Smp Id: lcs 34B-009
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052710.b\A02LCS.D
 Misc Info:

Calibration Date: 28-MAY-2010
 Calibration Time: 00:34
 Client Smp ID: lcs
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	429813	214907	859626	478332	11.29
59 Chlorobenzene-d5	321998	160999	643996	353824	9.88
82 1,4-Dichlorobenze	141604	70802	283208	157701	11.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.08	3.58	4.58	4.04	-0.89
59 Chlorobenzene-d5	7.34	6.84	7.84	7.32	-0.29
82 1,4-Dichlorobenze	9.09	8.59	9.59	9.07	-0.17

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052710.b
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: lcs 34B-009 Client Smp ID: lcs
 Level: LOW Operator: jlf
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 8260LCS.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	56.0	112.07	30-170
2 Chloromethane	50.0	44.4	88.78	35-147
3 Vinyl Chloride	50.0	54.9	109.79	55-141
4 Bromomethane	50.0	48.0	96.09	30-170
5 Chloroethane	50.0	52.2	104.40	56-153
6 Trichlorofluoromet	50.0	51.5	103.00	62-150
7 Diethyl ether	50.0	53.1	106.26	70-130
8 Acrolein	1000	1660	165.69	30-170
9 1,1-Dichloroethene	50.0	57.7	115.39	63-128
10 1,1,2trichlorotrif	50.0	49.7	99.47	74-153
11 Acetone	250	332	132.74	30-170
12 Iodomethane	100	71.7	71.73	41-170
13 Carbon Disulfide	100	138	137.65	58-152
14 allyl chloride	100	103	102.97	70-130
15 Methylene Chloride	50.0	58.3	116.54	32-164
16 Acrylonitrile	1000	1430	142.98*	67-136
17 tert-Butyl Alcohol	100	143	142.70	50-150
18 1,2-Dichloroethene	50.0	56.1	112.23	71-126
19 Methyl-tert-butyl	100	105	105.06	66-147
20 n-Hexane	50.0	54.1	108.22	69-157
21 1,1-Dichloroethane	50.0	53.4	106.76	67-133
23 Vinyl Acetate	200	202	100.95	41-145
24 2,2-Dichloropropan	50.0	49.2	98.33	53-144
25 1,2-Dichloroethene	50.0	53.6	107.24	74-128
26 2-Butanone	250	335	134.06	47-189
28 1,2-dichlorotriflu	50.0	51.3	102.53	54-162
29 Bromochloromethane	50.0	74.0	148.11	54-162
31 Chloroform	50.0	52.6	105.30	74-131
33 1,1,1-Trichloroeth	50.0	52.3	104.52	69-136
35 Carbon Tetrachlori	50.0	52.0	104.07	62-143
36 1,1-Dichloropropen	50.0	53.4	106.77	75-134
37 Isobutyl alcohol	50.0	65.6	131.10	50-150
38 Benzene	50.0	51.7	103.37	78-127
39 1,2-Dichloroethane	50.0	56.2	112.35	69-139
41 Trichloroethene	50.0	53.0	106.10	74-130
42 1,2-Dichloropropan	50.0	56.5	113.03	76-129
43 Dibromomethane	50.0	56.0	112.00	73-133
44 Methyl methacrylat	200	238	118.84	70-130
45 Bromodichlorometha	50.0	57.3	114.57	69-133
47 cis-1,3-Dichloropr	50.0	58.3	116.68	54-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
48 4-Methyl-2-Pentano	250	360	144.24*	61-135
50 Toluene	50.0	50.0	99.95	75-129
51 trans-1,3-Dichloro	50.0	54.9	109.88	54-123
52 Ethyl Methacrylate	200	224	111.91	59-138
53 1,1,2-Trichloroeth	50.0	59.7	119.46	77-132
54 Tetrachloroethene	50.0	47.3	94.57	60-119
55 1,3-Dichloropropan	50.0	56.0	112.04	74-126
56 2-Hexanone	250	320	127.87	57-167
57 Dibromochlorometha	50.0	59.2	118.46	66-131
58 1,2-Dibromoethane	50.0	56.0	112.11	75-126
60 Chlorobenzene	50.0	49.8	99.59	75-123
61 1,1,1,2-Tetrachlor	50.0	53.7	107.49	69-130
62 Ethylbenzene	50.0	48.8	97.51	81-126
63 m&p-Xylene	100	105	104.64	71-131
65 o-Xylene	50.0	52.9	105.81	72-127
66 Styrene	50.0	52.6	105.28	74-128
67 Bromoform	50.0	54.6	109.15	60-127
68 Isopropylbenzene	50.0	47.5	94.96	80-130
69 trans-1,4-Dichloro	200	214	106.98	50-150
71 Bromobenzene	50.0	57.6	115.22	62-139
72 1,1,2,2-Tetrachlor	50.0	59.8	119.64	69-130
73 1,2,3-Trichloropro	100	124	124.12	60-131
74 n-Propylbenzene	50.0	54.7	109.36	71-132
75 2-Chlorotoluene	50.0	55.5	111.03	72-128
76 4-Chlorotoluene	50.0	45.9	91.77	73-124
77 1,3,5-Trimethylben	50.0	49.1	98.28	74-130
78 tert-Butylbenzene	50.0	35.6	71.16	63-117
79 1,2,4-Trimethylben	50.0	55.0	110.07	73-130
80 sec-Butylbenzene	50.0	50.8	101.69	73-130
81 1,3-Dichlorobenzen	50.0	52.0	104.07	76-125
83 p-Isopropyltoluene	50.0	49.6	99.12	66-131
84 1,4-Dichlorobenzen	50.0	51.0	102.03	75-122
85 1,2-Dichlorobenzen	50.0	50.6	101.11	76-124
86 n-Butylbenzene	50.0	54.2	108.38	68-135
87 1,2-Dibromo-3-chlo	50.0	57.8	115.56	61-125
88 1,2,4-Trichloroben	50.0	51.4	102.83	60-130
89 Hexachlorobutadien	50.0	49.5	99.09	70-130
90 Naphthalene	50.0	59.8	119.64	61-135
91 1,2,3-Trichloroben	50.0	54.6	109.11	58-131
138 Methyl Acetate	50.0	66.4	132.74	30-170
34 cyclohexane	50.0	48.6	97.16	63-134
139 Methylcyclohexane	50.0	45.7	91.48	65-135

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.8	101.70	82-122
\$ 49 Toluene-d8	50.0	49.6	99.27	80-120
\$ 70 4-Bromofluorobenze	50.0	51.4	102.85	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: lcs 34B-009
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052710.b
 Client Smp ID: lcs
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	56.0	
74-87-3	Chloromethane	44.4	
75-01-4	Vinyl Chloride	54.9	
74-83-9	Bromomethane	48.0	
75-00-3	Chloroethane	52.2	
75-69-4	Trichlorofluoromethane	51.5	
354-23-4	1,2-dichlorotrifluoroethane	51.3	
60-29-7	Diethyl ether	53.1	
75-65-0	tert-Butyl Alcohol	143	
107-02-8	Acrolein	1660	
76-13-1	1,1,2trichlorotrifluoroethan	49.7	
75-35-4	1,1-Dichloroethene	57.7	
67-64-1	Acetone	332	
	Iodomethane	71.7	
75-15-0	Carbon Disulfide	138	
107-05-1	allyl chloride	103	
75-05-8	Acetonitrile	1030	
79-20-9	Methyl Acetate	66.4	
75-09-2	Methylene Chloride	58.3	
107-13-1	Acrylonitrile	1430	
1634-04-4	Methyl-tert-butyl ether	105	
156-60-5	1,2-Dichloroethene (trans)	56.1	
	n-Hexane	54.1	
75-34-3	1,1-Dichloroethane	53.4	
108-05-4	Vinyl Acetate	202	
141-78-6	Ethyl acetate	523	
126-99-8	Chloroprene	52.4	
594-20-7	2,2-Dichloropropane	49.2	
156-59-2	1,2-Dichloroethene (cis)	53.6	
78-93-3	2-Butanone	335	
107-12-0	Propionitrile	55.5	
74-97-5	Bromochloromethane	74.0	
126-98-7	Methacrylonitrile	458	
67-66-3	Chloroform	52.6	
71-55-6	1,1,1-Trichloroethane	52.3	
	Tetrahydrofuran	72.7	
110-82-7	cyclohexane	48.6	
78-83-1	Isobutyl alcohol	65.6	
56-23-5	Carbon Tetrachloride	52.0	
563-58-6	1,1-Dichloropropene	53.4	
71-43-2	Benzene	51.7	
108-21-4	isopropyl acetate	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: lcs 34B-009
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052710.b
 Client Smp ID: lcs
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	56.2	
79-01-6	Trichloroethene	53.0	
108-87-2	Methylcyclohexane	45.7	
78-87-5	1,2-Dichloropropane	56.5	
74-95-3	Dibromomethane	56.0	
80-62-6	Methyl methacrylate	238	
540-84-1	2,2,4-Trimethylpentane	44.7	
	1,4-Dioxane	1020	
75-27-4	Bromodichloromethane	57.3	
110-75-8	2-Chloroethyl vinyl ether	44.4	
10061-01-5	cis-1,3-Dichloropropene	58.3	
108-10-1	4-Methyl-2-Pentanone	360	
108-88-3	Toluene	50.0	
10061-02-6	trans-1,3-Dichloropropene	54.9	
	Ethyl Methacrylate	224	
79-00-5	1,1,2-Trichloroethane	59.7	
127-18-4	Tetrachloroethene	47.3	
142-28-9	1,3-Dichloropropane	56.0	
591-78-6	2-Hexanone	320	
124-48-1	Dibromochloromethane	59.2	
106-93-4	1,2-Dibromoethane	56.0	
108-90-7	Chlorobenzene	49.8	
630-20-6	1,1,1,2-Tetrachloroethane	53.7	
100-41-4	Ethylbenzene	48.8	
7816-60-0	m&p-Xylene	105	
95-47-6	o-Xylene	52.9	
100-42-5	Styrene	52.6	
75-25-2	Bromoform	54.6	
98-82-8	Isopropylbenzene	47.5	
	trans-1,4-Dichloro-2-butene	214	
628-63-7	n-amyl acetate	0.000	
108-86-1	Bromobenzene	57.6	
79-34-5	1,1,2,2-Tetrachloroethane	59.8	
96-18-4	1,2,3-Trichloropropane	124	
103-65-1	n-Propylbenzene	54.7	
95-49-8	2-Chlorotoluene	55.5	
108-67-8	1,3,5-Trimethylbenzene	49.1	
106-43-4	4-Chlorotoluene	45.9	
98-06-6	tert-Butylbenzene	35.6	
95-63-6	1,2,4-Trimethylbenzene	55.0	
135-98-8	sec-Butylbenzene	50.8	
541-73-1	1,3-Dichlorobenzene	52.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: lcs 34B-009
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052710.b
 Client Smp ID: lcs
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6-----	p-Isopropyltoluene	49.6	
106-46-7-----	1,4-Dichlorobenzene	51.0	
104-51-8-----	n-Butylbenzene	54.2	
95-50-1-----	1,2-Dichlorobenzene	50.6	
96-12-8-----	1,2-Dibromo-3-chloropropane	57.8	
120-82-1-----	1,2,4-Trichlorobenzene	51.4	
87-68-3-----	Hexachlorobutadiene	49.5	
91-20-3-----	Naphthalene	59.8	
87-61-6-----	1,2,3-Trichlorobenzene	54.6	
-----	2,methyl-naphthalene	68.2	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.8	
2037-26-5-----	Toluene-d8	49.6	
460-00-4-----	4-Bromofluorobenzene	51.4	

Data File: \\50wintarget\chem\50HSV2.1\A052710.b\A02LCS.D
Date : 27-MAY-2010 12:36

Client ID: Ios

Sample Info: Ios 34B-009

Purge Volume: 5.0

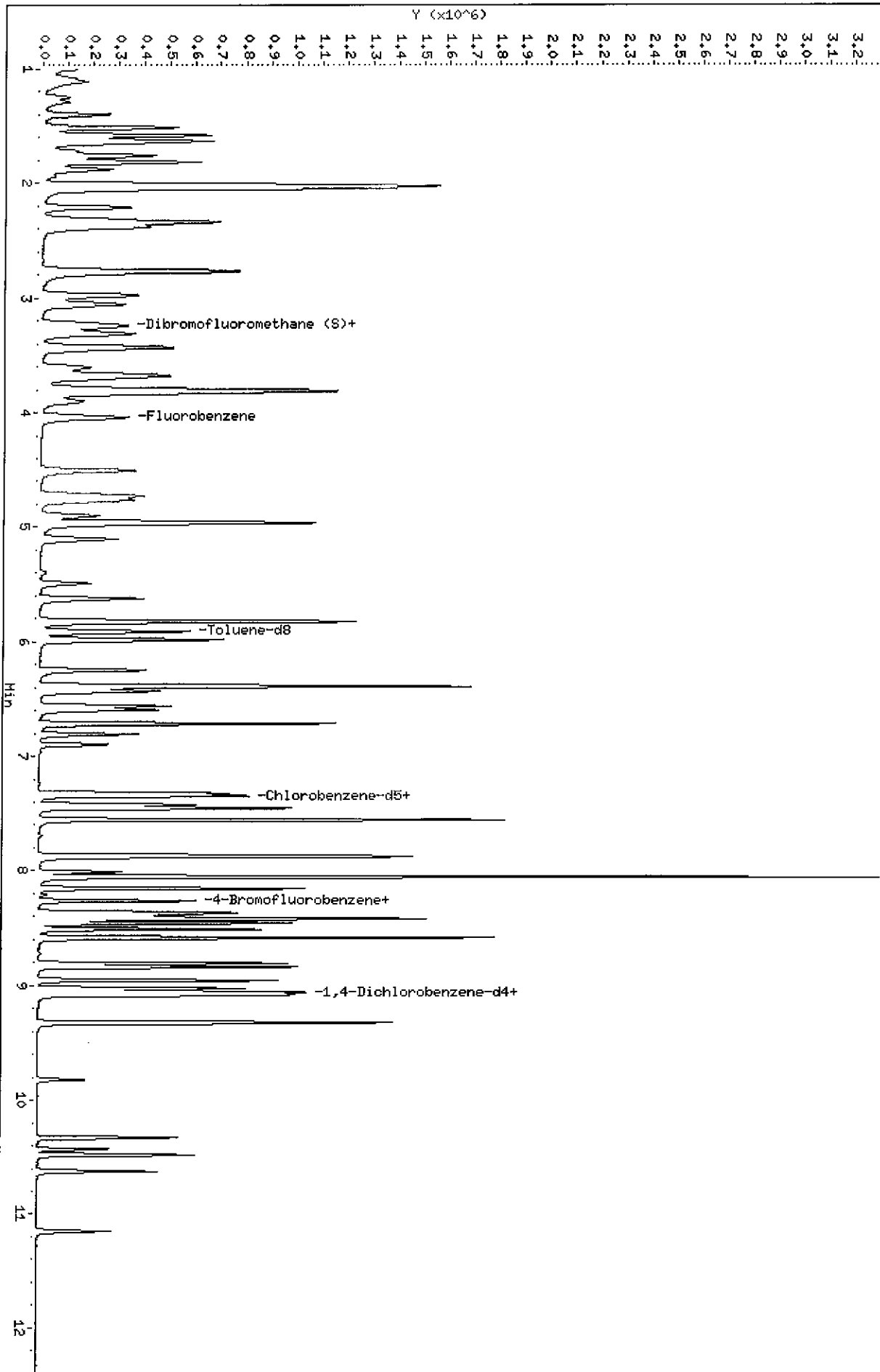
Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18

\\50wintarget\chem\50HSV2.1\A052710.b\A02LCS.D





VOA 8260B GC/MS Volatiles

Section 5: Method Blank Data

**** Method Blanks***

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A03MB.D
Lab Smp Id: 437656 Client Smp ID: mb
Inj Date : 26-MAY-2010 12:52
Operator : jlf Inst ID: 50MSV2.i
Smp Info : mb 34B-008
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\A03MB.D
Meth Date : 27-May-2010 15:38 jfislars Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
8 Acrolein	56	1.590	1.579 (0.395)	1334	3.22380	3.22	
12 Iodomethane	142	1.735	1.718 (0.431)	2494	5.75799	5.76	
18 1,2-Dichloroethene (trans)	96	2.040	2.039 (0.506)	809	0.51037	0.510	
\$ 32 Dibromofluoromethane (S)	113	3.213	3.222 (0.797)	152712	52.1618	52.2	
30 Tetrahydrofuran	42	3.043	3.041 (0.755)	13517	0.93644	0.936	
* 40 Fluorobenzene	96	4.030	4.039 (1.000)	466230	50.0000		
\$ 49 Toluene-d8	98	5.901	5.910 (0.806)	409295	51.7398	51.7	
50 Toluene	91	5.989	5.982 (0.818)	1476	0.13851	0.138	
* 59 Chlorobenzene-d5	117	7.317	7.326 (1.000)	339499	50.0000		
60 Chlorobenzene	112	7.343	7.347 (1.004)	1977	0.27343	0.273 (Q)	
62 Ethylbenzene	106	7.462	7.455 (1.020)	847	0.22587	0.226	
66 Styrene	104	7.886	7.879 (1.078)	1350	0.17766	0.178	
68 Isopropylbenzene	105	8.149	8.153 (1.114)	2236	0.19975	0.200	
69 trans-1,4-Dichloro-2-butene	53	8.418	8.422 (1.150)	827	0.77287	0.773 (Q)	
142 n-amyl acetate	70	8.253	8.256 (1.128)	875		(Q)	
\$ 70 4-Bromofluorobenzene	95	8.258	8.261 (1.129)	163310	52.0055	52.0	
77 1,3,5-Trimethylbenzene	105	8.583	8.582 (0.947)	2196	0.25772	0.258	
76 4-Chlorotoluene	126	8.589	8.587 (0.948)	604	0.20338	0.203 (Q)	
78 tert-Butylbenzene	119	8.800	8.804 (0.971)	2349	0.23128	0.231	
* 82 1,4-Dichlorobenzene-d4	152	9.064	9.068 (1.000)	154874	50.0000		
85 1,2-Dichlorobenzene	146	9.328	9.331 (1.029)	1835	0.36435	0.364	
90 Naphthalene	128	10.480	10.484 (1.156)	10217	1.49061	1.49	
91 1,2,3-Trichlorobenzene	180	10.625	10.629 (1.172)	2589	1.15933	1.16	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
92 2,methyl-naphthalene	142	11.152	11.156	(1.230)	11553	10.5333	10.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A03MB.D
 Lab Smp Id: 437656
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A03MB.D
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: mb
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	466230	2.08
59 Chlorobenzene-d5	337893	168947	675786	339499	0.48
82 1,4-Dichlorobenze	147661	73831	295322	154874	4.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.03	-0.22
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.12
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.06	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 437656 Client Smp ID: mb
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: BLANK
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.2	104.32	82-122
\$ 49 Toluene-d8	50.0	51.7	103.48	80-120
\$ 70 4-Bromofluorobenze	50.0	52.0	104.01	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437656
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: mb
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-02-8-----	Acrolein	3.22	
-----	Iodomethane	5.76	
156-60-5-----	1,2-Dichloroethene (trans)	0.510	
-----	Tetrahydrofuran	0.936	
108-88-3-----	Toluene	0.138	
108-90-7-----	Chlorobenzene	0.273	
100-41-4-----	Ethylbenzene	0.226	
100-42-5-----	Styrene	0.178	
98-82-8-----	Isopropylbenzene	0.200	
-----	trans-1,4-Dichloro-2-butene	0.773	
628-63-7-----	n-amyl acetate	0.000	
108-67-8-----	1,3,5-Trimethylbenzene	0.258	
106-43-4-----	4-Chlorotoluene	0.203	
98-06-6-----	tert-Butylbenzene	0.231	
95-50-1-----	1,2-Dichlorobenzene	0.364	
91-20-3-----	Naphthalene	1.49	
87-61-6-----	1,2,3-Trichlorobenzene	1.16	
-----	2,methyl-naphthalene	10.5	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	52.2	
2037-26-5-----	Toluene-d8	51.7	
460-00-4-----	4-Bromofluorobenzene	52.0	

Date: 26-MAY-2010 12:52

Client ID: mb

Instrument: 50HSV2.1

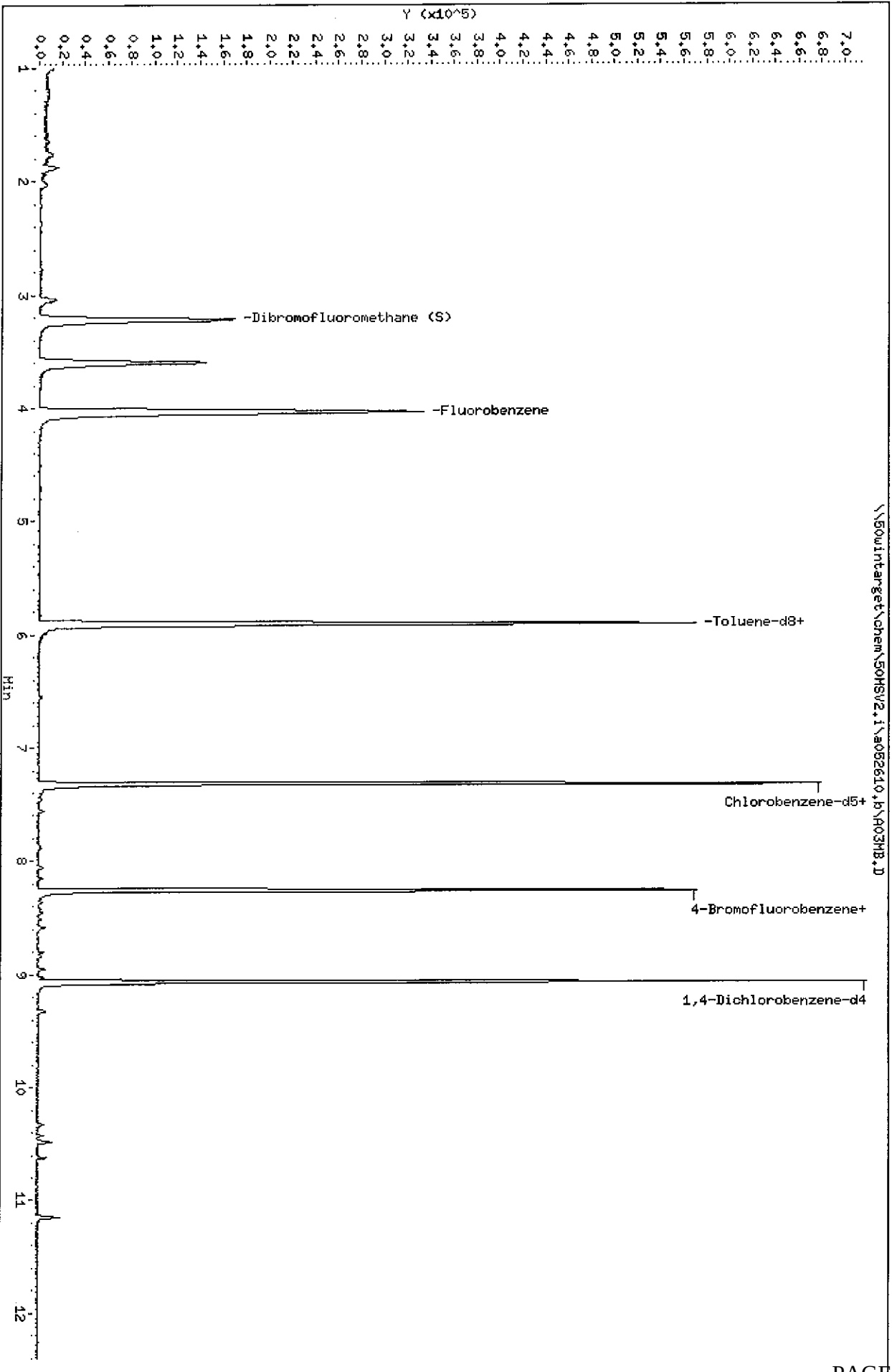
Sample Info: mb 34B-008

Purge Volume: 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C03MB.D
 Lab Smp Id: 437665 Client Smp ID: mb
 Inj Date : 27-MAY-2010 00:54
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : mb
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-cl.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 51 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
8 Acrolein	56	1.590	1.579 (0.393)	1537	3.94080	3.94 (Q)	
12 Iodomethane	142	1.735	1.718 (0.429)	3894	6.23622	6.24	
25 1,2-Dichloroethene (cis)	96	2.774	2.762 (0.686)	1465	0.45294	0.453 (Q)	
\$ 32 Dibromofluoromethane (S)	113	3.229	3.222 (0.798)	143883	52.1420	52.1	
* 40 Fluorobenzene	96	4.045	4.039 (1.000)	439442	50.0000		
\$ 49 Toluene-d8	98	5.916	5.910 (0.807)	391331	51.8035	51.8	
50 Toluene	91	5.989	5.982 (0.817)	1385	0.13610	0.136	
* 59 Chlorobenzene-d5	117	7.327	7.326 (1.000)	324199	50.0000		
60 Chlorobenzene	112	7.348	7.347 (1.003)	1611	0.23332	0.233 (Q)	
68 Isopropylbenzene	105	8.159	8.153 (1.114)	2620	0.24509	0.245	
\$ 70 4-Bromofluorobenzene	95	8.263	8.261 (1.128)	157276	52.4476	52.4	
77 1,3,5-Trimethylbenzene	105	8.588	8.582 (0.947)	2133	0.25890	0.259	
76 4-Chlorotoluene	126	8.599	8.587 (0.948)	434	0.15114	0.151 (Q)	
78 tert-Butylbenzene	119	8.805	8.804 (0.971)	2227	0.22678	0.227	
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.068 (1.000)	149745	50.0000		
85 1,2-Dichlorobenzene	146	9.327	9.331 (1.028)	1426	0.29284	0.293	
88 1,2,4-Trichlorobenzene	180	10.335	10.334 (1.140)	2249	0.04698	0.0470	
90 Naphthalene	128	10.485	10.484 (1.156)	10917	1.64729	1.65	
91 1,2,3-Trichlorobenzene	180	10.630	10.629 (1.172)	3192	1.48622	1.49	
92 2-methyl-naphthalene	142	11.157	11.156 (1.230)	13532	11.6993	11.7	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C03MB.D
 Lab Smp Id: 437665
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: mb
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	439442	-3.79
59 Chlorobenzene-d5	337893	168947	675786	324199	-4.05
82 1,4-Dichlorobenze	147661	73831	295322	149745	1.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.16
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.02
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 437665 Client Smp ID: mb
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: BLANK
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.1	104.28	82-122
\$ 49 Toluene-d8	50.0	51.8	103.61	80-120
\$ 70 4-Bromofluorobenze	50.0	52.4	104.90	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 437665
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: mb
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-02-8-----	Acrolein	3.94	
-----	Iodomethane	6.24	
156-59-2-----	1,2-Dichloroethene (cis)	0.453	
108-88-3-----	Toluene	0.136	
108-90-7-----	Chlorobenzene	0.233	
98-82-8-----	Isopropylbenzene	0.245	
108-67-8-----	1,3,5-Trimethylbenzene	0.259	
106-43-4-----	4-Chlorotoluene	0.151	
98-06-6-----	tert-Butylbenzene	0.227	
95-50-1-----	1,2-Dichlorobenzene	0.293	
120-82-1-----	1,2,4-Trichlorobenzene	0.0470	
91-20-3-----	Naphthalene	1.65	
87-61-6-----	1,2,3-Trichlorobenzene	1.49	
-----	2,methyl-naphthalene	11.7	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	52.1	
2037-26-5-----	Toluene-d8	51.8	
460-00-4-----	4-Bromofluorobenzene	52.4	

Data File: \\50wintarget\chem\50HSV2.i\ao52610.b\CO3HB.D
Date : 27-May-2010 00:54

Client ID: mb

Sample Info: mb

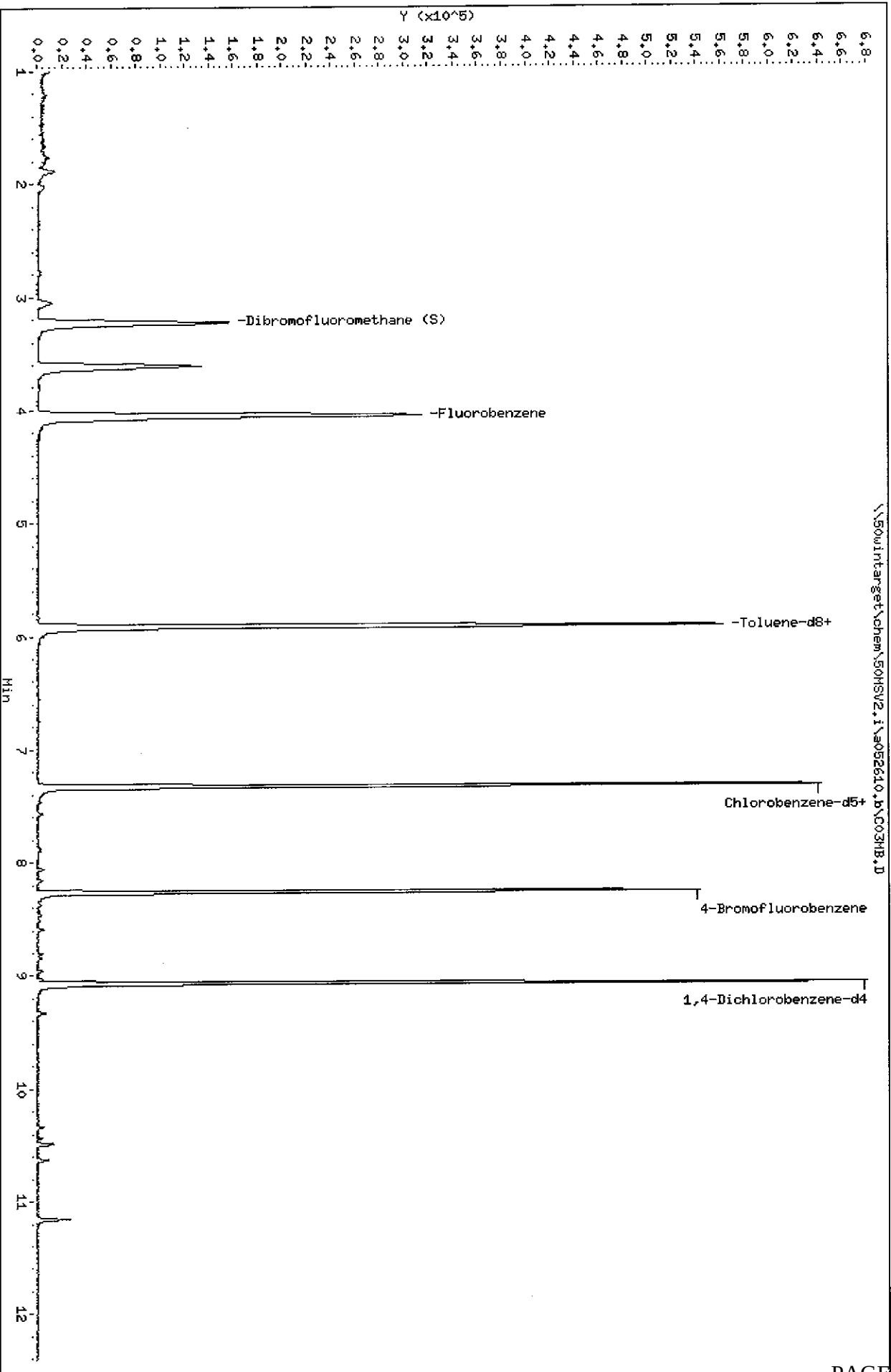
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052710.b\A03MB.D
 Lab Smp Id: mb 34B-008 Client Smp ID: mb
 Inj Date : 27-MAY-2010 13:11
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : mb 34B-008
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
 Meth Date : 28-May-2010 11:17 jfislars Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
4 Bromomethane	94	2.48467	2.48 (Q)	1.259	1.265 (0.312)		8386
8 Acrolein	56	3.73781	3.74	1.590	1.601 (0.394)		1544
12 Iodomethane	142	5.93423	5.93	1.735	1.740 (0.429)		3092
25 1,2-Dichloroethene (cis)	96	0.07619	0.0762 (Q)	2.758	2.795 (0.683)		261
\$ 32 Dibromofluoromethane (S)	113	52.4760	52.5	3.223	3.255 (0.798)		153364
30 Tetrahydrofuran	42	0.69637	0.696	3.047	3.069 (0.754)		13289
* 40 Fluorobenzene	96	50.0000		4.040	4.076 (1.000)		465417
41 Trichloroethene	95	0.19602	0.196	4.515	4.536 (1.118)		573
\$ 49 Toluene-d8	98	52.0208	52.0	5.911	5.937 (0.807)		415393
50 Toluene	91	0.19876	0.199	5.988	6.009 (0.818)		2138
54 Tetrachloroethene	166	0.32692	0.327 (Q)	6.562	6.583 (0.896)		1009
* 59 Chlorobenzene-d5	117	50.0000		7.322	7.343 (1.000)		342696
60 Chlorobenzene	112	0.28814	0.288 (Q)	7.342	7.369 (1.003)		2103
62 Ethylbenzene	106	0.07107	0.0711 (Q)	7.456	7.472 (1.018)		269
66 Styrene	104	0.18447	0.184	7.895	7.896 (1.078)		1415
68 Isopropylbenzene	105	0.22054	0.220	8.154	8.170 (1.114)		2492
\$ 70 4-Bromofluorobenzene	95	51.7128	51.7	8.262	8.278 (1.128)		163920
77 1,3,5-Trimethylbenzene	105	0.29460	0.295	8.588	8.599 (0.947)		2514
76 4-Chlorotoluene	126	0.21114	0.211 (Q)	8.598	8.604 (0.948)		628
78 tert-Butylbenzene	119	0.24509	0.245	8.810	8.821 (0.972)		2493
* 82 1,4-Dichlorobenzene-d4	152	50.0000		9.069	9.085 (1.000)		155104
85 1,2-Dichlorobenzene	146	0.34022	0.340	9.337	9.343 (1.030)		1716
90 Naphthalene	128	1.47296	1.47	10.485	10.496 (1.156)		10111

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppb)	FINAL (ppb)
=====	=====	=====	=====	=====	=====	=====	=====
91 1,2,3-Trichlorobenzene	180	10.630	10.640	{1.172}	2681	1.19973	1.20
92 2,methyl-naphthalene	142	11.152	11.173	{1.230}	10396	9.97360	9.97

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A03MB.D
 Lab Smp Id: mb 34B-008
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052710.b\A03MB.D
 Misc Info:

Calibration Date: 28-MAY-2010
 Calibration Time: 00:34
 Client Smp ID: mb
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	429813	214907	859626	465417	8.28
59 Chlorobenzene-d5	321998	160999	643996	342696	6.43
82 1,4-Dichlorobenze	141604	70802	283208	155104	9.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.08	3.58	4.58	4.04	-0.90
59 Chlorobenzene-d5	7.34	6.84	7.84	7.32	-0.29
82 1,4-Dichlorobenze	9.09	8.59	9.59	9.07	-0.18

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052710.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: mb 34B-008 Client Smp ID: mb
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: BLANK
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052710.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.5	104.95	82-122
\$ 49 Toluene-d8	50.0	52.0	104.04	80-120
\$ 70 4-Bromofluorobenze	50.0	51.7	103.43	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: mb 34B-008
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052710.b
 Client Smp ID: mb
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
74-83-9	Bromomethane	2.48	
107-02-8	Acrolein	3.74	
	Iodomethane	5.93	
156-59-2	1,2-Dichloroethene (cis)	0.0762	
	Tetrahydrofuran	0.696	
79-01-6	Trichloroethene	0.196	
108-88-3	Toluene	0.199	
127-18-4	Tetrachloroethene	0.327	
108-90-7	Chlorobenzene	0.288	
100-41-4	Ethylbenzene	0.0711	
100-42-5	Styrene	0.184	
98-82-8	Isopropylbenzene	0.220	
108-67-8	1,3,5-Trimethylbenzene	0.295	
106-43-4	4-Chlorotoluene	0.211	
98-06-6	tert-Butylbenzene	0.245	
95-50-1	1,2-Dichlorobenzene	0.340	
91-20-3	Naphthalene	1.47	
87-61-6	1,2,3-Trichlorobenzene	1.20	
	2,methyl-naphthalene	9.97	
=====		=====	=====
1868-53-7	Dibromofluoromethane (S)	52.5	
2037-26-5	Toluene-d8	52.0	
460-00-4	4-Bromofluorobenzene	51.7	

Date : 27-MAY-2010 13:11

Client ID: mb

Sample Info: mb 34B-008

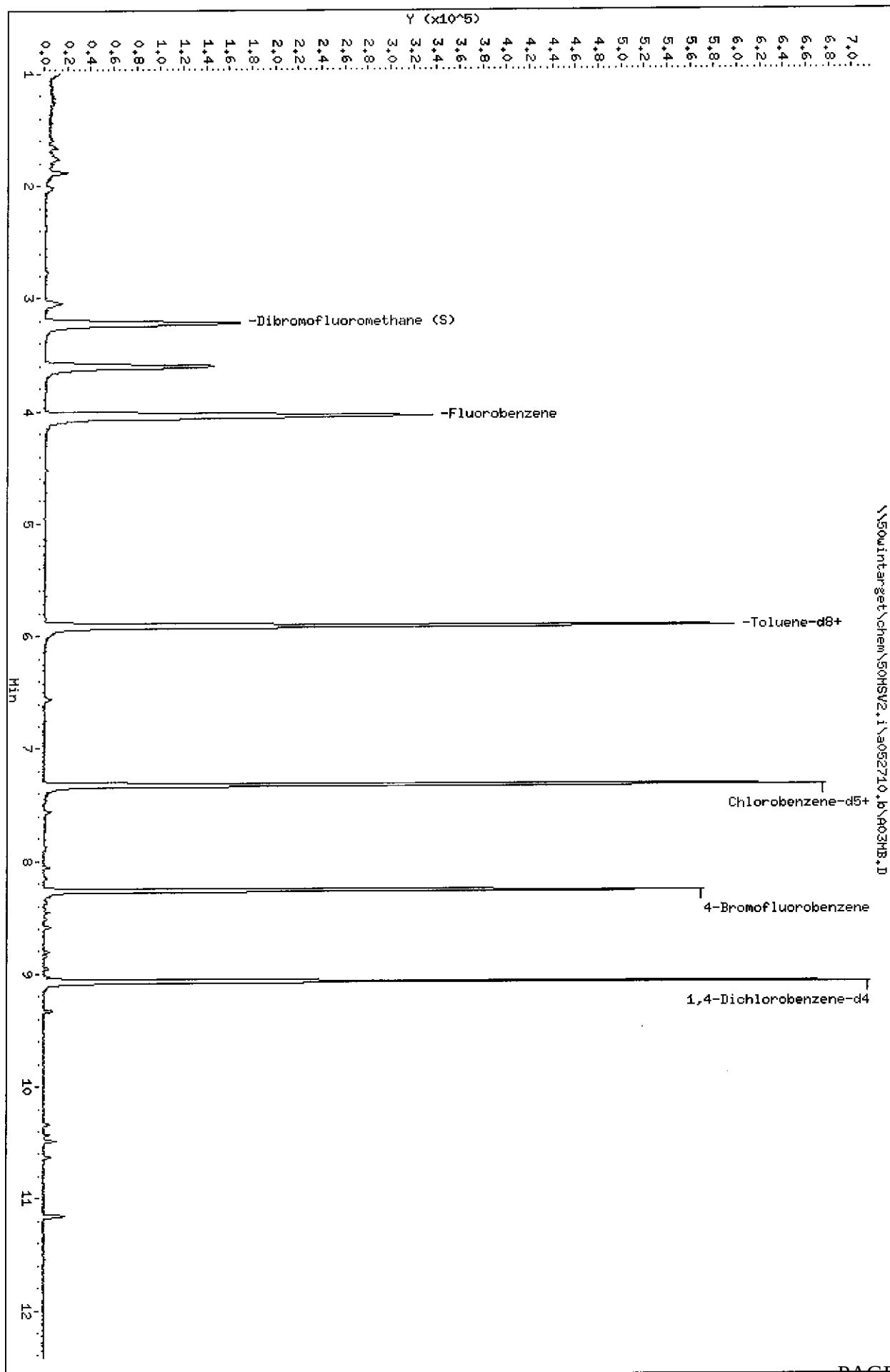
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18





VOA 8260B GC/MS Volatiles

Section 6: Client Sample Data

- * Client Sample Raw Data***
- * Dilutions or Reruns of Client Samples
(Sample data should be in numerical order by
Lab Number)***

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A12.D
 Lab Smp Id: 5037756001 Client Smp ID: 5037756001
 Inj Date : 26-MAY-2010 18:02
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756001
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-cl.m
 Meth Date : 27-May-2010 15:38 jfislal Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
3 Vinyl Chloride	62	9.44717	9.45	1.112	1.113	(0.275)	33605
18 1,2-Dichloroethene (trans)	96	0.62062	0.621	2.047	2.039	(0.506)	1110
25 1,2-Dichloroethene (cis)	96	1.45163	1.45	2.776	2.762	(0.687)	5058
\$ 32 Dibromofluoromethane (S)	113	51.7996	51.8	3.220	3.222	(0.797)	153982
* 40 Fluorobenzene	96	50.0000		4.042	4.039	(1.000)	473395
41 Trichloroethene	95	1.38163	1.38	4.507	4.504	(1.115)	4108
\$ 49 Toluene-d8	98	52.0529	52.0	5.908	5.910	(0.807)	419499
50 Toluene	91	0.16525	0.165	5.991	5.982	(0.818)	1794
* 59 Chlorobenzene-d5	117	50.0000		7.324	7.326	(1.000)	345870
60 Chlorobenzene	112	0.27749	0.277 (Q)	7.350	7.347	(1.004)	2044
62 Ethylbenzene	106	0.06937	0.0694 (Q)	7.453	7.455	(1.018)	265
66 Styrene	104	0.19053	0.190	7.893	7.879	(1.078)	1475
68 Isopropylbenzene	105	0.21238	0.212	8.156	8.153	(1.114)	2422
\$ 70 4-Bromofluorobenzene	95	52.5408	52.5	8.260	8.261	(1.128)	168087
77 1,3,5-Trimethylbenzene	105	0.21400	0.214	8.590	8.582	(0.948)	1855
76 4-Chlorotoluene	126	0.12147	0.121 (Q)	8.596	8.587	(0.948)	367
78 tert-Butylbenzene	119	0.23645	0.236	8.807	8.804	(0.971)	2443
* 82 1,4-Dichlorobenzene-d4	152	50.0000		9.066	9.068	(1.000)	157552
85 1,2-Dichlorobenzene	146	0.33435	0.334	9.329	9.331	(1.029)	1713
90 Naphthalene	128	1.34251	1.34	10.487	10.484	(1.157)	9361
91 1,2,3-Trichlorobenzene	180	1.12605	1.13	10.632	10.629	(1.173)	2560
92 2-methyl-naphthalene	142	9.17673	9.18	11.159	11.156	(1.231)	8862

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A12.D
Lab Smp Id: 5037756001
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756001
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	473395	3.65
59 Chlorobenzene-d5	337893	168947	675786	345870	2.36
82 1,4-Dichlorobenze	147661	73831	295322	157552	6.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	0.08
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.03
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756001 Client Smp ID: 5037756001
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.8	103.60	82-122
\$ 49 Toluene-d8	50.0	52.0	104.11	80-120
\$ 70 4-Bromofluorobenze	50.0	52.5	105.08	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5037756001
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: 5037756001
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	9.45	
156-60-5-----	1,2-Dichloroethene (trans)	0.621	
156-59-2-----	1,2-Dichloroethene (cis)	1.45	
79-01-6-----	Trichloroethene	1.38	
108-88-3-----	Toluene	0.165	
108-90-7-----	Chlorobenzene	0.277	
100-41-4-----	Ethylbenzene	0.0694	
100-42-5-----	Styrene	0.190	
98-82-8-----	Isopropylbenzene	0.212	
108-67-8-----	1,3,5-Trimethylbenzene	0.214	
106-43-4-----	4-Chlorotoluene	0.121	
98-06-6-----	tert-Butylbenzene	0.236	
95-50-1-----	1,2-Dichlorobenzene	0.334	
91-20-3-----	Naphthalene	1.34	
87-61-6-----	1,2,3-Trichlorobenzene	1.13	
-----	2,methyl-naphthalene	9.18	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.8	
2037-26-5-----	Toluene-d8	52.0	
460-00-4-----	4-Bromofluorobenzene	52.5	

Date : 26-MAY-2010 18:02

Client ID: 5037756001

Sample Info: 5037756001

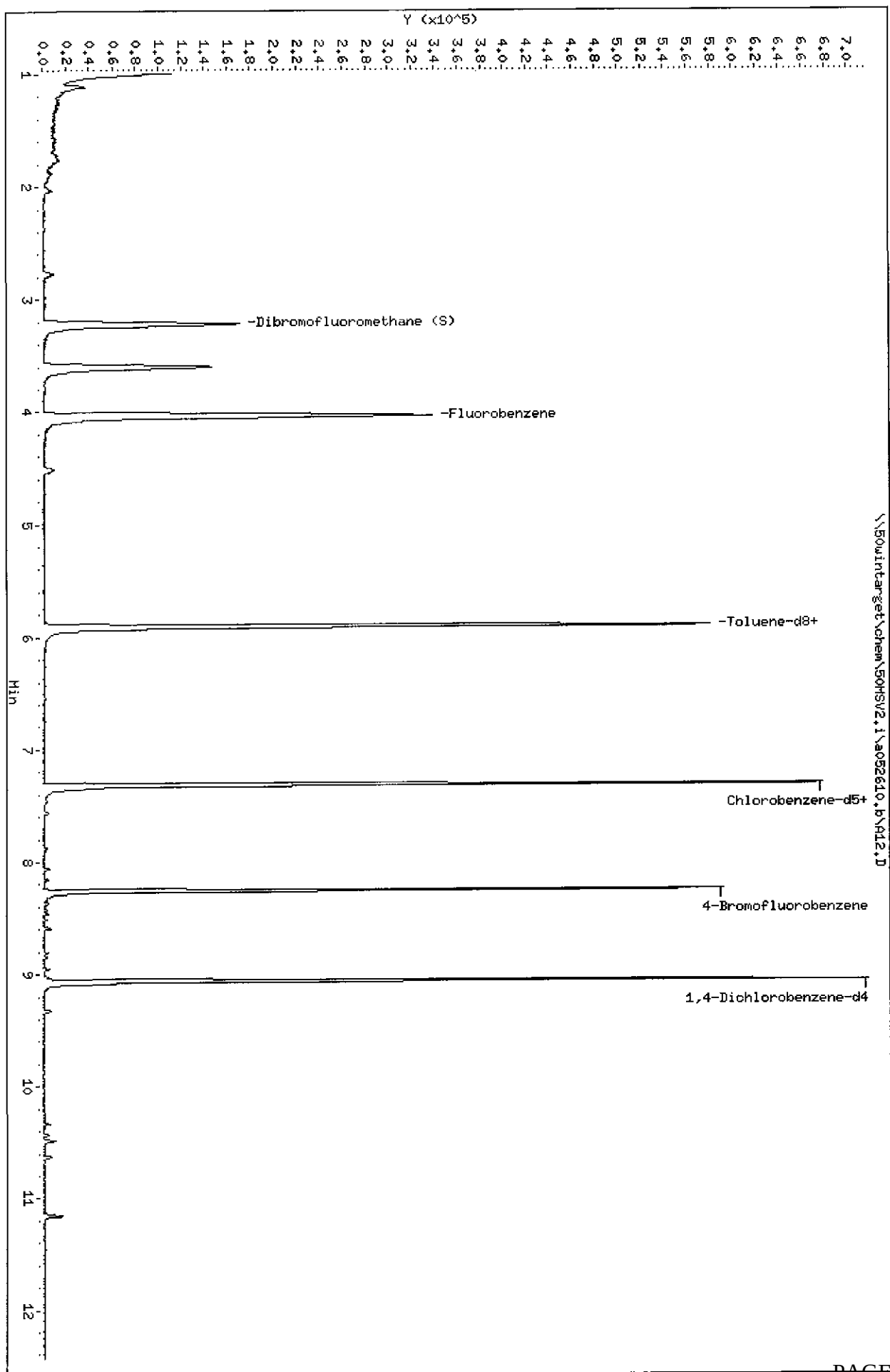
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jif

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A13.D
Lab Smp Id: 5037756002 Client Smp ID: 5037756002
Inj Date : 26-MAY-2010 18:37
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5037756002
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-cl.m
Meth Date : 27-May-2010 15:38 jfislal Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ppb)	(ppb)
8 Acrolein		56	1.584	1.579 (0.392)		269	0.63296	0.633
25 1,2-Dichloroethene (cis)		96	2.778	2.762 (0.688)		1355	0.38446	0.384
\$ 32 Dibromofluoromethane (S)		113	3.223	3.222 (0.798)		156228	51.9577	52.0
* 40 Fluorobenzene		96	4.039	4.039 (1.000)		478838	50.0000	
41 Trichloroethene		95	4.505	4.504 (1.115)		1078	0.35844	0.358 (MH)
\$ 49 Toluene-d8		98	5.910	5.910 (0.807)		422747	51.3320	51.3
50 Toluene		91	5.993	5.982 (0.819)		1608	0.14494	0.145
* 59 Chlorobenzene-d5		117	7.321	7.326 (1.000)		353443	50.0000	
\$ 70 4-Bromofluorobenzene		95	8.262	8.261 (1.128)		172899	52.8869	52.9
* 82 1,4-Dichlorobenzene-d4		152	9.068	9.068 (1.000)		159579	50.0000	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A13.D
 Lab Smp Id: 5037756002
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756002
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	478838	4.84
59 Chlorobenzene-d5	337893	168947	675786	353443	4.60
82 1,4-Dichlorobenze	147661	73831	295322	159579	8.07

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.04	0.01
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.06
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756002 Client Smp ID: 5037756002
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.0	103.92	82-122
\$ 49 Toluene-d8	50.0	51.3	102.66	80-120
\$ 70 4-Bromofluorobenze	50.0	52.9	105.77	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756002
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: 5037756002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-02-8-----	Acrolein	0.633	
156-59-2-----	1,2-Dichloroethene (cis)	0.384	
79-01-6-----	Trichloroethene	0.358	
108-88-3-----	Toluene	0.145	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	52.0	
2037-26-5-----	Toluene-d8	51.3	
460-00-4-----	4-Bromofluorobenzene	52.9	

Date : 26-MAY-2010 18:37

Client ID: 5037756002

Sample Info: 5037756002

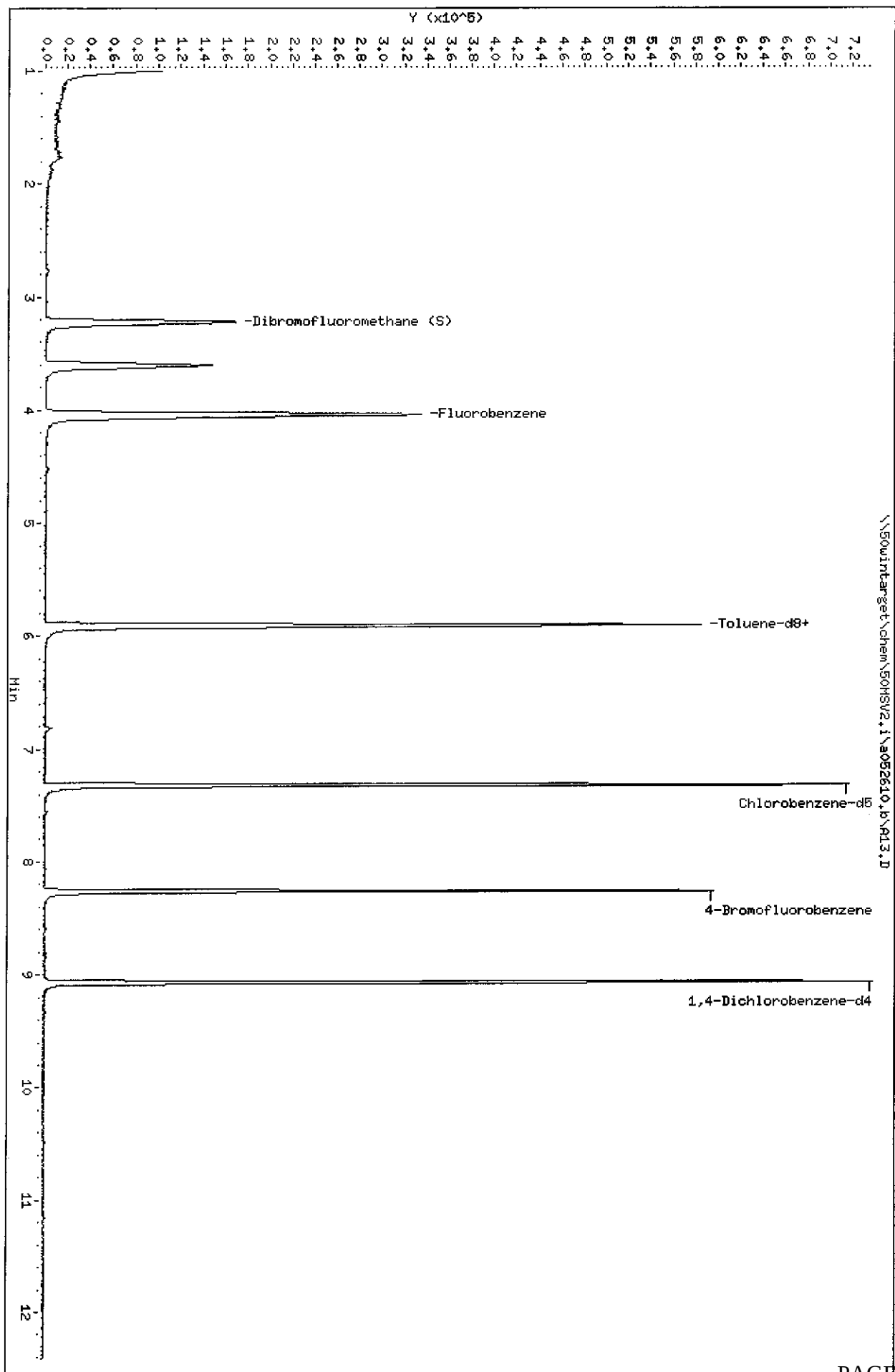
Purge Volume: 5.0

Column Phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A06.D
 Lab Smp Id: 5037756003 Client Smp ID: 5037756003
 Inj Date : 26-MAY-2010 14:35
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756003-lvl4
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jffislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.115	1.113	(0.277)	85612	24.4943	24.5
18 1,2-Dichloroethene (trans)	96	2.040	2.039	(0.506)	61797	24.2247	24.2
25 1,2-Dichloroethene (cis)	96	2.759	2.762	(0.685)	1770327	517.085	517
\$ 32 Dibromofluoromethane (S)	113	3.219	3.222	(0.799)	146989	50.3237	50.3
* 40 Fluorobenzene	96	4.030	4.039	(1.000)	465149	50.0000	
\$ 49 Toluene-d8	98	5.901	5.910	(0.806)	407220	51.3126	51.3
* 59 Chlorobenzene-d5	117	7.317	7.326	(1.000)	340590	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.258	8.261	(1.129)	161114	51.1419	51.1
* 82 1,4-Dichlorobenzene-d4	152	9.064	9.068	(1.000)	154890	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A06.D
 Lab Smp Id: 5037756003
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A06.D
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756003
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	465149	1.84
59 Chlorobenzene-d5	337893	168947	675786	340590	0.80
82 1,4-Dichlorobenze	147661	73831	295322	154890	4.90

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.03	-0.21
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.12
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.06	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756003 Client Smp ID: 5037756003
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.3	100.65	82-122
\$ 49 Toluene-d8	50.0	51.3	102.63	80-120
\$ 70 4-Bromofluorobenze	50.0	51.1	102.28	73-120

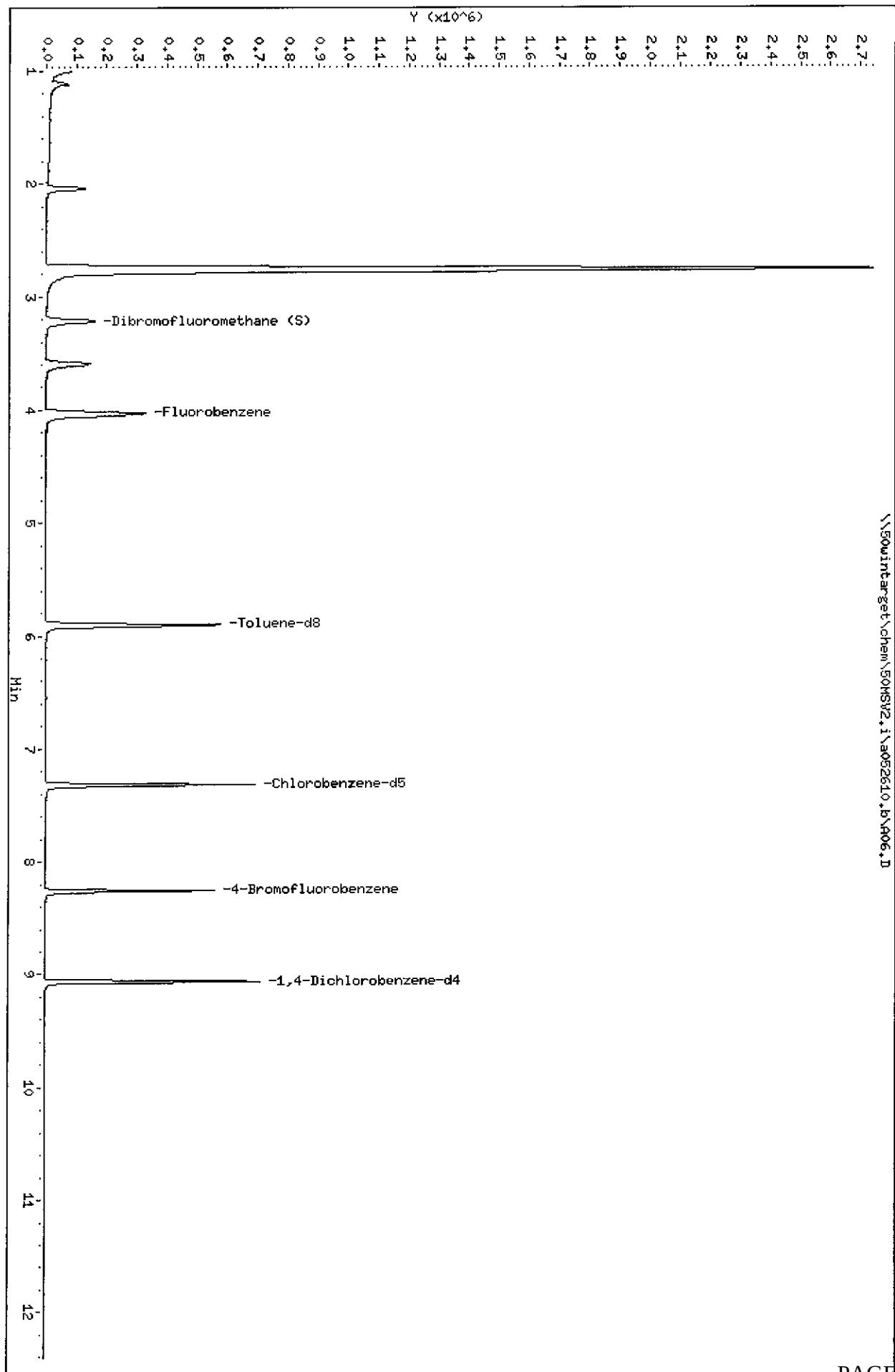
Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756003
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: 5037756003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	24.5	
156-60-5-----	1,2-Dichloroethene (trans)	24.2	
156-59-2-----	1,2-Dichloroethene (cis)	517	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.3	
2037-26-5-----	Toluene-d8	51.3	
460-00-4-----	4-Bromofluorobenzene	51.1	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052710.b\A08.D
 Lab Smp Id: 5037756003 Client Smp ID: 5037756003
 Inj Date : 27-MAY-2010 16:03
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : r5037756003-lvl4,10
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052710.b\8260-cl.m
 Meth Date : 28-May-2010 11:17 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 17
 Dil Factor: 10.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.135	1.130 (0.274)		5042	1.97745	19.8
18 1,2-Dichloroethene (trans)	96	2.106	2.061 (0.508)		4620	2.65899	26.6
25 1,2-Dichloroethene (cis)	96	2.845	2.795 (0.686)		160894	64.4200	644
\$ 32 Dibromofluoromethane (S)	113	3.321	3.255 (0.801)		111460	52.3093	52.3
* 40 Fluorobenzene	96	4.148	4.076 (1.000)		339328	50.0000	
\$ 49 Toluene-d8	98	5.998	5.937 (0.811)		283723	50.6271	50.6
* 59 Chlorobenzene-d5	117	7.394	7.343 (1.000)		240513	50.0000	
142 n-amyl acetate	70	8.334	8.278 (1.127)		523		(Q)
\$ 70 4-Bromofluorobenzene	95	8.324	8.278 (1.126)		113027	50.8065	50.8
* 82 1,4-Dichlorobenzene-d4	152	9.130	9.085 (1.000)		102286	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A08.D
Lab Smp Id: 5037756003
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 00:34
Client Smp ID: 5037756003
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	429813	214907	859626	339328	-21.05
59 Chlorobenzene-d5	321998	160999	643996	240513	-25.31
82 1,4-Dichlorobenze	141604	70802	283208	102286	-27.77

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.08	3.58	4.58	4.15	1.75
59 Chlorobenzene-d5	7.34	6.84	7.84	7.39	0.69
82 1,4-Dichlorobenze	9.09	8.59	9.59	9.13	0.50

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052710.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756003 Client Smp ID: 5037756003
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.3	104.62	82-122
\$ 49 Toluene-d8	50.0	50.6	101.25	80-120
\$ 70 4-Bromofluorobenze	50.0	50.8	101.61	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

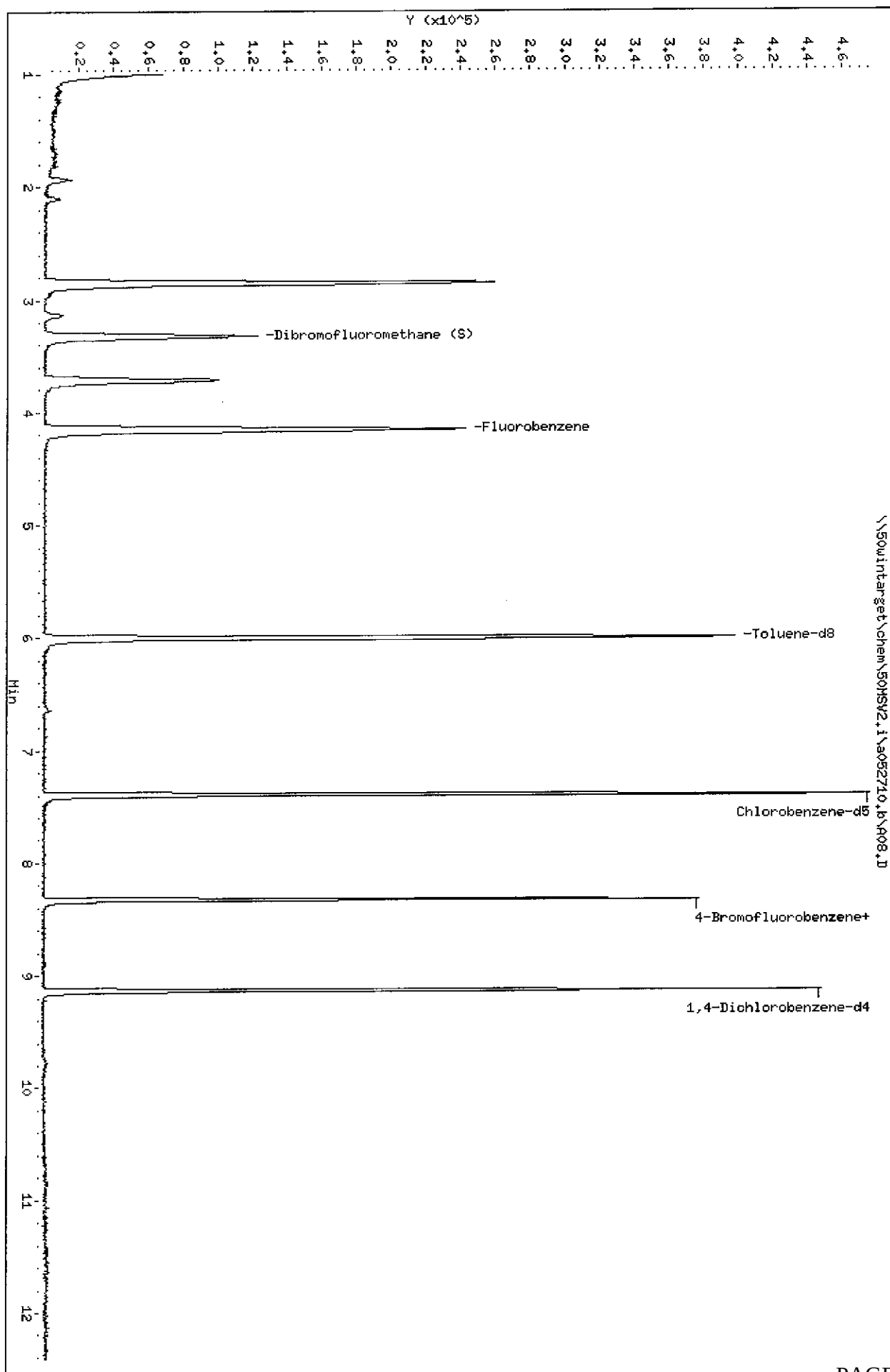
Client Name:
 Lab Smp Id: 5037756003
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052710.b
 Client Smp ID: 5037756003
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	19.8	
156-60-5-----	1,2-Dichloroethene (trans)	26.6	
156-59-2-----	1,2-Dichloroethene (cis)	644	
628-63-7-----	n-amyl acetate	0.000	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	52.3	
2037-26-5-----	Toluene-d8	50.6	
460-00-4-----	4-Bromofluorobenzene	50.8	

Data File: \\50wintarget\chem\50HSV2.i\A052710.b\A08.D
Date: 27-MAY-2010 16:03
Client ID: 5037756003
Sample Info: r5037756003-1v14.10
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50HSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A14.D
 Lab Smp Id: 5037756004 Client Smp ID: 5037756004
 Inj Date : 26-MAY-2010 19:11
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756004
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-cl.m
 Meth Date : 27-May-2010 15:38 jfislal Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 29
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
=====	=====	=====	=====	=====	=====	=====	=====
3 Vinyl Chloride	62	1.112	1.113	(0.275)	86714	24.8744	24.9
18 1,2-Dichloroethene (trans)	96	2.042	2.039	(0.506)	63288	24.8687	24.9
25 1,2-Dichloroethene (cis)	96	2.760	2.762	(0.684)	1806412	529.003	529
\$ 32 Dibromofluoromethane (S)	113	3.220	3.222	(0.798)	146022	50.1232	50.1
* 40 Fluorobenzene	96	4.037	4.039	(1.000)	463937	50.0000	
\$ 49 Toluene-d8	98	5.908	5.910	(0.807)	410048	51.4556	51.4
* 59 Chlorobenzene-d5	117	7.324	7.326	(1.000)	342002	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.260	8.261	(1.128)	165406	52.2875	52.3
* 82 1,4-Dichlorobenzene-d4	152	9.066	9.068	(1.000)	154233	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A14.D
 Lab Smp Id: 5037756004
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A14.D
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756004
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	463937	1.58
59 Chlorobenzene-d5	337893	168947	675786	342002	1.22
82 1,4-Dichlorobenze	147661	73831	295322	154233	4.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	-0.05
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.03
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756004 Client Smp ID: 5037756004
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.1	100.25	82-122
\$ 49 Toluene-d8	50.0	51.4	102.91	80-120
\$ 70 4-Bromofluorobenze	50.0	52.3	104.57	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: a052610.b
Lab Smp Id: 5037756004	Client Smp ID: 5037756004
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	24.9	
156-60-5-----	1,2-Dichloroethene (trans)	24.9	
156-59-2-----	1,2-Dichloroethene (cis)	529	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.1	
2037-26-5-----	Toluene-d8	51.4	
460-00-4-----	4-Bromofluorobenzene	52.3	

Date: 26-MAY-2010 19:11

Client ID: 5037756004

Sample Info: 5037756004

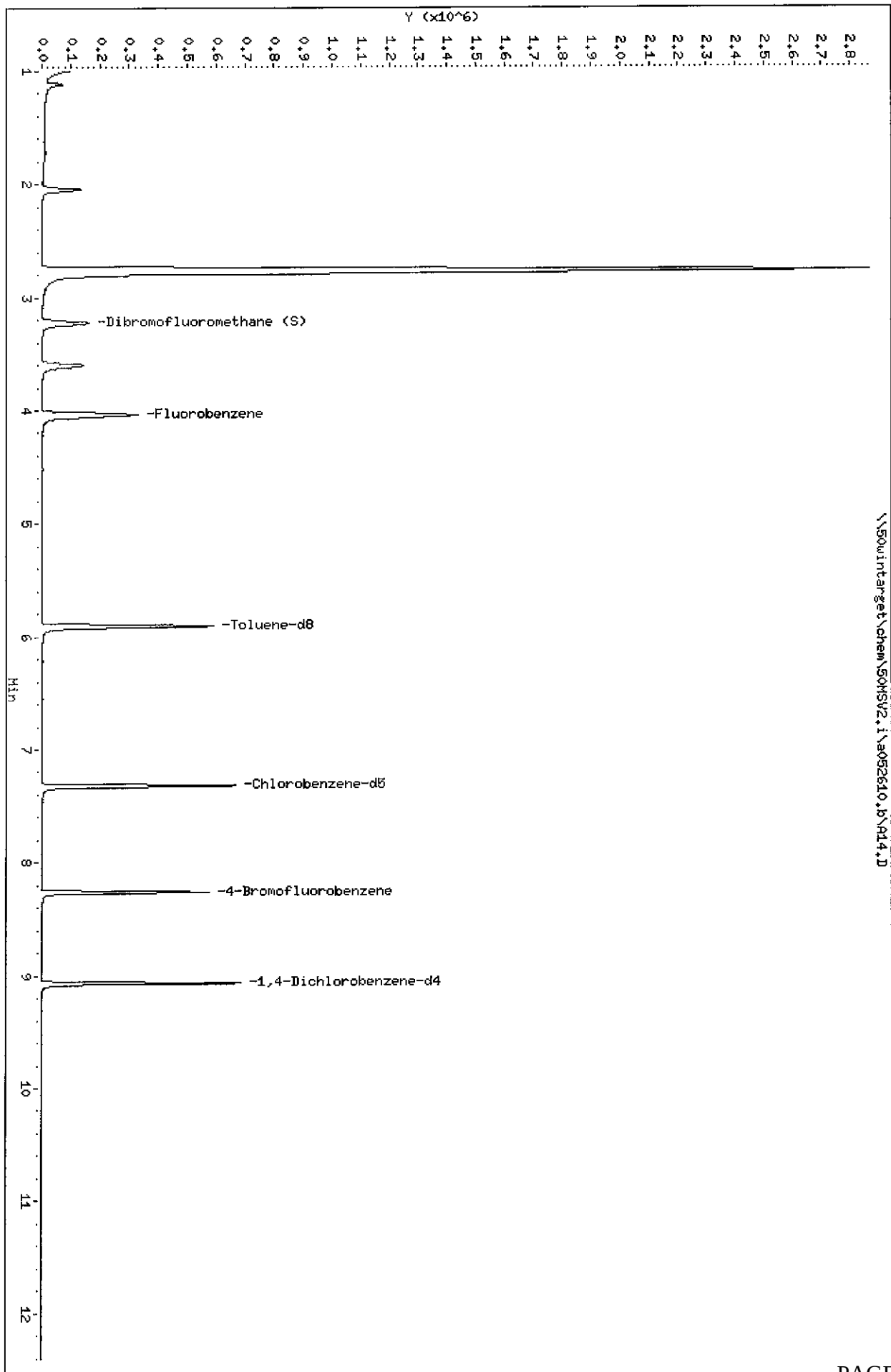
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052710.b\A10.D
 Lab Smp Id: 5037756004 Client Smp ID: 5037756004
 Inj Date : 27-MAY-2010 17:11
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : r5037756004,5
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052710.b\A10.D
 Meth Date : 28-May-2010 11:17 jfislars Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 21
 Dil Factor: 5.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.146	1.130 (0.275)		12175	3.92441	19.6
18 1,2-Dichloroethene (trans)	96	2.113	2.061 (0.507)		9430	4.32740	21.6
25 1,2-Dichloroethene (cis)	96	2.857	2.795 (0.686)		323066	106.310	532
\$ 32 Dibromofluoromethane (S)	113	3.332	3.255 (0.800)		128587	49.5976	49.6
* 40 Fluorobenzene	96	4.164	4.076 (1.000)		412873	50.0000	
\$ 49 Toluene-d8	98	6.010	5.937 (0.812)		366644	52.1754	52.2
* 59 Chlorobenzene-d5	117	7.400	7.343 (1.000)		301582	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.330	8.278 (1.126)		141333	50.6656	50.7
* 82 1,4-Dichlorobenzene-d4	152	9.142	9.085 (1.000)		137221	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A10.D
 Lab Smp Id: 5037756004
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052710.b\A10.D
 Misc Info:

Calibration Date: 28-MAY-2010
 Calibration Time: 00:34
 Client Smp ID: 5037756004
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	429813	214907	859626	412873	-3.94
59 Chlorobenzene-d5	321998	160999	643996	301582	-6.34
82 1,4-Dichlorobenze	141604	70802	283208	137221	-3.10

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.08	3.58	4.58	4.16	2.16
59 Chlorobenzene-d5	7.34	6.84	7.84	7.40	0.78
82 1,4-Dichlorobenze	9.09	8.59	9.59	9.14	0.63

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052710.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756004 Client Smp ID: 5037756004
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052710.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	49.6	99.20	82-122
\$ 49 Toluene-d8	50.0	52.2	104.35	80-120
\$ 70 4-Bromofluorobenze	50.0	50.7	101.33	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: a052710.b
Lab Smp Id: 5037756004	Client Smp ID: 5037756004
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	19.6	
156-60-5-----	1,2-Dichloroethene (trans)	21.6	
156-59-2-----	1,2-Dichloroethene (cis)	532	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	49.6	
2037-26-5-----	Toluene-d8	52.2	
460-00-4-----	4-Bromofluorobenzene	50.7	

Date: 27-MAY-2010 17:11

Client ID: 5037756004

Instrument: 50HSV2.i

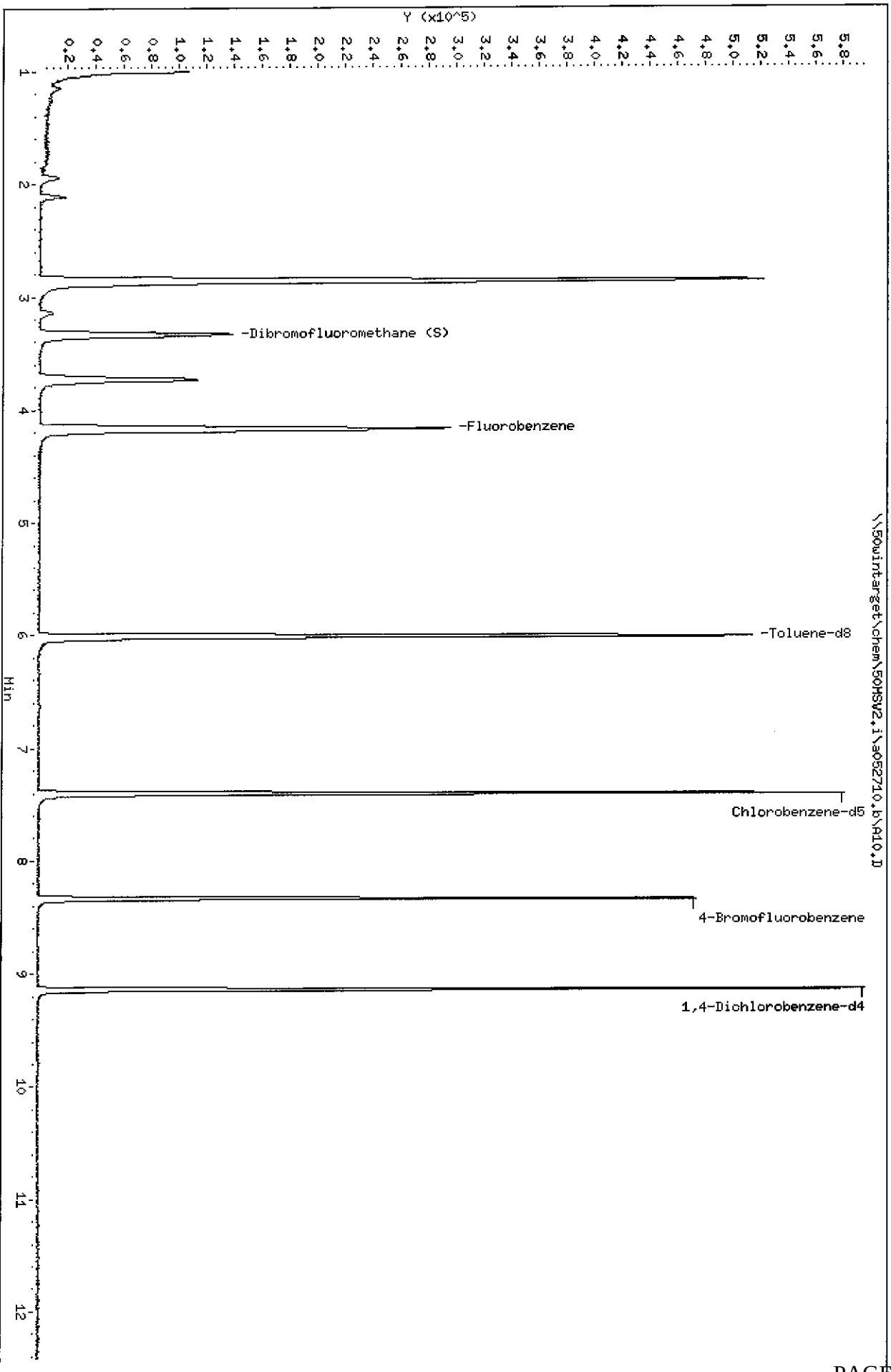
Sample Info: r5037756004.5

Purge Volume: 5.0

Operator: jlf

Column phase: DB-624

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A15.D
Lab Smp Id: 5037756005 Client Smp ID: 5037756005
Inj Date : 26-MAY-2010 19:46
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5037756005
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
3 Vinyl Chloride	62	0.99722	0.997	1.120	1.113	(0.278)	3486
25 1,2-Dichloroethene (cis)	96	5.63957	5.64	2.769	2.762	(0.686)	19311
\$ 32 Dibromofluoromethane (S)	113	51.1450	51.1	3.224	3.222	(0.799)	149411
* 40 Fluorobenzene	96	50.0000		4.035	4.039	(1.000)	465221
\$ 49 Toluene-d8	98	50.5968	50.6	5.906	5.910	(0.807)	401759
50 Toluene	91	0.09152	0.0915	5.984	5.982	(0.817)	979
* 59 Chlorobenzene-d5	117	50.0000		7.322	7.326	(1.000)	340776
\$ 70 4-Bromofluorobenzene	95	52.0610	52.1	8.258	8.261	(1.128)	164099
* 82 1,4-Dichlorobenzene-d4	152	50.0000		9.069	9.068	(1.000)	153241

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A15.D
Lab Smp Id: 5037756005
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A15.D
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756005
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	465221	1.86
59 Chlorobenzene-d5	337893	168947	675786	340776	0.85
82 1,4-Dichlorobenze	147661	73831	295322	153241	3.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	-0.09
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.05
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756005 Client Smp ID: 5037756005
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.1	102.29	82-122
\$ 49 Toluene-d8	50.0	50.6	101.19	80-120
\$ 70 4-Bromofluorobenze	50.0	52.1	104.12	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

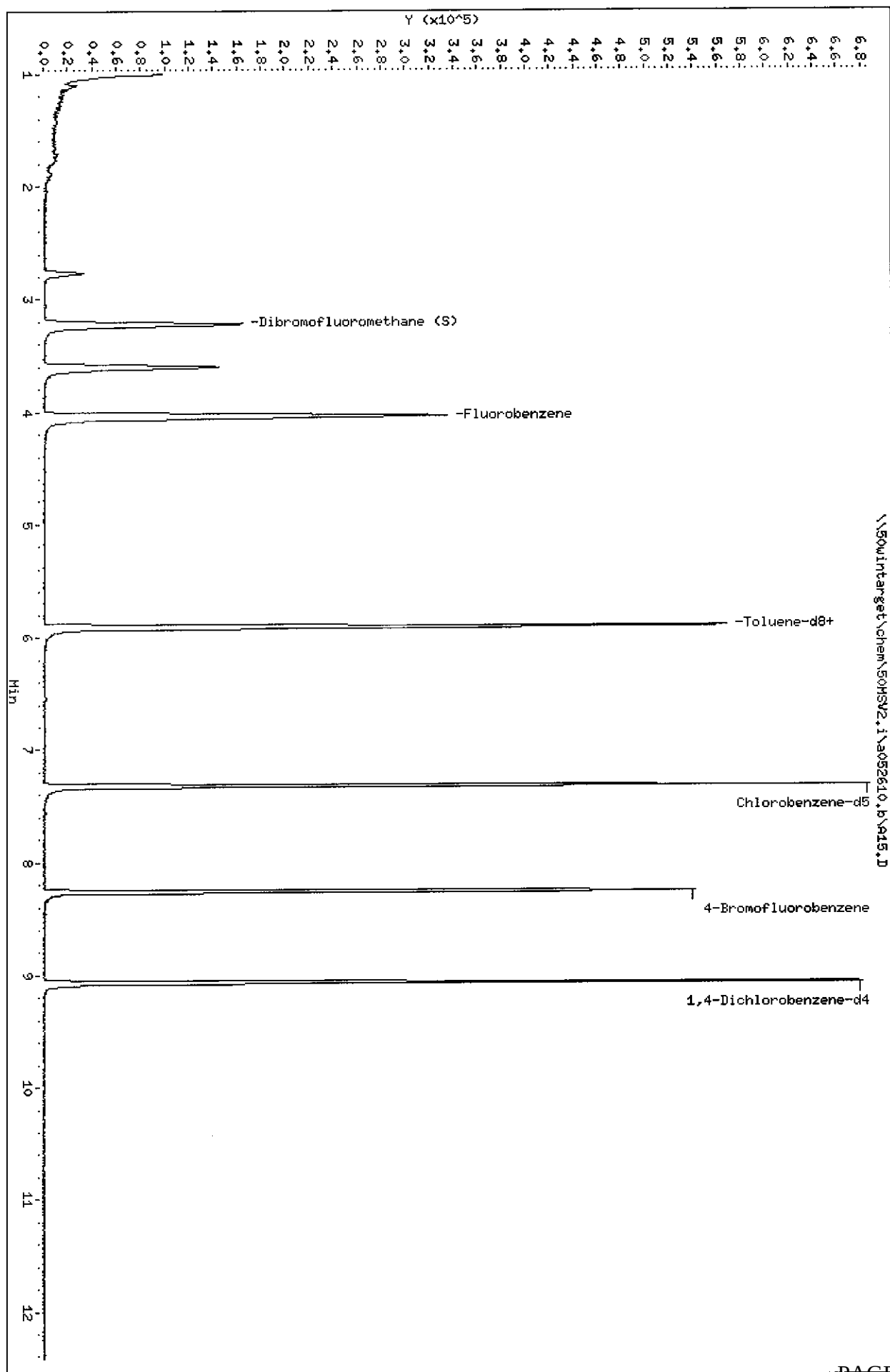
Client Name:
Lab Smp Id: 5037756005
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: 5037756005
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	0.997	
156-59-2-----	1,2-Dichloroethene (cis)	5.64	
108-88-3-----	Toluene	0.0915	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.1	
2037-26-5-----	Toluene-d8	50.6	
460-00-4-----	4-Bromofluorobenzene	52.1	

Data File: \\50wintarget\chem\50MSV2.1\9052610.b\A15.D
Date: 26-MAY-2010 19:46
Client ID: 5037756005
Sample Info: 5037756005
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.1
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052710.b\A11.D
Lab Smp Id: 5037756005 Client Smp ID: 5037756005
Inj Date : 27-MAY-2010 17:46
Operator : jlf Inst ID: 50MSV2.i
Smp Info : r5037756005
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
Meth Date : 28-May-2010 11:17 jfislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 23
Dil Factor: 1.10000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.100	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

/RPT 1200E
Due to Carryover
in 1st RUN

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.141	1.130	(0.274)	3474	1.10669	1.22	
25 1,2-Dichloroethene (cis)	96	2.862	2.795	(0.687)	10463	3.40277	3.74	
\$ 32 Dibromofluoromethane (S)	113	3.333	3.255	(0.800)	134659	51.3324	51.3	
* 40 Fluorobenzene	96	4.165	4.076	(1.000)	417757	50.0000		
\$ 49 Toluene-d8	98	6.010	5.937	(0.812)	376807	51.6138	51.6	
50 Toluene	91	6.093	6.009	(0.823)	941	0.09568	0.105	
* 59 Chlorobenzene-d5	117	7.406	7.343	(1.000)	313314	50.0000		
\$ 70 4-Bromofluorobenzene	95	8.336	8.278	(1.126)	148462	51.2284	51.2	
* 82 1,4-Dichlorobenzene-d4	152	9.142	9.085	(1.000)	141494	50.0000		

5-28-10

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A11.D
Lab Smp Id: 5037756005
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 00:34
Client Smp ID: 5037756005
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	429813	214907	859626	417757	-2.80
59 Chlorobenzene-d5	321998	160999	643996	313314	-2.70
82 1,4-Dichlorobenze	141604	70802	283208	141494	-0.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.08	3.58	4.58	4.17	2.17
59 Chlorobenzene-d5	7.34	6.84	7.84	7.41	0.85
82 1,4-Dichlorobenze	9.09	8.59	9.59	9.14	0.63

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052710.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756005 Client Smp ID: 5037756005
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052710.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.3	102.66	82-122
\$ 49 Toluene-d8	50.0	51.6	103.23	80-120
\$ 70 4-Bromofluorobenze	50.0	51.2	102.46	73-120

Pace Analytical Services, Inc.

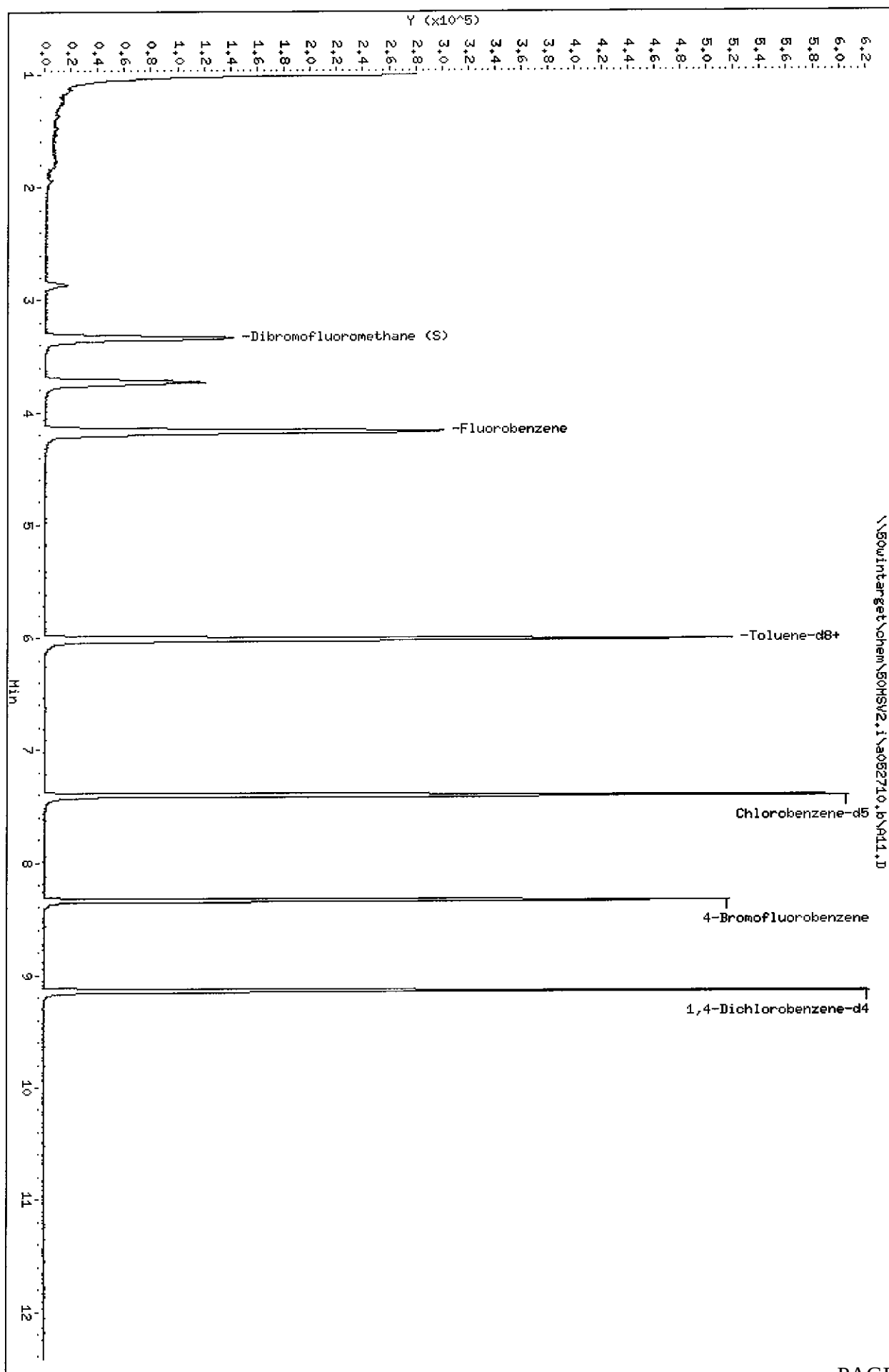
TARGET COMPOUNDS

Client Name:	Client SDG: a052710.b
Lab Smp Id: 5037756005	Client Smp ID: 5037756005
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	1.22	
156-59-2-----	1,2-Dichloroethene (cis)	3.74	
108-88-3-----	Toluene	0.105	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.3	
2037-26-5-----	Toluene-d8	51.6	
460-00-4-----	4-Bromofluorobenzene	51.2	

Data File: \\50wintarget\chem\50HSV2.i\A052710.b\A11.D
Date: 27-MAY-2010 17:46
Client ID: 5037756005
Sample Info: r5037756005
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50HSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A16.D
 Lab Smp Id: 5037756006 Client Smp ID: 5037756006
 Inj Date : 26-MAY-2010 20:20
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756006
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislars Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 33
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
=====	=====	=====	=====	=====	=====	=====	=====
3 Vinyl Chloride	62	0.95456	0.954	1.114	1.113	(0.276)	3401
25 1,2-Dichloroethene (cis)	96	2.77737	2.78	2.768	2.762	(0.685)	9693
\$ 32 Dibromofluoromethane (S)	113	51.4198	51.4	3.223	3.222	(0.798)	153100
* 40 Fluorobenzene	96	50.0000		4.040	4.039	(1.000)	474160
\$ 49 Toluene-d8	98	51.0290	51.0	5.911	5.910	(0.807)	418000
50 Toluene	91	0.08047	0.0805 (Q)	5.983	5.982	(0.817)	888
* 59 Chlorobenzene-d5	117	50.0000		7.322	7.326	(1.000)	351549
\$ 70 4-Bromofluorobenzene	95	53.1839	53.2	8.262	8.261	(1.128)	172938
* 82 1,4-Dichlorobenzene-d4	152	50.0000		9.068	9.068	(1.000)	159094

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A16.D
Lab Smp Id: 5037756006
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A16.D
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756006
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	474160	3.82
59 Chlorobenzene-d5	337893	168947	675786	351549	4.04
82 1,4-Dichlorobenze	147661	73831	295322	159094	7.74

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	0.02
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.06
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756006 Client Smp ID: 5037756006
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.4	102.84	82-122
\$ 49 Toluene-d8	50.0	51.0	102.06	80-120
\$ 70 4-Bromofluorobenze	50.0	53.2	106.37	73-120

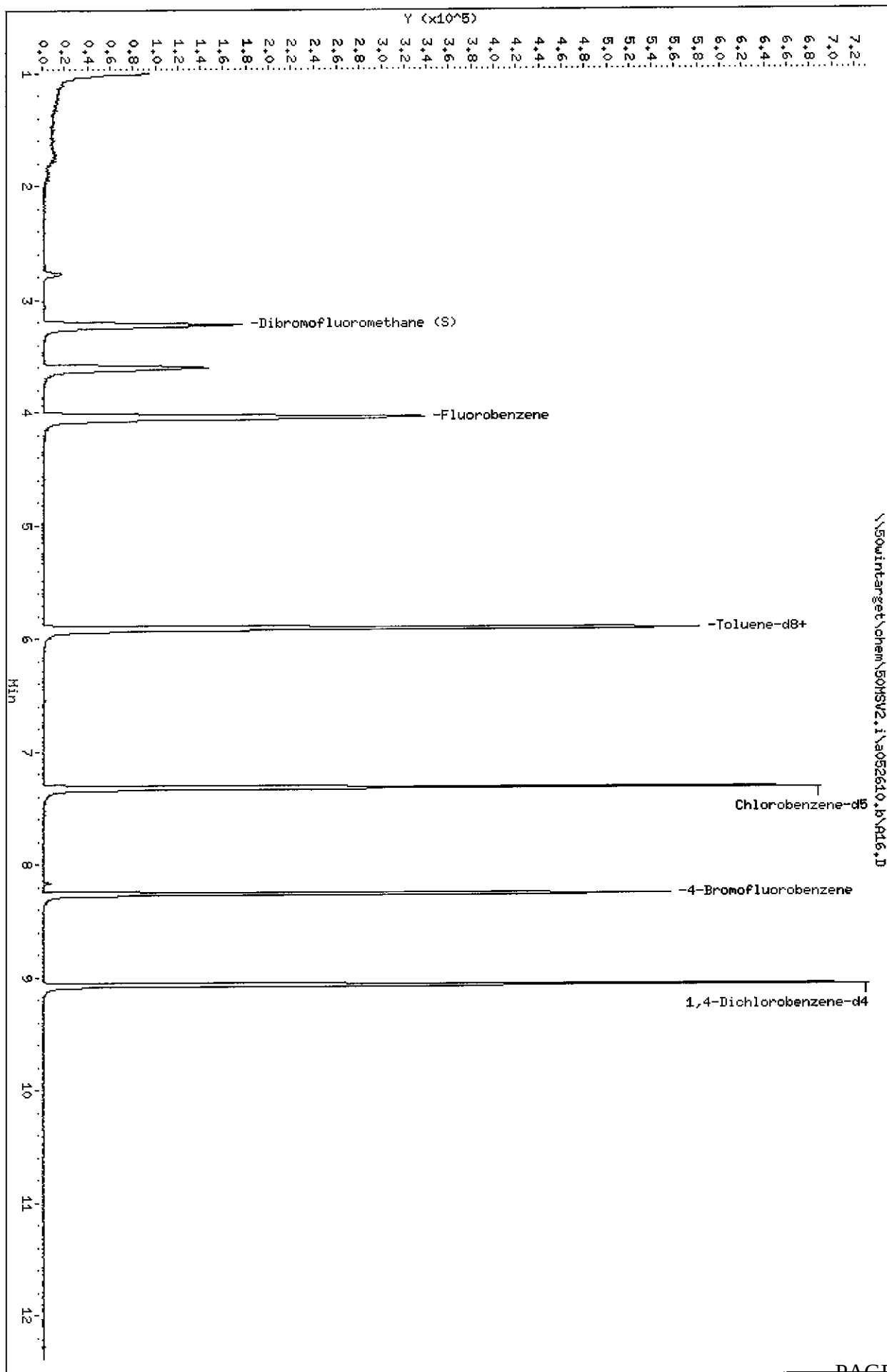
Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5037756006
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: 5037756006
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	0.954	
156-59-2-----	1,2-Dichloroethene (cis)	2.78	
108-88-3-----	Toluene	0.0805	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.4	
2037-26-5-----	Toluene-d8	51.0	
460-00-4-----	4-Bromofluorobenzene	53.2	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A17.D
 Lab Smp Id: 5037756007 Client Smp ID: 5037756007
 Inj Date : 26-MAY-2010 20:55
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756007hs
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislal Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 35
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
=====	=====	=====	=====	=====	=====	=====	=====
3 Vinyl Chloride	62	1.115	1.113 (0.276)	571468	163.648	164	
18 1,2-Dichloroethene (trans)	96	2.035	2.039 (0.504)	3102	1.40376	1.40	
25 1,2-Dichloroethene (cis)	96	2.764	2.762 (0.685)	549564	160.663	161	
\$ 32 Dibromofluoromethane (S)	113	3.219	3.222 (0.798)	149715	51.3030	51.3	
* 40 Fluorobenzene	96	4.036	4.039 (1.000)	464732	50.0000		
\$ 49 Toluene-d8	98	5.907	5.910 (0.807)	409150	50.8327	50.8	
50 Toluene	91	5.984	5.982 (0.817)	2626	0.24219	0.242	
* 59 Chlorobenzene-d5	117	7.323	7.326 (1.000)	345435	50.0000		
\$ 70 4-Bromofluorobenzene	95	8.258	8.261 (1.128)	163246	51.0918	51.1	
* 82 1,4-Dichlorobenzene-d4	152	9.070	9.068 (1.000)	154734	50.0000		

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A17.D
 Lab Smp Id: 5037756007
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A17.D
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756007
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	464732	1.75
59 Chlorobenzene-d5	337893	168947	675786	345435	2.23
82 1,4-Dichlorobenze	147661	73831	295322	154734	4.79

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.04	-0.08
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.04
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756007 Client Smp ID: 5037756007
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.3	102.61	82-122
\$ 49 Toluene-d8	50.0	50.8	101.67	80-120
\$ 70 4-Bromofluorobenze	50.0	51.1	102.18	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756007
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.B
Client Smp ID: 5037756007
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	164	
156-60-5-----	1,2-Dichloroethene (trans)	1.40	
156-59-2-----	1,2-Dichloroethene (cis)	161	
108-88-3-----	Toluene	0.242	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.3	
2037-26-5-----	Toluene-d8	50.8	
460-00-4-----	4-Bromofluorobenzene	51.1	

Date: 26-MAY-2010 20:55

Client ID: 5037756007

Sample Info: 5037756007hs

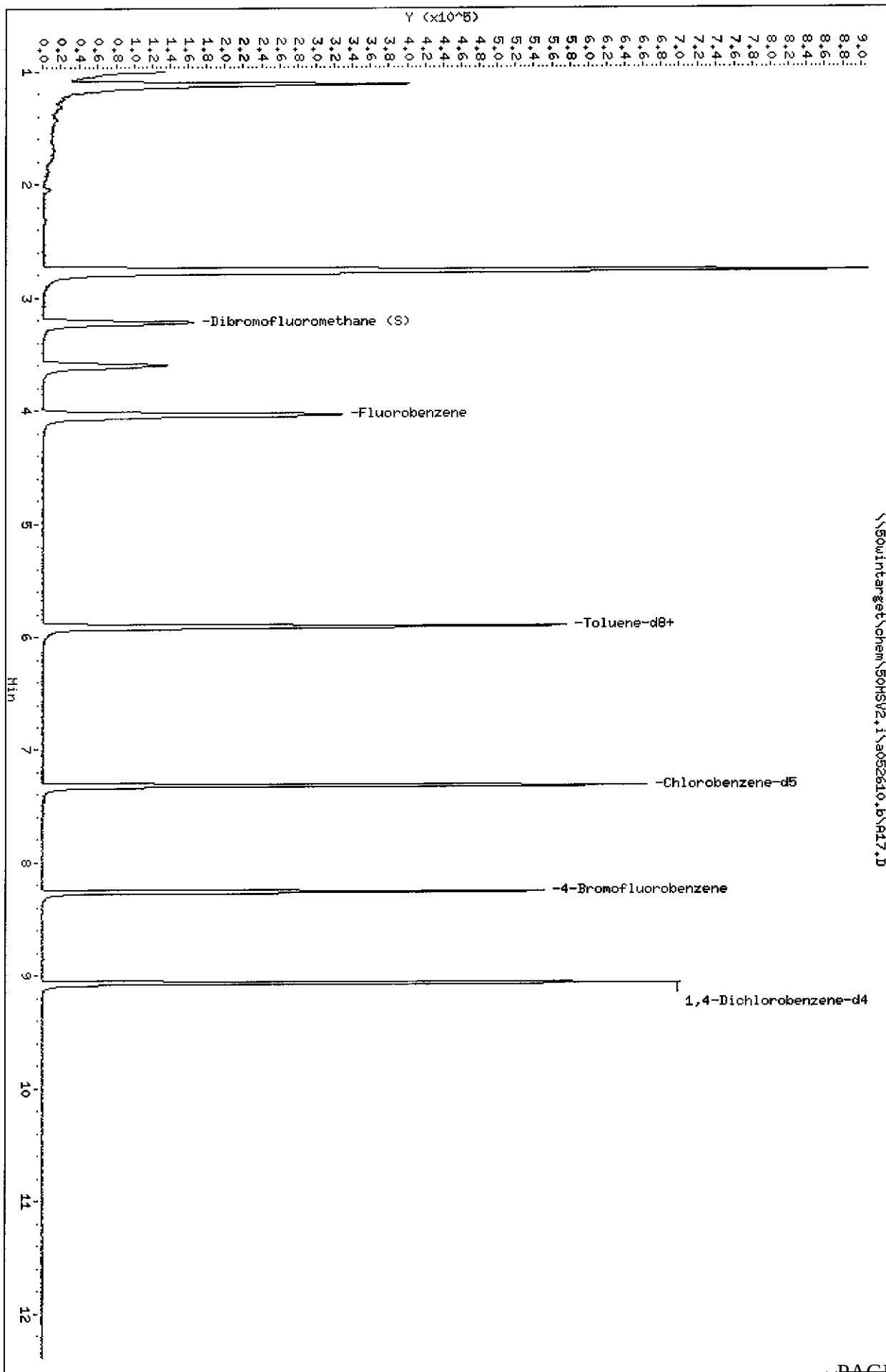
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A07.D
 Lab Smp Id: 5037756008 Client Smp ID: 5037756008
 Inj Date : 26-MAY-2010 15:10
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756008
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-cl.m
 Meth Date : 27-May-2010 15:38 jfislal Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.115	1.113 (0.276)		825110	234.944	235
9 1,1-Dichloroethene	96	1.637	1.630 (0.406)		10110	3.95034	3.95
18 1,2-Dichloroethene (trans)	96	2.045	2.039 (0.507)		13602	5.46011	5.46
25 1,2-Dichloroethene (cis)	96	2.759	2.762 (0.684)		2573257	748.024	748
\$ 32 Dibromofluoromethane (S)	113	3.219	3.222 (0.798)		149417	50.9110	50.9
* 40 Fluorobenzene	96	4.035	4.039 (1.000)		467378	50.0000	
\$ 49 Toluene-d8	98	5.906	5.910 (0.807)		413509	51.4007	51.4
* 59 Chlorobenzene-d5	117	7.317	7.326 (1.000)		345257	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.258	8.261 (1.129)		167661	52.5007	52.5
* 82 1,4-Dichlorobenzene-d4	152	9.064	9.068 (1.000)		153849	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A07.D
 Lab Smp Id: 5037756008
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A07.D
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756008
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	467378	2.33
59 Chlorobenzene-d5	337893	168947	675786	345257	2.18
82 1,4-Dichlorobenze	147661	73831	295322	153849	4.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	-0.09
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.12
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.06	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756008 Client Smp ID: 5037756008
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.9	101.82	82-122
\$ 49 Toluene-d8	50.0	51.4	102.80	80-120
\$ 70 4-Bromofluorobenze	50.0	52.5	105.00	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: a052610.b
Lab Smp Id: 5037756008	Client Smp ID: 5037756008
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	235	
75-35-4-----	1,1-Dichloroethene	3.95	
156-60-5-----	1,2-Dichloroethene (trans)	5.46	
156-59-2-----	1,2-Dichloroethene (cis)	748	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.9	
2037-26-5-----	Toluene-d8	51.4	
460-00-4-----	4-Bromofluorobenzene	52.5	

Date: 26-MAY-2010 15:10

Client ID: 5037756008

Sample Info: 5037756008

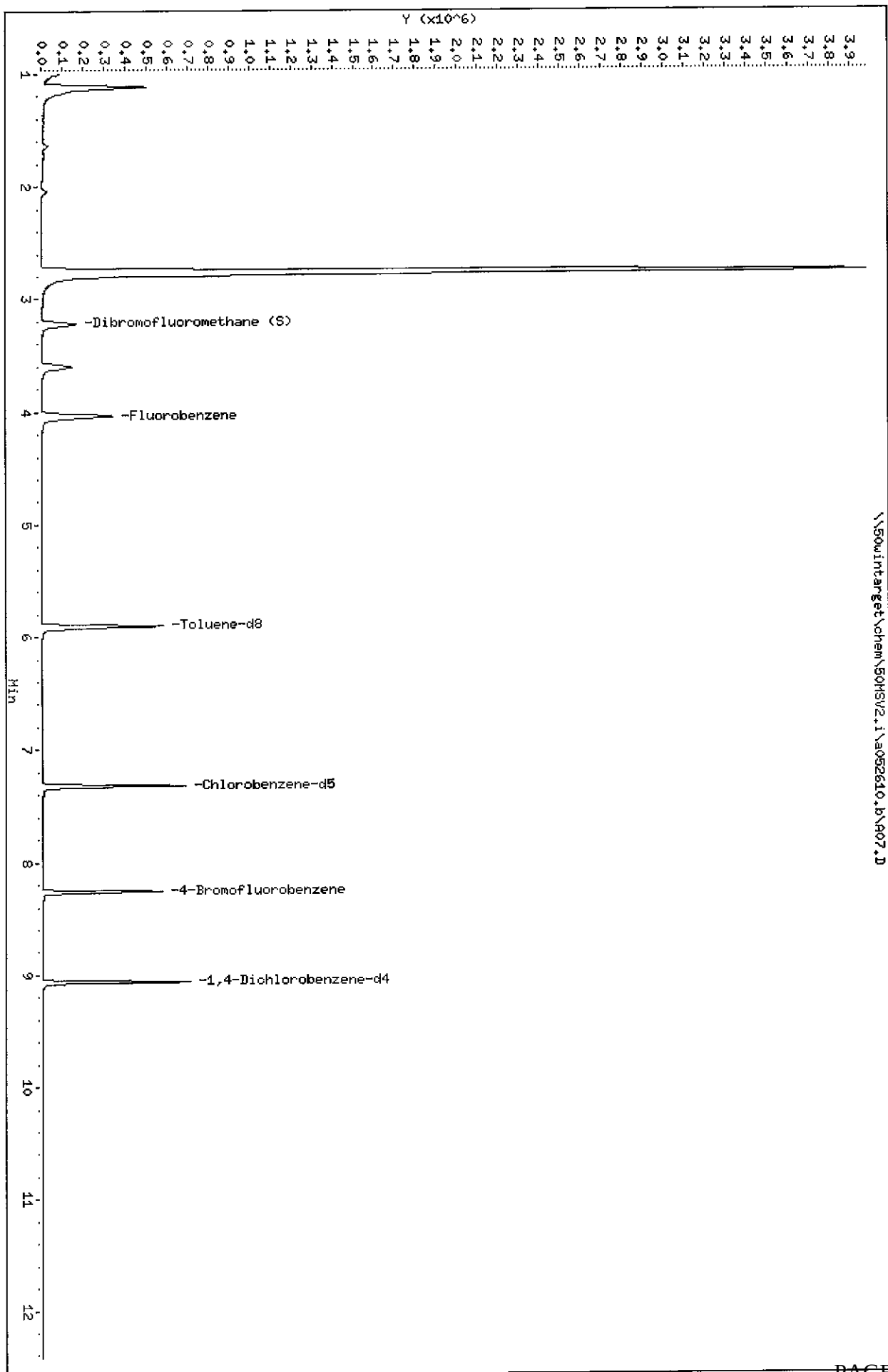
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052710.b\A09.D
Lab Smp Id: 5037756008 Client Smp ID: 5037756008
Inj Date : 27-MAY-2010 16:37
Operator : jlf Inst ID: 50MSV2.i
Smp Info : r5037756008,10
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052710.b\A09.D
Meth Date : 28-May-2010 11:17 jffislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 19
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.147	1.130	(0.276)	59014	20.2208	202
18 1,2-Dichloroethene (trans)	96	2.118	2.061	(0.509)	920	0.62494	6.25
25 1,2-Dichloroethene (cis)	96	2.858	2.795	(0.687)	238672	83.4877	835
\$ 32 Dibromofluoromethane (S)	113	3.333	3.255	(0.801)	125102	51.2938	51.3
* 40 Fluorobenzene	96	4.160	4.076	(1.000)	388400	50.0000	
\$ 49 Toluene-d8	98	6.005	5.937	(0.811)	337001	51.1047	51.1
* 59 Chlorobenzene-d5	117	7.401	7.343	(1.000)	283007	50.0000	
62 Ethylbenzene	106	7.623	7.472	(1.030)	119	0.03807	0.381(Q)
\$ 70 4-Bromofluorobenzene	95	8.331	8.278	(1.126)	133229	50.8952	50.9
* 82 1,4-Dichlorobenzene-d4	152	9.137	9.085	(1.000)	126418	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A09.D
 Lab Smp Id: 5037756008
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052710.b\A09.D
 Misc Info:

Calibration Date: 28-MAY-2010
 Calibration Time: 00:34
 Client Smp ID: 5037756008
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	429813	214907	859626	388400	-9.64
59 Chlorobenzene-d5	321998	160999	643996	283007	-12.11
82 1,4-Dichlorobenze	141604	70802	283208	126418	-10.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.08	3.58	4.58	4.16	2.05
59 Chlorobenzene-d5	7.34	6.84	7.84	7.40	0.79
82 1,4-Dichlorobenze	9.09	8.59	9.59	9.14	0.58

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052710.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756008 Client Smp ID: 5037756008
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052710.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.3	102.59	82-122
\$ 49 Toluene-d8	50.0	51.1	102.21	80-120
\$ 70 4-Bromofluorobenze	50.0	50.9	101.79	73-120

Pace Analytical Services, Inc.

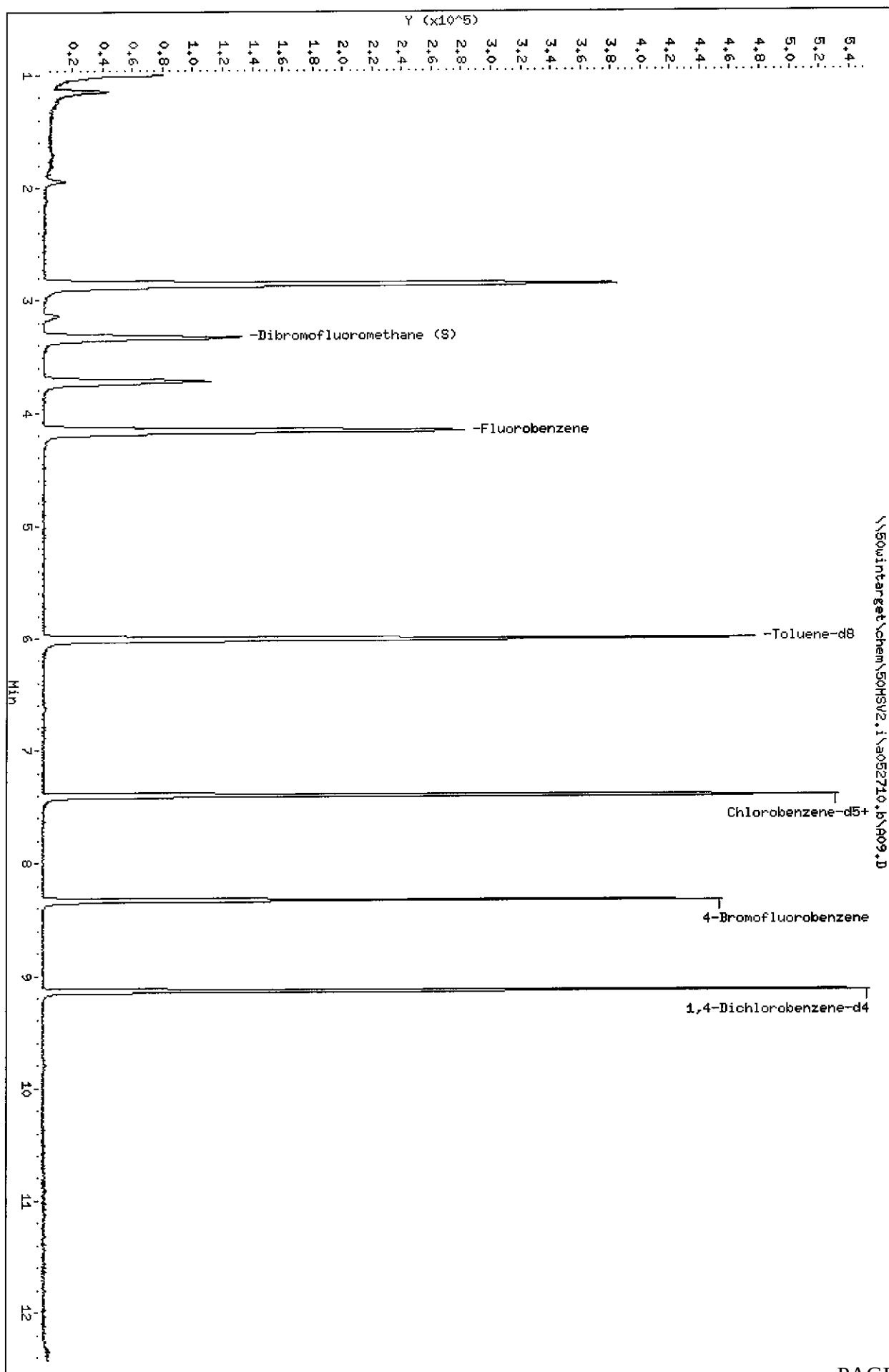
TARGET COMPOUNDS

Client Name:	Client SDG: a052710.b
Lab Smp Id: 5037756008	Client Smp ID: 5037756008
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	202	
156-60-5-----	1,2-Dichloroethene (trans)_____	6.25	
156-59-2-----	1,2-Dichloroethene (cis)_____	835	
100-41-4-----	Ethylbenzene	0.381	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)_____	51.3	
2037-26-5-----	Toluene-d8	51.1	
460-00-4-----	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV2.1\A052710.b\A09.D
Date: 27-MAY-2010 16:37
Client ID: 5037756008
Sample Info: r5037756008.10
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.1
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A18.D
Lab Smp Id: 5037756009 Client Smp ID: 5037756009
Inj Date : 26-MAY-2010 21:29
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5037756009
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\A18.D
Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
3 Vinyl Chloride	62	6.60847	6.61	1.116	1.113	(0.277)	23134
9 1,1-Dichloroethene	96	0.36651	0.366	1.638	1.630	(0.406)	935
18 1,2-Dichloroethene (trans)	96	6.08113	6.08	2.041	2.039	(0.506)	15158
25 1,2-Dichloroethene (cis)	96	145.295	145	2.765	2.762	(0.685)	498221
\$ 32 Dibromofluoromethane (S)	113	51.3413	51.3	3.219	3.222	(0.798)	150196
* 40 Fluorobenzene	96	50.0000		4.036	4.039	(1.000)	465877
\$ 49 Toluene-d8	98	51.2871	51.3	5.907	5.910	(0.807)	408435
* 59 Chlorobenzene-d5	117	50.0000		7.323	7.326	(1.000)	341776
\$ 70 4-Bromofluorobenzene	95	52.6055	52.6	8.259	8.261	(1.128)	166302
* 82 1,4-Dichlorobenzene-d4	152	50.0000		9.070	9.068	(1.000)	154228

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A18.D
 Lab Smp Id: 5037756009
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756009
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	465877	2.00
59 Chlorobenzene-d5	337893	168947	675786	341776	1.15
82 1,4-Dichlorobenze	147661	73831	295322	154228	4.45

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.04	-0.07
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.04
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.03

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756009 Client Smp ID: 5037756009
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.3	102.68	82-122
\$ 49 Toluene-d8	50.0	51.3	102.57	80-120
\$ 70 4-Bromofluorobenze	50.0	52.6	105.21	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: a052610.b
Lab Smp Id: 5037756009	Client Smp ID: 5037756009
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	6.61	
75-35-4-----	1,1-Dichloroethene	0.366	
156-60-5-----	1,2-Dichloroethene (trans)	6.08	
156-59-2-----	1,2-Dichloroethene (cis)	145	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.3	
2037-26-5-----	Toluene-d8	51.3	
460-00-4-----	4-Bromofluorobenzene	52.6	

Date: 26-MAY-2010 21:29

Client ID: 5037756009

Sample Info: 5037756009

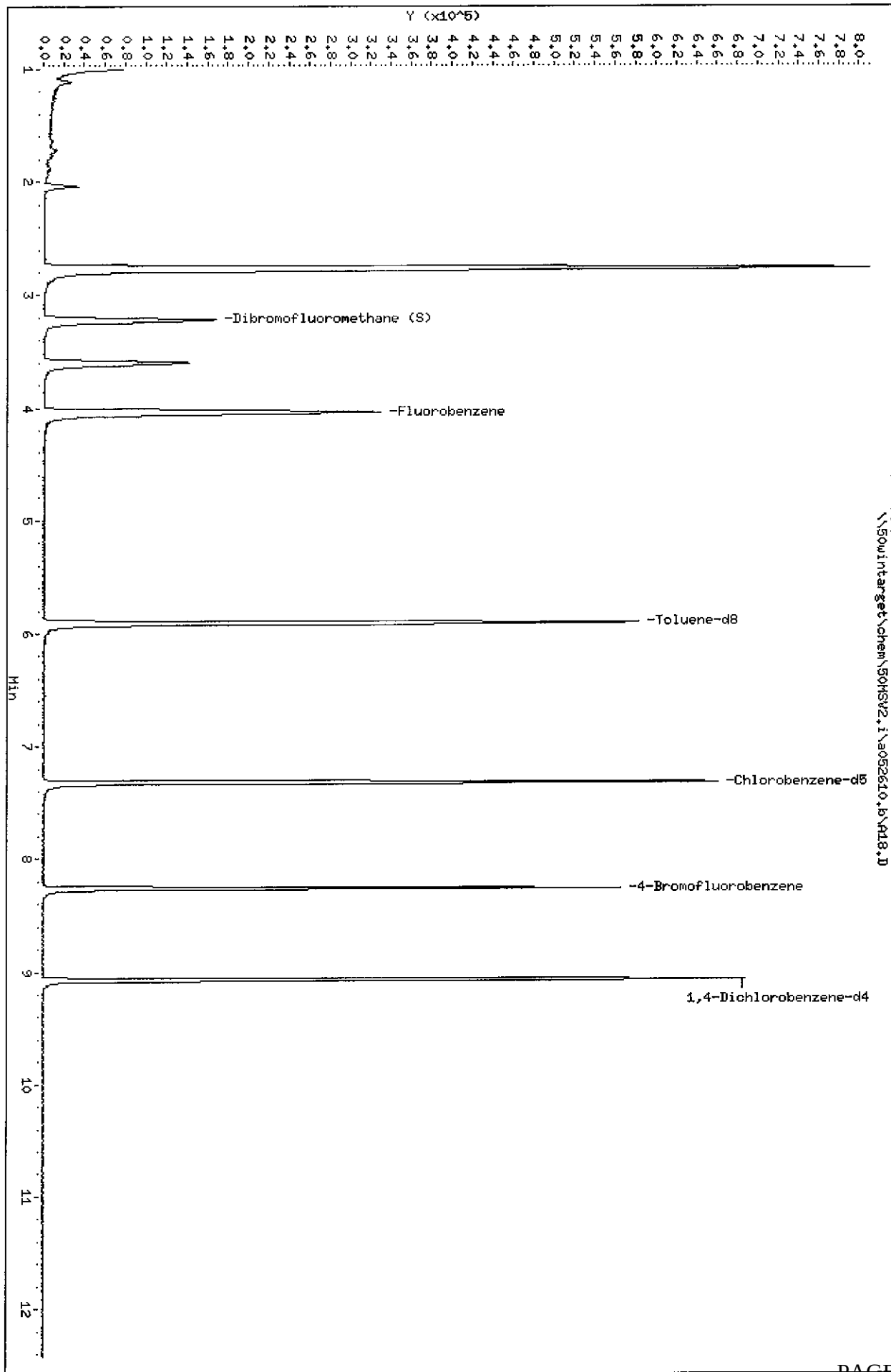
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A19.D
 Lab Smp Id: 5037756010 Client Smp ID: 5037756010
 Inj Date : 26-MAY-2010 22:03
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756010
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 39
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.110	1.113	(0.275)	4645	1.31860	1.32
18 1,2-Dichloroethene (trans)	96	2.040	2.039	(0.505)	4953	2.10736	2.11
21 1,1-Dichloroethane	63	2.314	2.313	(0.573)	14648	2.83645	2.84
25 1,2-Dichloroethene (cis)	96	2.764	2.762	(0.684)	58143	16.8501	16.8
\$ 32 Dibromofluoromethane (S)	113	3.224	3.222	(0.798)	151146	51.3430	51.3
33 1,1,1-Trichloroethane	97	3.245	3.248	(0.803)	5090	1.09312	1.09
* 40 Fluorobenzene	96	4.041	4.039	(1.000)	468808	50.0000	
41 Trichloroethene	95	4.506	4.504	(1.115)	277263	94.1635	94.2
\$ 49 Toluene-d8	98	5.912	5.910	(0.807)	407716	51.3193	51.3
* 59 Chlorobenzene-d5	117	7.323	7.326	(1.000)	340960	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.258	8.261	(1.128)	165152	52.3668	52.4
* 82 1,4-Dichlorobenzene-d4	152	9.070	9.068	(1.000)	153288	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A19.D
 Lab Smp Id: 5037756010
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756010
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	468808	2.64
59 Chlorobenzene-d5	337893	168947	675786	340960	0.91
82 1,4-Dichlorobenze	147661	73831	295322	153288	3.81

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.04	0.04
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.05
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756010 Client Smp ID: 5037756010
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.3	102.69	82-122
\$ 49 Toluene-d8	50.0	51.3	102.64	80-120
\$ 70 4-Bromofluorobenze	50.0	52.4	104.73	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756010
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: 5037756010
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	1.32	
156-60-5-----	1,2-Dichloroethene (trans)	2.11	
75-34-3-----	1,1-Dichloroethane	2.84	
156-59-2-----	1,2-Dichloroethene (cis)	16.8	
71-55-6-----	1,1,1-Trichloroethane	1.09	
79-01-6-----	Trichloroethene	94.2	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.3	
2037-26-5-----	Toluene-d8	51.3	
460-00-4-----	4-Bromofluorobenzene	52.4	

Data File: \\50wintarget\chem\50HSV2.1\A052610.b\A19.D
Date : 26-MAY-2010 22:03

Client ID: 5037756010

Sample Info: 5037756010

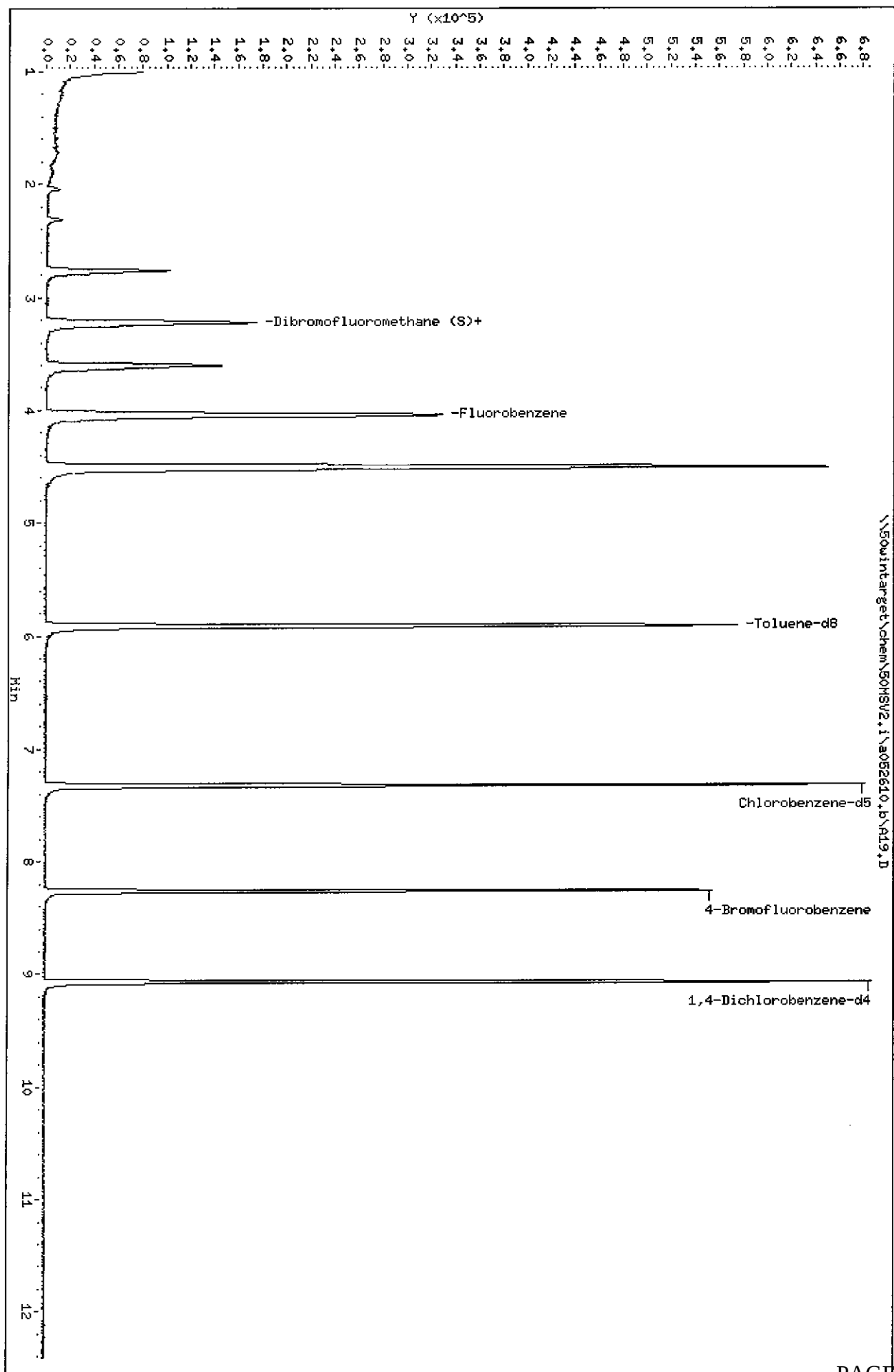
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.1

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A08.D
 Lab Smp Id: 5037756011 Client Smp ID: 5037756011
 Inj Date : 26-MAY-2010 15:44
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756011
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	RBL RT	RESPONSE	(ppb)	(ppb)
-----	----	----	-----	-----	-----	-----	-----
3 Vinyl Chloride	62	1.111	1.113 (0.276)		67500	19.3406	19.3
9 1,1-Dichloroethene	96	1.638	1.630 (0.406)		2090	0.82175	0.822 (H)
18 1,2-Dichloroethene (trans)	96	2.041	2.039 (0.506)		74833	29.3361	29.3
21 1,1-Dichloroethane	63	2.315	2.313 (0.574)		16127	3.15203	3.15
25 1,2-Dichloroethene (cis)	96	2.759	2.762 (0.685)		1008771	295.078	295
\$ 32 Dibromofluoromethane (S)	113	3.219	3.222 (0.799)		147216	50.4753	50.5
* 40 Fluorobenzene	96	4.031	4.039 (1.000)		464468	50.0000	
41 Trichloroethene	95	4.496	4.504 (1.115)		291582	99.9518	100
\$ 49 Toluene-d8	98	5.907	5.910 (0.807)		407184	50.5054	50.5
50 Toluene	91	5.974	5.982 (0.816)		1309	0.12053	0.120 (Q)
* 59 Chlorobenzene-d5	117	7.318	7.326 (1.000)		346003	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.259	8.261 (1.129)		168087	52.5206	52.5
* 82 1,4-Dichlorobenzene-d4	152	9.065	9.068 (1.000)		154988	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 H - Operator selected an alternate compound hit.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A08.D
Lab Smp Id: 5037756011
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A08.D
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756011
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	464468	1.69
59 Chlorobenzene-d5	337893	168947	675786	346003	2.40
82 1,4-Dichlorobenze	147661	73831	295322	154988	4.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.03	-0.20
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.11
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756011 Client Smp ID: 5037756011
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.5	100.95	82-122
\$ 49 Toluene-d8	50.0	50.5	101.01	80-120
\$ 70 4-Bromofluorobenze	50.0	52.5	105.04	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5037756011
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: 5037756011
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	19.3	
75-35-4-----	1,1-Dichloroethene	0.822	
156-60-5-----	1,2-Dichloroethene (trans)	29.3	
75-34-3-----	1,1-Dichloroethane	3.15	
156-59-2-----	1,2-Dichloroethene (cis)	295	
79-01-6-----	Trichloroethene	100	
108-88-3-----	Toluene	0.120	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.5	
2037-26-5-----	Toluene-d8	50.5	
460-00-4-----	4-Bromofluorobenzene	52.5	

Date: 26-May-2010 15:44

Client ID: 5037756011

Sample Info: 5037756011

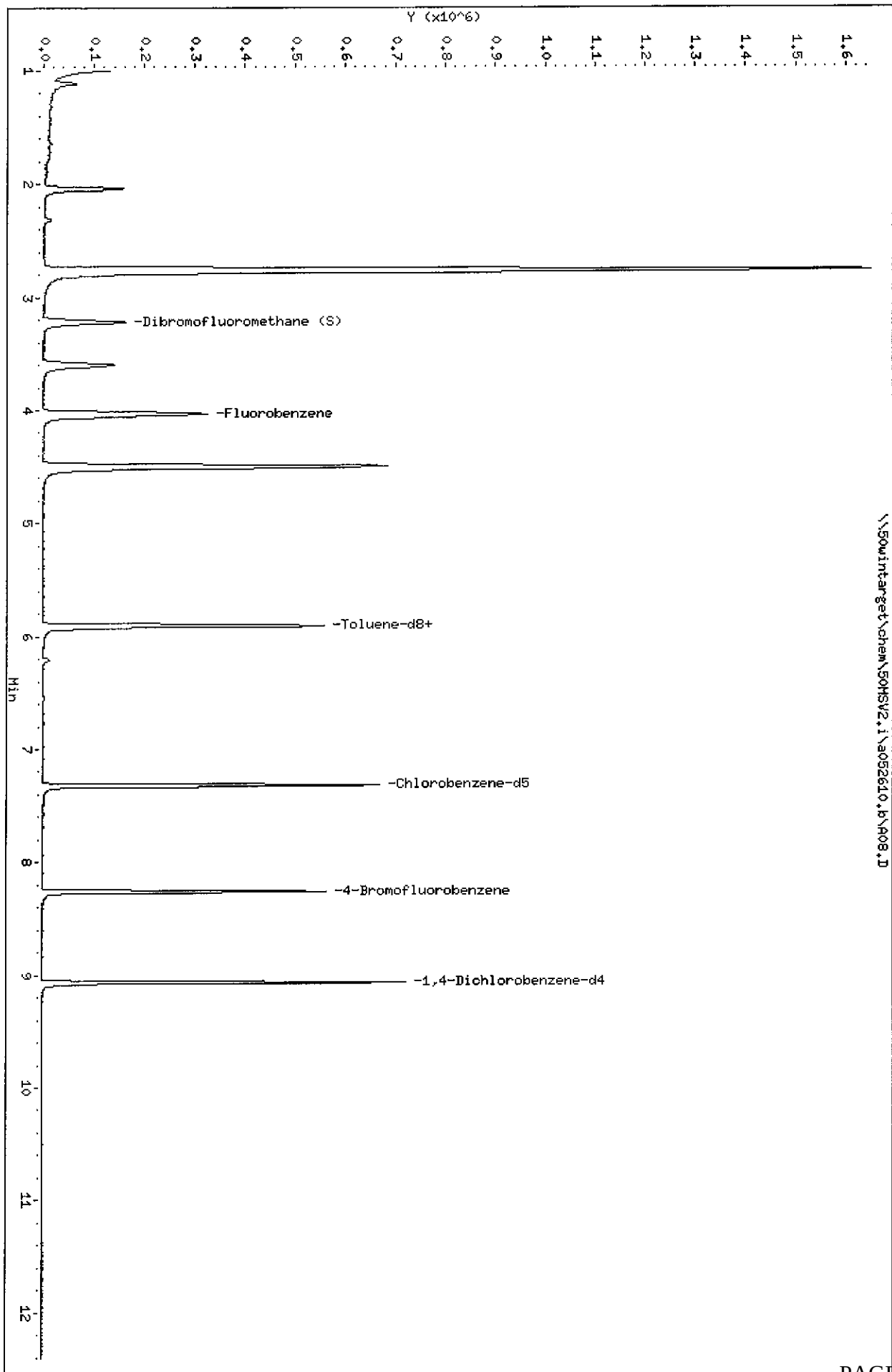
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C04.D
 Lab Smp Id: 5037756012 Client Smp ID: 5037756012
 Inj Date : 27-MAY-2010 01:28
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756012
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jffislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 53
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
18 1,2-Dichloroethene (trans)	96	2.041	2.039 (0.504)		2548	1.20773	1.21
25 1,2-Dichloroethene (cis)	96	2.775	2.762 (0.686)		27854	8.30381	8.30
\$ 32 Dibromofluoromethane (S)	113	3.225	3.222 (0.797)		146350	51.1402	51.1
* 40 Fluorobenzene	96	4.046	4.039 (1.000)		455733	50.0000	
41 Trichloroethene	95	4.506	4.504 (1.114)		320435	111.948	112
\$ 49 Toluene-d8	98	5.917	5.910 (0.808)		403191	51.7573	51.8
50 Toluene	91	5.990	5.982 (0.818)		1695	0.16152	0.162(Q)
* 59 Chlorobenzene-d5	117	7.323	7.326 (1.000)		334323	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.264	8.261 (1.128)		158076	51.1181	51.1
* 82 1,4-Dichlorobenzene-d4	152	9.070	9.068 (1.000)		147999	50.0000	
92 2-methyl-naphthalene	142	11.163	11.156 (1.231)		975	5.50508	5.50

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C04.D
 Lab Smp Id: 5037756012
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756012
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	455733	-0.22
59 Chlorobenzene-d5	337893	168947	675786	334323	-1.06
82 1,4-Dichlorobenze	147661	73831	295322	147999	0.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.19
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.04
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.03

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756012 Client Smp ID: 5037756012
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.1	102.28	82-122
\$ 49 Toluene-d8	50.0	51.8	103.51	80-120
\$ 70 4-Bromofluorobenze	50.0	51.1	102.24	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756012
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: 5037756012
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5-----	1,2-Dichloroethene (trans)_____	1.21	
156-59-2-----	1,2-Dichloroethene (cis)_____	8.30	
79-01-6-----	Trichloroethene_____	112	
108-88-3-----	Toluene_____	0.162	
-----	2,methyl-naphthalene_____	5.50	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)_____	51.1	
2037-26-5-----	Toluene-d8_____	51.8	
460-00-4-----	4-Bromofluorobenzene_____	51.1	

Date : 27-MAY-2010 01:28

Client ID: 5037756012

Sample Info: 5037756012

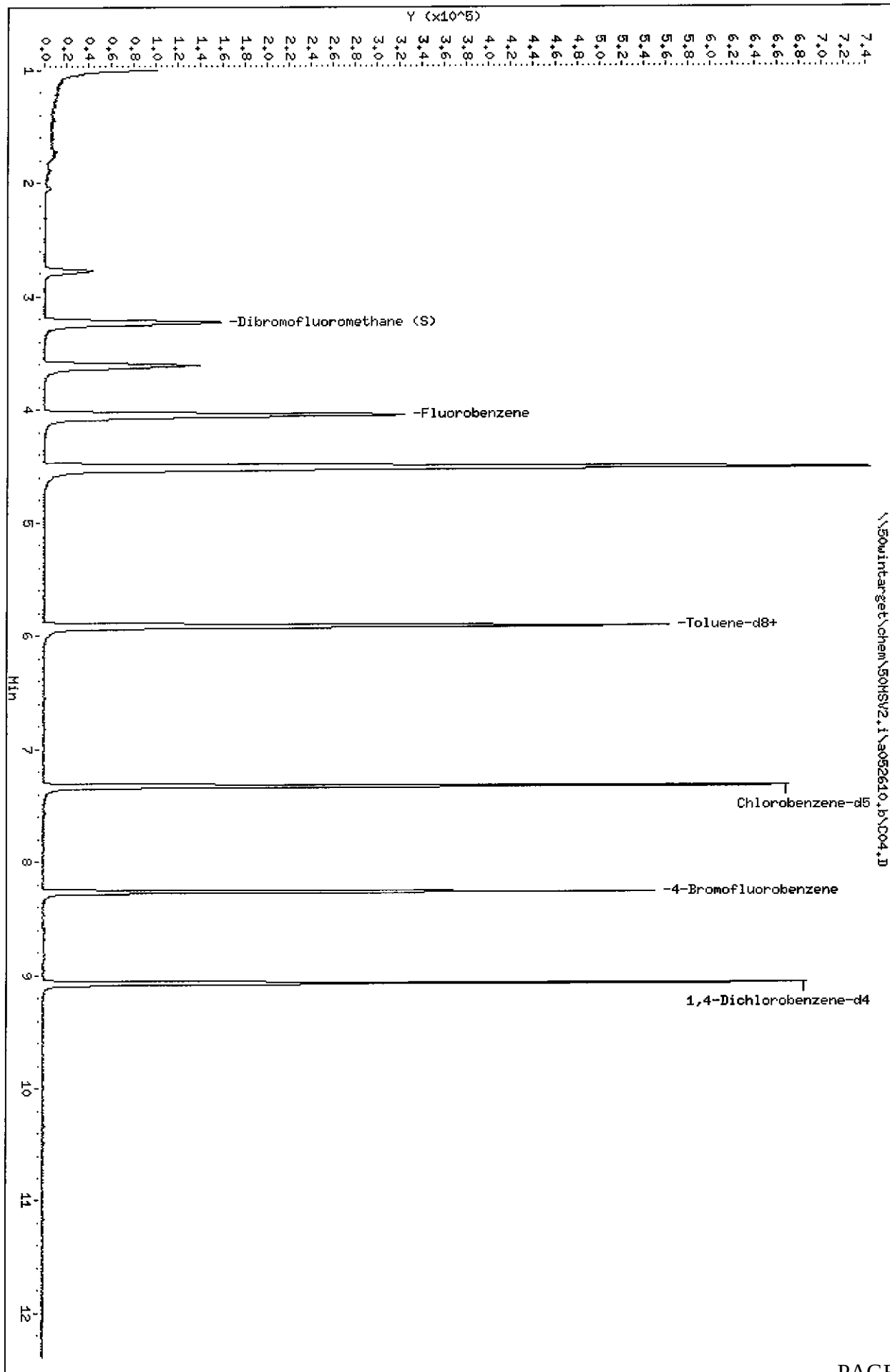
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50MSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A20.D
Lab Smp Id: 5037756013 Client Smp ID: 5037756013
Inj Date : 26-MAY-2010 22:38
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5037756013
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.770	2.762	(0.685)	2089	0.61967	0.620 (Q)	
\$ 32 Dibromofluoromethane (S)	113	3.225	3.222	(0.798)	149468	51.9695	52.0	
* 40 Fluorobenzene	96	4.041	4.039	(1.000)	458015	50.0000		
41 Trichloroethene	95	4.527	4.504	(1.120)	1825	0.63441	0.634 (Q)	
\$ 49 Toluene-d8	98	5.912	5.910	(0.807)	405195	51.7033	51.7	
* 59 Chlorobenzene-d5	117	7.323	7.326	(1.000)	336335	50.0000		
\$ 70 4-Bromofluorobenzene	95	8.259	8.261	(1.128)	161651	51.9615	52.0	
* 82 1,4-Dichlorobenzene-d4	152	9.070	9.068	(1.000)	151531	50.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: A20.D
Lab Smp Id: 5037756013
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A20.D
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756013
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	458015	0.28
59 Chlorobenzene-d5	337893	168947	675786	336335	-0.46
82 1,4-Dichlorobenze	147661	73831	295322	151531	2.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	0.06
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.04
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756013 Client Smp ID: 5037756013
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.0	103.94	82-122
\$ 49 Toluene-d8	50.0	51.7	103.41	80-120
\$ 70 4-Bromofluorobenze	50.0	52.0	103.92	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756013
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: 5037756013
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2-----	1,2-Dichloroethene (cis)_____	0.620	
79-01-6-----	Trichloroethene_____	0.634	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)_____	52.0	
2037-26-5-----	Toluene-d8_____	51.7	
460-00-4-----	4-Bromofluorobenzene_____	52.0	

Data File: \\S0winTarget\\chem\\50HSV2.1\\a052610.b\\A20.D

Page 5

Date : 26-MAY-2010 22:38

Client ID: 5037756013

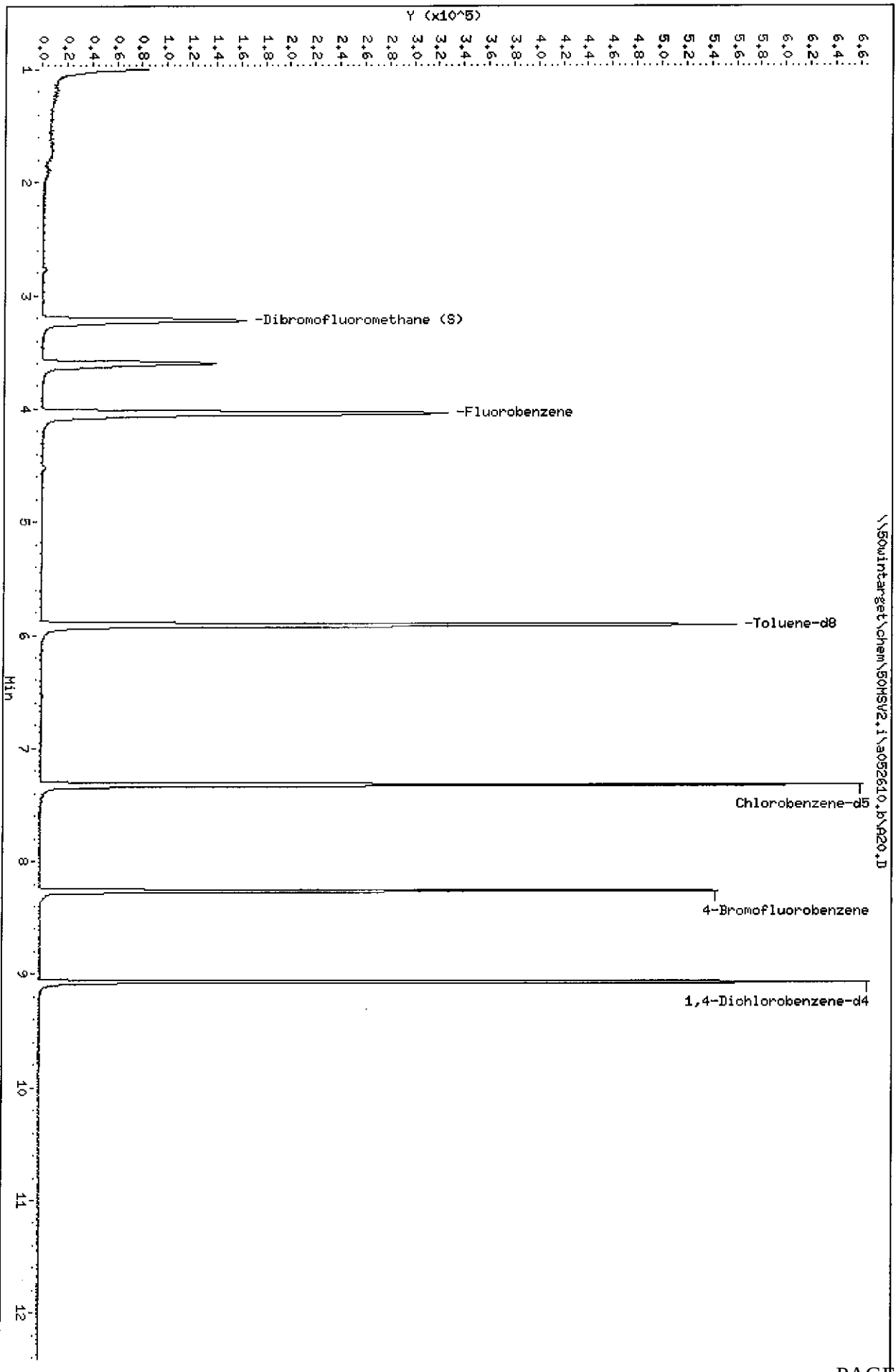
Instrument: 50HSV2.1

Sample Info: 5037756013

Purge Volume: 5.0

Column phase: DB-624

Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C19.D
 Lab Smp Id: 5037756014 Client Smp ID: 5037756014
 Inj Date : 27-MAY-2010 09:59
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756014
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislal Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: All-8CAL.D
 Als bottle: 83
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
\$ 32 Dibromofluoromethane (8)	113	3.223	3.222	(0.797)	151461	52.1102	52.1
* 40 Fluorobenzene	96	4.045	4.039	(1.000)	462869	50.0000	
41 Trichloroethene	95	4.505	4.504	(1.114)	168426	57.9344	57.9
\$ 49 Toluene-d8	98	5.910	5.910	(0.807)	411150	52.0554	52.0
* 59 Chlorobenzene-d5	117	7.327	7.326	(1.000)	338970	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.262	8.261	(1.128)	164338	52.4146	52.4
* 82 1,4-Dichlorobenzene-d4	152	9.068	9.068	(1.000)	151145	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: C19.D
Lab Smp Id: 5037756014
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756014
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	462869	1.34
59 Chlorobenzene-d5	337893	168947	675786	338970	0.32
82 1,4-Dichlorobenze	147661	73831	295322	151145	2.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.14
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756014 Client Smp ID: 5037756014
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.1	104.22	82-122
\$ 49 Toluene-d8	50.0	52.0	104.11	80-120
\$ 70 4-Bromofluorobenze	50.0	52.4	104.83	73-120

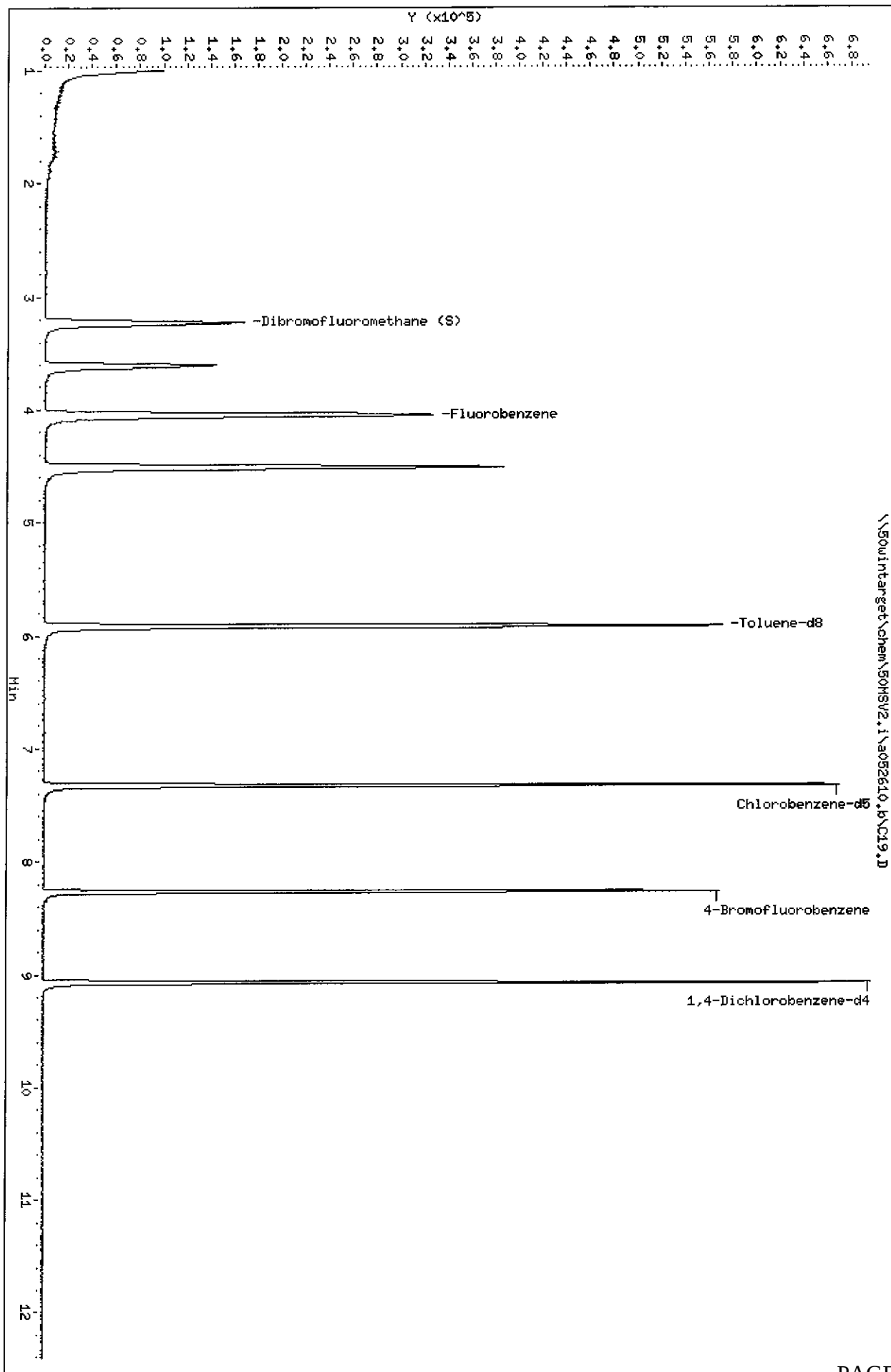
Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756014
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: 5037756014
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6-----	Trichloroethene	57.9	
=====	=====	=====	=====
1868-53-7-----	Dibromofluoromethane (S)	52.1	
2037-26-5-----	Toluene-d8	52.0	
460-00-4-----	4-Bromofluorobenzene	52.4	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C07.D
 Lab Smp Id: 5037756015 Client Smp ID: 5037756015
 Inj Date : 27-MAY-2010 03:11
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756015
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jffislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 59
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
8 Acrolein	56	1.586	1.579 (0.392)	1174	3.03389	3.03 (Q)	
12 Iodomethane	142	1.725	1.718 (0.426)	2102	5.68608	5.69	
25 1,2-Dichloroethene (cis)	96	2.780	2.762 (0.687)	1724	0.53723	0.537	
\$ 32 Dibromofluoromethane (S)	113	3.234	3.222 (0.799)	142082	51.8965	51.9	
* 40 Fluorobenzene	96	4.046	4.039 (1.000)	435994	50.0000		
41 Trichloroethene	95	4.516	4.504 (1.116)	102507	37.4333	37.4	
\$ 49 Toluene-d8	98	5.917	5.910 (0.807)	385084	50.5795	50.6	
50 Toluene	91	5.994	5.982 (0.818)	1261	0.12295	0.123 (Q)	
* 59 Chlorobenzene-d5	117	7.328	7.326 (1.000)	326744	50.0000		
60 Chlorobenzene	112	7.359	7.347 (1.004)	1605	0.23064	0.231 (Q)	
62 Ethylbenzene	106	7.457	7.455 (1.018)	155	0.04295	0.0429 (Q)	
66 Styrene	104	7.896	7.879 (1.078)	1111	0.15191	0.152	
68 Isopropylbenzene	105	8.160	8.153 (1.114)	2517	0.23363	0.234	
\$ 70 4-Bromofluorobenzene	95	8.269	8.261 (1.128)	156824	51.8896	51.9	
77 1,3,5-Trimethylbenzene	105	8.594	8.582 (0.947)	1939	0.24193	0.242	
76 4-Chlorotoluene	126	8.604	8.587 (0.948)	812	0.29069	0.291 (Q)	
78 tert-Butylbenzene	119	8.811	8.804 (0.971)	2355	0.24652	0.246	
* 82 1,4-Dichlorobenzene-d4	152	9.075	9.068 (1.000)	145672	50.0000		
85 1,2-Dichlorobenzene	146	9.338	9.331 (1.029)	1732	0.36562	0.366	
90 Naphthalene	128	10.491	10.484 (1.156)	11029	1.71072	1.71	
91 1,2,3-Trichlorobenzene	180	10.631	10.629 (1.171)	3018	1.44369	1.44	
92 2-methyl-naphthalene	142	11.163	11.156 (1.230)	11061	10.6320	10.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C07.D
 Lab Smp Id: 5037756015
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756015
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	435994	-4.54
59 Chlorobenzene-d5	337893	168947	675786	326744	-3.30
82 1,4-Dichlorobenze	147661	73831	295322	145672	-1.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.17
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.03
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.08	0.08

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756015 Client Smp ID: 5037756015
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

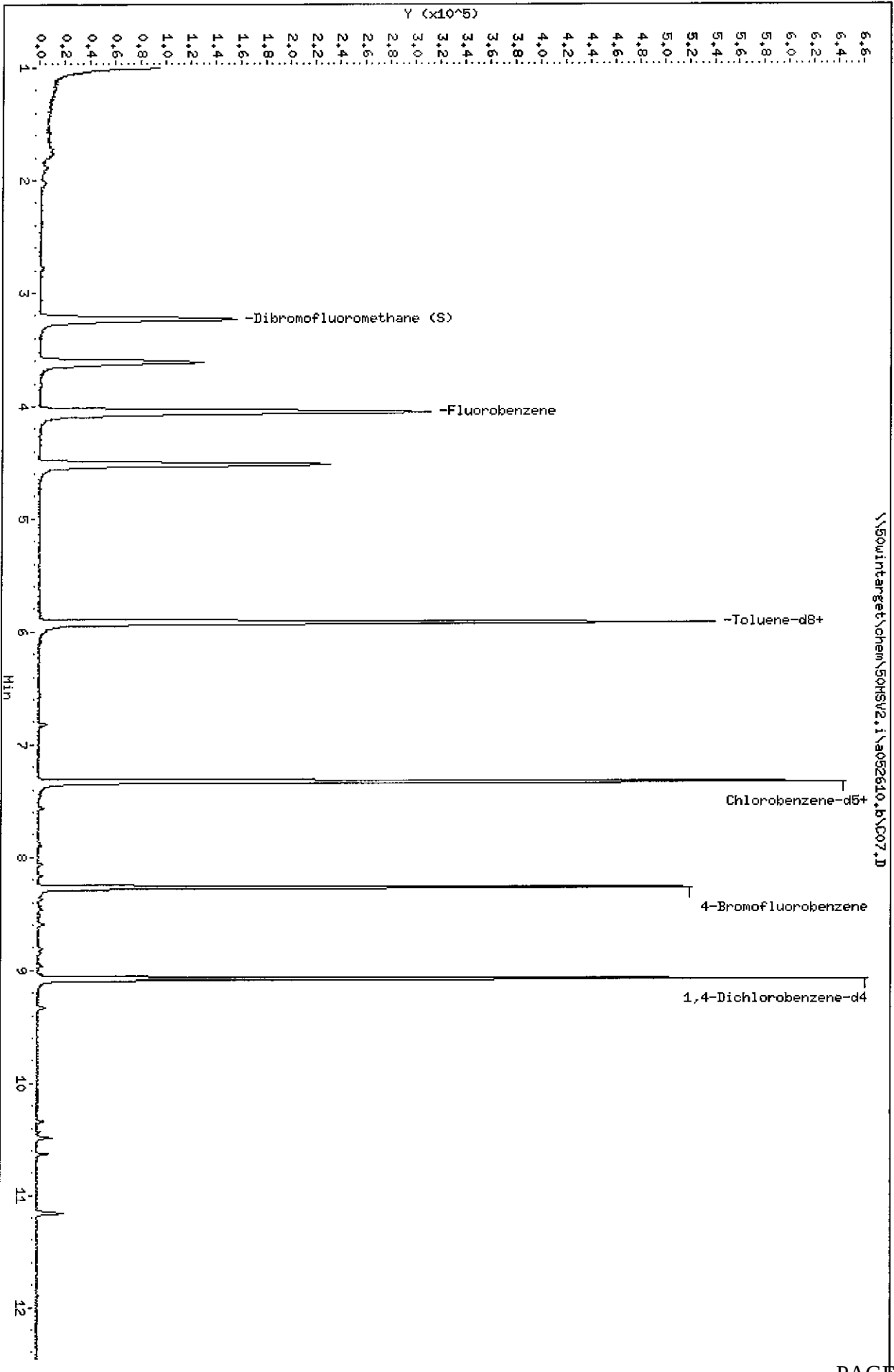
SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.9	103.79	82-122
\$ 49 Toluene-d8	50.0	50.6	101.16	80-120
\$ 70 4-Bromofluorobenze	50.0	51.9	103.78	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: A052610.b
Lab Smp Id: 5037756015	Client Smp ID: 5037756015
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-02-8-----	Acrolein	3.03	
-----	Iodomethane	5.69	
156-59-2-----	1,2-Dichloroethene (cis)	0.537	
79-01-6-----	Trichloroethene	37.4	
108-88-3-----	Toluene	0.123	
108-90-7-----	Chlorobenzene	0.231	
100-41-4-----	Ethylbenzene	0.0429	
100-42-5-----	Styrene	0.152	
98-82-8-----	Isopropylbenzene	0.234	
108-67-8-----	1,3,5-Trimethylbenzene	0.242	
106-43-4-----	4-Chlorotoluene	0.291	
98-06-6-----	tert-Butylbenzene	0.246	
95-50-1-----	1,2-Dichlorobenzene	0.366	
91-20-3-----	Naphthalene	1.71	
87-61-6-----	1,2,3-Trichlorobenzene	1.44	
-----	2,methyl-naphthalene	10.6	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.9	
2037-26-5-----	Toluene-d8	50.6	
460-00-4-----	4-Bromofluorobenzene	51.9	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\A09.D
 Lab Smp Id: 5037756016 Client Smp ID: 5037756016
 Inj Date : 26-MAY-2010 16:19
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756016
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-cl.m
 Meth Date : 27-May-2010 15:38 jffislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96	2.040	2.039 (0.505)		32331	12.5827	12.6
25 1,2-Dichloroethene (cis)	96	2.763	2.762 (0.684)		175607	50.5376	50.5
\$ 32 Dibromofluoromethane (S)	113	3.218	3.222 (0.797)		149552	50.4481	50.4
* 40 Fluorobenzene	96	4.040	4.039 (1.000)		472093	50.0000	
41 Trichloroethene	95	4.500	4.504 (1.114)		739549	249.416	249
\$ 49 Toluene-d8	98	5.906	5.910 (0.807)		414271	51.6492	51.6
* 59 Chlorobenzene-d5	117	7.317	7.326 (1.000)		344229	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.257	8.261 (1.129)		164603	51.6970	51.7
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.068 (1.000)		158179	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: A09.D
 Lab Smp Id: 5037756016
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\A09.D
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756016
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	472093	3.36
59 Chlorobenzene-d5	337893	168947	675786	344229	1.88
82 1,4-Dichlorobenze	147661	73831	295322	158179	7.12

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.04	0.02
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.13
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756016 Client Smp ID: 5037756016
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.4	100.90	82-122
\$ 49 Toluene-d8	50.0	51.6	103.30	80-120
\$ 70 4-Bromofluorobenze	50.0	51.7	103.39	73-120

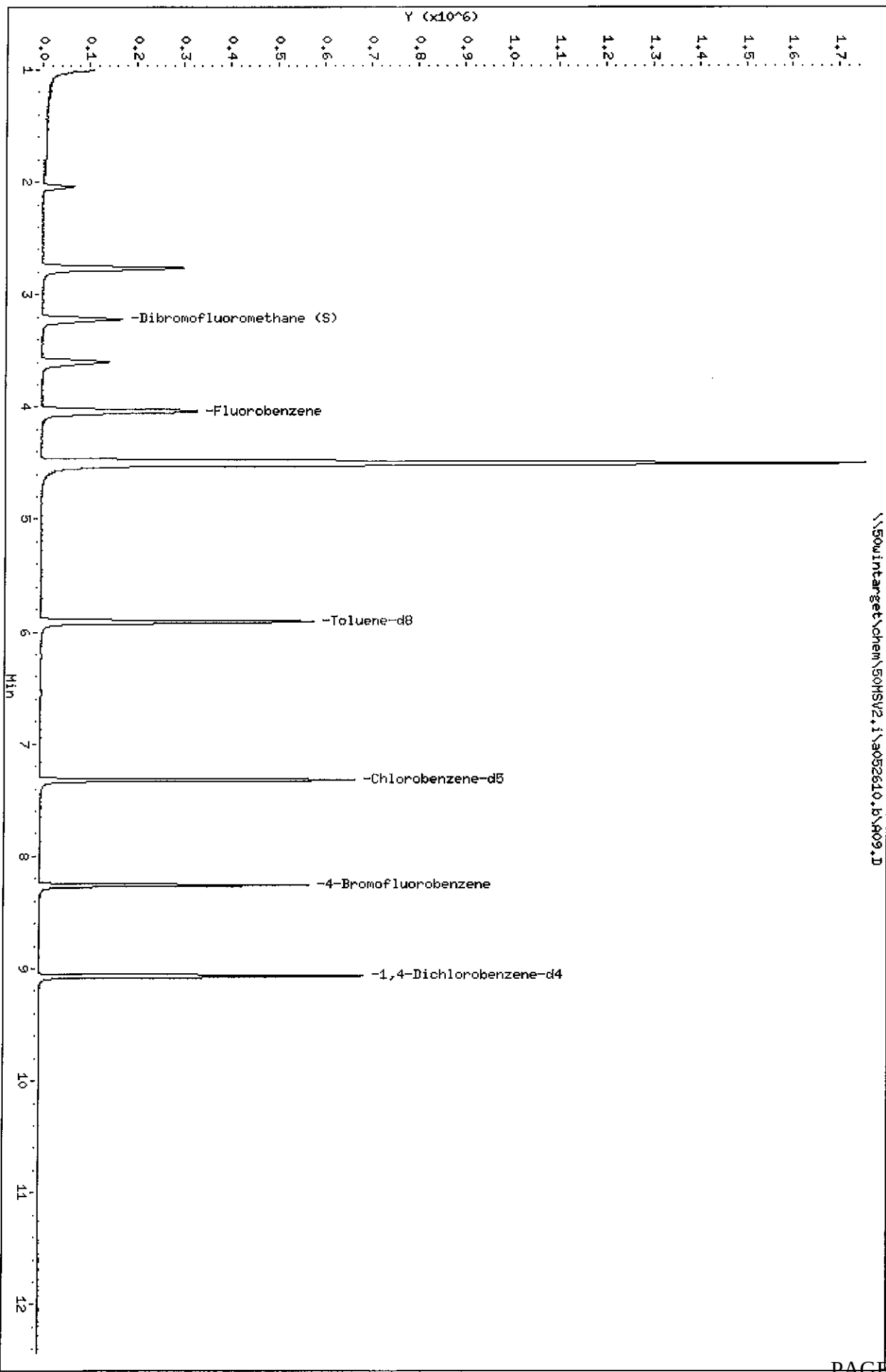
Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5037756016
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: a052610.b
 Client Smp ID: 5037756016
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5-----	1,2-Dichloroethene (trans)_____	12.6	
156-59-2-----	1,2-Dichloroethene (cis)_____	50.5	
79-01-6-----	Trichloroethene_____	249	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)_____	50.4	
2037-26-5-----	Toluene-d8_____	51.6	
460-00-4-----	4-Bromofluorobenzene_____	51.7	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C08.D
 Lab Smp Id: 5037756017 Client Smp ID: 5037756017
 Inj Date : 27-MAY-2010 03:45
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756017
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 61
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)				
-----	----	-----	-----	-----	-----	-----	-----
12 Iodomethane	142	1.730	1.718 (0.427)	2108	5.68074	5.68	
25 1,2-Dichloroethene (cis)	96	2.784	2.762 (0.687)	1944	0.59915	0.599 (Q)	
\$ 32 Dibromofluoromethane (S)	113	3.234	3.222 (0.797)	141383	51.0760	51.1	
* 40 Fluorobenzene	96	4.056	4.039 (1.000)	440819	50.0000		
41 Trichloroethene	95	4.521	4.504 (1.115)	20163	7.28250	7.28	
\$ 49 Toluene-d8	98	5.921	5.910 (0.808)	389450	51.8731	51.9	
50 Toluene	91	6.004	5.982 (0.819)	305	0.03016	0.0302 (Q)	
* 59 Chlorobenzene-d5	117	7.327	7.326 (1.000)	322208	50.0000		
\$ 70 4-Bromofluorobenzene	95	8.268	8.261 (1.128)	155013	52.0124	52.0	
77 1,3,5-Trimethylbenzene	105	8.588	8.582 (0.946)	690	0.08701	0.0870	
* 82 1,4-Dichlorobenzene-d4	152	9.074	9.068 (1.000)	144139	50.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C08.D
 Lab Smp Id: 5037756017
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756017
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	440819	-3.48
59 Chlorobenzene-d5	337893	168947	675786	322208	-4.64
82 1,4-Dichlorobenze	147661	73831	295322	144139	-2.39

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.06	0.42
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.02
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.07

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756017 Client Smp ID: 5037756017
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.1	102.15	82-122
\$ 49 Toluene-d8	50.0	51.9	103.75	80-120
\$ 70 4-Bromofluorobenze	50.0	52.0	104.02	73-120

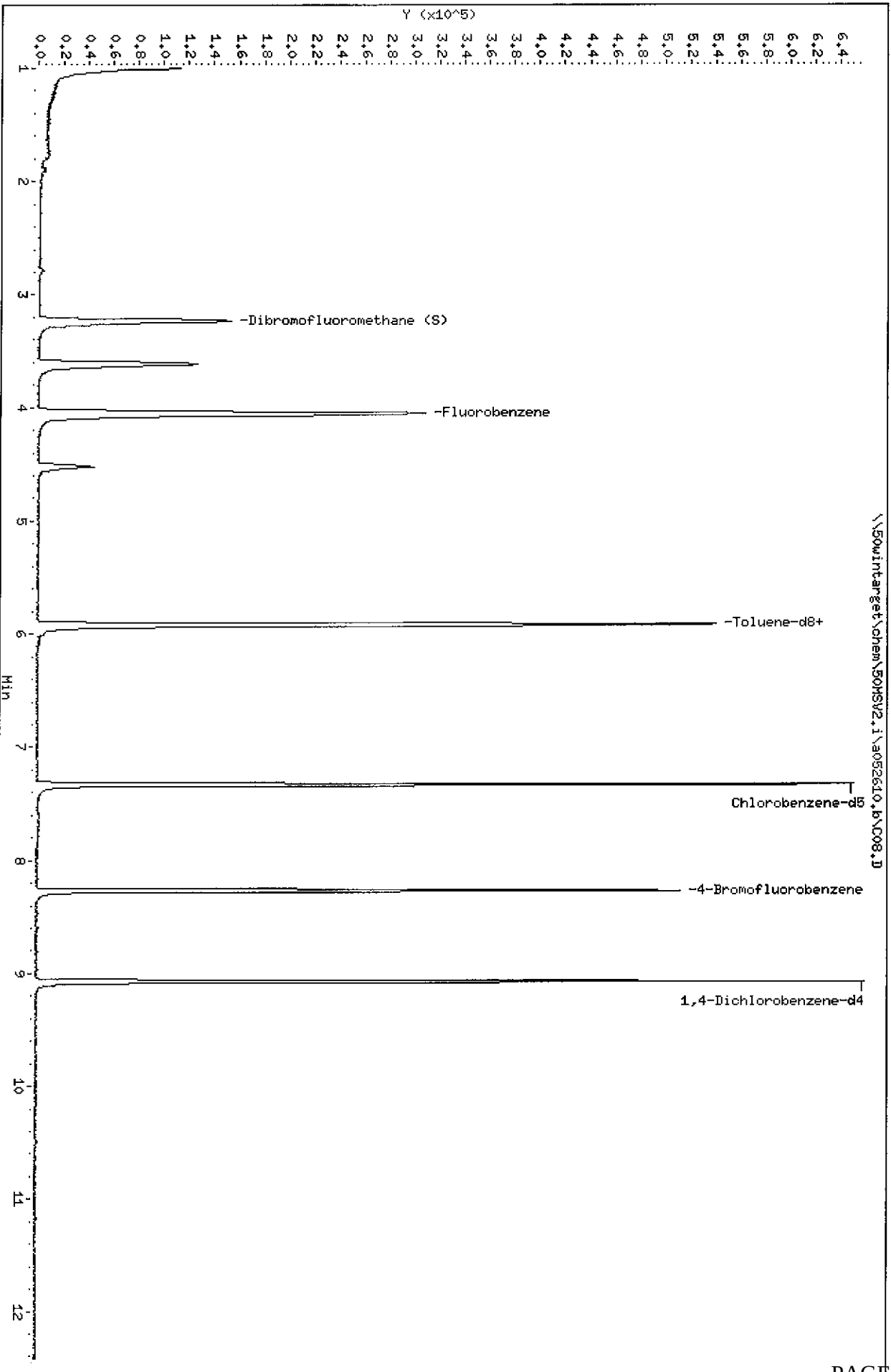
Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756017
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: 5037756017
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
-----	Iodomethane	5.68	
156-59-2-----	1,2-Dichloroethene (cis)	0.599	
79-01-6-----	Trichloroethene	7.28	
108-88-3-----	Toluene	0.0302	
108-67-8-----	1,3,5-Trimethylbenzene	0.0870	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.1	
2037-26-5-----	Toluene-d8	51.9	
460-00-4-----	4-Bromofluorobenzene	52.0	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C09.D
 Lab Smp Id: 5037756018 Client Smp ID: 5037756018
 Inj Date : 27-MAY-2010 04:19
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756018
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislal Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 63
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.110	1.113	(0.274)	3297	1.00387	1.00
18 1,2-Dichloroethene (trans)	96	2.045	2.039	(0.505)	9600	4.16894	4.17
25 1,2-Dichloroethene (cis)	96	2.774	2.762	(0.685)	99877	31.0457	31.0
31 Chloroform	83	3.064	3.057	(0.756)	9540	1.99055	1.99
\$ 32 Dibromofluoromethane (S)	113	3.229	3.222	(0.797)	141216	51.4517	51.4
* 40 Fluorobenzene	96	4.051	4.039	(1.000)	437083	50.0000	
41 Trichloroethene	95	4.511	4.504	(1.114)	385255	140.336	140
\$ 49 Toluene-d8	98	5.917	5.910	(0.807)	382989	51.5265	51.5
* 59 Chlorobenzene-d5	117	7.328	7.326	(1.000)	318994	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.263	8.261	(1.128)	151272	51.2686	51.3
* 82 1,4-Dichlorobenzene-d4	152	9.075	9.068	(1.000)	141870	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: C09.D
Lab Smp Id: 5037756018
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756018
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	437083	-4.30
59 Chlorobenzene-d5	337893	168947	675786	318994	-5.59
82 1,4-Dichlorobenze	147661	73831	295322	141870	-3.92

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.30
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.02
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.08	0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756018 Client Smp ID: 5037756018
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.4	102.90	82-122
\$ 49 Toluene-d8	50.0	51.5	103.05	80-120
\$ 70 4-Bromofluorobenze	50.0	51.3	102.54	73-120

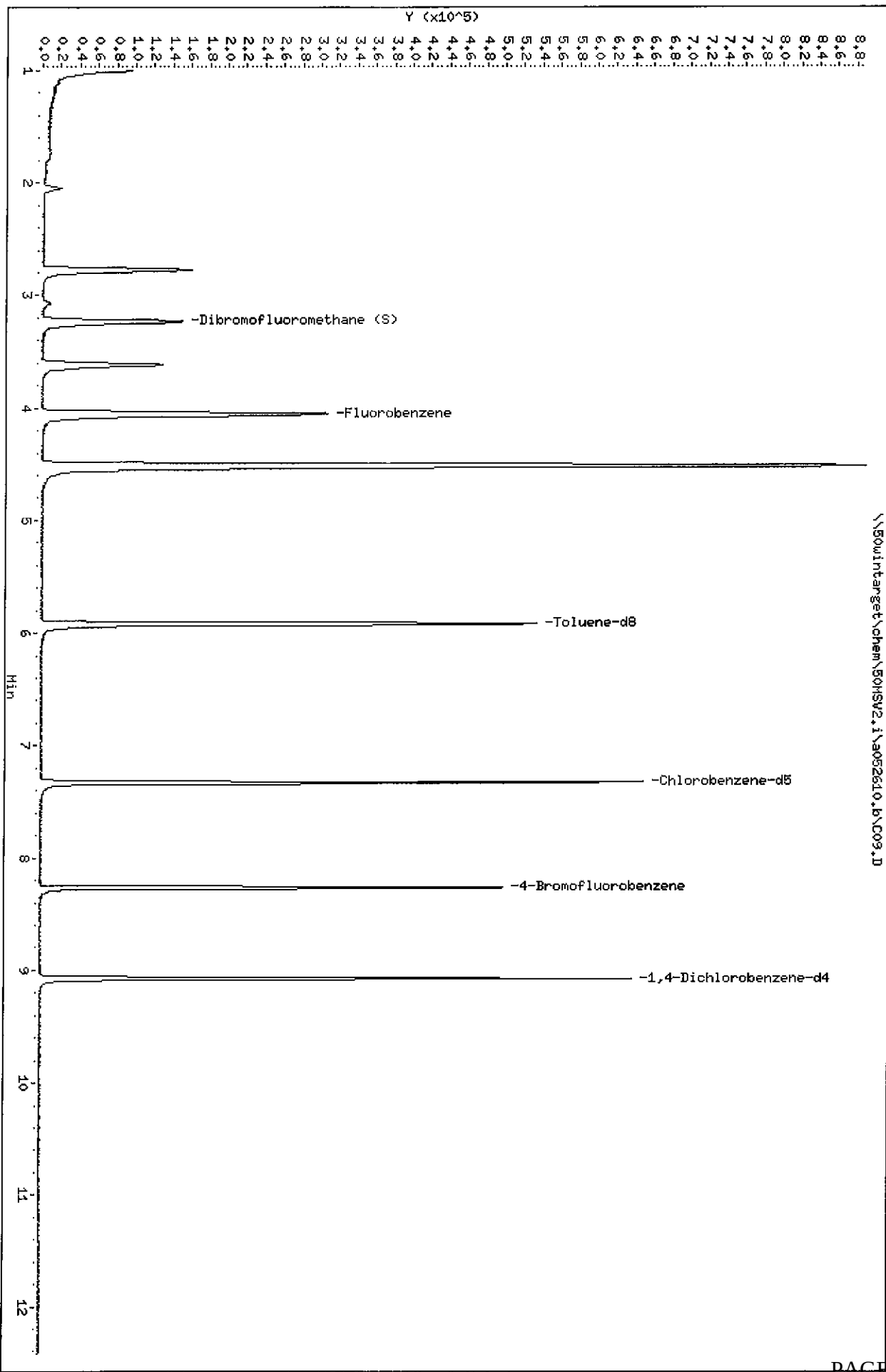
Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756018
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: 5037756018
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	1.00	
156-60-5-----	1,2-Dichloroethene (trans)_____	4.17	
156-59-2-----	1,2-Dichloroethene (cis)_____	31.0	
67-66-3-----	Chloroform	1.99	
79-01-6-----	Trichloroethene	140	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)_____	51.4	
2037-26-5-----	Toluene-d8	51.5	
460-00-4-----	4-Bromofluorobenzene	51.3	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C10.D
 Lab Smp Id: 5037756019 Client Smp ID: 5037756019
 Inj Date : 27-MAY-2010 04:53
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756019
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: All-8CAL.D
 Als bottle: 65
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
18 1,2-Dichloroethene (trans)	96		2.045	2.039	(0.505)		3660	1.69265	1.69
25 1,2-Dichloroethene (cis)	96		2.779	2.762	(0.686)		5547	1.70332	1.70
31 Chloroform	83		3.069	3.057	(0.758)		1036	0.21354	0.214 (Q)
\$ 32 Dibromofluoromethane (S)	113		3.229	3.222	(0.797)		144708	52.0847	52.1
* 40 Fluorobenzene	96		4.051	4.039	(1.000)		442448	50.0000	
41 Trichloroethene	95		4.516	4.504	(1.115)		18205	6.55110	6.55
\$ 49 Toluene-d8	98		5.916	5.910	(0.807)		390255	52.0071	52.0
* 59 Chlorobenzene-d5	117		7.327	7.326	(1.000)		322042	50.0000	
\$ 70 4-Bromofluorobenzene	95		8.263	8.261	(1.128)		154038	51.7119	51.7
* 82 1,4-Dichlorobenzene-d4	152		9.074	9.068	(1.000)		142790	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: C10.D
Lab Smp Id: 5037756019
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756019
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	442448	-3.13
59 Chlorobenzene-d5	337893	168947	675786	322042	-4.69
82 1,4-Dichlorobenze	147661	73831	295322	142790	-3.30

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.29
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.02
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756019 Client Smp ID: 5037756019
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\ -8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	52.1	104.17	82-122
\$ 49 Toluene-d8	50.0	52.0	104.01	80-120
\$ 70 4-Bromofluorobenze	50.0	51.7	103.42	73-120

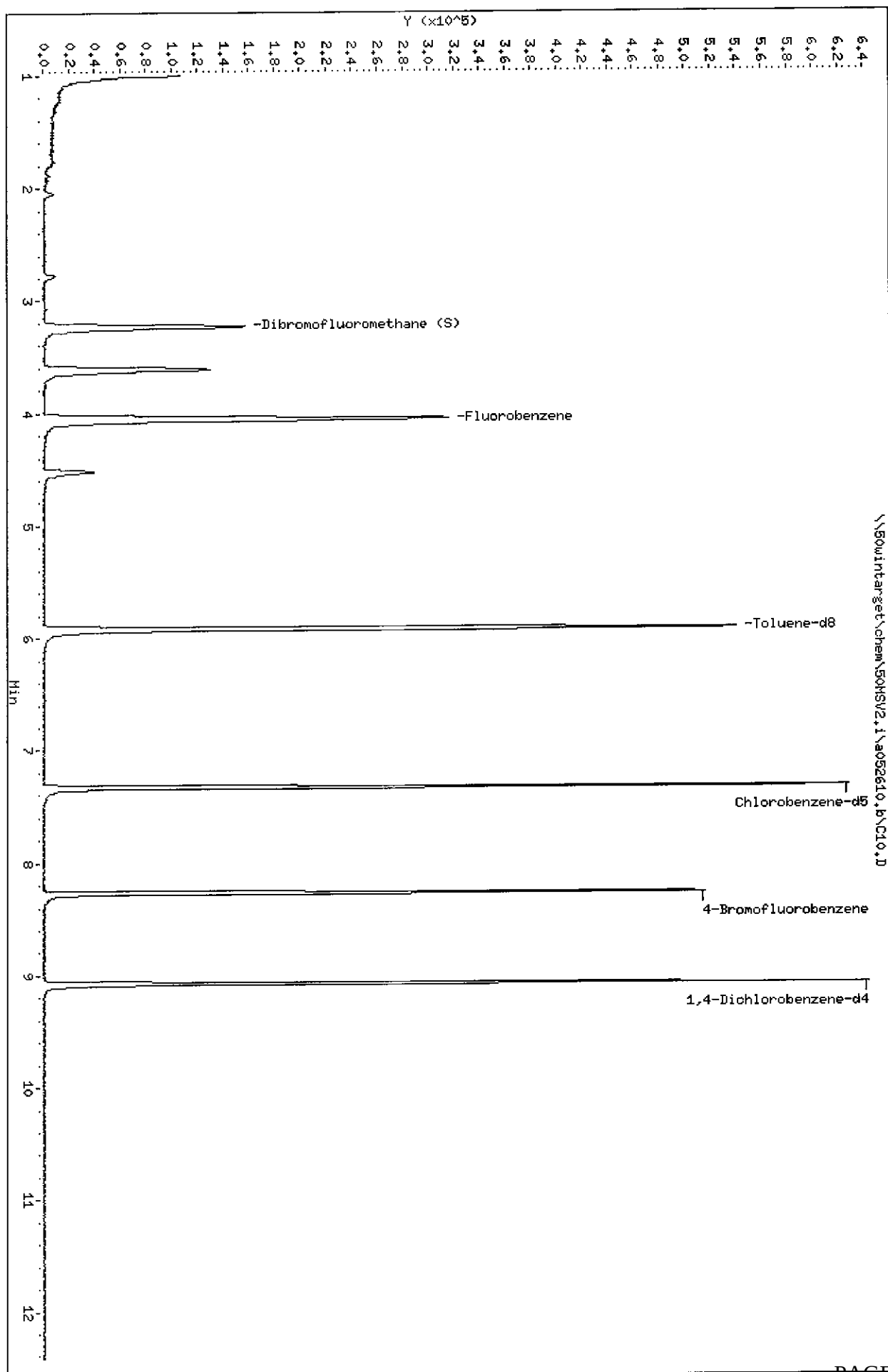
Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5037756019
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: 5037756019
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-60-5-----	1,2-Dichloroethene (trans)_____	1.69	
156-59-2-----	1,2-Dichloroethene (cis)_____	1.70	
67-66-3-----	Chloroform_____	0.214	
79-01-6-----	Trichloroethene_____	6.55	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)_____	52.1	
2037-26-5-----	Toluene-d8_____	52.0	
460-00-4-----	4-Bromofluorobenzene_____	51.7	



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C11.D
 Lab Smp Id: 5037756020 Client Smp ID: 5037756020
 Inj Date : 27-MAY-2010 05:27
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756020
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 67
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	(ppb)	(ppb)	RT	EXP RT	REL RT	RESPONSE
=====	=====	=====	=====	=====	=====	=====	=====
25 1,2-Dichloroethene (cis)	96	2.794	2.762 (0.690)	1326	0.42114	0.421	
\$ 32 Dibromofluoromethane (S)	113	3.233	3.222 (0.798)	137548	51.2056	51.2	
* 40 Fluorobenzene	96	4.050	4.039 (1.000)	427776	50.0000		
41 Trichloroethene	95	4.515	4.504 (1.115)	236820	88.1430	88.1	
\$ 49 Toluene-d8	98	5.921	5.910 (0.808)	377286	50.8362	50.8	
* 59 Chlorobenzene-d5	117	7.327	7.326 (1.000)	318511	50.0000		
\$ 70 4-Bromofluorobenzene	95	8.268	8.261 (1.128)	152595	51.7954	51.8	
* 82 1,4-Dichlorobenzene-d4	152	9.074	9.068 (1.000)	139210	50.0000		

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C11.D
 Lab Smp Id: 5037756020
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756020
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	427776	-6.34
59 Chlorobenzene-d5	337893	168947	675786	318511	-5.74
82 1,4-Dichlorobenze	147661	73831	295322	139210	-5.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.28
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.07

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: A052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756020 Client Smp ID: 5037756020
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.2	102.41	82-122
\$ 49 Toluene-d8	50.0	50.8	101.67	80-120
\$ 70 4-Bromofluorobenze	50.0	51.8	103.59	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

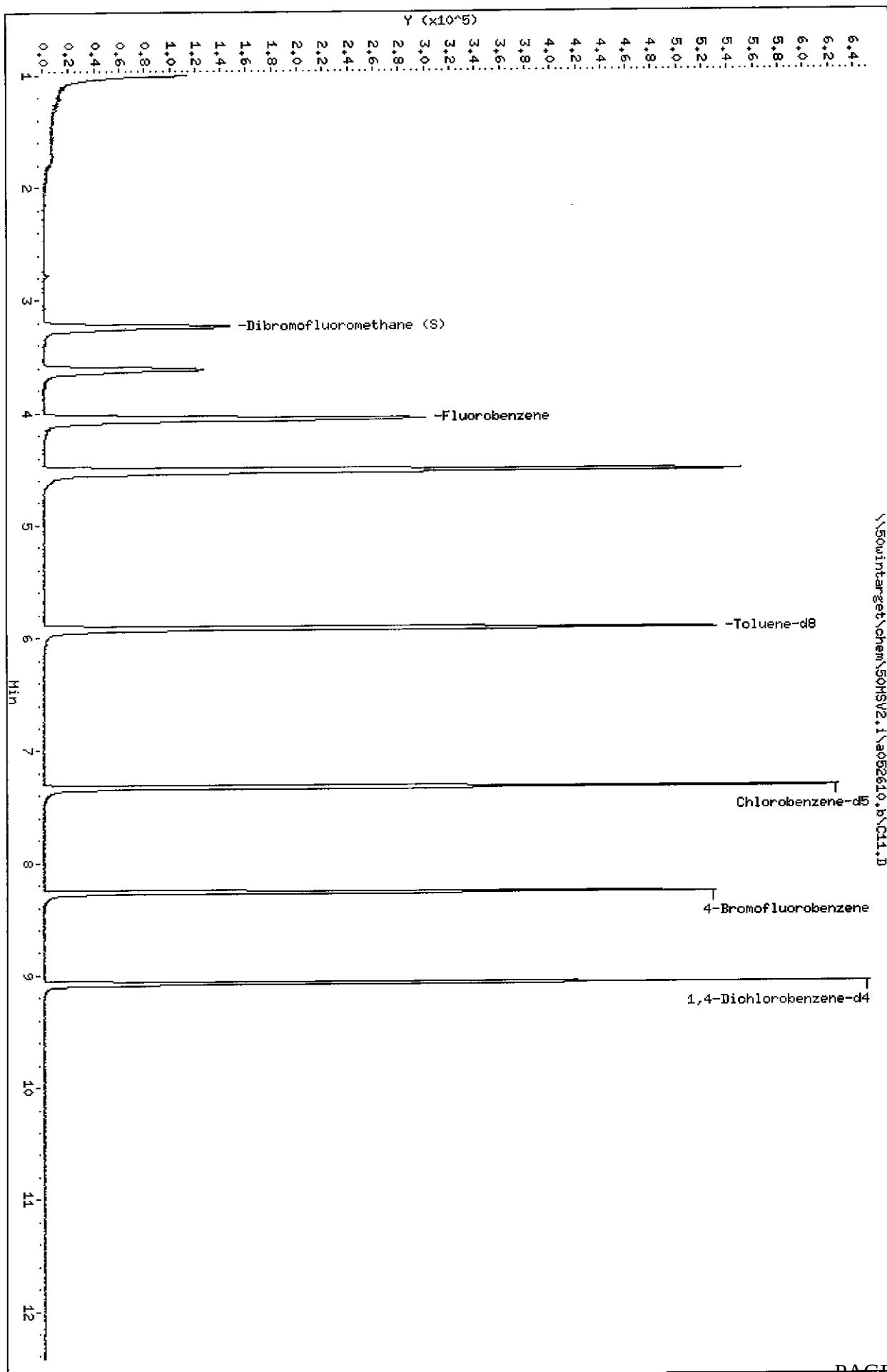
Client Name:
Lab Smp Id: 5037756020
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: 5037756020
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/KG) ppb		
156-59-2-----	1,2-Dichloroethene (cis)_____	0.421		
79-01-6-----	Trichloroethene_____	88.1		
=====		=====		=====
1868-53-7-----	Dibromofluoromethane (S)_____	51.2		
2037-26-5-----	Toluene-d8_____	50.8		
460-00-4-----	4-Bromofluorobenzene_____	51.8		

Data File: \\Sowintarget\chem\50MSV2.i\052610.b\Cl1.D
Date: 27-MAY-2010 05:27
Client ID: 5037756020
Sample Info: 5037756020
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV2.i
Operator: jlf
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C12.D
 Lab Smp Id: 5037756021 Client Smp ID: 5037756021
 Inj Date : 27-MAY-2010 06:01
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756021
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 69
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ppb)	FINAL (ppb)
\$ 32 Dibromofluoromethane (S)	113		3.232	3.222	(0.797)	141872	50.6399	50.6	
* 40 Fluorobenzene	96		4.053	4.039	(1.000)	446153	50.0000		
41 Trichloroethene	95		4.513	4.504	(1.113)	46503	16.5952	16.6	
\$ 49 Toluene-d8	98		5.919	5.910	(0.808)	395352	51.9374	51.9	
* 59 Chlorobenzene-d5	117		7.330	7.326	(1.000)	326686	50.0000		
\$ 70 4-Bromofluorobenzene	95		8.266	8.261	(1.128)	155232	51.3719	51.4	
* 82 1,4-Dichlorobenzene-d4	152		9.072	9.068	(1.000)	144152	50.0000		

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C12.D
 Lab Smp Id: 5037756021
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756021
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	446153	-2.32
59 Chlorobenzene-d5	337893	168947	675786	326686	-3.32
82 1,4-Dichlorobenze	147661	73831	295322	144152	-2.38

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.36
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.06
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.05

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756021 Client Smp ID: 5037756021
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.6	101.28	82-122
\$ 49 Toluene-d8	50.0	51.9	103.87	80-120
\$ 70 4-Bromofluorobenze	50.0	51.4	102.74	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756021
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: 5037756021
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6-----	Trichloroethene	16.6	
=====	=====	=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.6	
2037-26-5-----	Toluene-d8	51.9	
460-00-4-----	4-Bromofluorobenzene	51.4	

Date: 27-MAY-2010 06:01

Client ID: 5037756021

Sample Info: 5037756021

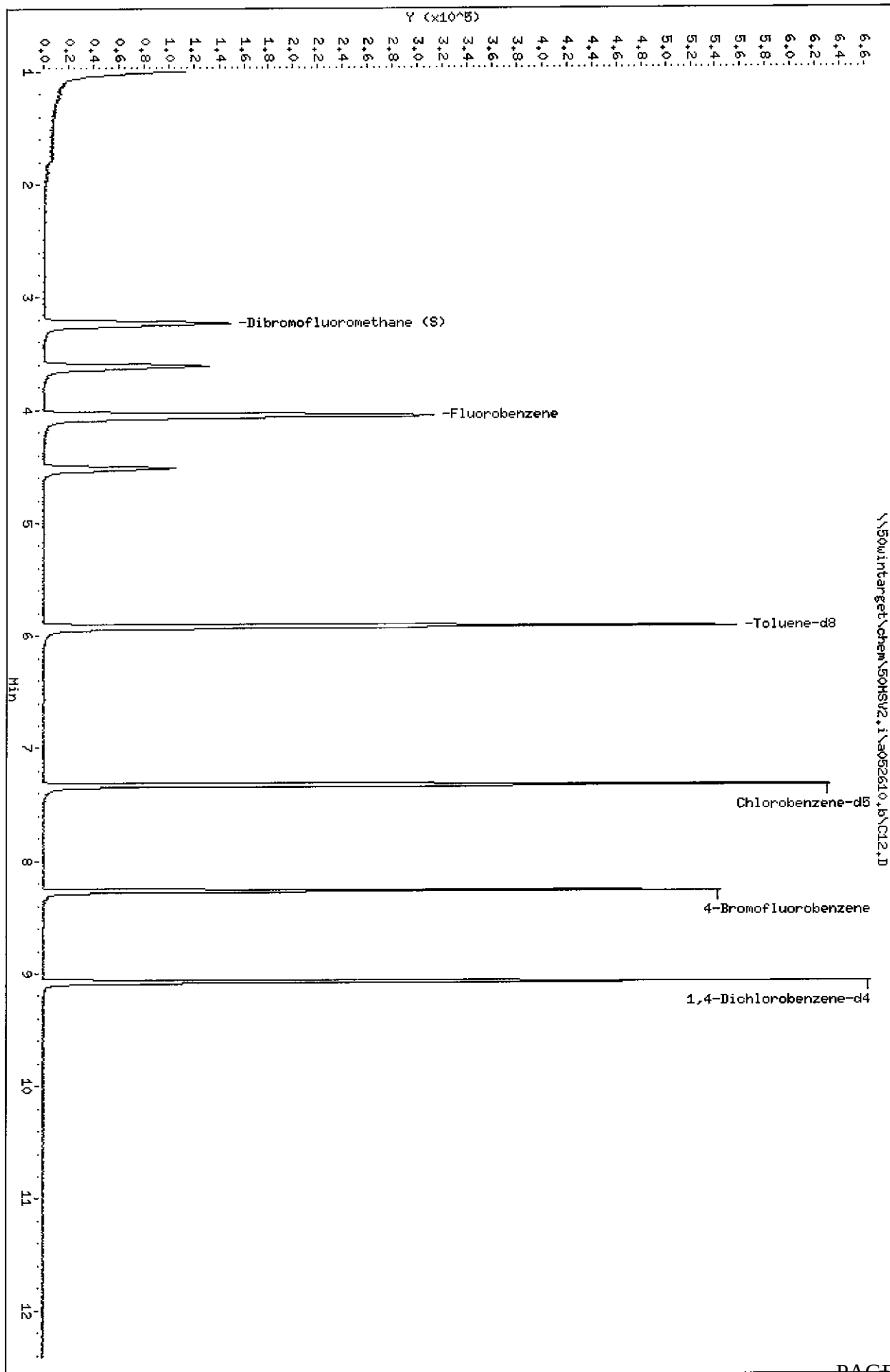
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C13.D
 Lab Smp Id: 5037756022 Client Smp ID: 5037756022
 Inj Date : 27-MAY-2010 06:34
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756022
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 71
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.120	1.113 (0.277)		14984	4.52381	4.52
25 1,2-Dichloroethene (cis)	96	2.769	2.762 (0.684)		56856	17.5239	17.5
\$ 32 Dibromofluoromethane (S)	113	3.229	3.222 (0.797)		138671	50.0979	50.1
* 40 Fluorobenzene	96	4.051	4.039 (1.000)		440804	50.0000	
41 Trichloroethene	95	4.537	4.504 (1.120)		235	0.08488	0.0849 (Q)
\$ 49 Toluene-d8	98	5.917	5.910 (0.807)		387892	51.7378	51.7
50 Toluene	91	5.994	5.982 (0.818)		1289	0.12763	0.128
* 59 Chlorobenzene-d5	117	7.328	7.326 (1.000)		321758	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.268	8.261 (1.128)		154562	51.9336	51.9
* 82 1,4-Dichlorobenzene-d4	152	9.075	9.068 (1.000)		141713	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C13.D
 Lab Smp Id: 5037756022
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756022
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	440804	-3.49
59 Chlorobenzene-d5	337893	168947	675786	321758	-4.78
82 1,4-Dichlorobenze	147661	73831	295322	141713	-4.03

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.30
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.02
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.08	0.08

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756022 Client Smp ID: 5037756022
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.1	100.20	82-122
\$ 49 Toluene-d8	50.0	51.7	103.48	80-120
\$ 70 4-Bromofluorobenze	50.0	51.9	103.87	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
 Lab Smp Id: 5037756022
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: 052610.b
 Client Smp ID: 5037756022
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	4.52	
156-59-2-----	1,2-Dichloroethene (cis)	17.5	
79-01-6-----	Trichloroethene	0.0849	
108-88-3-----	Toluene	0.128	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.1	
2037-26-5-----	Toluene-d8	51.7	
460-00-4-----	4-Bromofluorobenzene	51.9	

Date: 27-MAY-2010 06:34

Client ID: 5037756022

Sample Info: 5037756022

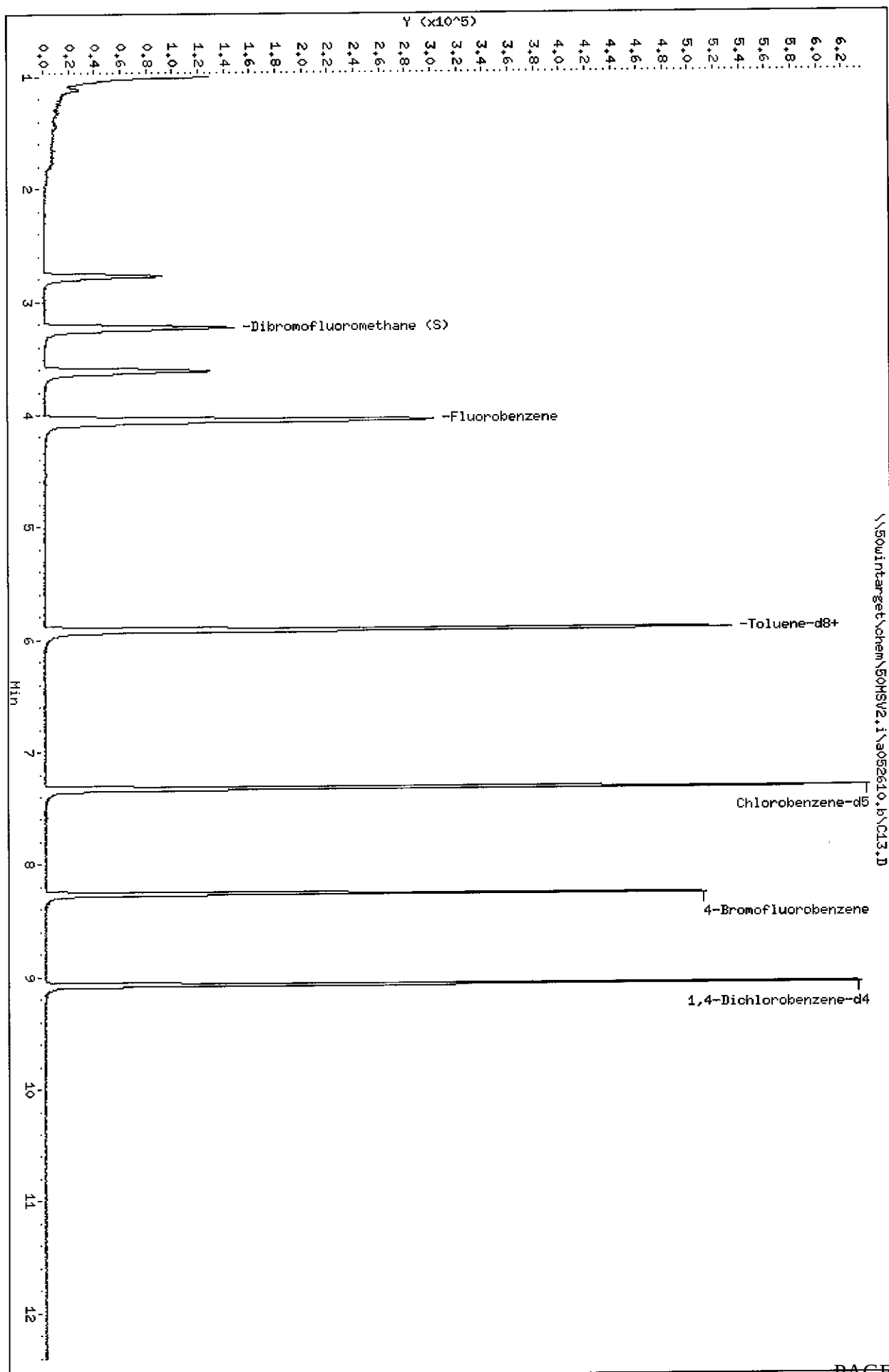
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C14.D
 Lab Smp Id: 5037756023 Client Smp ID: 5037756023
 Inj Date : 27-MAY-2010 07:08
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756023
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
 Als bottle: 73
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
3 Vinyl Chloride	62	1.116	1.113	(0.275)	16589	4.95246	4.95
18 1,2-Dichloroethene (trans)	96	2.051	2.039	(0.506)	2193	1.08628	1.09
25 1,2-Dichloroethene (cis)	96	2.770	2.762	(0.684)	308795	94.1131	94.1
\$ 32 Dibromofluoromethane (S)	113	3.235	3.222	(0.798)	142357	50.8555	50.8
* 40 Fluorobenzene	96	4.051	4.039	(1.000)	445780	50.0000	
41 Trichloroethene	95	4.506	4.504	(1.112)	164623	58.7971	58.8
\$ 49 Toluene-d8	98	5.917	5.910	(0.807)	389250	51.5293	51.5
* 59 Chlorobenzene-d5	117	7.328	7.326	(1.000)	324191	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.264	8.261	(1.128)	156225	52.0984	52.1
* 82 1,4-Dichlorobenzene-d4	152	9.070	9.068	(1.000)	145375	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: C14.D
Lab Smp Id: 5037756023
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\ -8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756023
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	445780	-2.40
59 Chlorobenzene-d5	337893	168947	675786	324191	-4.06
82 1,4-Dichlorobenze	147661	73831	295322	145375	-1.55

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.31
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.03
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756023 Client Smp ID: 5037756023
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.8	101.71	82-122
\$ 49 Toluene-d8	50.0	51.5	103.06	80-120
\$ 70 4-Bromofluorobenze	50.0	52.1	104.20	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: a052610.b
Lab Smp Id: 5037756023	Client Smp ID: 5037756023
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-01-4-----	Vinyl Chloride	4.95	
156-60-5-----	1,2-Dichloroethene (trans)	1.09	
156-59-2-----	1,2-Dichloroethene (cis)	94.1	
79-01-6-----	Trichloroethene	58.8	
=====		=====	=====
1868-53-7-----	Dibromofluoromethane (S)	50.8	
2037-26-5-----	Toluene-d8	51.5	
460-00-4-----	4-Bromofluorobenzene	52.1	

Data File: \\50wintarget\chem\50HSV2.i\A052610.b\CI4.D
Date: 27-MAY-2010 07:08

Client ID: 503756023

Sample Info: 503756023

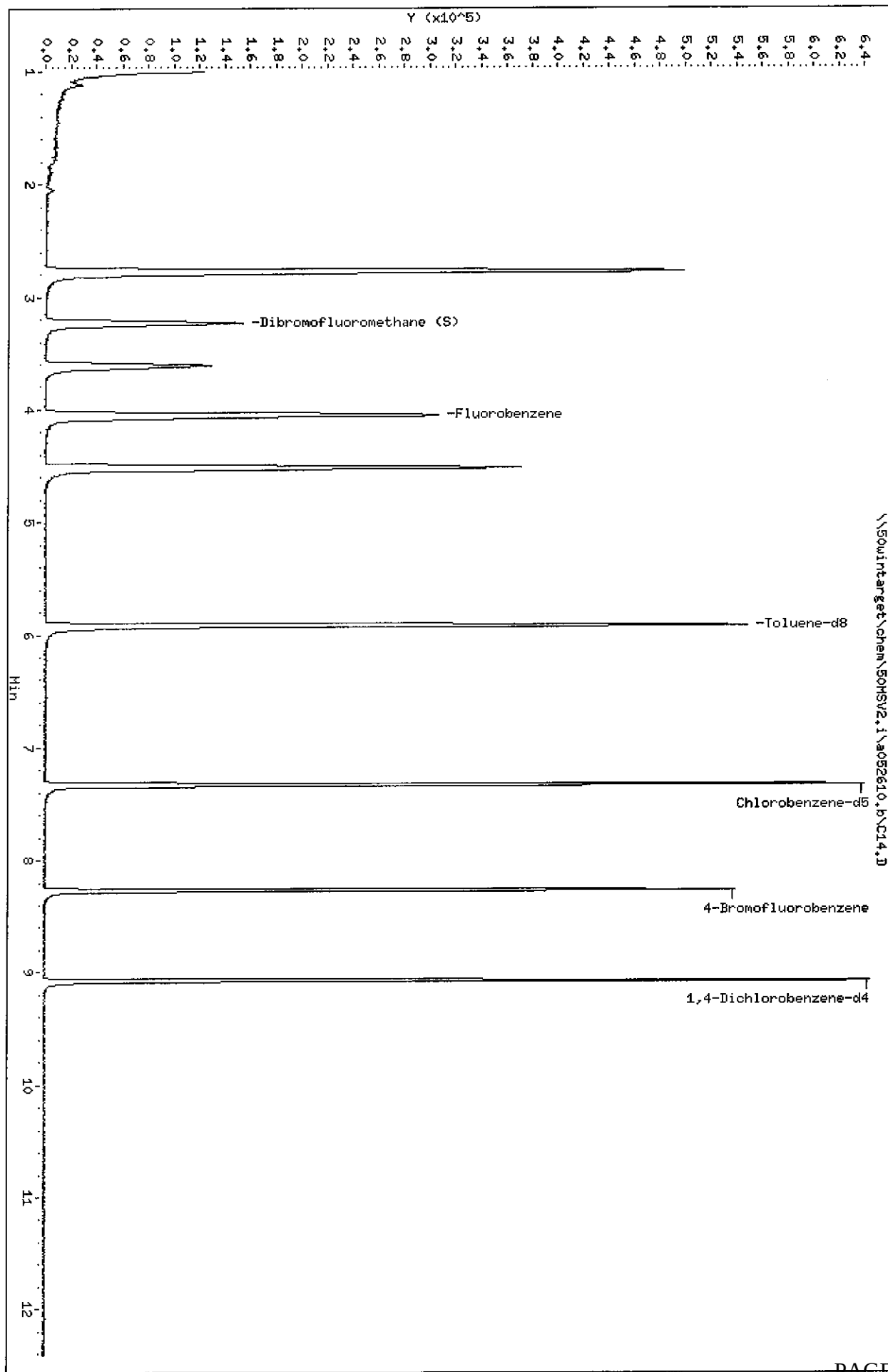
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C15.D
Lab Smp Id: 5037756024 Client Smp ID: 5037756024
Inj Date : 27-MAY-2010 07:42
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5037756024
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 75
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.770	2.762	(0.685)	1123	0.34419	0.344 (Q)
\$ 32 Dibromofluoromethane (S)	113	3.224	3.222	(0.797)	143318	51.4872	51.5
* 40 Fluorobenzene	96	4.046	4.039	(1.000)	443283	50.0000	
\$ 49 Toluene-d8	98	5.912	5.910	(0.807)	394292	51.0936	51.1
* 59 Chlorobenzene-d5	117	7.323	7.326	(1.000)	331191	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.264	8.261	(1.128)	158869	51.8604	51.9
* 82 1,4-Dichlorobenzene-d4	152	9.070	9.068	(1.000)	146147	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C15.D
 Lab Smp Id: 5037756024
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756024
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	443283	-2.94
59 Chlorobenzene-d5	337893	168947	675786	331191	-1.98
82 1,4-Dichlorobenze	147661	73831	295322	146147	-1.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.18
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.04
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756024 Client Smp ID: 5037756024
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.5	102.97	82-122
\$ 49 Toluene-d8	50.0	51.1	102.19	80-120
\$ 70 4-Bromofluorobenze	50.0	51.9	103.72	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: A052610.b
Lab Smp Id: 5037756024	Client Smp ID: 5037756024
Sample Location:	Sample Point:
Sample Date:	Date Received:
Sample Matrix: WATER	Quant Type: ISTD
Analysis Type: VOA	Level: LOW
Data Type: MS DATA	Operator: jlf
Misc Info:	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2-----	1,2-Dichloroethene (cis)	0.344	
=====	=====	=====	=====
1868-53-7-----	Dibromofluoromethane (S)	51.5	
2037-26-5-----	Toluene-d8	51.1	
460-00-4-----	4-Bromofluorobenzene	51.9	

Date: 27-MAY-2010 07:42

Client ID: 5037756024

Sample Info: 5037756024

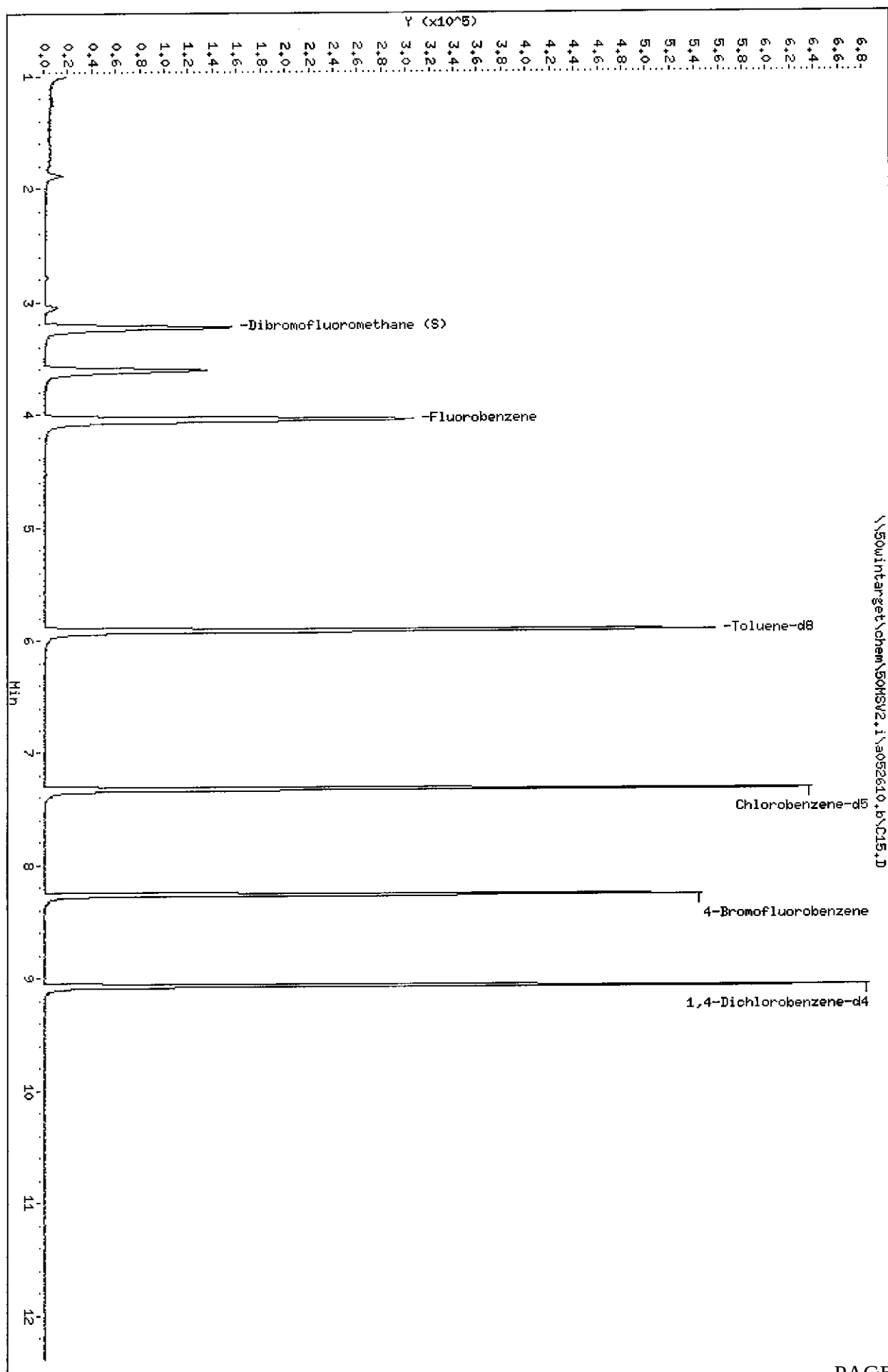
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50MSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C16.D
Lab Smp Id: 5037756025 Client Smp ID: 5037756025
Inj Date : 27-MAY-2010 08:16
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5037756025
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 77
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
\$ 32 Dibromofluoromethane (S)	113	3.233	3.222 (0.798)		142824	50.9170	50.9
* 40 Fluorobenzene	96	4.050	4.039 (1.000)		446702	50.0000	
\$ 49 Toluene-d8	98	5.916	5.910 (0.807)		396346	52.0543	52.0
* 59 Chlorobenzene-d5	117	7.327	7.326 (1.000)		326772	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.262	8.261 (1.128)		158496	52.4383	52.4
* 82 1,4-Dichlorobenzene-d4	152	9.074	9.068 (1.000)		144389	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C16.D
 Lab Smp Id: 5037756025
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756025
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	446702	-2.20
59 Chlorobenzene-d5	337893	168947	675786	326772	-3.29
82 1,4-Dichlorobenze	147661	73831	295322	144389	-2.22

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.27
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.06

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: A052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756025 Client Smp ID: 5037756025
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	50.9	101.83	82-122
\$ 49 Toluene-d8	50.0	52.0	104.11	80-120
\$ 70 4-Bromofluorobenze	50.0	52.4	104.88	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756025
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052610.b
Client Smp ID: 5037756025
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
=====	=====	=====	
1868-53-7-----Dibromofluoromethane (S)	50.9		
2037-26-5-----Toluene-d8	52.0		
460-00-4-----4-Bromofluorobenzene	52.4		

Date : 27-MAY-2010 08:16

Client ID: 5037756025

Sample Info: 5037756025

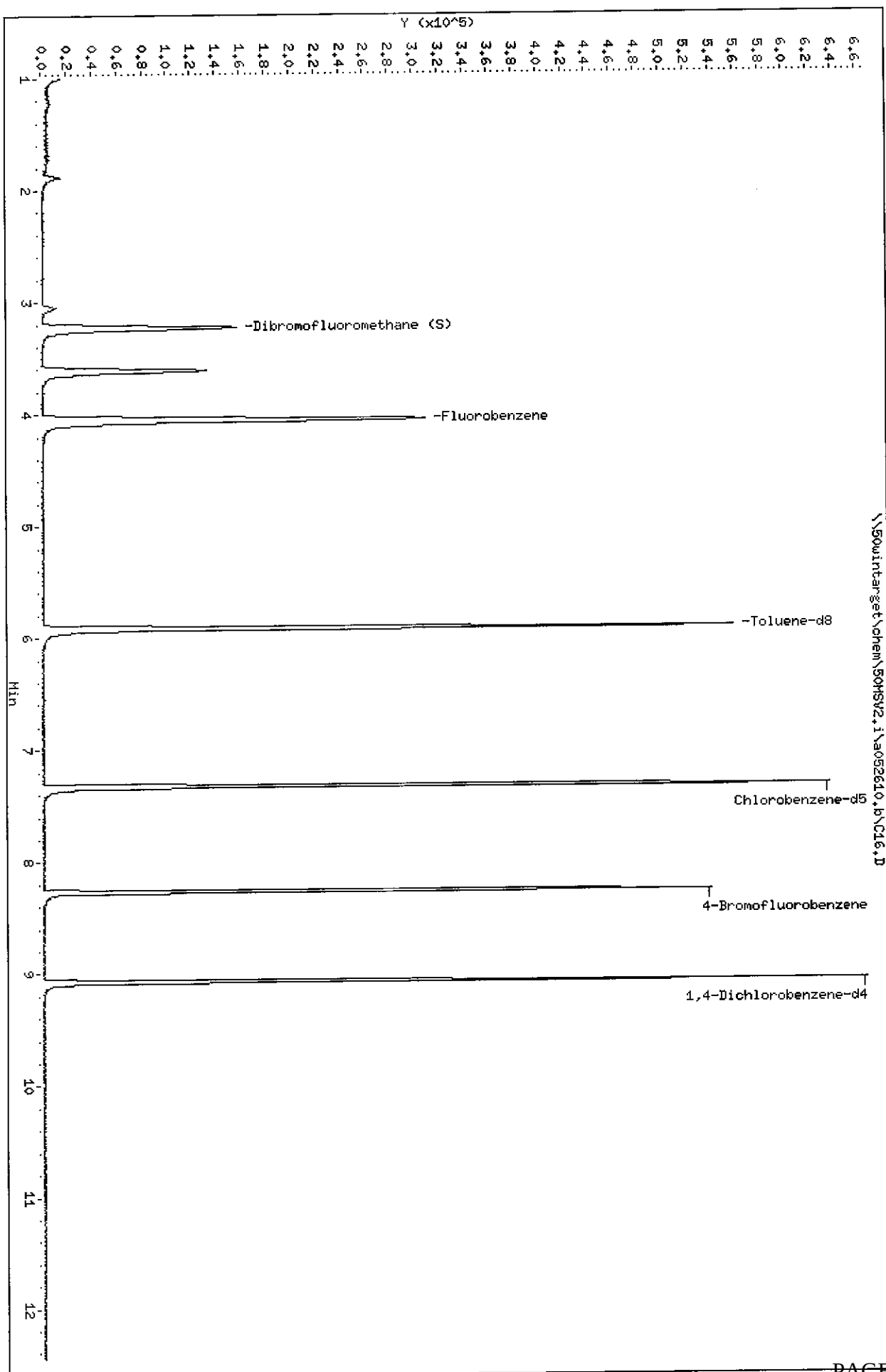
Purge Volume: 5.0

Column phase: DB-624

Instrument: 50MSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\052610.b\C17.D
 Lab Smp Id: 5037756026 Client Smp ID: 5037756026
 Inj Date : 27-MAY-2010 08:51
 Operator : jlf Inst ID: 50MSV2.i
 Smp Info : 5037756026
 Misc Info :
 Comment :
 Method : \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
 Meth Date : 27-May-2010 15:38 jfislars Quant Type: ISTD
 Cal Date : 19-MAY-2010 16:35 Cal File: All-8CAL.D
 Als bottle: 79
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppb)	FINAL (ppb)
\$ 32 Dibromofluoromethane (S)	113	3.223	3.222	(0.797)	146181	51.4795	51.5
* 40 Fluorobenzene	96	4.045	4.039	(1.000)	452206	50.0000	
\$ 49 Toluene-d8	98	5.911	5.910	(0.807)	399569	51.6937	51.7
* 59 Chlorobenzene-d5	117	7.327	7.326	(1.000)	331727	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.262	8.261	(1.128)	159376	51.9418	51.9
* 82 1,4-Dichlorobenzene-d4	152	9.069	9.068	(1.000)	149049	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
 Lab File ID: C17.D
 Lab Smp Id: 5037756026
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: jlf
 Method File: \\50wintarget\chem\50MSV2.i\A052610.b\8260-c1.m
 Misc Info:

Calibration Date: 26-MAY-2010
 Calibration Time: 23:46
 Client Smp ID: 5037756026
 Level: LOW
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	456732	228366	913464	452206	-0.99
59 Chlorobenzene-d5	337893	168947	675786	331727	-1.82
82 1,4-Dichlorobenze	147661	73831	295322	149049	0.94

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.15
59 Chlorobenzene-d5	7.33	6.83	7.83	7.33	0.01
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756026 Client Smp ID: 5037756026
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.5	102.96	82-122
\$ 49 Toluene-d8	50.0	51.7	103.39	80-120
\$ 70 4-Bromofluorobenze	50.0	51.9	103.88	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5037756026
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: A052610.b
Client Smp ID: 5037756026
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
=====	=====	=====	
1868-53-7-----Dibromofluoromethane (S)_____	51.5		
2037-26-5-----Toluene-d8_____	51.7		
460-00-4-----4-Bromofluorobenzene_____	51.9		

Data File: \\Sowintarget\chem\50HSV2.1\9052610.b\CI7.D
Date : 27-MAY-2010 08:51

Client ID: 5037756026

Sample Info: 5037756026

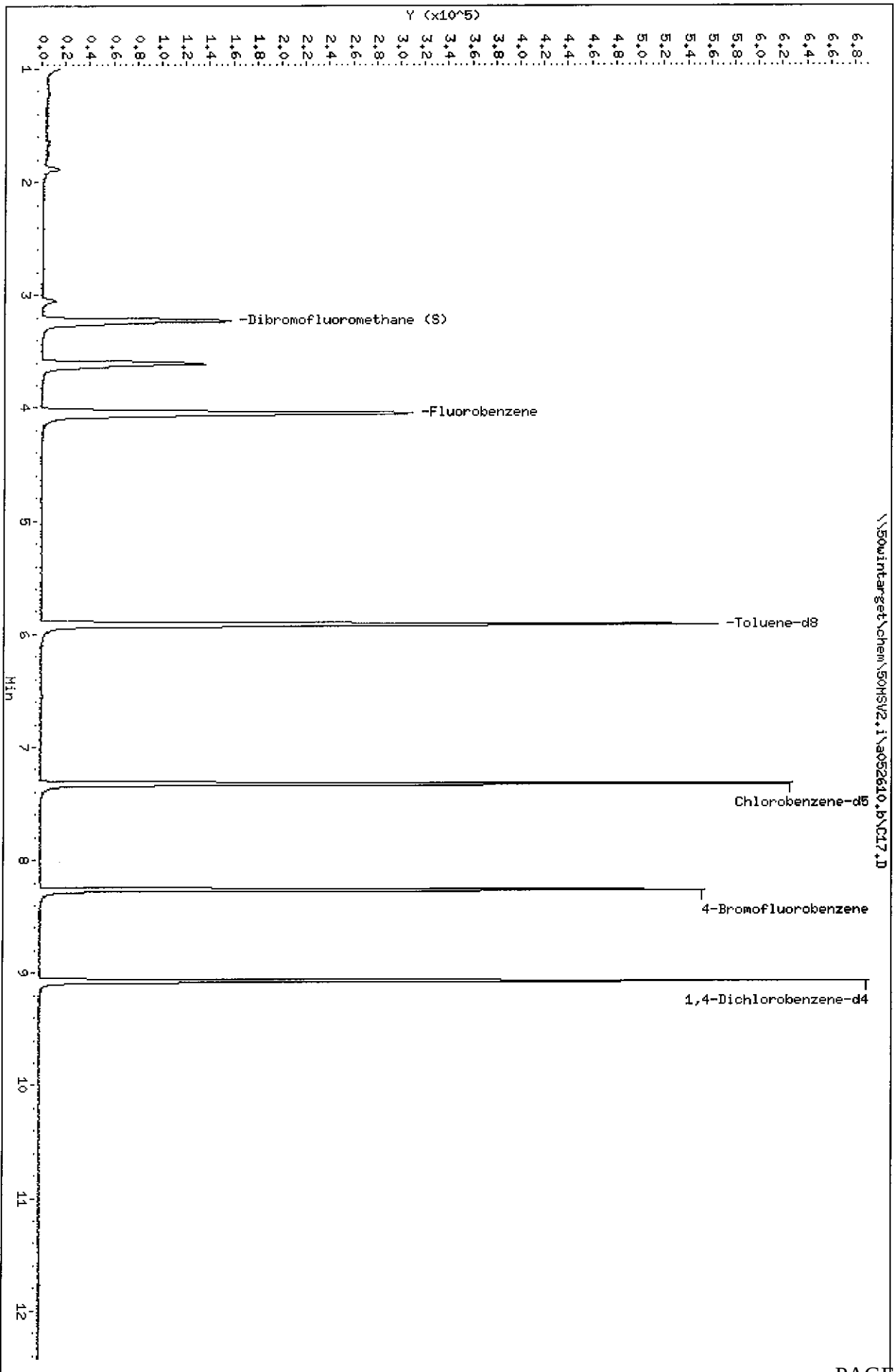
Purge Volume: 5.0

Column Phase: DB-624

Instrument: 50HSV2.i

Operator: jlf

Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV2.i\A052610.b\C18.D
Lab Smp Id: 5037756027 Client Smp ID: 5037756027
Inj Date : 27-MAY-2010 09:25
Operator : jlf Inst ID: 50MSV2.i
Smp Info : 5037756027
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV2.i\A052610.b\8260-cl.m
Meth Date : 27-May-2010 15:38 jfislar Quant Type: ISTD
Cal Date : 19-MAY-2010 16:35 Cal File: A11-8CAL.D
Als bottle: 81
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb)	FINAL (ppb)
\$ 32 Dibromofluoromethane (S)	113	3.229	3.222	(0.798)	152182	51.4191	51.4
* 40 Fluorobenzene	96	4.046	4.039	(1.000)	471323	50.0000	
\$ 49 Toluene-d8	98	5.912	5.910	(0.807)	415841	52.4352	52.4
* 59 Chlorobenzene-d5	117	7.323	7.326	(1.000)	340354	50.0000	
\$ 70 4-Bromofluorobenzene	95	8.263	8.261	(1.128)	162959	51.7634	51.8
* 82 1,4-Dichlorobenzene-d4	152	9.070	9.068	(1.000)	150688	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV2.i
Lab File ID: C18.D
Lab Smp Id: 5037756027
Analysis Type: VOA
Quant Type: ISTD
Operator: jlf
Method File: \\50wintarget\chem\50MSV2.i\052610.b\8260-c1.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 23:46
Client Smp ID: 5037756027
Level: LOW
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	456732	228366	913464	471323	3.19
59 Chlorobenzene-d5	337893	168947	675786	340354	0.73
82 1,4-Dichlorobenze	147661	73831	295322	150688	2.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
40 Fluorobenzene	4.04	3.54	4.54	4.05	0.18
59 Chlorobenzene-d5	7.33	6.83	7.83	7.32	-0.04
82 1,4-Dichlorobenze	9.07	8.57	9.57	9.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: a052610.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 5037756027 Client Smp ID: 5037756027
Level: LOW Operator: jlf
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8260LCSfulllist.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV2.i\a052610.b\8260-c1.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.0	51.4	102.84	82-122
\$ 49 Toluene-d8	50.0	52.4	104.87	80-120
\$ 70 4-Bromofluorobenze	50.0	51.8	103.53	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

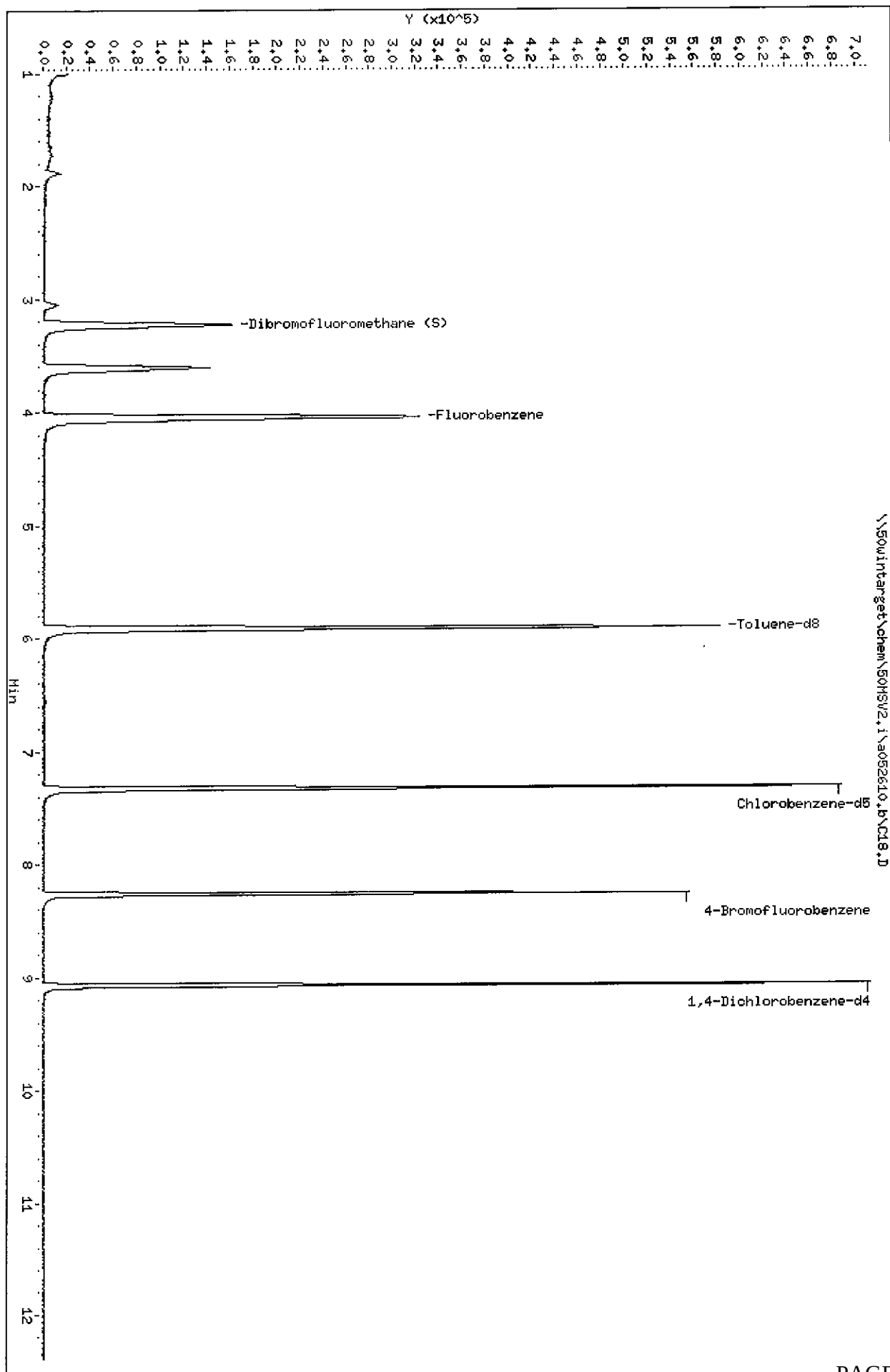
Client Name:
 Lab Smp Id: 5037756027
 Sample Location:
 Sample Date:
 Sample Matrix: WATER
 Analysis Type: VOA
 Data Type: MS DATA
 Misc Info:

Client SDG: A052610.b
 Client Smp ID: 5037756027
 Sample Point:
 Date Received:
 Quant Type: ISTD
 Level: LOW
 Operator: jlf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
=====	=====	=====	=====
1868-53-7-----	Dibromofluoromethane (S)_____	51.4	
2037-26-5-----	Toluene-d8_____	52.4	
460-00-4-----	4-Bromofluorobenzene_____	51.8	

Data File: \\50wintarget\chem\50HSV2.i\052610.b\CI8.D
 Date: 27-MAY-2010 09:25
 Client ID: 5037756027
 Sample Info: 5037756027
 Purge Volume: 5.0
 Column phase: DB-624

Instrument: 50HSV2.i
 Operator: jlf
 Column diameter: 0.18



NARRATIVE

PROJECT NARRATIVE

Project: GENUINE PARTS 5037756

Pace Project No.: 6079216

Method: SM 5310C

Description: 5310C TOC

Client: PASI Indianapolis

Date: June 16, 2010

General Information:

2 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CHAIN OF CUSTODY

Chain of Custody



Workorder: 5037756 Workorder Name: Genuine Parts/2829E-001

Owner Received Date: 5/21/2010 Results Requested By: 6/3/2010

Report To		Subcontract To		Requested Analysis											
Andrew Votaw Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 Phone (317)875-5894 Fax (317)872-6189		Pace Analytical Kansas 9608 Loiret Blvd Lenexa, KS 66219 Phone (913)599-5665		66579214											
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	LAB USE ONLY									
1	MW-156	5/20/2010 17:00	5037756018	Water	1										
2	MW-151	5/21/2010 09:00	5037756019	Water	1										
3															
4															
5															
Comments															
Transfers		Released By	Date/Time	Received By	Date/Time										
1		Erin Putton	5/21/10 16:38	[Signature]	5/21/10 08:45										
2															
3															
Cooler Temperature on Receipt 1-8 °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N															

MB

SAMPLE CONDITION UPON RECEIPT



Sample Condition Upon Receipt

Client Name: PAST Indy

Project # 6072

6075214
asfmlh

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☒ No

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No

Optional
Proj. Due Date: 8/3
Proj. Name: Green Pond

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other

Thermometer Used: T-194

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1:8

Temperature should be above freezing to 6°C

Comments:

Date and initials of person examining contents: 5/22/10 WS

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☒ Yes ☐ No ☐ N/A	
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: <u>WT</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐ Yes ☒ No	Initial when completed <u>WS</u> Lot # of added preservative
Trip Blank present:	☐ Yes ☐ No ☒ N/A	15.
Pace Trip Blank lot # (if purchased):		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State:

Client Notification/ Resolution:

Copy COC to Client?

Y (N)

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Project Manager Review:

AEC

Date:

5/24/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

SAMPLE SUMMARIES

SAMPLE SUMMARY

Project: GENUINE PARTS 5037756

Pace Project No.: 6079216

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5037756018	MW-156	Water	05/20/10 17:00	05/22/10 08:45
5037756019	MW-151	Water	05/21/10 09:00	05/22/10 08:45

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: GENUINE PARTS 5037756
Pace Project No.: 6079216

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5037756018	MW-156	SM 5310C	JML	1
5037756019	MW-151	SM 5310C	JML	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

TARGET COMPOUND LIST

ANALYTICAL RESULTS

Project: GENUINE PARTS 5037756
Pace Project No.: 6079216

Matrix: Water
% Moisture:
Acode: 5310C TOC
Prep/Method: SM 5310C

Sample: MW-156 LVL 4
Lab ID: 5037756018
Collected: 05/20/10 17:00
Received: 05/22/10 08:45

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
7440-44-0	Total Organic Carbon	ND	mg/L	1.0	0.37	1		06/01/10 09:21	

Date: 06/16/2010 03:26 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: GENUINE PARTS 5037756

Pace Project No.: 6079216

Matrix: Water
% Moisture:
Acode: 5310C TOC
Prep/Method: SM 5310C

Sample: MW-151 LVL 4
Lab ID: 5037756019
Collected: 05/21/10 09:00
Received: 05/22/10 08:45

CAS No.	Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	Qual
				Limit					
7440-44-0	Total Organic Carbon	ND	mg/L	1.0	0.37	1		06/01/10 09:21	

Date: 06/16/2010 03:26 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QC SUMMARIES

QUALIFIERS

Project: GENUINE PARTS 5037756
Pace Project No.: 6079216

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

Date: 06/16/2010 03:26 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GENUINE PARTS 5037756

Pace Project No.: 6079216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5037756018	MW-156	SM 5310C	WETA/13084		
5037756019	MW-151	SM 5310C	WETA/13084		

Date: 06/16/2010 03:26 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



METHOD BLANK

METHOD BLANK RESULTS

Project: GENUINE PARTS 5037756
Pace Project No.: 6079216

QB Batch: WETA/13084

Method(s): SM 5310C

Associated Lab Samples: 5037756018, 5037756019

Prepared:

CAS No.	Parameters	Results	Units	Reporting		
				Limit	MDL	Analyzed Qual
7440-44-0	Total Organic Carbon	ND	mg/L	1.0	0.37	06/01/10

Type	Sample	Matrix
BLANK	651654	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

MS/MSD RECOVERY



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

MATRIX SPIKE SAMPLE RESULTS

Project: GENUINE PARTS 5037756
Pace Project No.: 6079216

QB Batch: WETA13084
Method(s): SM 5310C

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc		Result		Dilution		% Recovery		QC Limits		Max RPD	Analyzed Date		Qualifier(s)	
			MS	MSD	MS	MSD	MS	MSD	MS	MSD	%Recovery	MSD		MS	MSD	MS	MSD
Total Organic Carbon	mg/L	ND	5		6.0		1		110		80-120			06/01/10			
Type	Sample	Client Sample ID															
MS	651656	MW-156															

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



DUPLICATE

DUPLICATE RESULTS

Project: GENUINE PARTS 5037756
Pace Project No.: 6079216

QB Batch: WETA/13084
Method(s): SM 5310C

Prepared:

Analyte	QC Limits		Results		Units	Analyzed	Qual
	Dup RPD	MAX RPD	Sample	Dup			
Total Organic Carbon		25	ND	.73J	mg/L	06/01/10	
Type	Client Sample ID						
DUP	MW-151						

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

LABORATORY CONTROL SAMPLE



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

LAB CONTROL SAMPLE RESULTS

Project: GENUINE PARTS 5037756
Pace Project No.: 6079216

QB Batch: WETA/13084
Method(s): SM 5310C

LCS Prepared:
LCSD Prepared:

Analyte	LCS		LCSD		QC Limits		Spike		LCS		LCSD		Units		LCS		LCSD		LCS		LCSD	
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec	Conc	Conc	Conc	Conc	Conc	Conc	mg/L	mg/L	Analyzed	Analyzed	Analyzed	Analyzed	Qual	Qual	Qual	Qual
Total Organic Carbon	89				80-120		5	4.4							06/01/10							
Type	Sample																					
LCS	651655																					

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



METHOD DETECTION LIMIT SUMMARY

SAMPLE RAW DATA

DATE: 06-30-2010

Sample #	Tag	Range	Time	TIC	TOC	POC	TC

Sample #	Tag	Range	Time	TIC	TOC	POC	TC
1	PRIMER	10 mg/l	08:57:17	-	4.72	-	-
2	ICV	10 mg/l	09:03:49	-	4.83	-	-
3	ICB	10 mg/l	09:09:41	-	0	-	-
4	PRL	10 mg/l	09:15:39	-	.4	-	-
5	651654	10 mg/l	09:21:33	-	0	-	-
6	651655	10 mg/l	09:28:04	-	4.45	-	-
7	5037756018	10 mg/l	09:53:28	-	.55	-	-
8	651656	10 mg/l	10:00:35	-	6.05	-	-
9	5037756019	10 mg/l	10:07:55	-	.62	-	-
10	651657	10 mg/l	10:16:03	-	.73	-	-
11	CCV	10 mg/l	10:22:34	-	4.52	-	-
12	CCB	10 mg/l	10:28:27	-	0	-	-
13	5037760003	10 mg/l	10:35:50	-	.76	-	-
14	6037760004	10 mg/l	10:43:40	-	2.15	-	-
15	5037760005	10 mg/l	10:51:56	-	4.18	-	-
16	5037760006	10 mg/l	10:58:23	-	0	-	-
17	5037474003	10 mg/l	11:08:34	-	5.18	-	-
18	5037474004	10 mg/l	11:19:59	-	19.65	-	-
19	6079144001	10 mg/l	11:26:47	-	4.69	-	-
20	6079144002	10 mg/l	11:32:41	-	0	-	-
21	CCV	10 mg/l	11:39:15	-	4.85	-	-
22	CCB	10 mg/l	11:45:10	-	0	-	-

USE UP/DOWN ARROWS AND T TO TAG AND U TO UNTAG SAMPLES, SPACEBAR FOR NEXT SCREEN
PRESS E TO END TAGGING

Sample #	Tag	Range	Time	TIC	TOC	POC	TC
23	5037474004	10 mg/l	12:12:26	-	4.15	-	-
24	CCV	10 mg/l	12:18:54	-	4.7	-	-
25	CCB	10 mg/l	12:24:47	-	0	-	-