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Remedial Action Progress Report — January 2010 through December 2010

UNC Chapel Hill
Airport Road Waste Disposal Area
Chapel Hill, North Carolina

June 2011

Imagine the result

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Remedial Action Progress Report — January 2010 through December 2010

UNC Chapel Hill
Airport Road Waste Disposal Area, Chapel Hill, North Carolina

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The University of North Carolina at Chapel Hill

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REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME The UNC Airport Road Waste Disposal Area
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TYPE OF SUBMITTAL (circle all that apply): Report, Workplan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Mary Beth Koza
Name of Remediating Party

Mary Beth Koza
Signature of Remediating Party

6-14-2011
Date

NOTARIZATION

North Carolina (Enter State)

Orange **COUNTY**

I, Nelda Hamlett, a Notary Public of said County and State, do hereby certify that Mary Beth Koza did personally appear and sign before me this day, produced proper identification in the form of license, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 14 day of June, 2011.

Nelda Hamlett
Notary Public (signature)

(OFFICIAL SEAL)

NELDA HAMLETT NOTARY PUBLIC DURHAM COUNTY, NC

My commission expires: Jan 8, 2013

Document Certification Form No. DC - I
(Revised 3/11)

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME _____
DATE & NAME OF DOCUMENT _____
TYPE OF SUBMITTAL (circle all that apply): Report, Workplan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

JAMES E. SHILLIDAY III
Name of Registered Site Manager

Signature of Registered Site Manager

6/23/11
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

JAMES E. SHILLIDAY III
Name of Registered Site Manager

Signature of Registered Site Manager

6/23/11
Date

NOTARIZATION

North Carolina (Enter State)
Wake **COUNTY**

I, JOYCE A. ROGERS, a Notary Public of said County and State, do hereby certify that JAMES E. SHILLIDAY III did personally appear and sign before me this day, produced proper identification in the form of personal knowledge, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 23 day of JUNE, 2011.

Joyce A. Rogers
Notary Public (signature) JOYCE A. ROGERS (OFFICIAL SEAL)

My commission expires: 8/25/14

JOYCE A. ROGERS NOTARY PUBLIC WAKE COUNTY, N.C.

Document Certification Form No. DC - II
(Revised 3-11)

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1. Introduction

ARCADIS G&M of North Carolina, Inc. (ARCADIS) prepared this report on behalf of the University of North Carolina at Chapel Hill (UNC) to document remedial action progress and performance of the groundwater remediation system at the UNC Airport Road Waste Disposal Area (the site). The site is located near the intersection of Municipal Drive and Animal Shelter Road and is shown on **Figure 1**.

This site is being remediated under the Registered Environmental Consultant (REC) Program. As required by the REC program implementation guidance, this report is the seventh Remedial Action Progress Report submitted since certification of the Groundwater Remediation System Construction Completion Report on October 25, 2006. As four consecutive quarterly reports were submitted in 2007, REC program guidelines allows for submittal of a single annual report detailing all groundwater remedial activities over the past year. This report is the third annual report and covers the reporting period of January 2010 through December 2010.

This report discusses the operation and maintenance (O&M) of the groundwater remediation system for the period, along with results of the required groundwater effluent sampling and air discharge sampling. The selected remedial option for the site consists of groundwater extraction using electric submersible pumps and dual phase (groundwater/soil vapor) recovery utilizing vacuum-enhanced recovery (VER). Treated groundwater is discharged to the Orange Water and Sewer Authority (OWASA) sewer system under OWASA discharge permit #010. The groundwater remediation system became fully operational on October 5, 2006.

This report also contains the results of the November 2010 annual groundwater and surface water monitoring event. The samples were collected from 28 monitor wells, 4 vapor extraction and recovery wells, 6 recovery wells, and 5 surface water sample locations to evaluate overall effectiveness of the groundwater remediation efforts.

Additionally, during 2010, enhancement of the remedial system was conducted by use of an infiltration gallery. The gallery was installed during removal of the source material conducted in 2008. One injection event utilizing sodium persulfate and associated monitoring was conducted in October 2010. Additional injection events are planned in 2011.

2. Groundwater Remediation System

The groundwater remediation system was installed at the site in the summer of 2006, and the system became fully operational on October 5, 2006. The groundwater remediation system consists of four vapor extraction and recovery (VER) wells (designated VER-1 through VER-4), three shallow recovery wells (designated as SRW-1 through SRW-3) and three deep recovery wells (designated as DRW-1 through DRW-3) as shown on **Figure 2**. Groundwater from the VER wells and shallow recovery wells is pumped into a settling tank, followed by bag filtration. This flow then joins groundwater pumped from the deep recovery wells and the combined flow enters the air stripper. Following treatment by the air stripper, the water is pumped to OWASA Manhole 47C4001 where it is discharged into the OWASA sewer system.

2.1 Treatment System Operation and Maintenance

The groundwater remediation system is inspected by ARCADIS personnel on a monthly basis. System operational information recorded during the site checks includes readings from the various pressure and flow gauges located on the bag filter, influent flow meters, air stripper, VER system, effluent pump, and effluent totalizer. Minor adjustments are made to keep the system operating as efficiently as possible. Maintenance activities include changing of the cloth bag filter. Monthly O&M activities include collecting readings from the various flow meters and pressure gauges at each well head, as well as cleaning of the air stripper and removal of accumulated sediment from the settling tank.

A record of system O&M activities conducted from January 2010, through December 2010 is included in **Table 1**. The information presented on **Table 1** includes descriptions of the activities and the dates on which the activities were performed.

The groundwater remediation system and recovery wells were generally operational between January 2010 and December 2010. There were no major repairs performed during this period beyond normal cleaning.

Based on the totalizer reading recorded at the treatment system on December 16, 2010, approximately 27,972,470 gallons of impacted groundwater have been extracted from the site and treated and discharged since the system was first activated on October 5, 2006.

2.2 Treatment System Sampling

Treatment system sampling consists of collection of groundwater effluent samples to monitor the quality of water entering the OWASA system and also collection of air discharge samples from the air stripper and VER system. The following sections describe the sampling in greater detail.

2.2.1 Monthly OWASA Discharge Permit Sampling

Following start up of the groundwater remediation system, monthly collection of treated groundwater samples was performed as per the requirements of the OWASA discharge permit #010, which became effective on June 1, 2006. The permit requires monthly discharge sampling and monthly reporting for the first year of system operation followed by monthly sampling and quarterly reporting for subsequent years. The first year of operation was completed as of October 2007 and as such the reporting frequency was adjusted to quarterly. Monthly effluent sampling will continue for the duration of the permit.

The treatment system effluent samples were analyzed for volatile organic compounds (VOCs) and arsenic, chromium, copper, lead, zinc and mercury. Samples designated for analysis of VOCs, arsenic, chromium, copper, lead, and zinc were submitted to TestAmerica in Savannah, Georgia for analysis. Samples designated for analysis of mercury were submitted to TestAmerica in Pensacola, Florida for analysis.

System effluent samples were collected on January 11, 2010, February 10, 2010, March 12, 2010, April 19, 2010, May 24, 2010, June 14, 2010, July 27, 2010, August 18, 2010, September 12, 2010, October 1, 2010, November 5, 2010, and December 14, 2010, for reporting to OWASA.

The analytical results from all effluent monitoring events (**Table 2**) indicate the groundwater treatment system is effectively treating the extracted groundwater. In 2010, all parameters were in compliance with OWASA discharge limits for the respective monitoring period.

Quarterly discharge monitoring reports (DMR) were generated for the January to March 2010 monitoring period, April to June 2010 monitoring period, July to September 2010 monitoring period and October to December 2010 monitoring period. Copies of the DMRs are included in Appendix A. The laboratory analytical reports

associated with the groundwater treatment system effluent samples are included in Appendix B.

2.2.2 Air Discharge Effluent Sampling

In addition to the OWASA effluent sampling, air discharge samples were collected from the air stripper and VER system on a regular basis upon commencement of system operations. Samples were collected during the monitoring period on February 11, 2010 and again on July 27, 2010.

Air samples collected in the field remained in the custody of an ARCADIS employee until hand delivered to the laboratory. Air sample analytical services were provided by Research Triangle Park Laboratories. All air samples were analyzed for VOCs by EPA Method TO-15.

The analytical results from the air discharge sampling events associated with the air stripper and the VER system are presented in **Table 3** and **Table 4**, respectively. The analytical data were converted to daily mass flow in pounds per day using the raw data and the air flow information collected during each monitoring event. The converted data indicates a total average of 0.2 pounds per day of volatile organics for the combined discharge from both the air stripper and VER system for the period of January 2010 through December 2010. Extrapolated for a year, this average would be 73 pounds per year or approximately 0.04 tons. This volume is well below the 5 tons per year required for an air quality permit.

Monitoring of air quality from the air stripper and VER system will continue on a semi-annual basis through the next reporting period as per the monitoring schedule contained in the Construction Completion Report: Groundwater Remediation System dated October 2006. Copies of the air quality laboratory reports are included in Appendix C.

3. Annual Groundwater and Surface Water Sampling Event

The results of the field measurements collected from the site monitor wells are presented in this section along with the analytical results for the November 2010 groundwater and surface water sampling event. The locations of the site monitor wells, recovery wells, and surface water sample points are shown on **Figure 2. T**he construction details for site monitor wells and recovery wells are listed on **Table 5**.

3.1 Groundwater Flow Direction

Water-level measurements from tops of casings were collected from the site wells on November 2, 2010, to determine the groundwater flow direction at the site. The water-level measurements were converted to water-level elevations using existing monitor well top of casing elevation data. The depth-to-water measurements and the converted water-level elevations for the November 2010 gauging event are listed on **Table 6**.

The water-level elevations in the shallow monitor wells ranged from 447.41 feet above mean sea level (ft msl) in downgradient well MW-25 to 478.81 ft msl in upgradient well MW-3, located near the source area. In the bedrock aquifer, water-level elevations ranged from 383.85 ft msl in downgradient monitor well MW-35 to 473.57 in monitor well MW-28 which is located upgradient of the source area.

The water-level elevations in the monitor wells adjacent to, or near, recovery wells are most directly affected by the active pumping of the recovery wells. Since the activation of the recovery wells in October 2006, water-level elevations in site monitor wells located near the recovery wells have decreased slightly to significantly depending on the proximity of the monitor well relative to the recovery wells. Historical depth-to-water measurements and groundwater elevation data for the site monitor wells are presented in **Table 7**.

Water-level contour maps for the November 2010 sampling event were prepared for the surficial and bedrock aquifers using the water-level elevation data from the wells (**Figures 3 and 4**, respectively). Based on the information presented on **Figures 3 and 4**, the overall groundwater flow direction in the surficial and bedrock aquifers is generally towards the north and northeast. In comparing the groundwater flow map created with the November 2010 water-level elevation data to the numerous historic potentiometric surface maps that have been created for the site, it is apparent that the groundwater recovery system has altered the groundwater flow pattern at the site.

Based on the November 2010 water level data, the capture zone created by the groundwater extraction wells extends from the VER wells north/northwest to the SRW series of recovery wells and northeast toward deep recovery wells DRW-2 and DRW-3.

3.2 Groundwater Parameters

The field groundwater parameters for temperature, pH, and specific conductance were measured for samples collected from monitor wells during the November 2010 sampling event. The last set of temperature, pH, and specific conductance measurements that were recorded prior to sampling the monitor wells are presented in **Table 8**. The temperature, pH, and specific conductance ranges for the monitoring wells were as follows: 14.23 to 18.62 (degrees Celsius), 5.30 to 7.88 (standard units), and 163 to 2,507 (µmhos), respectively. The temperature, pH, and specific conductance measurements collected during the November 2010 sampling event are consistent with the measurements collected during previous monitor well sampling events.

3.3 Groundwater Sample Analytical Results

Groundwater samples were collected from 25 monitor wells, 4 vapor extraction and recovery wells, and 6 recovery wells during the November 2010 groundwater sampling event. The analytical results for the November 2010 groundwater sampling event are summarized in **Table 9**. A copy of the laboratory analytical data report associated with this sampling event is included in Appendix B.

Based on the laboratory data report for the November 2010 sampling event, benzene, chloroform, 1,2-dichloroethane, diethyl ether, methylene chloride, methyl turt-butyl ether (MTBE), 1,1,2,2-tetrachloroethene, trichloroethene, vinyl chloride, and xylene were reported at concentrations above North Carolina Groundwater Standards. The highest concentrations of these compounds were seen in monitor wells MW-1 and MW-2, located immediately downgradient of the source area, with decreasing concentrations further downgradient. The one exception was MTBE which was only detected in one monitor well (bedrock well MW-36) which is located approximately 1,000 feet lateral gradient of the waste disposal area and within approximately 100 feet of Martin Luther King, Jr. Boulevard (formerly Airport Road). Based on the fact that MTBE has never been detected at the site in any other wells, and that the timeframe for use of MTBE began in the 1980s (well after burial activities were suspended at the waste disposal area), it appears that the detection of MTBE in well

MW-36 is likely related to an offsite release of gasoline. It is possible that a gasoline release on or near Martin Luther King Jr. Boulevard (formerly Airport Road) is the cause of the MTBE detections in well MW-36.

Contaminant isoconcentration contour maps for benzene, chloroform, methylene chloride, and diethyl ether are presented for the shallow unconsolidated aquifer in **Figures 5, 6, 7, and 8**, respectively. Isoconcentration contour maps for benzene, chloroform, and diethyl ether are presented for the bedrock aquifer in **Figures 9, 10, and 11**, respectively. The maps were created using the data from the November 2009 sampling event, and historical data was also considered in the placement of the contours. Isoconcentration contour cross section maps for benzene and diethyl ether have been prepared and are included as **Figures 12 and 13**, respectively. Historical groundwater analytical data for site monitor wells are presented in **Table 10**.

Overall the groundwater analytical data from the November 2010 groundwater sampling event indicates that the existing monitor well network has defined the extent of impacted groundwater at the site.

3.4 Historical Groundwater Analytical Trends

The groundwater analytical data obtained during the November 2010 sampling event indicate localized decreases in specific VOC concentrations since activation of the groundwater remediation system. VOC concentration reductions have been observed primarily in the shallow monitor wells MW-1, MW-2, MW-6 and MW-12, and the bedrock monitor wells MW-11, MW-15 and MW-31. Monitor wells MW-1 and MW-2 are located in close proximity to the VER wells, downgradient of the source area, while monitor well MW-12 is located between SRW-2 and SRW-3. Monitor wells MW-11 and MW-15 are adjacent to DRW-2 and DRW-1 respectively. The general decrease in VOC concentrations, especially in monitor wells located in the vicinity of recovery wells, suggests the groundwater remediation system is effectively reducing groundwater contaminant concentrations at the site. The analytical results for these wells will be further evaluated during future monitoring events to determine if these trends continue. In addition, the groundwater at well MW-36 will continue to be monitored for the presence of MTBE.

3.5 Surface Water Analytical Results

Surface water samples were collected from sample locations SW-2, SW-3, SW-4, SW-5, and SW-6 and analyzed for VOCs during the November 2010 monitoring

event. Surface water sample locations are shown on **Figure 2** and tabulated analytical results are displayed on **Table 11**. Analytical results indicate that no VOCs were detected above laboratory reporting limits in any of the surface water samples collected.

4. Infiltration Gallery Injection Event

4.1 Infiltration Gallery Construction

Following the excavation and off-site disposal of the source material in 2008 at the UNC Airport Road Waste Disposal Area, an infiltration gallery was installed in the excavation base. The gallery was designed to allow the future application of remedial amendments to supplement groundwater recovery efforts. The infiltration gallery was constructed as three individual cells as shown on **Figure 14**. The bottom of each cell is approximately 13 feet below land surface at elevations ranging from 472 to 474 ft amsl with the higher elevations near Cell 3. Eighteen inch high clay berms separate each cell from each other. The cells are filled to a depth of approximately 18 inches with number 4 sized crushed stone. Within each cell, two north to south oriented 4-inch diameter horizontal slotted pipes were installed at the approximate midpoint of the stone. The horizontal pipes are connected to the land surface via 4-inch diameter Schedule 40 PVC pipes. The dimensions and approximate capacity of each cell and the total infiltration gallery are shown in the following table:

	Area (ft^2)	Depth (ft)	Volume (ft^3)	Est. Porosity	Capacity (ft^3)	Capacity (gal)
Cell 1	1,575	1.5	2,363	30%	709	5,301
Cell 2	1,950	1.5	2,925	30%	878	6,564
Cell 3	4,212	1.5	6,318	30%	1,895	14,178
Total	7,737	1.5	11,606	30%	3,482	26,043

4.2 Injection Chemical Selection

An evaluation was conducted on the mixture of chemicals known to be present at the site. The mixture includes aromatics (benzene, toluene, ethylbenzene and xylenes), ketones (acetone), diethyl ether, chlorinated methanes (carbon tetrachloride and chloroform), chlorinated ethenes (trichloroethene – TCE) and chlorinated ethanes (dichloroethane– DCA). Based on the site specific mix, it was determined that sodium persulfate would likely provide the best treatment approach for the broadest range of chemicals. In addition, activation via sodium hydroxide was selected as the best way to treat the typically more resistant chlorinated methanes.

4.3 Permitting

An Underground Injection Control (UIC) permit was issued to UNC on April 15, 2010 to cover the injection gallery. The permit was issued by the NCDENR Division of

Water Quality. The site is permitted to perform up to 12 quarterly injection events. Each individual event is permitted for injection of up to 15,000 gallons of sodium persulfate at a concentration of 5 grams per liter (g/L). Activation may be through the use of up to 15,000 gallons of sodium hydroxide at a concentration of 5 g/L. Post injection monitoring consists of monitor wells MW-1, MW-2, MW-3, MW-38, MW-39 and bedrock well MW-14.

4.4 October 2010 Injection Event

Baseline groundwater sampling was conducted prior to the initial injection event on October 1, 2010. Baseline groundwater sampling was conducted on wells MW-1, MW-2, MW-3, MW-14, MW-38, and MW-39 on September 29 and 30, 2010. Each well was purged prior to sampling and field parameters including temperature, pH, dissolved oxygen, conductivity, turbidity, and oxidation-reduction potential were measured with a calibrated multi-parameter meter and recorded. Samples were collected and submitted to TestAmerica Laboratories in Savannah, Georgia for analysis of VOCs, RCRA metals, sodium, iron, and sulfate. Field parameters were also measured and record at injection monitoring wells IGMW-1 and IGMW-2.

ARCADIS utilized Garco, to perform the injection. ARCADIS and Garco mobilized to the site on October 1, 2010. Water levels were measured and recorded at injection wells IW-1, IW-2, IW-3, IW-4, IW-5, and IW-6.

An injectant solution was prepared in a decontaminated stainless steel mobile tanker by combining approximately 240 pounds of sodium persulfate and 5,000 gallons of potable water. The solution was recirculated using a pneumatic diaphragm pump to ensure dissolution and mixing of the persulfate. The injectant solution was gravity drained into IW-1. Water levels in the injection wells were monitored throughout the injection. The injection was stopped after injecting approximately 800 gallons to prevent rising water levels in injection wells IW-1 and IW-2 from overflowing.

Due to elevated water levels in the infiltration gallery following a heavy rain event on September 30, 2010 an injectant solution with a higher concentration of sodium persulfate was prepared by adding an additional approximately 240 pounds of sodium persulfate to the remaining 4,200 gallons of injectant solution in the tanker. The injectant was again recirculated in the tanker. Approximately 2,000 gallons of resulting solution were injected into each IW-5 and IW-6. 300 gallons of solution were injected into IW-4.

Due to rising water levels during the first injection attempt in IW-1 and IW-4, a more concentrated injectant solution was prepared for additional injections in IW-2 and IW-3. Approximately 220 pounds of sodium persulfate were mixed with 1,000 gallons of potable water and recirculated in the tanker. Approximately 400 gallons of the resulting solution were gravity drained into injection well IW-2 and approximately 250 gallons were injected into injection well IW-3. Rising water levels in injection wells IW-1, IW-2, IW-3, and IW-4 prevented additional injections into these wells. The remaining approximately 350 gallons of solution were gravity drained into injection well IW-5. The final injection gallery concentration was calculated to be 4 g/L, which is within the injection permit limits.

4.5 Post Injection Monitoring

Post-injection groundwater monitoring was conducted on October 4, 2010, October 8, 2010, and October 18, 2010. During each sampling event MW-1, MW-2, MW-3, MW-14, MW-38, and MW-39 were purged prior to sampling and field parameters including temperature, pH, dissolved oxygen, conductivity, turbidity, and oxidation-reduction potential were measured with a calibrated multi-parameter meter and recorded. Each well was sampled for VOCs, RCRA metals, iron, sodium, and sulfate. Samples were submitted to Test America, an environmental analytical laboratory, for analysis.

The pre-injection and post-injection data are summarized on **Table 12**. The data are similar for both pre-injection and post-injection; however, both are slightly lower than historic concentrations seen in these wells. Additional monitoring and injections are needed to further evaluate the effectiveness of the persulfate.

5. Summary

This section provides a summary of the groundwater remediation system O&M activities and system sampling activities conducted for the performance monitoring period of January 2010 through December 2010. This section also provides a summary of the analytical results for the groundwater and surface water sampling event conducted at the site in November 2010 and a summary of the infiltration gallery injection event. The data collected during the performance monitoring period documented in this report indicate that the groundwater remediation system is effectively extracting and treating impacted groundwater, and that the impacted groundwater plume at the site is adequately defined by the existing monitor well network.

5.1 Groundwater Remediation System O&M

The groundwater remediation system is inspected by ARCADIS personnel on a regular basis. System operational information recorded during the site checks includes readings from the various pressure and flow gauges located on the bag filter, influent flow meters, air stripper, VER system, effluent pump, and effluent totalizer. Minor adjustments are made to keep the system operating as efficiently as possible. Regular maintenance activities include changing of the cloth bag filter. Monthly O&M activities include collecting readings from the various flow meters and pressure gauges at each well head, as well as cleaning of the air stripper and effluent transfer pump.

Based on the totalizer reading at the treatment system on December 16, 2010, approximately 27,972,470 gallons of impacted groundwater have been pumped from the site recovery wells and treated and discharged since the system was activated on October 5, 2006.

5.2 Groundwater Remediation System Monthly OWASA Sampling

The sampling of the effluent entering the OWASA system was conducted on a monthly basis. The analytical data from the monthly sampling events indicate the groundwater treatment system is sufficiently removing the constituents of concern from the discharge. In 2010, all parameters were in compliance with the OWASA discharge limits.

5.3 Air Discharge Effluent Sampling

The air discharge sampling performed on the effluent discharge of the air stripper and the VER system during the operational period indicated that on average, 0.02 pounds per day of VOCs are being generated from the groundwater remediation system. This value extrapolated over a period of a year indicates the total VOC discharge will be approximately 0.04 tons which is well below the 5 tons per year limit for an air discharge permit.

5.4 Groundwater Sampling

Water-level measurements were collected from site monitor wells and recovery wells during the November 2010 monitor well sampling event. The depth-to-water measurements and the converted water-level elevation data for the shallow and bedrock monitor wells indicate that groundwater is flowing north and northeast across the site.

The groundwater flow pattern derived using the November 2010 water level elevation data indicates that the groundwater recovery system has altered groundwater flow at the site in comparison to previous static water-level elevation measurement events. The groundwater extraction system has created a capture zone that extends from the VER wells north/northwest to the SRW series of recovery wells and northeast toward deep recovery wells DRW-2 and DRW-3.

Groundwater samples were collected from 25 monitor wells, 4 vapor extraction and recovery wells, and 6 recovery wells during the November 2010 annual sampling event and the samples were analyzed for VOCs. The analytical results from the November 2010 groundwater sampling event indicate that benzene, chloroform, 1,2-dichloroethane, diethyl ether, methylene chloride, MTBE, 1,1,2,2-tetrachloroethene, trichloroethene, vinyl chloride, and xylene were reported at concentrations above North Carolina Groundwater Standards. The concentrations of some of these constituents have been reduced at specific well locations. The detection of MTBE in well MW-36 will continue to be monitored.

5.5 Surface Water Sampling

Surface water samples were collected from sample locations SW-2, SW-3, SW-4, SW-5, and SW-6 and analyzed for VOCs during the November 2010 sampling event. Analytical results indicate that no VOCs were detected above laboratory reporting limits in any of the surface water samples collected.

5.6 Infiltration Gallery

The initial injection of the infiltration gallery was conducted on October 1, 2010. Monitoring data for the initial event indicated no significant change in concentrations within downgradient monitor wells. Additional events will be conducted in 2011 at which time the use of persulfate can be better evaluated.

5.7 Conclusions

The data generated for the UNC Airport Road Waste Disposal Area during 2010 continues to indicate that the extent of impacted groundwater is well understood, and that the impacted groundwater plume is contained onsite. Furthermore, the active groundwater remediation system appears to be effective at containing and recovering the impacted groundwater and reduced contaminant concentrations have been observed at several monitor well locations. Operation of the groundwater remediation system will continue through 2011 with the next Remedial Action Progress Report being submitted in the first quarter of 2012.

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Remedial Action Progress Report — January 2010 through December 2010

Tables

Table 1. Groundwater Remediation System Sampling and Operation and Maintenance Record January 2010 through December 2010, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Date	Personnel On-Site	Maintenance Activity/Comments	System Status	Samples Collected	System Totalizer Reading (gallons)	Gallons Pumped During Period (gallons)	OWASA Totalizer Reading	Average Daily Flow for Period (gallons)	Period Start	Period End
12/21/2009	D. Twamley	On-site to collect monthly effluent samples. Remediation system check.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	19,397,452	789,332	2,629,315	25,462	11/20/2009	12/21/2009
1/11/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	19,950,791	553,339	2920975	26,349	12/21/2009	1/11/2010
1/13/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled and recovery well pumps cleaned.	Running	None	NR		NR			
2/10/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and Mercury), AS Vapors, SVE Vapors	20,720,708	769,917	3,358,100	25,664	1/11/2010	2/10/2010
3/12/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	21,502,485	781,777	3,785,350	26,059	2/10/2010	3/12/2010
3/26/2010	**OWASA**	OWASA performed annual totalizer change out. The final reading for the 1 1/2" on Municipal Dr. Serial#00512859 was 03976400. The new serial # is 10901811. Initial reading is 00000000.	Running	None	NR					
4/6/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	NR		NR			
4/19/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	22,480,900	978,415	4,118,215	25,748	3/12/2010	4/19/2010
5/24/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	23,358,049	877,149	4,572,291	25,061	4/19/2010	5/24/2010
5/27/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	NR		NR			
6/14/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	23,669,300	311,251	4,855,305	14,821	5/24/2010	6/14/2010
6/30/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	NR		NR			
7/27/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and Mercury), AS Vapors, SVE Vapors	24,236,386	567,086	5,341,300	13,188	6/14/2010	7/27/2010
8/12/2010	D. Twamley and **SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	24,567,040	330,654	1,698,450	20,666	7/27/2010	8/12/2010
8/18/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	24,759,489	192,449	5,561,965	32,075	8/12/2010	8/18/2010
9/8/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	NR		NR			
9/12/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	25,321,415	561,926	5,791,935	22,477	8/18/2010	9/12/2010
10/1/2010	A.Pinnix and J.Frizzell	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	25,729,500	408,085	NR	21,478	9/12/2010	10/1/2010

Table 1. Groundwater Remediation System Sampling and Operation and Maintenance Record January 2010 through December 2010, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Date	Personnel On-Site	Maintenance Activity/Comments	System Status	Samples Collected	System Totalizer Reading (gallons)	Gallons Pumped During Period (gallons)	OWASA Totalizer Reading	Average Daily Flow for Period (gallons)	Period Start	Period End
10/19/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	NR		NR			
11/5/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	26,783,129	1,053,629	2,592,920	30,104	10/1/2010	11/5/2010
11/11/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	NR		NR			
12/14/2010	D. Twamley	On-site to collect monthly effluent samples. Remediation system inspected.	Running	Effluent (VOCs, RCRA metals and LL Mercury)	27,972,470	1,189,341	3,040,485	30,496	11/5/2010	12/14/2010
12/16/2010	**SAEDACCO**	On-site for monthly system cleaning and O&M. AS trays descaled.	Running	None	NR		NR			

Table 2. Summary of Groundwater Treatment System Effluent Sample Results, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, North Carolina.

Parameter	OWASA Maximum Allowable Discharge Concentration	Groundwater Treatment System Effluent Samples						
		12/21/2009	1/11/2010	2/10/2010	3/12/2010	4/19/2010	5/24/2010	6/14/2010
Benzene (µg/L)	100	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform (µg/L)	100	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane (µg/L)	71	1.6	1.5	< 2.0	4.7	1.7	8.4	3.4
Methylene Chloride (µg/L)	930	< 5.0	< 5	<10	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane (µg/L)	30	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic (µg/L)	16	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chromium (µg/L)	50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper (µg/L)	60	< 20	< 20	< 20	< 20	23	< 20	< 20
Lead (µg/L)	49	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Zinc (µg/L)	535	< 20	< 20	22	22	97	< 100	< 100
Mercury (ng/L)	50	0.67	< 0.50	0.55	< 0.50	< 0.50	1.2	< 0.50

µg/L Micrograms per liter
ng/L Nanograms per liter

Table 2. Summary of Groundwater Treatment System Effluent Sample Results, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, North Carolina.

Parameter	OWASA Maximum Allowable Discharge Concentration	Groundwater Treatment System Effluent Samples					
		7/27/2010	8/18/2010	9/12/2010	10/1/2010	11/5/2010	12/14/2010
Benzene (µg/L)	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform (µg/L)	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane (µg/L)	71	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride (µg/L)	930	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane (µg/L)	30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic (µg/L)	16	< 20	< 20	< 20	< 20	< 20	< 20
Chromium (µg/L)	50	< 10	< 10	< 10	< 10	< 10	< 10
Copper (µg/L)	60	< 20	< 20	< 20	< 20	< 20	< 20
Lead (µg/L)	49	< 10	< 10	< 10	< 10	< 10	< 10
Zinc (µg/L)	535	< 100	< 100	< 100	< 20	< 20	< 100
Mercury (ng/L)	50	< 0.50	< 0.50	0.74	< 0.50	0.68	0.71

µg/L Micrograms per liter
ng/L Nanograms per liter

Table 3. Summary of Air Stripper Discharge Sample Results, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituents	Sample ID.: / Date Sampled:	Air Stripper Discharge 2/11/2010			Air Stripper Discharge 7/27/2010		
Air Stripper Discharge Pipe (6 inch diameter)							
Vapor Flow Rate (cfm)		320			320		
Vapor Temperature (degrees celcius)		20			20		
Vapor Flow Rate (m3/day)		13824			13824		
Discharge Velocity (ft/sec)		6.79			6.79		
Volatile Organics (ppbv) *(USEPA Method TO-15 GC/MS)*	Molecular Weight (g/mol)	**Air Concentration ppbv**	**Converted Concentration mg/m3**	**Daily Mass Flow Rate lbs/day**	**Air Concentration ppbv**	**Converted Concentration mg/m3**	**Daily Mass Flow Rate lbs/day**
Dichlorodifluoromethane (Freon 12)	120.91						
1,2-Chloro-1,1,2,2-Tetrafluorethane	170.92						
Chloromethane	50.49						
Vinyl chloride	62.50						
1,3-Butadiene	54.09						
Bromomethane	94.94						
Cloroethane	64.51						
Trichloromonofluoromethane	137.37	**0.6**	0.00	0.00			
1,1-Dichloroethene	96.94						
1,1,2-Trichloro-1,2,2-trifluoroethane	187.38						
Ethanol	46.07						
Carbon Disulfide	76.14						
Isopropyl alcohol	60.10	**2.72**	0.01	0.00	**28.8**	0.07	0.00
Methylene Chloride	84.93	**2.53**	0.01	0.00	**10.12**	0.04	0.00
Acetone	58.08	**2.86**	0.01	0.00	**110.32**	0.26	0.01
t-1,2-dichloroethene	96.94						
Hexane	86.18				**9.51**	0.03	0.00
Methyl-t-butyl ether (MTBE)	88.15						
1,1-Dichloroethane	98.96						
Vinyl acetate	86.09	**2.4**	0.01	0.00			
cis-1,2-dichloroethene	96.94						
Cyclohexane	84.18	**0.81**	0.00	0.00	**2.69**	0.01	0.00
Chloroform	119.38	**4.07**	0.02	0.00	**2.28**	0.01	0.00
Ethyl Acetate	88.10						
Tetrahydrofuran	72.11	**6.12**	0.02	0.00	**4.84**	0.01	0.00
1,1,1-Trichloroethane	133.40						
Carbon Tetrachloride	153.82	**0.55**	0.00	0.00			
2-Butanone	72.11						
Heptane	100.2	**1.28**	0.01	0.00			
Benzene	78.11	**2.61**	0.01	0.00	**2.63**	0.01	0.00
1,2-Dichloroethane	98.96						
Trichloroethylene	131.39						
1,2-Dichloropropane	112.99						
Bromodichloromethane	163.83						
1,4-Dioxane	88.11	**1.61**	0.01	0.00	**3.72**	0.01	0.00
Cis-1,3-Dichloropropene	110.97						
Toluene	92.14				**1.98**	0.01	0.00
4-Methyl-2-pentanone (MIBK)	100.16	**61.88**	0.25	0.01			
t-1,2-dichloropropene	110.97						
Tetrachloroethylene	165.83						
1,1,2-Trichloroethane	133.40						
Dibromochloromethane	208.28						
1,2-Dibromoethane	187.86						
2-Hexanone	100.16						
Ethylbenzene	106.17	**0.77**	0.00	0.00			
Chlorobenzene	112.56						
m/p-Xylene	106.17				**1.48**	0.01	0.00
o-Xylene	106.17						
Styrene	104.15						
Tribromomethane	252.73						
1,1,2,2-Tetrachloroethane	167.85						
1-Ethyl-4-Methylbenzene	120.19						
1,3,5-Trimethylbenzene	120.19						
1,2,4-Trimethylbenzene	120.19						
1,3-Dichlorobenzene	147.01						
1,4-Dichlorobenzene	147.01						
Benzyl Chloride	126.59						
1,2-Dichlorobenzene	147.01						
1,1,2,3,4,4-hexachloro-1,2-butadiene	260.76						
1,2,4-Trichlorobenzene	181.45						
	Total lbs/day			0.01			0.01

Calculated values

Conversion from ppvb to mg/m3: mg/m3 = (ppbv/1000)(MW)/24.45

mg/m^3 milligrams per cubic meter
lbs/day pounds per day
cfm cubic feet per minute
m^3/day cubic meters per day
ft/sec feet per second
ppbv parts per billion by volume

Table 4. Summary of VER Discharge Sample Results, UNC Airport Road Waste Disposal Area, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituents		Sample ID.: VER Discharge Date Sampled: 2/11/2010			VER Discharge 7/27/2010		
VER Discharge Pipe Dia. (4 inch diameter)							
Vapor Flow Rate (cfm)		90			90		
Vapor Temperature (degrees farenheit)		152			152		
Vapor flow Rate (m3/day)		3,888			3,888		
Discharge Velocity (ft/sec)		4.3			4.3		
Volatile Organics (ppbv)* *(USEPA Method TO-15 GC/MS)*	Molecular Weight (g/mol)		**Converted Concentration mg/m3**	**Daily Mass Flow Rate lbs/day**		**Converted Concentration mg/m3**	**Daily Mass Flow Rate lbs/day**
Dichlorodifluoromethane (Freon 12)	120.91						
1,2-Chloro-1,1,2,2-Tetrafluorethane	170.92						
Chloromethane	50.49				**8.22**	0.0	0.0
Vinyl chloride	62.50						
1,3-Butadiene	54.09						
Bromomethane	94.94				**33.64**	0.1	0.0
Cloroethane	64.51						
Trichloromonofluoromethane	137.37	**0.93**	0.0	0.0			
1,1-Dichloroethene	96.94						
1,1,2-trichloro-1,2,2-trifluoroethane	187.38						
Ethanol	46.07	**4.49**	0.0	0.0			
Carbon Disulfide	76.14						
Isopropyl alcohol	60.10				**11.90**	0.0	0.0
Methylene Chloride	84.93	**3.48**	0.0	0.0	**11.88**	0.0	0.0
Acetone	58.08				**42.45**	0.1	0.0
t-1,2-dichloroethene	96.94						
Hexane	86.18						
MTBE	88.15						
1,1-Dichloroethane	98.96						
Vinyl acetate	86.09	**1.89**	0.0	0.0			
cis-1,2-dichloroethene	96.94						
Cyclohexane	84.18	**0.91**	0.0	0.0	**2.72**	0.0	0.0
Chloroform	119.38	**17.42**	0.1	0.0	**28.58**	0.1	0.0
Ethyl Acetate	88.10						
Tetrahydrofuran	72.11	**31.35**	0.1	0.0	**7.18**	0.0	0.0
1,1,1-Trichloroethane	133.40						
Carbon Tetrachloride	153.82	**0.55**	0.0	0.0			
2-Butanone	72.11						
Heptane	100.2	**1.01**	0.0	0.0			
Benzene	78.11	**19.33**	0.1	0.0	**34.48**	0.1	0.0
1,2-Dichloroethane	98.96						
Trichloroethylene	131.39	**6.97**	0.0	0.0	**1.40**	0.0	0.0
1,2-Dichloropropane	112.99						
Bromodichloromethane	163.83						
1,4-Dioxane	88.11	**11.90**	0.0	0.0	**3.90**	0.0	0.0
Cis-1,3-Dichloropropene	110.97						
Toluene	92.14	**8.27**	0.0	0.0	**1.18**	0.0	0.0
4-Methyl-2-pentanone (MIBK)	100.16	**136.56**	0.6	0.0			
t-1,2-dichloropropene	110.97						
Tetrachloroethylene	165.83						
1,1,2-Trichloroethane	133.40						
Dibromochloromethane	208.28						
1,2-Dibromoethane	187.86						
2-Hexanone	100.16						
Ethylbenzene	106.17	**1.49**	0.0	0.0			
Chlorobenzene	112.56						
m/p-Xylene	106.17						
o-Xylene	106.17	**1.00**	0.0	0.0			
Styrene	104.15						
Tribromomethane	252.73	**8.56**	0.1	0.0			
1,1,2,2-Tetrachloroethane	167.85				**3.46**	0.0	0.0
1-Ethyl-4-Methylbenzene	120.19						
1,3,5-Trimethylbenzene	120.19						
1,2,4-Trimethylbenzene	120.19	**0.87**	0.0	0.0			
1,3-Dichlorobenzene	147.01						
1,4-Dichlorobenzene	147.01						
Benzyl Chloride	126.59						
1,2-Dichlorobenzene	147.01						
1,1,2,3,4,4-hexachloro-1,2-butadiene	260.76						
1,2,4-Trichlorobenzene	181.45						
	Total lbs/day			0.01			0.01

Calculated values

Conversion from ppvb to mg/m3: mg/m3 = (ppbv/1000)(MW)/24.45

mg/m^3	milligrams per cubic meter
lbs/day	pounds per day
cfm	cubic feet per minute
m^3/day	cubic meters per day
ft/sec	feet per second
ppbv	parts per billion by volume

Table 5. Summary of Monitor Well and Recovery Well Construction Details, UNC Airport Road Waste Disposal Area, Univesity of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

	Monitor Well Identification	Date of Installation	Measuring Point Elevation (Top of Casing) (ft msl)	Depth of Surface Casing (ft bls)	Total Drilled Depth (ft bls)	Screened Interval (ft bls)
	MW-1	INA	483.11	NA	28.3	INA
	MW-2	INA	484.30	NA	29	INA
	MW-3	INA	483.34	NA	20	INA
	MW-4	INA	472.18	NA	24.6	INA
	MW-5	INA	454.62	NA	15	INA
	MW-6	4/11/1995	472.55	NA	22	12.0-22.0
*	MW-7	4/21/1995	475.01	22	48	38.0-48.0
*	MW-9	4/21/1995	476.25	NA	43.5	20.0-35.0
*	MW-11	4/18/1995	472.78	NA	36	26.0-36.0
	MW-12	4/13/1995	464.21	NA	22	12.0-22.0
*	MW-13	4/19/1995	467.60	NA	23	13.0-23.0
*	MW-14	8/11/1995	481.67	29	175	165.0-175.0
*	MW-15	7/20/1995	465.04	40	60.5	50.0-60.0
*	MW-16	7/21/1995	467.14	16	82	22.0-42.0
*	MW-17	7/24/1995	478.99	26	71	60.0-70.0
	MW-18	7/19/1995	467.96	NA	16	5.0-15.0
	MW-19	7/19/1995	473.90	NA	10	5.0-10.0
	MW-20	7/27/1995	475.03	NA	25	14.0-24.0
*	MW-21	7/21/1995	463.28	NA	22	11.0-21.0
	MW-22	7/26/1995	460.78	NA	10	5.0-10.0
*	MW-23	8/17/1995	458.92	17	89	78.0-88.0
*	MW-24	1/19/1996	465.32	105	200	175.0-195.0
	MW-25	1/23/1996	458.74	NA	15	5.0-15.0
*	MW-26	2/5/1996	458.79	20	180	75.0-95.0
*	MW-28	1/15/1996	480.40	NA	46	36.0-46.0
*	MW-29	11/14/1996	480.73	55	170	160.0-170.0
*	MW-30	11/12/1996	468.57	NA	40	25.0-40.0
*	MW-31	11/13/1996	468.45	50	90	75.0-90.0
*	MW-32	11/12/1996	462.06	NA	43	28.0-43.0
*	MW-33	11/13/1996	461.46	50	85	70.0-85.0
*	MW-34	7/6/2004	464.65	NA	85	70.0-85.0
*	MW-35	7/6/2004	452.45	NA	75	60.0-75.0
*	MW-36	7/7/2004	466.90	NA	84	69.0-84.0
*	MW-37	7/6/2004	460.29	100	125	115.0-125.0
	MW-38	9/10/2010	484.85	NA	20	10.0-20.0
	MW-39	9/10/2010	478.20	NA	20	10.0-20.0
	SRW-1	4/4/2006	460.98	NA	25	10.0-25.0
	SRW-2	4/13/2006	464.20	NA	35	20.0-35.0
	SRW-3	4/4/2006	462.76	NA	35	20.0-35.0
*	DRW-1	4/2/1998	466.11	20	80	Open Borehole
*	DRW-2	4/7/2006	461.90	20	80	Open Borehole
*	DRW-3	4/7/2006	459.20	20	150	Open Borehole
	VER-1	4/4/2006	483.08	NA	25	5.0-25.0
	VER-2	3/26/1998	482.20	NA	25	5.0-25.0
	VER-3	4/4/2006	480.11	NA	25	5.0-25.0
	VER-4	4/4/2006	478.83	NA	25	5.0-25.0

* Bedrock wells - This designation indicates that the entire screened interval or open borehole interval is in bedrock.
ft msl Feet above mean sea level.
NA Not Applicable.
ft bls Feet below land surface.
INA Information not available.
Note: Monitor Wells MW-8, MW-10, and MW-27 were not installed.

Table 6. Water Level Elevations in Monitor Wells and Recovery Wells, November 2, 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Monitor Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft toc)	Groundwater Elevation (ft msl)
MW-1	483.11	16.40	466.71
MW-2	484.30	18.71	465.59
MW-3	483.34	4.53	478.81
MW-4	472.18	19.08	453.10
MW-5	454.62	5.18	449.44
MW-6	472.55	18.35	454.20
*MW-7	475.01	23.33	451.68
*MW-9	476.25	15.58	460.67
*MW-11	472.78	34.40	438.38
MW-12	464.21	14.02	450.19
*MW-13	467.60	15.52	452.08
*MW-14	481.67	27.26	454.41
*MW-15	465.04	22.95	442.09
*MW-16	467.14	5.85	461.29
*MW-17	478.99	16.22	462.77
MW-18	467.96	4.13	463.83
MW-19	473.90	4.21	469.69
MW-20	475.03	Dry	--
*MW-21	463.28	12.21	451.07
MW-22	460.78	4.71	456.07
*MW-23	458.92	11.56	447.36
*MW-24	465.32	17.53	447.79
MW-25	458.74	11.33	447.41
*MW-26	458.79	26.60	432.19
*MW-28	480.4	6.83	473.57
*MW-29	480.73	14.46	466.27
*MW-30	468.57	32.54	436.03
*MW-31	468.45	33.06	435.39
*MW-32	462.06	23.34	438.72
*MW-33	461.46	27.07	434.39
*MW-34	464.65	24.63	440.02
*MW-35	452.45	68.60	383.85
*MW-36	466.90	20.99	445.91
*MW-37	460.29	22.19	438.10
MW-38	484.85	16.16	468.69
MW-39	478.20	3.86	474.34
VER-1	483.08	14.39	468.69
VER-2	482.20	21.15	461.05
VER-3	480.11	23.53	456.58
VER-4	478.83	4.11	474.72
SRW-1	460.98	Dry	--
SRW-2	464.20	26.43	437.77
SRW-3	462.76	22.52	440.24
*DRW-1	466.11	19.53	446.58
*DRW-2	461.90	46.43	415.47
*DRW-3	459.20	34.54	424.66

ft toc Feet below top of casing.
ft msl Feet above mean sea level.
* Bedrock Wells - This designation indicates that the entire screened interval or open borehole interval is in bedrock.
Dry Well dry at time of gauging
NA Not available.
NM Not measured.

Table 7. Historical Groundwater Elevation Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Date Measured:		1/10/07		4/16/07		7/11/07		10/1/07		10/20/08		11/2/09		11/2/10	
Monitor Well ID	TOC (ft msl)	Depth to WL (ft toc)	GW Elevation (ft msl)	Depth to WL (ft toc)	GW Elevation (ft msl)	Depth to WL (ft toc)	GW Elevation (ft msl)	Depth to WL (ft toc)	GW Elevation (ft msl)	Depth to WL (ft toc)	GW Elevation (ft msl)	Depth to WL (ft toc)	GW Elevation (ft msl)	Depth to WL (ft toc)	GW Elevation (ft msl)
MW-1	483.11	20.17	462.94	19.08	464.03	19.57	463.54	21.20	461.91	18.79	464.32	18.20	464.91	16.40	466.71
MW-2	484.30	21.10	463.20	20.60	463.70	21.58	462.72	24.24	460.06	20.25	464.05	20.35	463.95	18.71	465.59
MW-3	483.34	3.37	479.97	3.79	479.55	8.22	475.12	12.42	470.92	6.01	477.33	4.16	479.18	4.53	478.81
MW-4	472.18	11.58	460.6	9.88	462.3	15.29	456.89	20.21	451.97	14.88	457.30	18.27	453.91	19.08	453.10
MW-5	454.62	1.84	452.78	1.71	452.91	14.83	439.79	Dry	<439.62	6.50	448.12	5.40	449.22	5.18	449.44
MW-6	472.55	9.04	463.51	10.34	462.21	14.55	458.00	18.03	454.52	14.74	457.81	18.02	454.53	18.35	454.20
*MW-7	475.01	13.41	461.6	19.40	455.61	22.93	452.08	24.50	450.51	21.80	453.21	23.34	451.67	23.33	451.68
*MW-9	476.25	10.97	465.28	11.24	465.01	12.60	463.65	16.95	459.30	13.38	462.87	15.25	461.00	15.58	460.67
*MW-11	472.78	32.94	439.84	33.38	439.4	34.96	437.82	35.60	437.18	34.01	438.77	34.88	437.90	34.40	438.38
MW-12	464.21	9.74	454.47	14.45	449.76	18.62	445.59	24.43	439.78	12.65	451.56	12.20	452.01	14.02	450.19
*MW-13	467.60	9.18	458.42	9.08	458.52	22.95	444.65	Dry	<444.60	19.10	448.50	8.20	459.40	15.52	452.08
*MW-14	481.67	23.60	458.07	27.06	454.61	29.02	452.65	30.38	451.29	27.18	454.49	28.62	453.05	27.26	454.41
*MW-15	465.04	10.95	454.09	20.33	444.71	23.37	441.67	23.41	441.63	21.13	443.91	22.90	442.14	22.95	442.09
*MW-16	467.14	4.72	462.42	4.93	462.21	7.09	460.05	8.69	458.45	6.40	460.74	7.12	460.02	5.85	461.29
*MW-17	478.99	15.52	463.47	17.54	461.45	19.28	459.71	20.88	458.11	17.06	461.93	18.47	460.52	16.22	462.77
MW-18	467.96	2.90	465.06	2.95	465.01	4.80	463.16	6.41	461.55	4.37	463.59	4.79	463.17	4.13	463.83
MW-19	473.90	NM	NM	NM	NM	4.74	469.16	6.97	466.93	3.84	470.06	4.63	469.27	4.21	469.69
MW-20	475.03	16.36	458.67	10.44	464.59	18.85	456.18	Dry	<450.03	20.30	454.73	Dry	--	Dry	--
*MW-21	463.28	8.31	454.97	8.23	455.05	13.84	449.44	16.86	446.42	11.30	451.98	16.00	447.28	12.21	451.07
MW-22	460.78	3.47	457.31	3.23	457.55	7.60	453.18	10.32	450.46	5.06	455.72	5.18	455.60	4.71	456.07
*MW-23	458.92	13.32	445.60	13.33	445.59	12.61	446.31	24.34	434.58	13.39	445.53	17.99	440.93	11.56	447.36
*MW-24	465.32	9.62	455.70	12.29	453.03	13.65	451.67	14.85	450.47	10.62	454.70	13.37	451.95	17.53	447.79
MW-25	458.74	4.32	454.42	3.31	455.43	11.69	447.05	Dry	<443.74	11.22	447.52	10.10	448.64	11.33	447.41
*MW-26	458.79	27.55	431.24	37.63	421.16	48.86	409.93	53.78	405.01	21.66	437.13	28.04	430.75	26.60	432.19
*MW-28	480.40	4.88	475.52	4.67	475.73	7.69	472.71	10.57	469.83	6.48	473.92	6.30	474.10	6.83	473.57
*MW-29	480.73	13.57	467.16	12.80	467.93	15.15	465.58	18.92	461.81	14.23	466.50	15.01	465.72	14.46	466.27
*MW-30	468.57	32.18	436.39	30.45	438.12	32.11	436.46	35.84	432.73	30.33	438.24	32.50	436.07	32.54	436.03
*MW-31	468.45	35.63	432.82	35.13	433.32	38.46	429.99	41.31	427.14	34.19	434.26	34.58	433.87	33.06	435.39
*MW-32	462.06	18.12	443.94	15.81	446.25	22.61	439.45	28.59	433.47	21.19	440.87	24.97	437.09	23.34	438.72
*MW-33	461.46	24.39	437.07	23.18	438.28	27.35	434.11	30.01	431.45	26.60	434.86	27.98	433.48	27.07	434.39
*MW-34	464.65	19.49	445.16	17.61	447.04	22.91	441.74	28.35	436.30	22.41	442.24	26.21	438.44	24.63	440.02
*MW-35	452.45	58.12	394.33	55.78	396.67	53.97	398.48	52.42	400.03	56.67	395.78	65.76	386.69	68.60	383.85
*MW-36	466.90	17.69	449.21	16.28	450.62	20.44	446.46	23.66	443.24	20.40	446.50	20.86	446.04	20.99	445.91
*MW-37	460.29	18.95	441.34	17.26	443.03	21.61	438.68	31.14	429.15	21.07	439.22	24.07	436.22	22.19	438.10
MW-38	484.85	--	--	--	--	--	--	--	--	--	--	--	--	16.16	468.69
MW-39	478.20	--	--	--	--	--	--	--	--	--	--	--	--	3.86	474.34
VER-1	483.08	NM	--	NM	--	NM	--	NM	--	NM	--	8.48	474.60	14.39	468.69
VER-2	482.20	NM	--	NM	--	NM	--	NM	--	NM	--	17.64	464.56	21.15	461.05
VER-3	480.11	NM	--	NM	--	NM	--	NM	--	NM	--	15.67	464.44	23.53	456.58
VER-4	478.83	NM	--	NM	--	NM	--	NM	--	NM	--	6.80	472.03	4.11	474.72
SRW-1	460.98	NM	--	NM	--	NM	--	NM	--	NM	--	13.55	447.43	Dry	--
SRW-2	464.20	NM	--	NM	--	NM	--	NM	--	NM	--	25.70	438.50	26.43	437.77
SRW-3	462.76	NM	--	NM	--	NM	--	NM	--	NM	--	23.65	439.11	22.52	440.24
*DRW-1	466.11	NM	--	NM	--	NM	--	NM	--	NM	--	21.00	445.11	19.53	446.58
*DRW-2	461.90	NM	--	NM	--	NM	--	NM	--	NM	--	44.30	417.60	46.43	415.47
*DRW-3	459.20	NM	--	NM	--	NM	--	NM	--	NM	--	35.20	424.00	34.54	424.66

TOC Top of Casing
WL Water Level
GW Groundwater
NM Not measured.
ft toc Feet below top of casing.
ft msl Feet above mean sea level.
* Bedrock Wells - This designation indicates that the entire screened interval or open borehole interval is in bedrock.
Dry Well dry at time of gauging

Table 8. Groundwater Sampling Data for Samples Collected from Monitor Wells and Recovery Wells in November 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Well No.	Date Sampled	Gallons per Well Volume	Gallons Purged	Temperature (Degrees Celsius)	pH (Standard Units)	Specific Conductance (µmhos/cm)	Sampling Method
MW-1	11/4/2010	1.9	5.7	16.74	6.82	1,967	Peristaltic Pump
MW-2	11/4/2010	1.6	5.0	16.50	6.55	1,970	Peristaltic Pump
MW-3	11/4/2010	2.5	7.4	18.62	6.11	742	Bailer
MW-4	11/2/2010	0.9	2.7	15.55	5.38	320	Bailer
MW-5	11/2/2010	1.6	4.8	16.75	5.63	163	Bailer
MW-6	11/3/2010	0.6	1.8	15.49	5.30	289	Peristaltic Pump
MW-7	11/3/2010	4.3	12.9	15.46	6.95	1,001	Bailer
MW-9	11/3/2010	3.1	9.3	15.05	5.95	423	Bailer
MW-11	11/3/2010	0.3	0.8	14.60	6.50	465	Bailer
MW-12	11/4/2010	1.0	3.0	16.57	5.64	249	Bailer
MW-14	11/5/2010	24.0	72.0	16.32	7.15	668	Submersible Pump
MW-15	11/4/2010	6.0	18.0	15.15	6.70	989	Submersible Pump
MW-16	11/5/2010	5.8	17.4	16.35	6.77	800	Submersible Pump
MW-17	11/5/2010	8.6	26.0	15.92	6.24	2,013	Submersible Pump
MW-22	11/4/2010	0.9	2.5	17.23	6.80	1,078	Bailer
MW-23	11/5/2010	11.5	36.7	15.30	7.40	361	Submersible Pump
MW-25	11/3/2010	0.6	1.8	15.87	5.76	196	Bailer
MW-26	11/3/2010	10.9	32.8	15.12	7.26	465	Submersible Pump
MW-28	11/4/2010	6.2	18.6	18.36	7.12	556	Submersible Pump
MW-30	11/2/2010	1.2	3.6	14.35	7.30	469	Bailer
MW-31	11/2/2010	9.1	27.4	14.93	6.80	368	Submersible Pump
MW-32	11/2/2010	3.2	9.6	15.41	6.72	309	Submersible Pump
MW-33	11/2/2010	9.3	27.9	15.37	7.88	412	Submersible Pump
MW-35	11/2/2010	1.0	3.0	14.23	7.23	1,200	Bailer
MW-36	11/2/2010	10.0	30.0	15.79	7.12	450	Submersible Pump
SRW-1	11/3/2010	NA	NA	16.15	6.78	786	Sample Port
SRW-2	11/3/2010	NA	NA	16.97	6.74	967	Sample Port
SRW-3	11/3/2010	NA	NA	17.40	6.73	453	Sample Port
DRW-1	11/3/2010	NA	NA	15.76	6.65	947	Sample Port
DRW-2	11/3/2010	NA	NA	15.66	7.06	461	Sample Port
DRW-3	11/3/2010	NA	NA	15.53	6.92	446	Sample Port
VER-1	11/5/2010	NA	NA	16.90	6.50	1425	Peristaltic Pump
VER-2	11/5/2010	NA	NA	16.30	6.24	2507	Peristaltic Pump
VER-3	11/5/2010	NA	NA	16.03	5.64	1053	Peristaltic Pump
VER-4	11/5/2010	NA	NA	16.10	7.58	296	Peristaltic Pump

Notes:

µmhos/cm	micromhos per centimeter.
mV	millivolts
NM	not measured
NA	Not applicable as active recovery well

Table 9. Summary of Analytical Results for Groundwater Samples Collected in November 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sample	MW-1 11/4/2010	DUP-1 (MW-1) 11/4/2010	MW-2 11/4/2010	MW-3 11/4/2010	MW-4 11/2/2010	MW-5 11/2/2010	MW-6 11/3/2010	MW-7 11/3/2010	MW-9 11/3/2010	MW-11 11/3/2010	MW-12 11/4/2010	MW-14 11/5/2010
Volatile Organics (USEPA Method 8260) µg/L	NCAC 2L GW Standard												
Acetone	6000	2,500 U	2,500 U	5,000 U	25 U	25 U	25 U	1,300 U	1,300 U	25 U	25 U	25 U	500 U
Benzene	1	**1,000**	**990**	**5,900**	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	**36**
Chlorobenzene	50	100 U	100 U	**220**	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Chloroform	70	**3,400**	**3,500**	**800**	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Chloromethane	3	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
1,4-Dichlorobenzene	6	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
1,1-Dichloroethane	6	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
1,2-Dichloroethane	0.4	**360**	**340**	**970**	1 U	1 U	1 U	50 U	50 U	1 U	**3**	1 U	20 U
cis-1,2-Dichloroethene	70	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
trans-1,2-Dichloroethene	100	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Diethyl ether	7300*	**5,200**	**4,900**	**13,000**	10 U	10 U	10 U	**2,400**	**3,300**	**65**	**100** D	10 U	**650**
Ethylbenzene	600	100 U	100 U	**340**	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Methyl tert-butyl ether	20	1,000 U	1,000 U	2,000 U	10 U	10 U	10 U	500 U	500 U	10 U	10 U	10 U	200 U
Methylene Chloride	5	500 U	500 U	1,000 U	5 U	5 U	5 U	250 U	250 U	5 U	5 U	5 U	100 U
1,1,2,2-Tetrachloroethane	0.2	**390**	**380**	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Tetrachloroethene	0.7	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Toluene	600	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Trichloroethene	3	**140**	**140**	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Trichlorofluoromethane	2000	100 U	100 U *	200 U *	1 U *	1 U	1 U	50 U	50 U	1 U	1 U	1 U *	20 U *
Vinyl chloride	0.03	100 U	100 U	200 U	1 U	1 U	1 U	50 U	50 U	1 U	1 U	1 U	20 U
Xylenes, Total	500	200 U	200 U	**920**	2 U	2 U	2 U	100 U	100 U	2 U	2 U	2 U	40 U

NCAC 2L	North Carolina Administrative Code 2L Groundwater Standard
ug/L	Micrograms per liter.
U	Constituent was not detected above the reporting limit.
D	Constituent concentration was quantitated using a secondary dilution.
*	USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
	Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 9. Summary of Analytical Results for Groundwater Samples Collected in November 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sample	NCAC 2L GW Standard	MW-15 11/4/2010	MW-16 11/5/2010	MW-17 11/5/2010	MW-22 11/4/2010	MW-23 11/5/2010	MW-25 11/3/2010	MW-26 11/3/2010	MW-28 11/4/2010	MW-30 11/2/2010	MW-31 11/2/2010	MW-32 11/2/2010	MW-33 11/2/2010
Volatile Organics (USEPA Method 8260) µg/L														
Acetone		6000	2,500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene		1	100 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene		50	100 U	1 U	**2**	**3.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		70	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		3	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene		6	100 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane		6	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane		0.4	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene		70	100 U	1 U	**6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene		100	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl ether		7300*	**3,000**	10 U	**46**	10 U	10 U	10 U	10 U	10 U	10 U	**10**	10 U	10 U
Ethylbenzene		600	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether		20	1,000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		5	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		0.2	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene		0.7	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		600	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene		3	100 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane		2000	100 U *	1 U *	1 U *	1 U *	1 U *	1 U	1 U	1 U *	1 U	1 U	1 U	1 U
Vinyl chloride		0.03	100 U	1 U	**7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total		500	200 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NCAC 2L	North Carolina Administrative Code 2L Groundwater Standard
ug/L	Micrograms per liter.
U	Constituent was not detected above the reporting limit.
D	Constituent concentration was quantitated using a secondary dilution.
*	USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
	Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 9. Summary of Analytical Results for Groundwater Samples Collected in November 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: MW-35 Date Sample 11/2/2010	MW-36 11/2/2010	VER-1 11/5/2010	VER-2 11/5/2010	VER-3 11/5/2010	VER-4 11/5/2010	SRW-1 11/3/2010	SRW-2 11/3/2010	SRW-3 11/3/2010	DRW-1 11/3/2010	DRW-2 11/3/2010	DRW-3 11/3/2010
Volatile Organics (USEPA Method 8260) µg/L	NCAC 2L GW Standard											
Acetone	6000	25 U	25 U	630 U	25,000 U	6,300 U	25 U	25 U	500 U	250 U	2,500 U	25 U	25 U
Benzene	1	1 U	1 U	**460**	**14,000**	**510**	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	**54**	1,000 U	250 U	1 U	**6.5**	20 U	10 U	100 U	1 U	1 U
Chloroform	70	1 U	1 U	25 U	**21,000**	**250**	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Chloromethane	3	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	25 U	1,000 U	250 U	1 U	**1.5**	20 U	10 U	100 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	**150**	**1,700**	250 U	1 U	1 U	**45**	10 U	100 U	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Diethyl ether	7300*	10 U	10 U	**2,400**	**43,000**	**10,000**	10 U	**50**	**1,000**	**440**	**3,900**	**40**	10 U
Ethylbenzene	600	1 U	1 U	**35**	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Methyl tert-butyl ether	20	10 U	**61**	250 U	10,000 U	2,500 U	10 U	10 U	200 U	100 U	1,000 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	130 U	**12,000**	1,300 U	5 U	5 U	100 U	50 U	500 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Toluene	600	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Trichloroethene	3	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Trichlorofluoromethane	2000	1 U	1 U	25 U	1,000 U	250 U *	1 U *	1 U	20 U	10 U	100 U	1 U	1 U
Vinyl chloride	0.03	1 U	1 U	25 U	1,000 U	250 U	1 U	1 U	20 U	10 U	100 U	1 U	1 U
Xylenes, Total	500	2 U	2 U	50 U	2,000 U	500 U	2 U	2 U	40 U	20 U	200 U	2 U	2 U

NCAC 2L	North Carolina Administrative Code 2L Groundwater Standard
ug/L	Micrograms per liter.
U	Constituent was not detected above the reporting limit.
D	Constituent concentration was quantitated using a secondary dilution.
*	USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
	Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-1 07/22/04	MW-1 01/11/07	MW-1 04/18/07	MW-1 07/11/07	MW-1 10/03/07	MW-1 10/22/08	MW-1 11/05/09	MW-1 11/4/10	MW-2 07/21/04	MW-2 01/11/07	MW-2 04/18/07	MW-2 07/11/07	MW-2 10/03/07	MW-2 10/22/08	MW-2 11/04/09	MW-2 11/4/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard																
Acetone	6,000	**260,000**	**20,000**	50,000 U	10,000 U	5,000 U	25,000 U	25,000 U	2500 U	50,000 U	**39,000**	50,000 U	**98,000**	**60,000**	25,000 U	25,000 U	5000 U
Benzene	1	**100,000**	**27,000 D**	**26,000**	**19,000**	**31,000**	**25,000**	**14,000**	**1000**	**25,000**	**27,000 D**	**23,000**	**28,000**	**32,000**	**16,000**	**15,000**	**5900**
Chlorobenzene	50	1,000 U	**330**	2,000 U	400 U	**560**	1,000 U	1,000 U	100 U	2,000 U	**380**	2,000 U	1,000 U	**630**	1,000 U	1,000 U	**220**
Chloroform	70	**190,000**	**55,000 D**	**49,000**	**37,000**	**51,000 D**	**28,000**	**28,000**	**3400**	**130,000**	**120,000 D**	**94,000**	**110,000**	**110,000 D**	**47,000**	**49,000**	**800**
1,4-Dichlorobenzene	6	1,000 U	100 U	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	2,000 U	100 U	2,000 U	1,000 U	500 U	1,000 U	1,000 U	200 U
1,1-Dichloroethane	6	1,000 U	100 U	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	2,000 U	100 U	2,000 U	1,000 U	500 U	1,000 U	1,000 U	200 U
1,2-Dichloroethane	0.4	**9,900**	100 U	2,000 U	**1,800**	200 U	1,000 U	**1,400**	**360**	2,000 U	**4,900**	**4,700**	**4,300**	**5,700**	1,000 U	**2,700**	**970**
Cis-1,2-Dichloroethene	70	1000 U[1]	100 U	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	4,000 U[1]	100 U	2,000 U	1,000 U	500 U	1,000 U	1,000 U	200 U
Trans-1,2-Dichloroethene	100	NA	100 U	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	NA	100 U	2,000 U	1,000 U	500 U	1,000 U	1,000 U	200 U
Diethyl ether	7,300*	**290,000**	**85,000 D**	**110,000**	**40,000**	**53,000 D**	**39,000**	**44,000**	**5,200**	**130,000**	**96,000 D**	**130,000**	**72,000**	**64,000 D**	**42,000**	**54,000**	**13000**
Ethylbenzene	600	**140,000**	**2,600**	2,000 U	**1,100**	**1,700**	1,000 U	1,000 U	100 U	**58,000**	**2,400**	2,000 U	**2,400**	**3,400**	**1,100**	1,000 U	**340**
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	10,000 U	1,000 U	1000 U	NA	NA	NA	NA	NA	10,000 U	10,000 U	2000 U
Methylene chloride	5	**8,000**	**36,000 D**	**41,000**	**29,000**	**27,000**	**18,000**	**19,000**	500 U	2,000 U	**48,000 D**	**52,000**	**55,000**	**39,000**	**19,000**	**37,000**	1000 U
1,1,2,2-Tetrachloroethane	0.2	1,000 U	**4,300**	**3,600**	**3,300**	**3,400**	1,000 U	1,000 U	**390**	2,000 U	**190**	2,000 U	1,000 U	500 U	1,000 U	1,000 U	200 U
Tetrachloroethene	0.7	1,000 U	**140**	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	2,000 U	100 U	2,000 U	1,000 U	500 U	1,000 U	1,000 U	200 U
Toluene	600	1,000 U	100 U	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	2,000 U	**2,600**	2,000 U	**4,800**	**6,400**	1,000 U	1,000 U	200 U
Trichloroethene	3	**14,000**	**5,300**	**3,700**	**2,900**	**3,200**	**1,200**	1,000 U	**140**	2,000 U	**490**	2,000 U	1,000 U	**630**	1,000 U	1,000 U	200 U
Trichlorflouromethane	2,000	1,000 U	100 U	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	2,000 U	100 U	2,000 U	1,000 U	500 U	**1,900**	1,000 U	200 U
Vinyl chloride	0.03	1,000 U	100 U	2,000 U	400 U	200 U	1,000 U	1,000 U	100 U	2,000 U	100 U	2,000 U	1,000 U	500 U	1,000 U	1,000 U	200 U
Xylenes, Total	500	**2,300**	**1,700**	4,000 U	**1,100**	**2,400**	2,000 U	2,000 U	200 U	4,000 U	**12,000**	**54,000**	**13,000**	**18,000**	**3,900**	**2,200**	**920**

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
ug/L Micrograms per liter.
U Constituent was not detected above the reporting limit.
D Constituent concentration was quantitated using a secondary dilution.
NA Not analyzed.
[1] Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-3 07/21/04	MW-3 01/11/07	MW-3 04/18/07	MW-3 07/11/07	MW-3 10/03/07	MW-3 10/22/08	MW-3 11/04/09	MW-3 11/4/10	MW-4 07/20/04	MW-4 10/01/07	MW-4 10/20/08	MW-4 11/03/09	MW-4 11/2/2010	MW-5 11/03/09	MW-5 11/2/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard															
Acetone	6,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	70	2.0 U[1]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.0 U[1]	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	**16 U**	2 U	10 U	10 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	600	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorflouromethane	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.03	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
ug/L Micrograms per liter.
U Constituent was not detected above the reporting limit.
D Constituent concentration was quantitated using a secondary dilution.
NA Not analyzed.
[1] Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-6 07/21/04	MW-6 02/06/07	MW-6 04/18/07	MW-6 07/12/07	MW-6 10/02/07	MW-6 10/21/08	MW-6 11/04/09	MW-6 11/3/10	MW-7 07/21/04	MW-7 01/11/07	MW-7 04/18/07	MW-7 07/12/07	MW-7 10/02/07	MW-7 10/21/08	MW-7 11/04/09	MW-7 11/3/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard																
Acetone	6,000	1,200 U	500 U	2,500 U	2,500 U	130 U	1,200 U	25 U	1300 U	5 U	250 U	6,300 U	2,500 U	25 U	1,200 U	2,500 U	1300 U
Benzene	1	**910**	**920**	**690**	**960**	**790**	**170**	**200**	50 U	**2.7 U**	10 U	250 U	100 U	**2.5**	50 U	100 U	50 U
Chlorobenzene	50	50 U	20 U	100 U	100 U	5 U	50 U	**1**	50 U	**8.3**	**14**	250 U	100 U	**5.6**	50 U	100 U	50 U
Chloroform	70	**470**	**510**	**370**	**250**	**20**	50 U	**39**	50 U	**6.9 U**	10 U	250 U	100 U	**1.2**	50 U	100 U	50 U
1,4-Dichlorobenzene	6	50 U	20 U	100 U	100 U	5 U	50 U	1 U	50 U	1 U	10 U	250 U	100 U	1 U	50 U	100 U	50 U
1,1-Dichloroethane	6	50 U	20 U	100 U	100 U	5 U	50 U	1 U	50 U	1 U	10 U	250 U	100 U	1 U	50 U	100 U	50 U
1,2-Dichloroethane	0.4	50 U	**42**	100 U	100 U	5 U	50 U	**18**	50 U	**49**	**52**	250 U	100 U	**38**	50 U	100 U	50 U
Cis-1,2-Dichloroethene	70	200 U[1]	20 U	100 U	100 U	**13**	50 U	**1.8**	50 U	2.0 U[1]	10 U	250 U	100 U	**7.9**	50 U	100 U	50 U
Trans-1,2-Dichloroethene	100	NA	20 U	100 U	100 U	**12**	50 U	**3.3**	50 U	NA	10 U	250 U	100 U	**12**	50 U	100 U	50 U
Diethyl ether	7,300*	**12,000**	**10,000 D**	**20,000 D**	**8,400**	**20,000 D**	**2,700**	**4,700 D**	**2,400**	**2,300**	**3,400 D**	**19,000**	**8,200**	**10,000 D**	**3,300**	**4,300**	**3,300**
Ethylbenzene	600	**390**	20 U	100 U	100 U	5 U	50 U	1 U	50 U	5 U	10 U	250 U	100 U	1 U	50 U	100 U	50 U
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	500 U	10 U	500 U	NA	NA	NA	NA	NA	500 U	1,000 U	500 U
Methylene chloride	5	50 U	**490**	500 U	500 U	25 U	250 U	**25**	250 U	1 U	50 U	1,300 U	500 U	5 U	250 U	500 U	250 U
1,1,2,2-Tetrachloroethane	0.2	50 U	20 U	100 U	100 U	5 U	50 U	1 U	50 U	1 U	10 U	250 U	100 U	1 U	50 U	100 U	50 U
Tetrachloroethene	0.7	50 U	20 U	100 U	100 U	5 U	50 U	1 U	50 U	1 U	10 U	250 U	100 U	1 U	50 U	100 U	50 U
Toluene	600	50 U	20 U	100 U	100 U	5 U	50 U	1 U	50 U	1 U	10 U	250 U	100 U	1 U	50 U	100 U	50 U
Trichloroethene	3	**28 J**	**25**	100 U	100 U	**18**	50 U	**6.5**	50 U	**4.2**	10 U	250 U	100 U	**18**	50 U	100 U	50 U
Trichlorflouromethane	2,000	50 U	20 U	100 U	100 U	5 U	50 U	**1.3**	50 U	1 U	10 U	250 U	100 U	1 U	50 U	100 U	50 U
Vinyl chloride	0.03	50 U	20 U	100 U	100 U	5 U	50 U	1 U	50 U	**5.5**	10 U	250 U	100 U	**5.9**	50 U	100 U	50 U
Xylenes, Total	500	100 U	40 U	200 U	200 U	10 U	100 U	2 U	100 U	2 U	20 U	500 U	200 U	2 U	100 U	200 U	100 U

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
ug/L Micrograms per liter.
U Constituent was not detected above the reporting limit.
D Constituent concentration was quantitated using a secondary dilution.
NA Not analyzed.
[1] Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-9 07/22/04	MW-9 10/03/07	MW-9 10/21/08	MW-9 11/04/09	MW-9 11/03/10	MW-11 07/22/04	MW-11 01/11/07	MW-11 04/17/07	MW-11 07/12/07	MW-11 10/03/07	MW-11 10/21/08	MW-11 11/02/09	MW-11 11/05/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard													
Acetone	6,000	25 U	25 U	50 U	25 U	25 U	1,200 U	130 U	630 U	250 U	25 U	250 U	25 U	25 U
Benzene	1	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	1 U	10 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	**2.8**	10 U	**1.5**	1 U
Chloroform	70	1 U	1 U	2 U	1 U	1 U	50 U	**5.1**	25 U	10 U	**4.8**	10 U	**1.9**	1 U
1,4-Dichlorobenzene	6	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	1 U	10 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	1 U	10 U	1 U	1 U
1,2-Dichloroethane	0.4	**1.2**	1 U	2 U	1 U	1 U	**56**	**26**	25 U	**10**	**17**	10 U	**8.3**	**3.0**
Cis-1,2-Dichloroethene	70	2.0 U[1]	1 U	2 U	1 U	1 U	100 U[1]	5 U	25 U	10 U	**1.1**	10 U	1 U	1 U
Trans-1,2-Dichloroethene	100	NA	1 U	2 U	1 U	1 U	NA	5 U	25 U	10 U	1 U	10 U	1 U	1 U
Diethyl ether	7,300*	**140**	**110 D**	**110**	**95 D**	**65**	**3,100**	**1,300 D**	**1,100**	**420**	**610 D**	**340**	**290 D**	**100**
Ethylbenzene	600	5 U	1 U	2 U	1 U	1 U	250 U	5 U	25 U	10 U	1 U	10 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	20 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Methylene chloride	5	1 U	5 U	10 U	5 U	5 U	50 U	25 U	130 U	50 U	5 U	50 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	1 U	10 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	1 U	10 U	1 U	1 U
Toluene	600	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	1 U	10 U	1 U	1 U
Trichloroethene	3	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	**4.0**	10 U	**1.9**	1 U
Trichlorflouromethane	2,000	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	1 U	10 U	**1.3**	1 U
Vinyl chloride	0.03	1 U	1 U	2 U	1 U	1 U	50 U	5 U	25 U	10 U	**2.2**	10 U	**1.4**	1 U
Xylenes, Total	500	2 U	2 U	4 U	2 U	2 U	100 U	10 U	50 U	20 U	2 U	20 U	2 U	2 U

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
ug/L Micrograms per liter.
U Constituent was not detected above the reporting limit.
D Constituent concentration was quantitated using a secondary dilution.
NA Not analyzed.
[1] Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-12 07/21/04	MW-12 01/11/07	MW-12 04/18/07	MW-12 07/11/07	MW-12 10/02/07	MW-12 10/21/08	MW-12 11/03/09	MW-12 11/04/10	MW-13 07/21/04	MW-13 01/10/07	MW-13 04/17/07	MW-13 07/12/07
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard												
Acetone	6,000	500 U	130 U	130 U	25 U	25 U	25 U	25 U	25 U	120 U	25 U	130 U	500 U
Benzene	1	**470**	5 U	5 U	1 U	**1.5**	1 U	1 U	1 U	**22**	**16**	**6.8**	20 U
Chlorobenzene	50	**23**	5 U	5 U	1 U	1 U	1 U	1 U	1 U	**8.2**	1 U	5 U	20 U
Chloroform	70	**21**	5 U	5 U	1 U	**3.4**	1 U	1 U	1 U	5 U	**1.9**	5 U	20 U
1,4-Dichlorobenzene	6	20 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	5 U	20 U
1,1-Dichloroethane	6	20 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	5 U	20 U
1,2-Dichloroethane	0.4	**360**	**19**	5 U	**3.6**	**14**	**1.6**	1 U	1 U	**96**	**3.2**	5 U	20 U
Cis-1,2-Dichloroethene	70	40 U[1]	5 U	5 U	1 U	1 U	1 U	1 U	1 U	10 U[1]	1 U	5 U	20 U
Trans-1,2-Dichloroethene	100	NA	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	5 U	20 U
Diethyl ether	7,300*	**13,000**	**720 D**	**300**	**150**	**360 D**	**94**	10 U	10 U	**4,200**	**330 D**	**450**	**990**
Ethylbenzene	600	100 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	25 U	1 U	5 U	20 U
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	NA
Methylene chloride	5	20 U	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	100 U
1,1,2,2-Tetrachloroethane	0.2	20 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	5 U	20 U
Tetrachloroethene	0.7	20 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	5 U	20 U
Toluene	600	20 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	5 U	20 U
Trichloroethene	3	**35**	5 U	5 U	**3.1**	**4.4**	1 U	1 U	1 U	5 U	**1.1**	5 U	20 U
Trichlorflouromethane	2,000	20 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	5 U	20 U
Vinyl chloride	0.03	20 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	5 U	20 U
Xylenes, Total	500	40 U	10 U	10 U	2 U	2 U	2 U	2 U	2 U	10 U	2 U	10 U	40 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-14 07/21/04	MW-14 01/11/07	MW-14 04/18/07	MW-14 07/11/07	MW-14 10/03/07	MW-14 10/22/08	MW-14 11/05/09	MW-14 11/05/10	MW-15 07/21/04	MW-15 01/11/07	MW-15 04/18/07	MW-15 07/11/07	MW-15 10/02/07	MW-15 10/21/08	MW-15 11/05/09	MW-15 11/04/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard																
Acetone	6,000	**170**	130 U	2,500 U	1,300 U	1,300 U	500 U	500 U	500 U	**1,600**	250 U	5,000 U	2,500 U	25 U	2,500 U	2,500 U	2,500 U
Benzene	1	**190**	**190**	**230**	**260**	**210**	**59**	**54**	**36**	**930**	10 U	200 U	**150**	**130**	100 U	100 U	100 U
Chlorobenzene	50	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	**15**	100 U	100 U	100 U
Chloroform	70	**53**	**46**	100 U	50 U	50 U	20 U	20 U	20 U	**180**	10 U	200 U	100 U	**1.6**	100 U	100 U	100 U
1,4-Dichlorobenzene	6	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	1 U	100 U	100 U	100 U
1,1-Dichloroethane	6	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	**1.7**	100 U	100 U	100 U
1,2-Dichloroethane	0.4	**50**	**42**	100 U	50 U	50 U	20 U	**27**	20 U	**380**	**190**	200 U	**110**	**120**	100 U	150	100 U
Cis-1,2-Dichloroethene	70	40 U[1]	5 U	100 U	50 U	50 U	20 U	20 U	20 U	100 U[1]	10 U	200 U	100 U	**2.8**	100 U	100 U	100 U
Trans-1,2-Dichloroethene	100	NA	5 U	100 U	50 U	50 U	20 U	20 U	20 U	NA	10 U	200 U	100 U	**3.2**	100 U	100 U	100 U
Diethyl ether	7,300*	**1,800**	**3,100**	**5,400**	**2,500**	**1,800**	**800**	**880**	**650**	**14,000**	**9,800 D**	**10,000**	**5,300**	**4,700 D**	**4,200**	**4,400**	**3,000**
Ethylbenzene	600	25 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	250 U	10 U	200 U	100 U	1 U	100 U	100 U	100 U
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	200 U	200 U	200 U	NA	NA	NA	NA	NA	1,000 U	1,000 U	1,000 U
Methylene chloride	5	5 U	25 U	500 U	250 U	250 U	100 U	100 U	100 U	50 U	50 U	1,000 U	500 U	5 U	100 U	500 U	500 U
1,1,2,2-Tetrachloroethane	0.2	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	1 U	100 U	100 U	100 U
Tetrachloroethene	0.7	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	1 U	100 U	100 U	100 U
Toluene	600	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	1 U	100 U	100 U	100 U
Trichloroethene	3	**10**	**9.3**	100 U	50 U	50 U	20 U	20 U	20 U	50 U	**24**	200 U	100 U	**15**	100 U	100 U	100 U
Trichlorflouromethane	2,000	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	1 U	100 U	100 U	100 U
Vinyl chloride	0.03	5 U	5 U	100 U	50 U	50 U	20 U	20 U	20 U	50 U	10 U	200 U	100 U	**2.7**	100 U	100 U	100 U
Xylenes, Total	500	10 U	10 U	200 U	100 U	100 U	40 U	40 U	40 U	100 U	20 U	400 U	200 U	2 U	200 U	200 U	200 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-16 07/22/04	MW-16 10/02/07	MW-16 10/21/08	MW-16 11/05/09	MW-16 11/05/10	MW-17 07/20/04	MW-17 10/02/07	MW-17 10/22/08	MW-17 11/02/09	MW-17 11/05/10	MW-21 07/19/04	MW-21 11/05/09
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard												
Acetone	6,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.2**	**1.3**	**2.0**	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.3**	**1.7**	**2.0**	1 U	1 U
Chloroform	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.6**	**3.3**	**3.0**	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7.3**	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	70	2.0 U[1]	1 U	1 U	1 U	1 U	**22**[1]	**8.8**	**7.3**	**5.9**	**6.0**	2 U[1]	1 U
Trans-1,2-Dichloroethene	100	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA	1 U
Diethyl ether	7,300*	**3.5**	10 U	10 U	10 U	10 U	**110**	**39**	**43**	**37**	**46**	2 U	10 U
Ethylbenzene	600	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	NA	10 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	1 U	1 U	1 U	1 U	**1.3**	**1.3**	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	3	1 U	1 U	1 U	1 U	1 U	**1.3**	**2.5**	**2.0**	**1.5**	**1.0**	1 U	1 U
Trichlorflouromethane	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.03	1 U	1 U	1 U	1 U	1 U	**20**	**5.1**	**5.7**	**4.6**	**7.0**	1 U	1 U
Xylenes, Total	500	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
ug/L Micrograms per liter.
U Constituent was not detected above the reporting limit.
D Constituent concentration was quantitated using a secondary dilution.
NA Not analyzed.
[1] Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-22 07/21/04	MW-22 10/02/07	MW-22 10/21/08	MW-22 11/03/09	MW-22 11/04/10	MW-23 07/20/04	MW-23 10/01/07	MW-23 10/20/08	MW-23 11/02/09	MW-23 11/05/10	MW-24 07/22/04	MW-24 11/03/09	MW-25 07/21/04	MW-25 01/10/07	MW-25 04/17/07	MW-25 07/12/07	MW-25 11/02/09	MW-25 11/03/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard																		
Acetone	6,000	50 U	25 U	25 U	25 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	1	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	**1.1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	5 U	**3.3**	**11**	**4.6**	**3.4**	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	6	5 U	1 U	**2.8**	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	70	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2.0 U[1]	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	5 U	**26**	**12**	10 U	10 U	2 U	10 U	10 U	10 U	10 U	**6**	10 U	**45**	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	600	5 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	NA	10 U	NA	NA	NA	NA	10 U	10 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	3	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorflouromethane	2,000	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.03	10 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-26 07/22/04	MW-26 01/10/07	MW-26 04/17/07	MW-26 07/12/07	MW-26 10/02/07	MW-26 10/23/08	MW-26 11/02/09	MW-26 11/03/10	MW-28 10/02/07	MW-28 10/22/08	MW-28 11/04/09	MW-28 11/04/10	MW-29 07/21/04	MW-29 11/04/09
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard														
Acetone	6,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	70	2.0 U[1]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.0 U[1]	1 U
Trans-1,2-Dichloroethene	100	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
Diethyl ether	7,300*	2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 U	10 U
Ethylbenzene	600	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U
Methylene chloride	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	3	1 U	1 U	1 U	1 U	1 U	**1.1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorflouromethane	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.03	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
ug/L Micrograms per liter.
U Constituent was not detected above the reporting limit.
D Constituent concentration was quantitated using a secondary dilution.
NA Not analyzed.
[1] Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-30 07/20/04	MW-30 01/10/07	MW-30 04/17/07	MW-30 07/11/07	MW-30 10/01/07	MW-30 10/20/08	MW-30 11/03/09	MW-30 11/02/10	MW-31 07/20/04	MW-31 01/10/07	MW-31 04/17/07	MW-31 07/11/07	MW-31 10/01/07	MW-31 10/20/08	MW-31 11/03/09	MW-31 11/02/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard																
Acetone	6,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	250 U	50 U	25 U	25 U	25 U	25 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.3**	1 U	10 U	2 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4.1**	**2.4**	10 U	2 U	1 U	1 U	1 U	1 U
Chloroform	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.1**	**2.5**	10 U	2 U	**1.4**	**1.2**	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**25**	**14**	10 U	**4.5**	**3.7**	**1.6**	1 U	1 U
Cis-1,2-Dichloroethene	70	2.0 U[1]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.0 U[1]	**1.0**	10 U	2 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	10 U	2 U	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2,000**	**640 D**	**400**	**160**	**120 D**	**39**	**14**	**10**
Ethylbenzene	600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	50 U	20 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	1 U	1 U	1 U
Trichloroethene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5.0**	**3.0**	10 U	2 U	**1.3**	**1.3**	1 U	1 U
Trichlorflouromethane	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	2 U	1 U	**1.5**	1 U	1 U
Vinyl chloride	0.03	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5.4**	**2.4**	10 U	2 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	4 U	2 U	2 U	2 U	2 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-32 07/20/04	MW-32 01/10/07	MW-32 04/17/07	MW-32 07/11/07	MW-32 10/01/07	MW-32 10/20/08	MW-32 11/04/09	MW-32 11/02/10	MW-33 07/20/04	MW-33 01/10/07	MW-33 04/17/07	MW-33 07/11/07	MW-33 10/01/07	MW-33 10/20/08	MW-33 11/04/09	MW-33 11/02/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard																
Acetone	6,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	70	2.0 U[1]	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.0 U[1]	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	2 U	**2.4**	10 U	10 U	10 U	10 U	10 U	10 U	**30**	**28**	**16**	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	600	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U	10 U	10 U
Methylene chloride	5	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorflouromethane	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.03	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-35 07/20/04	MW-35 10/01/07	MW-35 10/21/08	MW-35 11/04/09	MW-35 11/02/10	MW-36 07/20/04	MW-36 10/01/07	MW-36 10/20/08	MW-36 11/03/09	MW-36 11/02/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard										
Acetone	6,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethene	70	2.0 U[1]	1 U	1 U	1 U	1 U	2.0 U[1]	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	NA	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	2 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U
Ethylbenzene	600	5 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	10 U	10 U	10 U	NA	NA	**45**	**120**	**61**
Methylene chloride	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorflouromethane	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.03	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	VER-1 05/05/06	VER-1 10/22/08	VER-1 11/03/09	VER-1 11/05/10	VER-2 05/05/06	VER-2 10/22/08	VER-2 11/03/09	VER-2 11/05/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard								
Acetone	6,000	12,000 U	1,200 U	25 U	630 U	50,000 U	50,000 U	2,500 U	25,000 U
Benzene	1	**7,600**	**4,800**	1 U	**460**	**19,000**	**18,000**	**750**	**14,000**
Chlorobenzene	50	1,200 U	50 U	1 U	**54**	5,000 U	2,000 U	100 U	1,000 U
Chloroform	70	**30,000**	**180**	**2**	25 U	**95,000**	**41,000**	**3,700**	**21,000**
1,4-Dichlorobenzene	6	NA	50 U	1 U	25 U	NA	2,000 U	100 U	1,000 U
1,1-Dichloroethane	6	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	100 U	1,000 U
1,2-Dichloroethane	0.4	1,200 U	50 U	1 U	**150**	5,000 U	2,000 U	**250**	**1,700**
Cis-1,2-Dichloroethene	70	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	100 U	1,000 U
Trans-1,2-Dichloroethene	100	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	100 U	1,000 U
Diethyl ether	7,300*	**29,000**	**1,800**	10 U	**2,400**	**110,000**	**77,000**	**3,500**	**43,000**
Ethylbenzene	600	1,200 U	50 U	1 U	**35**	5,000 U	2,000 U	100 U	1,000 U
Methyl tert-butyl ether	20	NA	500 U	10 U	250 U	NA	20,000 U	1,000 U	10,000 U
Methylene chloride	5	**15,000**	250 U	5 U	130 U	**57,000**	**27,000**	**1,500**	**12,000**
1,1,2,2-Tetrachloroethane	0.2	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	**110**	1,000 U
Tetrachloroethene	0.7	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	100 U	1,000 U
Toluene	600	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	100 U	1,000 U
Trichloroethene	3	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	**190**	1,000 U
Trichlorflouromethane	2,000	NA	50 U	1 U	25 U	NA	2,000 U	100 U	1,000 U
Vinyl chloride	0.03	1,200 U	50 U	1 U	25 U	5,000 U	2,000 U	100 U	1,000 U
Xylenes, Total	500	2,500 U	100 U	2 U	50 U	10,000 U	4,000 U	200 U	2,000 U

NCAC 2L	North Carolina Administrative Code 2L Groundwater Standard
ug/L	Micrograms per liter.
U	Constituent was not detected above the reporting limit.
D	Constituent concentration was quantitated using a secondary dilution.
NA	Not analyzed.
1	Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
*	USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
	Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	VER-3 05/05/06	VER-3 10/22/08	VER-3 11/03/09	VER-3 11/05/10	VER-4 05/04/06	VER-4 10/22/08	VER-4 11/03/09	VER-4 11/05/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard								
Acetone	6,000	20,000 U	25,000 U	6,200 U	6,300 U	10 U	500 U	25 U	25 U
Benzene	1	**8,600**	**5,500**	**310**	**510**	1 U	**59**	1 U	1 U
Chlorobenzene	50	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Chloroform	70	**4,800**	**11,000**	250 U	**250**	**5.5**	**46**	**1.8**	1 U
1,4-Dichlorobenzene	6	NA	1,000 U	250 U	250 U	NA	20 U	1 U	1 U
1,1-Dichloroethane	6	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
1,2-Dichloroethane	0.4	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Cis-1,2-Dichloroethene	70	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Trans-1,2-Dichloroethene	100	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Diethyl ether	7,300*	**68,000**	**40,000**	**13,000**	**10,000**	**15**	**850**	10 U	10 U
Ethylbenzene	600	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Methyl tert-butyl ether	20	NA	10,000 U	2,500 U	2,500 U	NA	200 U	10 U	10 U
Methylene chloride	5	**5,500**	**13,000**	**1,500**	1,300 U	1 U	100 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Tetrachloroethene	0.7	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Toluene	600	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Trichloroethene	3	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Trichlorflouromethane	2,000	NA	1,000 U	250 U	250 U	NA	20 U	1 U	1 U
Vinyl chloride	0.03	2,000 U	1,000 U	250 U	250 U	1 U	20 U	1 U	1 U
Xylenes, Total	500	4,000 U	2,000 U	500 U	500 U	**2**	40 U	2 U	2 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	SRW-1 05/04/06	SRW-1 10/02/07	SRW-1 10/22/08	SRW-1 11/03/09	SRW-1 11/03/10	SRW-2 05/04/06	SRW-2 10/02/07	SRW-2 10/22/08	SRW-2 11/03/09	SRW-2 11/03/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard										
Acetone	6,000	670 U	25 U	25 U	25 U	25 U	2,900 U	25 U	1,200 U	250 U	500 U
Benzene	1	67 U	1 U	1 U	1 U	1 U	290 U	**2.8**	50 U	10 U	20 U
Chlorobenzene	50	67 U	**11**	**9.1**	**6.5**	**6.5**	290 U	**11**	50 U	10 U	20 U
Chloroform	70	67 U	1 U	1 U	1 U	1 U	290 U	**2.1**	50 U	10 U	20 U
1,4-Dichlorobenzene	6	NA	NA	**3**	**2**	**1.5**	NA	NA	50 U	10 U	20 U
1,1-Dichloroethane	6	67 U	1 U	1 U	1 U	1 U	290 U	**1.2**	50 U	10 U	20 U
1,2-Dichloroethane	0.4	67 U	1 U	1 U	1 U	1 U	290 U	**75**	**55**	**55**	**45**
Cis-1,2-Dichloroethene	70	67 U	1 U	1 U	1 U	1 U	290 U	**1.6**	50 U	10 U	20 U
Trans-1,2-Dichloroethene	100	67 U	1 U	1 U	1 U	1 U	290 U	1 U	50 U	10 U	20 U
Diethyl ether	7,300*	**1,900**	**74**	**53**	**31**	**50**	**8,200**	**2,400**	**1,800**	**1,600**	**1,000**
Ethylbenzene	600	67 U	1 U	1 U	1 U	1 U	290 U	1 U	50 U	10 U	20 U
Methyl tert-butyl ether	20	NA	NA	10 U	10 U	10 U	NA	NA	500 U	100 U	200 U
Methylene chloride	5	67 U	5 U	5 U	5 U	5 U	290 U	5 U	250 U	50 U	100 U
1,1,2,2-Tetrachloroethane	0.2	67 U	1 U	1 U	1 U	1 U	290 U	1 U	50 U	10 U	20 U
Tetrachloroethene	0.7	67 U	1 U	1 U	1 U	1 U	290 U	1 U	50 U	10 U	20 U
Toluene	600	67 U	1 U	1 U	1 U	1 U	290 U	1 U	50 U	10 U	20 U
Trichloroethene	3	67 U	1 U	1 U	1 U	1 U	290 U	**8.4**	50 U	10 U	20 U
Trichlorflouromethane	2,000	NA	NA	1 U	1 U	1 U	NA	NA	50 U	10 U	20 U
Vinyl chloride	0.03	67 U	1 U	1 U	1 U	1 U	290 U	**1.1**	50 U	10 U	20 U
Xylenes, Total	500	130 U	2 U	2 U	2 U	2 U	590 U	2 U	100 U	20 U	40 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	SRW-3 05/03/06	SRW-3 10/02/07	SRW-3 10/22/08	SRW-3 11/03/09	SRW-3 11/03/10	DRW-1 05/03/06	DRW-1 10/02/07	DRW-1 10/22/08	DRW-1 11/03/09	DRW-1 11/03/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard										
Acetone	6,000	2,000 U	25 U	1,200 U	250 U	250 U	3,800 U	25 U	500 U	1,200 U	2,500 U
Benzene	1	200 U	**11**	50 U	10 U	10 U	380 U	**160**	20 U	50 U	100 U
Chlorobenzene	50	200 U	9	50 U	10 U	10 U	380 U	**15**	20 U	50 U	100 U
Chloroform	70	200 U	1.5	50 U	10 U	10 U	380 U	**1.4**	20 U	50 U	100 U
1,4-Dichlorobenzene	6	NA	NA	50 U	10 U	10 U	NA	NA	20 U	50 U	100 U
1,1-Dichloroethane	6	200 U	1 U	50 U	10 U	10 U	380 U	**1.6**	20 U	50 U	100 U
1,2-Dichloroethane	0.4	200 U	**63**	50 U	**13**	10 U	380 U	**120**	20 U	**120**	100 U
Cis-1,2-Dichloroethene	70	200 U	**3.9**	50 U	10 U	10 U	380 U	**3.3**	20 U	50 U	100 U
Trans-1,2-Dichloroethene	100	200 U	**4.9**	50 U	10 U	10 U	380 U	**4**	20 U	50 U	100 U
Diethyl ether	7,300*	**6,200**	**4,900**	**2,100**	**860**	**440**	**11,000**	**6,900**	**610**	**3,800**	**3,900**
Ethylbenzene	600	200 U	1 U	50 U	10 U	10 U	380 U	1 U	20 U	50 U	100 U
Methyl tert-butyl ether	20	NA	NA	500 U	100 U	100 U	NA	NA	200 U	500 U	1,000 U
Methylene chloride	5	200 U	5 U	250 U	50 U	50 U	380 U	5 U	20 U	250 U	500 U
1,1,2,2-Tetrachloroethane	0.2	200 U	1 U	50 U	10 U	10 U	380 U	1 U	20 U	50 U	100 U
Tetrachloroethene	0.7	200 U	1 U	50 U	10 U	10 U	380 U	1 U	20 U	50 U	100 U
Toluene	600	200 U	1 U	50 U	10 U	10 U	380 U	1 U	20 U	50 U	100 U
Trichloroethene	3	200 U	**13**	50 U	10 U	10 U	380 U	**17**	20 U	50 U	100 U
Trichlorflouromethane	2,000	NA	NA	50 U	10 U	10 U	NA	NA	20 U	50 U	100 U
Vinyl chloride	0.03	200 U	**3.6**	50 U	10 U	10 U	380 U	**3.5**	20 U	50 U	100 U
Xylenes, Total	500	400 U	2 U	100 U	20 U	20 U	770 U	2 U	40 U	100 U	200 U

NCAC 2L — North Carolina Administrative Code 2L Groundwater Standard
ug/L — Micrograms per liter.
U — Constituent was not detected above the reporting limit.
D — Constituent concentration was quantitated using a secondary dilution.
NA — Not analyzed.
[1] — Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
* — USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	DRW-2 05/03/06	DRW-2 10/02/07	DRW-2 10/22/08	DRW-2 11/03/09	DRW-2 11/03/10	DRW-3 05/03/06	DRW-3 10/02/07	DRW-3 10/22/08	DRW-3 11/03/09	DRW-3 11/03/10
Volatile Organics (USEPA Method 8260) ug/L	NCAC 2L GW Standard										
Acetone	6,000	59 U	25 U	50 U	25 U	25 U	29 U	25 U	25 U	25 U	25 U
Benzene	1	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	5.9 U	**1.3**	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Chloroform	70	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	6	NA	NA	2 U	1 U	1 U	NA	NA	1 U	1 U	1 U
1,1-Dichloroethane	6	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	5.9 U	**9.3**	**3.2**	**1.7**	1 U	2.9 U	**1**	1 U	1 U	1 U
Cis-1,2-Dichloroethene	70	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	**200**	**470**	**87**	**59**	**40**	**98**	**37**	10 U	**18**	10 U
Ethylbenzene	600	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	20	NA	NA	20 U	10 U	10 U	NA	NA	10 U	10 U	10 U
Methylene chloride	5	5.9 U	5 U	10 U	5 U	5 U	2.9 U	1 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Tetrachloroethene	0.7	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Toluene	600	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Trichloroethene	3	5.9 U	**1.5**	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Trichlorflouromethane	2,000	NA	NA	2 U	1 U	1 U	NA	NA	1 U	1 U	1 U
Vinyl chloride	0.03	5.9 U	1 U	2 U	1 U	1 U	2.9 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	12 U	2 U	4 U	2 U	2 U	5.7 U	2 U	2 U	2 U	2 U

NCAC 2L	North Carolina Administrative Code 2L Groundwater Standard
ug/L	Micrograms per liter.
U	Constituent was not detected above the reporting limit.
D	Constituent concentration was quantitated using a secondary dilution.
NA	Not analyzed.
[1]	Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).
*	USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
	Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 11. Summary of Analytical Results for Surface Water Samples Collected in November 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	SW-2 11/02/10	SW-3 11/02/10	SW-4 11/02/10	SW-5 11/02/10	SW-6 11/02/10
Volatile Organics (USEPA Method 8260) ug/L		ND	ND	ND	ND	ND

ug/L Micrograms per liter.
ND Constituent was not detected above the reporting limit.

Table 12. Infiltration Gallery Monitoring Data Collected in October 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-1 9/30/2010	MW-1 10/4/2010	MW-1 10/8/2010	MW-1 10/18/2010	MW-2 9/30/2010	MW-2 10/4/2010	MW-2 10/8/2010	MW-2 10/18/2010	MW-3 9/30/2010	MW-3 10/4/2010	MW-3 10/8/2010	MW-3 10/18/2010
	NCAC 2L GW Standard	Pre-Injection	Post-Injection	Post-Injection	Post-Injection	Pre-Injection	Post-Injection	Post-Injection	Post-Injection	Pre-Injection	Post-Injection	Post-Injection	Post-Injection
Volatile Organics (USEPA Method 8260) µg/L													
Acetone		1,300 U	1,300 U	2,500 U	1,300 U	2,500 U	2,500 U	5,000 U	5,000 U	25 U	25 U	25 U	25 U
Benzene	1	**620**	**910**	**800**	**720**	**6,800**	**7,200**	**7,600**	**7,100**	1 U	1 U	1 U	1 U
Chlorobenzene	50	50 U	50 U	100 U	50 U	**240**	**250**	**220**	**210**	1 U	1 U	1 U	1 U
Chloroform	70	**3,400**	**4,400**	**4,500**	**4,900**	**780**	**1,000**	**1,100**	**920**	1 U	1 U	1 U	1 U
Chloromethane		50 U	50 U	100 U	50 U *	100 U	100 U	200 U	200 U *	1 U	1 U	1 U	1 U *
1,4-Dichlorobenzene		50 U	50 U	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	**50**	**57**	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	**360**	**430**	**490**	**550**	**1,000**	**1,100**	**1,400**	**1,600**	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene		50 U	50 U	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene		50 U	50 U	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	**4,300**	**5,300** E	**5,000**	**3,900**	**13,000 E**	**16,000 E**	**14,000**	**13,000**	10 U	10 U	10 U	10 U
Ethylbenzene	600	50 U	50 U	100 U	50 U	**260**	**360**	**410**	**370**	1 U	1 U	1 U	1 U
Methyl tert-butyl ether		500 U	500 U	1000 U	500 U	1000 U	1000 U	2000 U	2000 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	**570**	**680**	**720**	**540**	**780**	**890**	**1300**	**1000**	5 U	5 U	5 U	5 U
Naphthalene	6	**5,900**	250 U	500 U	250 U	**1,500**	500 U	1,000 U	1,000 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	**530**	**570**	**620**	**620**	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
Tetrachloroethene		50 U	50 U	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	70	50 U	50 U	100 U	**88**	100 U	100 U	200 U	**350**	1 U	1 U	1 U	1 U
Toluene		50 U	50 U	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
Trichloroethene	3	**130**	**160**	**140**	**150**	**130**	**140**	200 U	**620**	1 U	1 U	1 U	1 U
Trichlorofluoromethane		50 U	50 U	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
Vinyl chloride		50 U	50 U	100 U	50 U	100 U	100 U	200 U	200 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	100 U	100 U	200 U	100 U	**870**	**1,100**	**1,000**	**860**	2 U	2 U	2 U	2 U
Sulfate (USEPA Method 9038 mg/L)													
Sulfate		**260**	**260**	**290**	**310**	**310**	**280**	**270**	**270**	**61**	NA	**53**	**61**
Metals (USEPA Method 6010/7470A) µg/L													
Arsenic		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Barium	700	**27**	**33**	50 U	50 U	**21**	**21**	50 U	50 U	**220**	**240**	**250**	**230**
Cadmium		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chromium		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**150**	**170**	**140**	**33**
Iron	300	**5,100**	**8,200**	**6,100**	**4,700**	**5,900**	**6,000**	**7,600**	**8,200**	**980**	**1,000**	**300**	**110**
Lead		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Selenium		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	NE	**240,000**	**270,000**	**270,000**	**310,000**	**67,000**	**67,000**	**65,000**	**65,000**	**73,000**	**76,000**	**80,000**	**88,000**
Mercury		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
ug/L Micrograms per liter.
mg/L Milligrams per liter.
U Constituent was not detected above the reporting limit.
* USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

Table 12. Infiltration Gallery Monitoring Data Collected in October 2010, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

Constituent	Sample ID: / Date Sampled:	MW-14 9/30/2010	MW-14 10/4/2010	MW-14 10/18/2010	MW-38 9/30/2010	MW-38 10/4/2010	MW-38 10/8/2010	MW-38 10/18/2010	MW-39 9/30/2010	MW-39 10/4/2010	MW-39 10/8/2010	MW-39 10/18/2010
	NCAC 2L GW Standard	Pre-Injection	Post-Injection	Post-Injection	Pre-Injection	Post-Injection	Post-Injection	Post-Injection	Pre-Injection	Post-Injection	Post-Injection	Post-Injection
Volatile Organics (USEPA Method 8260) µg/L												
Acetone		25 U	25 U	500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	1	**49**	**34**	**38**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1.1	1 U	20 U	1 U	**1.5**	**2.1**	1 U	1 U	1 U	1 U	1 U
Chloroform	70	1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		1 U	1 U	20 U	1 U	1 U	1 U	1 U *	1 U	1 U	1 U	1 U *
1,4-Dichlorobenzene		1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.4	**15**	**12**	20 U	**14**	**8.7**	**21**	**22**	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene		1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene		1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl ether	7,300*	**700** E	**570** E *	**770**	**220** E	**140** E *	**390** E	**49**	10 U	10 U *	10 U	10 U
Ethylbenzene	600	1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether		10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	5 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	6	5 U	5 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene		1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	70	1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	3	**3.9**	**2.9**	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane		1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride		1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	500	2 U	2 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sulfate (USEPA Method 9038 mg/L)												
Sulfate		**18**	**21**	**21**	**28**	**27**	**26**	**26**	**13**	**12**	**14**	**12**
Metals (USEPA Method 6010/7470A) µg/L												
Arsenic		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Barium	700	**31**	**31**	50 U	**43**	**59**	50 U	50 U	**89**	**69**	**63**	**65**
Cadmium		5 U	5 U	5 U	5 U	5 U	5 U	5 U	**5.9**	5 U	5 U	5 U
Chromium		10 U	10 U	10 U	**15**	**18**	10 U	10 U	**13**	10 U	10 U	10 U
Iron	300	**340**	**140**	**150**	**11,000**	**16,000**	**260**	**140**	**2,000**	**71**	100 U	100 U
Lead		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Selenium		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	NE	**19,000**	**19,000**	**19,000**	**41,000**	**41,000**	**42,000**	**43,000**	**25,000**	**23,000**	**23,000**	**21,000**
Mercury		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

NCAC 2L	North Carolina Administrative Code 2L Groundwater Standard
ug/L	Micrograms per liter.
mg/L	Milligrams per liter.
U	Constituent was not detected above the reporting limit.
*	USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).
	Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.

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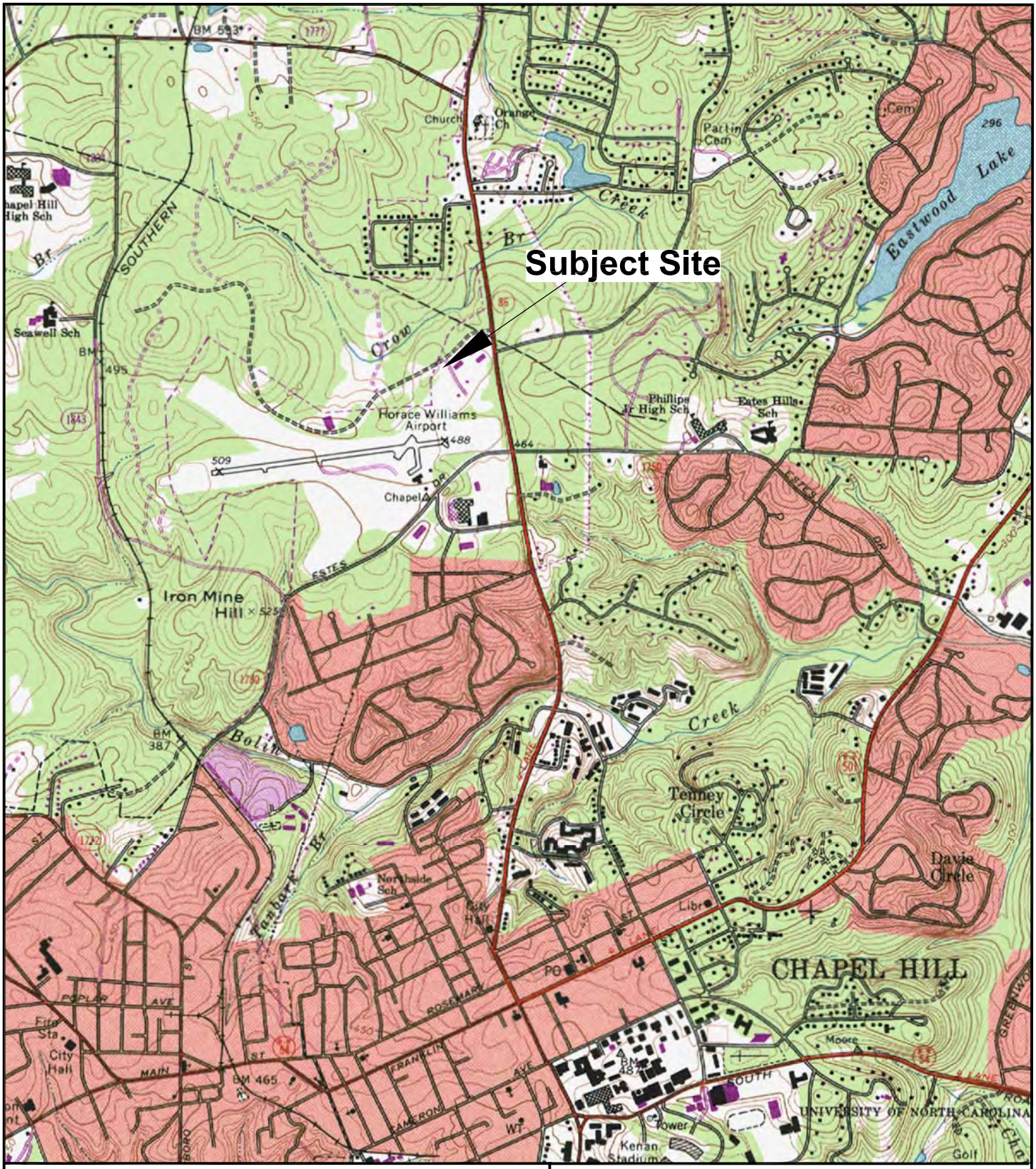
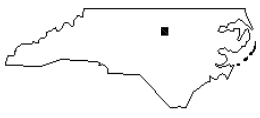
Remedial Action Progress Report — January 2010 through December 2010

Figures





CONTOUR INTERVAL 10-FOOT DATUM IS MEAN SEA LEVEL
SOURCE: TOPOGRAPHY TAKEN FROM USGS 7.5 MINUTE QUADRANGLE
CHAPEL HILL 1967 (PHOTOREVISED 1988), NC MAP

0 2000' 4000' 6000'

SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

SITE LOCATION

ARCADIS

FIGURE 1

CITY: Raleigh, NC DIV/GROUP: ENV DB: LD: PIC: PM: TM: LYR:
G:\ENV\UNIVNC\Airport Road\WC000239.0016\2010 Remedial System Report\Figures\Figure 1 Topo Map.dwg LAYOUT: FIGURE 1 SAVED: 11/19/2010 10:12 AM ACADVER: 17.0S (LMS TECH) PAGESETUP: -- PLOTSTYLETABLE: ENV-STANDARD.CTB PLOTTED: 1/7/2011 3:33 PM BY: PINNIX, ALAN

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY TEST WELL
- SURFACE WATER LOCATION

MW-19
SW-1
CROW BRANCH CREEK
SW-2
MW-18
MW-16
MW-17
MW-21
MW-23
SW-4
MW-25
DRW-2
MW-11
MW-13
SRW-3
MW-15
MW-24
SW-3
DRW-1
SRW-1
MW-12
SRW-2
MW-22
GROUNDWATER TREATMENT SYSTEM
MW-6
MW-7
MW-9
MW-20
MW-34
MW-35
MW-37
MW-32
MW-33
SW-5
MW-5
MW-27 (Abandoned)
DRW-3
MW-26
GAS EASEMENT
MW-30
MW-31
MW-4
MW-36
SW-6
MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)
PINEY MTN. DR.
MUNICIPAL DRIVE
VER-4
MW-39
VER-3
MW-14
VER-2
MW-1
VER-1
MW-38
MW-3
MW-2
MW-28
MW-29
FORMER UNC AIRPORT ROAD WASTE DISPOSAL AREA

N

0 200' 400' 600'
SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

MONITOR WELL AND RECOVERY WELL LOCATION MAP

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FIGURE 2

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 452.14 WATER LEVEL ELEVATION (ft msl)
- 454 POTENTIOMETRIC CONTOUR
- GROUNDWATER FLOW DIRECTION

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

PINEY MTN. DR.

MUNICIPAL DRIVE

GAS EASEMENT

CROW BRANCH CREEK

MW-19 469.69

MW-18 463.83

MW-17

MW-16

MW-21

MW-23

MW-20 Dry

MW-37

MW-32

MW-33

MW-34

MW-35

MW-5 449.44

MW-27 (Abandoned)

MW-36

DRW-3

MW-26

MW-25 447.41

DRW-2

MW-30

MW-31

MW-4 453.10

MW-11

MW-13

SRW-3 440.24

MW-15

MW-24

450.19

DRW-1

MW-6 454.20

SRW-1

MW-12

SRW-2 437.77

MW-7

MW-9

MW-22 456.07

474.72

474.34

VER-4

MW-39

MW-14

VER-3 456.58

VER-2 461.05

MW-1 466.71

VER-1 468.69

MW-38 468.69

MW-3 478.81

MW-2 465.59

MW-28

MW-29

455 460 450 465 470 475

0 200' 400' 600'

SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

GROUNDWATER POTENTIOMETRIC SURFACE OF THE SHALLOW AQUIFER NOVEMBER 2010

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FIGURE 3

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 452.14 WATER LEVEL ELEVATION (ft msl)
- 454 POTENTIOMETRIC CONTOUR
- GROUNDWATER FLOW DIRECTION

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

PINEY MTN. DR.

MUNICIPAL DRIVE

GAS EASEMENT

CROW BRANCH CREEK

MW-19
MW-20 445
MW-34 440.02
MW-35 383.85
MW-37 438.10
MW-32 438.72
MW-33 434.39
MW-5
MW-27 (Abandoned)
MW-36 445.91
DRW-3 424.66
MW-21 451.07
MW-23 447.36
MW-26 432.19
MW-25
DRW-2 415.47
MW-30 436.03
MW-31 435.39
MW-4
MW-11 438.38
MW-13 452.08
SRW-3
MW-15 442.09
MW-24 447.79
DRW-1 446.58
MW-6
SRW-1
MW-12
SRW-2
MW-7 451.68
MW-9 460.67
MW-22
MW-14 454.41
VER-4
VER-3
MW-39
VER-2
MW-1
MW-16 461.29
VER-1
MW-18
MW-38
MW-3
MW-2
MW-28 473.57
MW-17 462.77
MW-29 466.27

440 435 450 445 455 460 465

0 200' 400' 600'
SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

GROUNDWATER POTENTIOMETRIC SURFACE OF THE BEDROCK AQUIFER NOVEMBER 2010

ARCADIS

FIGURE 4

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 920 BENZENE CONCENTRATION (µg/L)
- 100 ISOCONCENTRATION CONTOUR (µg/L)
- NS NOT SAMPLED

NCAC 2L STANDARD FOR BENZENE IS 1 µg/L

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

GAS EASEMENT

MUNICIPAL DRIVE

PINEY MTN. DR.

CROW BRANCH CREEK

MW-19 NS
MW-20 NS
MW-21
MW-22 <1.0
MW-23
MW-24
MW-25 <1.0
MW-26
MW-27 (Abandoned)
MW-28
MW-29
MW-30
MW-31
MW-32
MW-33
MW-34
MW-35
MW-36
MW-37
MW-38 <1.0
MW-39
MW-4 <1.0
MW-5 <1.0
MW-6 <50
MW-7
MW-9
MW-11
MW-12 <1.0
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18 NS
MW-1 1,000
MW-2 5,900
MW-3 <1.0

DRW-1
DRW-2
DRW-3
SRW-1 <1.0
SRW-2 <20
SRW-3 <10
VER-1 460
VER-2 14,000
VER-3 510
VER-4

100
1,000
1

0 200' 400' 600'
SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

BENZENE ISOCONCENTRATION CONTOUR MAP OF THE SHALLOW AQUIFER - NOVEMBER 2010

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FIGURE 5

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 920 CHLOROFORM CONCENTRATION (µg/L)
- 100 ISOCONCENTRATION CONTOUR (µg/L)
- NS NOT SAMPLED

NCAC 2L STANDARD FOR CHLOROFORM IS 70 µg/L

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

GAS EASEMENT

MUNICIPAL DRIVE

PINEY MTN. DR.

CROW BRANCH CREEK

MW-19 NS

MW-20 NS

MW-34

MW-35

MW-37

MW-32

MW-33

MW-5 <1.0

MW-27 (Abandoned)

MW-36

DRW-3

MW-21

MW-23

MW-26

MW-25 <1.0

DRW-2

MW-30

MW-31

MW-4 <1.0

MW-11

MW-13

SRW-3 <10

MW-15

MW-24

DRW-1

MW-6 <50

SRW-1 <1.0

MW-12 <1.0

SRW-2 <20

MW-22 <1.0

MW-7

MW-9

70

<1.0

<1.0

VER-4

MW-39

MW-14

VER-3 250

MW-16

VER-2 21,000

MW-1 3,400

1,000

VER-1 <25

MW-18 NS

MW-38 <1.0

MW-3 <1.0

MW-2 800

MW-28

MW-17

MW-29

0 200' 400' 600'

SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

CHLOROFORM ISOCONCENTRATION CONTOUR MAP OF THE SHALLOW AQUIFER - NOVEMBER 2010

ARCADIS

FIGURE 6

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 920 METHYLENE CHLORIDE CONCENTRATION (µg/L)
- 100 ISOCONCENTRATION CONTOUR (µg/L)
- NS NOT SAMPLED

NCAC 2L STANDARD FOR METHYLENE CHLORIDE IS 5 µg/L

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

GAS EASEMENT

PINEY MTN. DR.

MUNICIPAL DRIVE

CROW BRANCH CREEK

MW-19 NS
MW-20 NS
MW-21
MW-22 <5
MW-23
MW-24
MW-25 <5
MW-26
MW-27 (Abandoned)
MW-28
MW-29
MW-30
MW-31
MW-32
MW-33
MW-34
MW-35
MW-36
MW-37
MW-38 <5
MW-39 <5
MW-4 <5
MW-5 <5
MW-6 <250
MW-7
MW-9
MW-11
MW-12 <5
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18 NS
MW-1 <500
MW-2 <1,000
MW-3 <5

DRW-1 5
DRW-2
DRW-3
SRW-1 <5
SRW-2 <100
SRW-3 <50
VER-1 <130
VER-2 12,000
VER-3 <1,300
VER-4 100
1,000

0 200' 400' 600'
SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

METHYLENE CHLORIDE ISOCONCENTRATION CONTOUR MAP OF THE SHALLOW AQUIFER-NOVEMBER 2010

ARCADIS

FIGURE 7

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 920 DIETHYL ETHER CONCENTRATION (µg/L)
- 100 ISOCONCENTRATION CONTOUR (µg/L)
- NS NOT SAMPLED

USEPA RISK BASED TAP WATER CONCENTRATION FOR DIETHYL ETHER IS 7,300 µg/L

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

GAS EASEMENT

MUNICIPAL DRIVE

PINEY MTN. DR.

CROW BRANCH CREEK

MW-19 NS
MW-20 NS
MW-21
MW-22 <10
MW-23
MW-24
MW-25 <10
MW-26
MW-27 (Abandoned)
MW-28
MW-29
MW-30
MW-31
MW-32
MW-33
MW-34
MW-35
MW-36
MW-37
MW-38 49
MW-39
MW-1 5,200
MW-2 13,000
MW-3 <10
MW-4 <10
MW-5 <10
MW-6 2,400
MW-7
MW-9
MW-11
MW-12 <10
MW-13
MW-14
MW-15
MW-16
MW-17
MW-18 NS

DRW-1
DRW-2
DRW-3
SRW-1 50
SRW-2 1,000
SRW-3 440
VER-1 2,400
VER-2 43,000
VER-3 10,000
VER-4

10
100
1,000
10,000

<10

0 200' 400' 600'
SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

DIETHYL ETHER ISOCONCENTRATION CONTOUR MAP OF THE SHALLOW AQUIFER-NOVEMBER 2010

ARCADIS

FIGURE 8

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 920 BENZENE CONCENTRATION (µg/L)
- 100 ISOCONCENTRATION CONTOUR (µg/L)
- NS NOT SAMPLED

NCAC 2L STANDARD FOR BENZENE IS 1 µg/L

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

GAS EASEMENT

MUNICIPAL DRIVE

PINEY MTN. DR.

CROW BRANCH CREEK

MW-19
MW-20
MW-34 NS
MW-35 <1.0
MW-37 NS
MW-32 <1.0
MW-33 <1.0
MW-5
MW-27 (Abandoned)
MW-36 <1.0
DRW-3 <1.0
MW-21 <1.0
MW-23 <1.0
MW-26 <1.0
MW-25
DRW-2 <1.0
MW-30 <1.0
MW-31 <1.0
MW-4
MW-11 <1.0
MW-13 NS
<100
SRW-3
MW-15
MW-24 NS
DRW-1 <100
MW-6
SRW-1
MW-12
SRW-2
MW-7 <50
MW-9 <1.0
MW-22
VER-4
MW-39
VER-3
MW-14
36
10
VER-2
MW-1
MW-16 <1.0
VER-1
MW-18
MW-38
MW-3
MW-2
MW-28 <1.0
MW-17
2
MW-29 NS

0 200' 400' 600'
SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

BENZENE ISOCONCENTRATION CONTOUR MAP OF THE BEDROCK AQUIFER - NOVEMBER 2010

ARCADIS

FIGURE 9

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 920 CHLOROFORM CONCENTRATION (µg/L)
- 100 ISOCONCENTRATION CONTOUR (µg/L)
- NS NOT SAMPLED

NCAC 2L STANDARD FOR CHLOROFORM IS 70 µg/L

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

GAS EASEMENT

PINEY MTN. DR.

MUNICIPAL DRIVE

CROW BRANCH CREEK

MW-19

MW-20

MW-34 NS

MW-35 <1.0

MW-37 NS

MW-32 <1.0

MW-33 <1.0

MW-5

MW-27 (Abandoned)

MW-36 <1.0

DRW-3 <1.0

MW-21 <1.0

MW-23 <1.0

MW-26 <1.0

MW-25

DRW-2 <1.0

MW-30 <1.0

MW-31 <1.0

MW-4

MW-11 <1.0

MW-13 NS

<100 SRW-3

MW-15

MW-24 NS

DRW-1 <100

MW-6

SRW-1

MW-12

SRW-2

MW-7 <50

MW-9 <1.0

MW-22

VER-4

VER-3

MW-39

MW-14 <20

VER-2

MW-1

MW-16 <1.0

VER-1

MW-18

MW-38

MW-3

MW-2

MW-28 <1.0

MW-17 <1.0

MW-29 NS

0 200' 400' 600'

SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

CHLOROFORM ISOCONCENTRATION CONTOUR MAP OF THE BEDROCK AQUIFER - NOVEMBER 2010

ARCADIS

FIGURE 10

LEGEND

- BUILDING/STRUCTURE
- PROPERTY LINE
- FENCE
- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- RECOVERY WELL
- VACUUM ENHANCED RECOVERY WELL
- SURFACE WATER LOCATION
- 920 DIETHYL ETHER CONCENTRATION (µg/L)
- 100 ISOCONCENTRATION CONTOUR (µg/L)
- NS NOT SAMPLED

USEPA RISK BASED TAP WATER CONCENTRATION FOR DIETHYL ETHER IS 7,300 µg/L

N87°44'28"W
1439.32'

S49°00'48"W
420.03'

MARTIN LUTHER KING, JR. BOULEVARD (HISTORIC AIRPORT ROAD)

GAS EASEMENT

MUNICIPAL DRIVE

PINEY MTN. DR.

CROW BRANCH CREEK

MW-19
MW-18
MW-17 46
MW-16 <10
MW-22
MW-21 NS
MW-23 <10
MW-20
MW-34 NS
MW-35 <10
MW-37 NS
MW-32 <10
MW-33 <10
MW-5
MW-27 (Abandoned)
MW-36 <10
DRW-3 <10
MW-26 <10
MW-25
DRW-2 40
MW-30 <10
MW-31 10
MW-4
MW-11 100
MW-13 NS
MW-24 NS
MW-15
SRW-3
DRW-1 3900
MW-6
MW-12
SRW-1
SRW-2
MW-7 3300
MW-9 65
MW-14 650
VER-3
VER-4
MW-39
VER-2
VER-1
MW-1
MW-38
MW-3
MW-2
MW-28 <10
MW-29 NS
3000
1000
100
10

0 200' 400' 600'
SCALE IN FEET

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

DIETHYL ETHER ISOCONCENTRATION CONTOUR MAP OF THE BEDROCK AQUIFER - NOVEMBER 2010

ARCADIS

FIGURE 11

SOUTH

NORTH

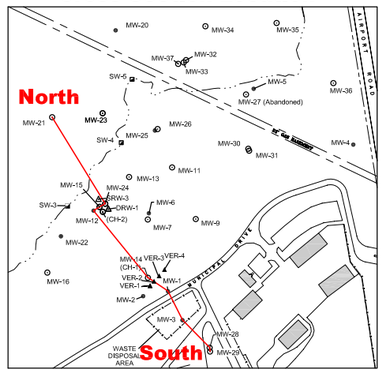
LOCATION OF FORMER WASTE DISPOSAL AREA AND INFILTRATION GALLERY

ELEVATION (FT,MSL)

500
480
460
440
420
400
380
360
340
320
300
280
260

MW-29 NS
MW-28 <1.0
MW-3 <1.0
MW-1 1,000
VER-2 14,000
MW-14 36
MW-12 <1.0
MW-15 < 100
DRW-1 <100
MW-24 NS
SRW-1 <1.0
CROW BRANCH CREEK
MW-21 NS

10,000
1,000
100



Cross Section Location

Not to Scale

CROSS SECTION HORIZONTAL SCALE IN FEET
0 100 200

VERTICAL SCALE IN FEET
0 40 80

LEGEND

- SOIL: SILTY CLAY AND SANDY CLAY
- WEATHERED ROCK/ SAPROLITE
- COMPETENT ROCK (GRANODIORITE)
- BACKFILL
- INFILTRATION GALLERY
- WATER TABLE (SHALLOW AQUIFER)
- POTENTIOMETRIC SURFACE (BEDROCK AQUIFER)
- 190 BENZENE CONCENTRATION (µg/L)
- 100 BENZENE ISCONCENTRATION (µg/L)
- SCREENED INTERVAL
- OPEN BOREHOLE

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

BENZENE ISOCONCENTRATION CROSS SECTION - NOVEMBER 2010

ARCADIS

FIGURE 12

SOUTH

NORTH

LOCATION OF FORMER WASTE DISPOSAL AREA AND INFILTRATION GALLERY

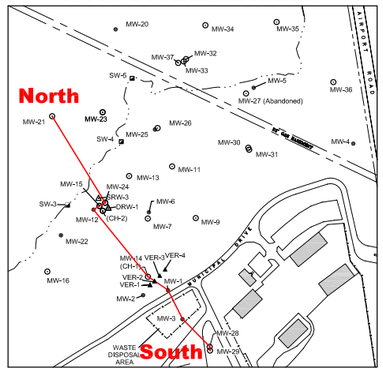
ELEVATION (FT,MSL)

500
480
460
440
420
400
380
360
340
320
300
280
260

MW-29 NS
MW-28 <10
MW-3 <10
MW-1 5,200
VER-2 43,000
MW-14 650
MW-12 <10
DRW-1 3,900
MW-15 3,000
SRW-1 50
MW-24 NS
CROW BRANCH CREEK
MW-21 NS

10,000
5,000
1,000
100

Cross Section Location



Not to Scale

CROSS SECTION HORIZONTAL SCALE IN FEET
0 100 200

VERTICAL SCALE IN FEET
0 40 80

LEGEND

- SOIL: SILTY CLAY AND SANDY CLAY
- WEATHERED ROCK/ SAPROLITE
- COMPETENT ROCK (GRANODIORITE)
- BACKFILL
- INFILTRATION GALLERY
- WATER TABLE (SHALLOW AQUIFER)
- POTENTIOMETRIC SURFACE (BEDROCK AQUIFER)
- 190 DIETHYL ETHER CONCENTRATION (µg/L)
- 100 DIETHYL ETHER ISCONCENTRATION (µg/L)
- SCREENED INTERVAL
- OPEN BOREHOLE

UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

DIETHYL ETHER ISOCONCENTRATION CROSS SECTION - NOVEMBER 2010

ARCADIS

FIGURE 13

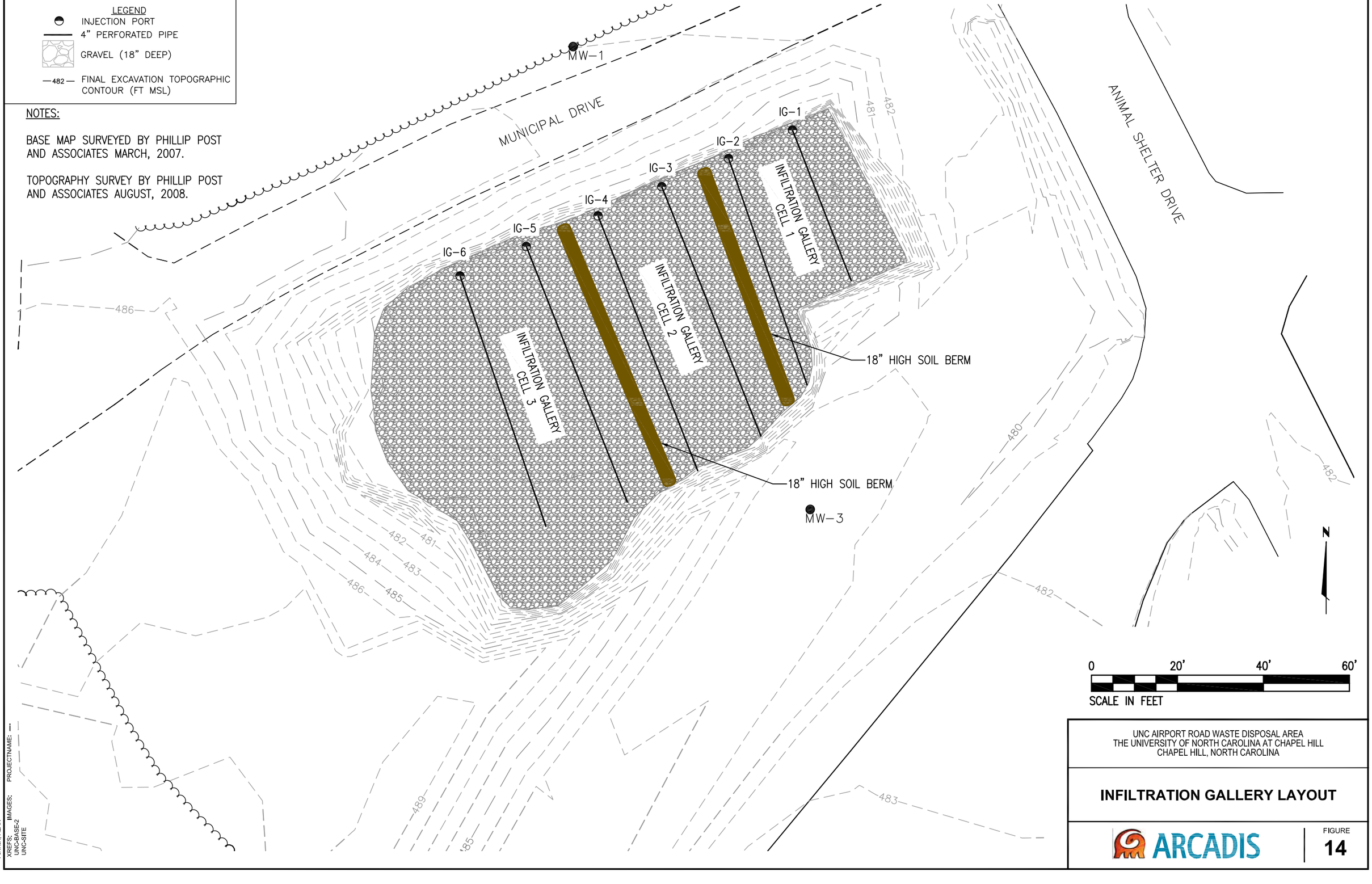
LEGEND

- INJECTION PORT
- 4" PERFORATED PIPE
- GRAVEL (18" DEEP)
- —482— FINAL EXCAVATION TOPOGRAPHIC CONTOUR (FT MSL)

NOTES:

BASE MAP SURVEYED BY PHILLIP POST AND ASSOCIATES MARCH, 2007.

TOPOGRAPHY SURVEY BY PHILLIP POST AND ASSOCIATES AUGUST, 2008.



UNC AIRPORT ROAD WASTE DISPOSAL AREA
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

INFILTRATION GALLERY LAYOUT

ARCADIS

FIGURE
14

CITY: Augusta, GA DIV/GROUP: ENV DB: A. Warren LD: PIC: PM: TM:) LYR: G:\ENV\UNIVNC\Airport Road\NC000239.0018\2010 Remedial System Report\Figures\Figure 14 - Infiltration Gallery.dwg LAYOUT: FIGURE 11 SAVED: 2/15/2011 4:35 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: -- PLOTSTYLETABLE: ARCADIS STANDARD-1.STB PLOTTED: 2/16/2011 8:53 AM BY: PINNIX, ALAN

XREFS: IMAGES: PROJECTNAME: ---
UNC-BASE-2
UNC-SITE

ARCADIS

Appendix A

Discharge Monitoring Reports

ARCADIS

Infrastructure, environment, facilities

ARCADIS G&M of North Carolina, Inc.
801 Corporate Center Drive
Suite 300
Raleigh,
North Carolina 27607-5073
Tel 919 854 1282
Fax 919 854 5448
www.arcadis-us.com

ENVIRONMENTAL

Mr. J. Laurence Daw
Geophysicist/Licensed Geologist
The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension
Campus Box 1650
Chapel Hill, NC 27599-1650

Subject:
Monthly Monitoring Report (October 2010 to December 2010)
OWASA Permit Number 0010
The University of North Carolina at Chapel Hill, Airport Road Waste Disposal Area, Chapel Hill, North Carolina

Date:
3 January 2011

Contact:
Alan Pinnix

Phone:
277

E-mail:
alan.pinnix@arcadis-us.com

Dear Mr. Daw:

ARCADIS has prepared the October 2010 to December 2010 monitoring report for the Airport Road Waste Disposal Area located in Chapel Hill, North Carolina. This report is prepared in accordance with permit requirements for the discharge of treated groundwater at the above referenced site. As shown on the attached report (Table 1), the discharge did not exceed any maximum daily concentrations for the samples collected on October 1, 2010, November 5, 2010 or December 14, 2010.

The average daily flow rate was below the permitted average daily maximum during the period. Please feel free to contact me at (919) 854-1282 if you have any questions regarding this work.

Sincerely,

ARCADIS G&M of North Carolina, Inc.

J. Alan Pinnix, L.G.
Senior Scientist

Table 1. Groundwater Discharge Monitoring Report for October-December 2010

The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension, CB #1650
Chapel Hill, North Carolina 27599-1650

OWASA Permit Number 0010

UNC Airport Road Waste Disposal Area
Chapel Hill, North Carolina

Discharge to Manhole # 47C4001

Parameter	Maximum Allowable Daily Value			
Date		10/1/2010	11/5/2010	12/14/2010
Average Flow (gallons per day)	43,200	21,478*	30,104**	30,946***
Temperature (degrees Celsius)	NA	NM	NM	NM
pH (Standard Units)	NA	NM	NM	NM
Benzene (micrograms per liter)	100	< 1.0	< 1.0	< 1.0
Chloroform (micrograms per liter)	100	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane (micrograms per liter)	71	< 1.0	< 1.0	< 1.0
Methylene Chloride (micrograms per liter)	930	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane (micrograms per liter)	30	< 1.0	< 1.0	< 1.0
Arsenic (micrograms per liter)	16	< 20	< 20	< 20
Chromium (micrograms per liter)	50	< 10	< 10	< 10
Copper (micrograms per liter)	60	< 20	< 20	< 20
Lead (micrograms per liter)	49	< 10	< 10	< 10
Zinc (micrograms per liter)	535	< 20	< 20	< 100
Mercury (nanograms per liter)	50	< 0.50	0.68	0.71

NOTE : Discharge initiated on 10/05/2006
< 1.0 Not detected above reporting limit.
NA Not applicable to the permit conditions.
NM Not Measured
* Flow reading based upon data collected between 9/13/2010 and 10/1/2010.
** Flow reading based upon data collected between10/2/2010 and 11/5/2010.
*** Flow reading based upon data collected between 11/6/2010 and 12/14/2010.

I hereby certify that I have examined and am familiar with the information submitted in this document and that the information is true, accurate and complete.
I am aware that there are significant penalties for submitting false information.

1/3/2011
Date

Signature of Official

ARCADIS

Infrastructure, environment, facilities

ARCADIS G&M of North Carolina, Inc.
801 Corporate Center Drive
Suite 300
Raleigh,
North Carolina 27607-5073
Tel 919 854 1282
Fax 919 854 5448
www.arcadis-us.com

ENVIRONMENTAL

Mr. J. Laurence Daw
Geophysicist/Licensed Geologist
The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension
Campus Box 1650
Chapel Hill, NC 27599-1650

Subject:
Monthly Monitoring Report (July 2010 to September 2010)
OWASA Permit Number 0010
The University of North Carolina at Chapel Hill, Airport Road Waste Disposal Area, Chapel Hill, North Carolina

Date:
29 September 2010

Contact:
Alan Pinnix

Phone:
277

E-mail:
alan.pinnix@arcadis-us.com

Dear Mr. Daw:

ARCADIS has prepared the July 2010 to September 2010 monitoring report for the Airport Road Waste Disposal Area located in Chapel Hill, North Carolina. This report is prepared in accordance with permit requirements for the discharge of treated groundwater at the above referenced site. As shown on the attached report (Table 1), the discharge did not exceed any maximum daily concentrations for the samples collected on July 27, 2010, August 18, 2010 or September 12, 2010.

The average daily flow rate was below the permitted average daily maximum during the period. Please feel free to contact me at (919) 854-1282 if you have any questions regarding this work.

Sincerely,

ARCADIS G&M of North Carolina, Inc.

J. Alan Pinnix, L.G.
Senior Scientist

Table 1. Groundwater Discharge Monitoring Report for July-September 2010

The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension, CB #1650
Chapel Hill, North Carolina 27599-1650

OWASA Permit Number 0010

UNC Airport Road Waste Disposal Area
Chapel Hill, North Carolina

Discharge to Manhole # 47C4001

Parameter	Maximum Allowable Daily Value			
Date		7/27/2010	8/18/2010	9/12/2010
Average Flow (gallons per day)	43,200	13,188*	23,777**	22,477***
Temperature (degrees Celsius)	NA	NM	NM	NM
pH (Standard Units)	NA	NM	NM	NM
Benzene (micrograms per liter)	100	< 1.0	< 1.0	< 1.0
Chloroform (micrograms per liter)	100	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane (micrograms per liter)	71	< 1.0	< 1.0	< 1.0
Methylene Chloride (micrograms per liter)	930	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane (micrograms per liter)	30	< 1.0	< 1.0	< 1.0
Arsenic (micrograms per liter)	16	< 20	< 20	< 20
Chromium (micrograms per liter)	50	< 10	< 10	< 10
Copper (micrograms per liter)	60	< 20	< 20	< 20
Lead (micrograms per liter)	49	< 10	< 10	< 10
Zinc (micrograms per liter)	535	< 100	< 100	< 100
Mercury (nanograms per liter)	50	< 0.50	< 0.50	0.74

NOTE : Discharge initiated on 10/05/2006
< 1.0 Not detected above reporting limit.
NA Not applicable to the permit conditions.
NM Not Measured
* Flow reading based upon data collected between 6/15/2010 and 7/27/2010.
** Flow reading based upon data collected between 7/28/2010 and 8/18/2010.
*** Flow reading based upon data collected between 8/19/2010 and 9/12/2010.

I hereby certify that I have examined and am familiar with the information submitted in this document and that the information is true, accurate and complete.
I am aware that there are significant penalties for submitting false information.

9/29/2010
Date

Signature of Official

ARCADIS
Infrastructure, environment, facilities

ARCADIS G&M of North Carolina, Inc.
801 Corporate Center Drive
Suite 300
Raleigh,
North Carolina 27607-5073
Tel 919 854 1282
Fax 919 854 5448
www.arcadis-us.com

ENVIRONMENTAL

Mr. J. Laurence Daw
Geophysicist/Licensed Geologist
The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension
Campus Box 1650
Chapel Hill, NC 27599-1650

Subject:
Monthly Monitoring Report (January 2010 to March 2010)
OWASA Permit Number 0010
The University of North Carolina at Chapel Hill, Airport Road Waste Disposal Area, Chapel Hill, North Carolina

Date:
2 April 2010

Contact:
Alan Pinnix

Phone:
277

E-mail:
alan.pinnix@arcadis-us.com

Dear Mr. Daw:

ARCADIS has prepared the January 2010 to March 2010 monitoring report for the Airport Road Waste Disposal Area located in Chapel Hill, North Carolina. This report is prepared in accordance with permit requirements for the discharge of treated groundwater at the above referenced site. As shown on the attached report (Table 1), the discharge did not exceed any maximum daily concentrations for the samples collected on January 11, 2010, February 10, 2010 or March 12, 2010.

The average daily flow rate was below the permitted average daily maximum during the period. Please feel free to contact me at (919) 854-1282 if you have any questions regarding this work.

Sincerely,

ARCADIS G&M of North Carolina, Inc.

J. Alan Pinnix, L.G.
Senior Scientist

ARCADIS

Table 1. Groundwater Discharge Monitoring Report for January-March 2010

The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension, CB #1650
Chapel Hill, North Carolina 27599-1650

OWASA Permit Number 0010

UNC Airport Road Waste Disposal Area
Chapel Hill, North Carolina

Discharge to Manhole # 47C4001

Parameter	Maximum Allowable Daily Value			
Date		1/11/2010	2/10/2010	3/12/2010
Average Flow (gallons per day)	43,200	26,349*	25,664**	26,059***
Temperature (degrees Celsius)	NA	NM	NM	NM
pH (Standard Units)	NA	NM	NM	NM
Benzene (micrograms per liter)	100	< 1.0	< 2.0	< 1.0
Chloroform (micrograms per liter)	100	< 1.0	< 2.0	< 1.0
1,2-Dichloroethane (micrograms per liter)	71	1.5	< 2.0	4.7
Methylene Chloride (micrograms per liter)	930	< 5	<10	< 5.0
1,1,2,2-Tetrachloroethane (micrograms per liter)	30	< 1.0	< 2.0	< 1.0
Arsenic (micrograms per liter)	16	< 20	< 20	< 20
Chromium (micrograms per liter)	50	< 10	< 10	< 10
Copper (micrograms per liter)	60	< 20	< 20	< 20
Lead (micrograms per liter)	49	< 10	< 10	< 10
Zinc (micrograms per liter)	535	< 20	22	22
Mercury (nanograms per liter)	50	< 0.50	0.55	< 0.50

NOTE : Discharge initiated on 10/05/2006
< 1.0 Not detected above reporting limit.
NA Not applicable to the permit conditions.
NM Not Measured
* Flow reading based upon data collected between 12/22/2009 and 1/11/2010.
** Flow reading based upon data collected between 1/12/2010 and 2/10/2010.
*** Flow reading based upon data collected between 2/11/2010 and 3/12/2009.

I hereby certify that I have examined and am familiar with the information submitted in this document and that the information is true, accurate and complete.
I am aware that there are significant penalties for submitting false information.

4/2/2010
Date

Signature of Official

ARCADIS
Infrastructure, environment, buildings

ARCADIS G&M of North Carolina, Inc.
801 Corporate Center Drive
Suite 300
Raleigh,
North Carolina 27607-5073
Tel 919 854 1282
Fax 919 854 5448
www.arcadis-us.com

ENVIRONMENTAL

Mr. J. Laurence Daw
Geophysicist/Licensed Geologist
The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension
Campus Box 1650
Chapel Hill, NC 27599-1650

Subject:
Monthly Monitoring Report (April 2010 to June 2010)
OWASA Permit Number 0010
The University of North Carolina at Chapel Hill, Airport Road Waste Disposal Area, Chapel Hill, North Carolina

Date:
6 July 2010

Contact:
Alan Pinnix

Phone:
277

E-mail:
alan.pinnix@arcadis-us.com

Dear Mr. Daw:

ARCADIS has prepared the April 2010 to June 2010 monitoring report for the Airport Road Waste Disposal Area located in Chapel Hill, North Carolina. This report is prepared in accordance with permit requirements for the discharge of treated groundwater at the above referenced site. As shown on the attached report (Table 1), the discharge did not exceed any maximum daily concentrations for the samples collected on April 19, 2010, May 24, 2010 or June 14, 2010.

The average daily flow rate was below the permitted average daily maximum during the period. Please feel free to contact me at (919) 854-1282 if you have any questions regarding this work.

Sincerely,

ARCADIS G&M of North Carolina, Inc.

A. Alan Pinnix, L.G.
Senior Scientist

ARCADIS

Table 1. Groundwater Discharge Monitoring Report for April-June 2010

The University of North Carolina at Chapel Hill
Department of Environment, Health & Safety
1120 Estes Drive Extension, CB #1650
Chapel Hill, North Carolina 27599-1650

OWASA Permit Number 0010

UNC Airport Road Waste Disposal Area
Chapel Hill, North Carolina

Discharge to Manhole # 47C4001

Parameter	Maximum Allowable Daily Value			
Date		4/19/2010	5/24/2010	6/14/2010
Average Flow (gallons per day)	43,200	25,748*	25,061**	14,821***
Temperature (degrees Celsius)	NA	NM	NM	NM
pH (Standard Units)	NA	NM	NM	NM
Benzene (micrograms per liter)	100	< 1.0	< 1.0	< 1.0
Chloroform (micrograms per liter)	100	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane (micrograms per liter)	71	1.7	8.4	3.4
Methylene Chloride (micrograms per liter)	930	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane (micrograms per liter)	30	< 1.0	< 1.0	< 1.0
Arsenic (micrograms per liter)	16	< 20	< 20	< 20
Chromium (micrograms per liter)	50	< 10	< 10	< 10
Copper (micrograms per liter)	60	23	< 20	< 20
Lead (micrograms per liter)	49	< 10	< 10	< 10
Zinc (micrograms per liter)	535	97	< 100	< 100
Mercury (nanograms per liter)	50	< 0.50	1.2	< 0.50

NOTE : Discharge initiated on 10/05/2006
< 1.0 Not detected above reporting limit.
NA Not applicable to the permit conditions.
NM Not Measured
* Flow reading based upon data collected between 3/13/2010 and 4/19/2010.
** Flow reading based upon data collected between 4/20/2010 and 5/24/2010.
*** Flow reading based upon data collected between 5/25/2010 and 6/14/2010.

I hereby certify that I have examined and am familiar with the information submitted in this document and that the information is true, accurate and complete.
I am aware that there are significant penalties for submitting false information.

7/7/2010
Date

Signature of Official

ARCADIS

Appendix B

Laboratory Analytical Data Reports
for Groundwater Samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-54137-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
1/22/2010 11:06 AM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
01/22/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY:

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatile Organic Compounds (GC/MS).	TAL SAV.	SW846 8260B.	
Purge and Trap.	TAL SAV.		SW846 5030B.
Metals (ICP).	TAL SAV.	SW846 6010C.	
Preparation, Total Recoverable or Dissolved Metals.	TAL SAV.		SW846 3005A.

Lab References:

TAL SAV = TestAmerica Savannah.

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its . Updates.

METHOD / ANAL9ST SUMMAR9

Client: ARCADIS U.S., Inc.1 Job Number: 680-54137-1

M:	Analyst9	Analyst9D:
SW846 8260B1	Lanier, Carolyn1	CL1
SW846 6010C1	Bland, Brian1	BCB1

SAMPLE SUMMARY2

Client: ARCADIS U.S., Inc.1 Job Number: 680-54137-1

Lab : ample2D2	Client2 ample2D2	Client2Ma:rix2	Da: /Time : ampled2	Da: /Time : Received2
680-54137-1U	entU	WaterU	01/11/2010 1640U	01/12/2010 0918U

Client: ARCADIS U.S., Inc.U

Job Number: 680-54137-1U

lient Sample ID:d **Effluentd**

Lab Sample ID:R 680-54137-1R

lient Matrix:R WaterR

Date Sampled: 01/11/2010 1640R

Date Received: 01/12/2010 0918R

8260B Volatile Organic Compounds (G: /MS):

ethod:R	8260BR	Analysis Batch: 680-158140R		Instrument ID:R	SPR
Preparation:R	5030BR			Lab File ID:R	p0160.dR
Dilution:R	1.0R			Initial Weight/Volume:R	5 mLR
Date Analyzed:R	01/12/2010 1855R			Final Weight/Volume:R	5 mLR
Date Prepared:R	01/12/2010 1855R				

Analyte	Result (ug/L)R	Qualifier	RLR
AcetoneR	25R	UR	25R
BenzeneR	1.0R	UR	1.0R
BromoformR	1.0R	UR	1.0R
BromomethaneR	1.0R	UR	1.0R
arbon disulfideR	2.0R	UR	2.0R
arbon tetrachlorideR	1.0R	UR	1.0R
hlorobenzeneR	1.0R	UR	1.0R
hlorodibromomethaneR	1.0R	UR	1.0R
hloroethaneR	1.0R	UR	1.0R
hloroformR	1.0R	UR	1.0R
hloromethaneR	1.0R	UR	1.0R
cis-1,2-DichloroetheneR	1.0R	UR	1.0R
cis-1,3-DichloropropeneR	1.0R	UR	1.0R
DichlorobromomethaneR	1.0R	UR	1.0R
1,1-DichloroethaneR	1.0R	UR	1.0R
1,2-DichloroethaneR	1.5R		1.0R
1,1-DichloroetheneR	1.0R	UR	1.0R
1,2-DichloropropaneR	1.0R	UR	1.0R
Diethyl etherR	130R	ER	10R
EthylbenzeneR	1.0R	UR	1.0R
2-HexanoneR	10R	UR	10R
ethylene ChlorideR	5.0R	UR	5.0R
2-Butanone (MEK)R	10R	UR	10R
4-Methyl-2-pentanone (MIBK)R	10R	UR	10R
StyreneR	1.0R	UR	1.0R
1,1,2,2-TetrachloroethaneR	1.0R	UR	1.0R
TetrachloroetheneR	1.0R	UR	1.0R
TolueneR	1.0R	UR	1.0R
rans-1,2-DichloroetheneR	1.0R	UR	1.0R
rans-1,3-DichloropropeneR	1.0R	UR	1.0R
1,1,1-TrichloroethaneR	1.0R	UR	1.0R
1,1,2-TrichloroethaneR	1.0R	UR	1.0R
TrichloroetheneR	1.0R	UR	1.0R
Vinyl chlorideR	1.0R	UR	1.0R
Xylenes, TotalR	2.0R	UR	2.0R

SurrogateR	%RecR	QualifierR	Acceptance Limits
4-BromofluorobenzeneR	86R		75 - 120R
DibromofluoromethaneR	108R		75 - 121R
Toluene-d8 (Surr)R	96R		75 - 120R

lient: ARCADIS U.S., Inc.R

Job Number: 680-54137-1R

lient Sample ID:d **Effluentd**

Lab Sample ID:R 680-54137-1R
lient Matrix:R WaterR

Date Sampled: 01/11/2010 1640R
Date Received: 01/12/2010 0918R

8260B Volatile Organic Compounds (G: /MS):

ethod:R	8260BR	Analysis Batch: 680-158181R		Instrument ID:R	SPR
Preparation:R	5030BR			Lab File ID:R	p0174.dR
Dilution:R	2.0R			Initial Weight/Volume:R	5 mLR
Date Analyzed:R	01/13/2010 1650R	un Type:R DLR		Final Weight/Volume:R	5 mL
Date Prepared:R	01/13/2010 1650R				

Analyte	Result (ug/L)R	Qualifier	RLR
AcetoneR	50R	UR	50R
BenzeneR	2.0R	UR	2.0R
BromoformR	2.0R	UR	2.0R
BromomethaneR	2.0R	UR	2.0R
arbon disulfideR	4.0R	UR	4.0R
arbon tetrachlorideR	2.0R	UR	2.0R
hlorobenzeneR	2.0R	UR	2.0R
hlorodibromomethaneR	2.0R	UR	2.0R
hloroethaneR	2.0R	UR	2.0R
hloroformR	2.0R	UR	2.0R
hloromethaneR	2.0R	UR	2.0R
cis-1,2-DichloroetheneR	2.0R	UR	2.0R
cis-1,3-DichloropropeneR	2.0R	UR	2.0R
DichlorobromomethaneR	2.0R	UR	2.0R
1,1-DichloroethaneR	2.0R	UR	2.0R
1,2-DichloroethaneR	2.0R	UR	2.0R
1,1-DichloroetheneR	2.0R	UR	2.0R
1,2-DichloropropaneR	2.0R	UR	2.0R
Diethyl etherR	120R	DR	20R
EthylbenzeneR	2.0R	UR	2.0R
2-HexanoneR	20R	UR	20R
ethylene ChlorideR	10R	UR	10R
2-Butanone (MEK)R	20R	UR	20R
4-Methyl-2-pentanone (MIBK)R	20R	UR	20R
StyreneR	2.0R	UR	2.0R
1,1,2,2-TetrachloroethaneR	2.0R	UR	2.0R
TetrachloroetheneR	2.0R	UR	2.0R
TolueneR	2.0R	UR	2.0R
rans-1,2-DichloroetheneR	2.0R	UR	2.0R
rans-1,3-DichloropropeneR	2.0R	UR	2.0R
1,1,1-TrichloroethaneR	2.0R	UR	2.0R
1,1,2-TrichloroethaneR	2.0R	UR	2.0R
TrichloroetheneR	2.0R	UR	2.0R
Vinyl chlorideR	2.0R	UR	2.0R
Xylenes, TotalR	4.0R	UR	4.0R

SurrogateR	%RecR	QualifierR	Acceptance Limits
4-BromofluorobenzeneR	84R		75 - 120R
DibromofluoromethaneR	108R		75 - 121R
Toluene-d8 (Surr)R	96R		75 - 120R

lient: ARCADIS U.S., Inc.R

Job Number: 680-54137-1R

lient Sample ID:d **Effluentd**

Lab Sample ID:R 680-54137-1R

lient Matrix:R WaterR

Date Sampled: 01/11/2010 1640R

Date Received: 01/12/2010 0918R

6010C M:tals (ICdP)-Total R o v:ra bled

ethod:R	6010CR	Analysis Batch: 680-158713R		Instrument ID:R	ICPDR
Preparation:R	3005AR	Prep Batch: 680-158248R		Lab File ID:R	N/AR
Dilution:R	1.0R			Initial Weight/Volume:R	50 mLR
Date Analyzed:R	01/19/2010 1832R			Final Weight/Volume:R	50 mLR
Date Prepared:R	01/14/2010 1128R				

Analyte	esult (ug/L)R	Qualifier	LR
ArsenicR	20R	UR	20R
hromiumR	10R	UR	10R
opperR	20R	UR	20R
LeadR	10R	UR	10R
Z. cR	20R	UR	20R

DATA REPORT: QUALIFIERSh

lient: ARCADIS U.S., Inc.R Job Number: 680-54137-1R

Lab Sectionh	u alifierh	Descriptionh
GC/MS VOAx		
	Ux	cates the analyte was analyzed for but not detected.x
	Ex	Result exceeded calibration range.x
	Dx	Surrogate or matrix spike recoveries were not obtained x because the extract was diluted for analysis; also compounds x analyzed at a dilution may be flagged with a D.x
Metalsx		
	Ux	cates the analyte was analyzed for but not detected.x

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Method Blank - Batch: 680-158140P **Method: 8260B**
reparation: 5030BP

Lab Sample ID:. MB 680-158140/16.
Client Matrixx Water.
Dilution:. 1.0.
Date Analyzede 01/1./2e010 143.
Date . pae de 01/1./2e010 143.

Analysie Batche 680-158140.
p BatcheN/A.
Unit. u./Le

In. trument ID:. GC/MS Volatile. - .
Lab . ile ID:. pq1. 7.de
Initial Wei.h t/Volume:. 5 mLe
inal Wei.h t/Volume:. 5 mLe

Analyte.	Re. ult.	Qual.	RLe
Acetone.	5.	U.	5.
Ben zene.	1.0.	U.	1.0.
Beomoform.	1.0.	U.	1.0.
Beomomethane	1.0.	U.	1.0.
Caebon di. ulfide	0.	U	.0.
Caebon tetrachloride	1.0.	U.	1.0.
Chlorobenzene.	1.0.	U.	1.0.
Chlorodibromomethane.	1.0.	U.	1.0.
Chloroethane.	1.0.	U.	1.0.
Chloroform.	1.0.	U.	1.0.
Chloromethane.	1.0.	U.	1.0.
ci. -1,. -Dichloroethene.	1.0.	U.	1.0.
ci. -1,3-Dichloropeopene.	1.0.	U.	1.0.
Dichlorobromomethane.	1.0.	U.	1.0.
1,1-Dichloroethane.	1.0.	U.	1.0.
1,. -Dichloroethane.	1.0.	U.	1.0.
1,1-Dichloroethene.	1.0.	U.	1.0.
1,. -Dichloropeopane.	1.0.	U.	1.0.
Diethyl ethe	10.	U.	10.
Ethylbenzene.	1.0.	U.	1.0.
-Hexanone.	10.	U.	10.
Met hylene Chloride	5.0.	U.	5.0.
-Butanone (MEK)e	10.	U.	10.
4-Met hyl-. -pent anone (MIBK)e	10.	U.	10.
Styene.	1.0.	U.	1.0.
1,1,. ,. -Tetrachloroethane.	1.0.	U.	1.0.
Tetrachloroethene.	1.0.	U.	1.0.
Toluene.	1.0.	U.	1.0.
tran. -1,. -Dichloroethene.	1.0.	U.	1.0.
tran. -1,3-Dichloropeopene.	1.0.	U.	1.0.
1,1,1-Trichloroethane.	1.0.	U.	1.0.
1,1,. -Trichloroethane.	1.0.	U.	1.0.
Trichloroethene.	1.0.	U.	1.0.
Vinyl chlorid	1.0.	U.	1.0.
Xylene. , Total.	0.	U	.0.

Surro.a te.	% Rec.	Acceptance Limit.
4-Beomofluorobenzene.	7.	75 - 1. 0.
Dibromofluoromethane.	109e	75 - 1. 1.
Toluene-de (Surr)e	9e	75 - 1. 0.

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Lab Control Sample/P **Method: 8260BP**
Lab Control Sample Duplicate Recovery Report - Batch: 680-158140 **reparation: 5030BP**

LCS Lab Sample ID:.	LCS 680-158140/13.	Analyse Batche 680-158140.	In. trument ID:. GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.	Lab . ile ID:. pq1. 3.de
Dilution:.	1.0.	Unit. u./Le	Initial Wei.h t/Volume:. 5 mLe
Date Analyzede	01/1./2e010 1303.		inal Wei.h t/Volume:. 5 mLe
Date . pae de	01/1./2e010 1303.		

LCSD Lab Sample ID:.	LCSD 680-158140/14.	Analyse Batche 680-158140.	In. trument ID:. GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.	Lab . ile ID:. pq1. 4.de
Dilution:.	1.0.	Unit. u./Le	Initial Wei.h t/Volume:. 5 mLe
Date Analyzede	01/1./2e010 13. 7.		inal Wei.h t/Volume:. 5 mLe
Date . pae de	01/1./2e010 13. 7.		

	% Rec.					
Analyte.	LCS.	LCSD.	Limit.	R. D.	R. D Limit.	LCS Qual. LCSD Qual.
Acetone.	101.	105.	17 - 175.	4.	50.	
Ben zene.	103.	104.	77 - 119e	1	30	.
Beomoform.	11.	108.	- 133.	3.	30.	
Beomomethane.	133.	145.	1. - 184.	9e	50.	
Caebon di. ulfide	7.		55 - 131.	1.	30.	
Caebon tetrachloride	1. 0.	1. 4.	71 - 135.	3.	30.	
Chlorobenzene.	108.	106.	5 - 116.	3.	30.	
Chlorodibromomethane.	107.	105.	75 - 133.		30.	
Chloroethane.	1.9e	13.	40 - 165.	3.	50.	
Chloroform.	114.	114.	- 1. 0	1 .	30 .	
Chloromethane.	114.	116.	48 - 14.		50.	
ci. -1,. -Dichloroethene.	104.	103.	9 - 134.	1.	30.	
ci. -1,3-Dichloropeopene.	103.	10.	76 - 1.	1 .	30 .	
Dichlorobromomethane.	10.	101.	78 - 1. 7	1 .	30 .	
1,1-Dichloroethane.	106.	105.	74 - 1. 7	0 .	30 .	
1,. -Dichloroethane.	97.	97.	- 13.	1	30	.
1,1-Dichloroethene.	108.	107.	- 141.	1.	30.	
1,. -Dichloropeopane.	99e	99e	73 - 1. 4	0 .	30 .	
Ethylbenzene.	113.	110.	- 116.	3.	30.	
-Hexanone.	100.	97.	34 - 161.	3.	30.	
Met hylene Chloride	107.	111.	70 - 1. 5	3 .	30 .	
-Butanone (MEK)e	91.	93.	33 - 157.	3.	30.	
4-Met hyl-. -pent anone (MIBK)e	4.	7.	40 - 151.	3.	30.	
Styene.	110.	109e	- 1.	1	30	.
1,1,. ,. -Tetrachloroethane.	906.		9 - 1.9e	4	30	.
Tetrachloroethene.	104.	103.	76 - 1.	1 .	30 .	
Toluene.	10.	10.	1 - 117.	1.	30.	
tran. -1,. -Dichloroethene.	105.	106.	7. - 131.	1.	30.	
tran. -1,3-Dichloropeopene.	10.	10.	73 - 1.	1 .	30 .	
1,1,1-Trichloroethane.	100.	101.	76 - 1. 7	1 .	30 .	
1,1,. -Trichloroethane.	91.	91.	75 - 1. 1	0 .	30 .	
Trichloroethene.	104.	106.	4 - 115.		30.	

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Lab Control Sample/P **Method: 8260BP**
Lab Control Sample Duplicate Recovery Report - Batch: 680-158140 **reparation: 5030BP**

LCS Lab Sample ID:.	LCS 680-158140/13.	Analyse Batche	680-158140.	In. trument ID:.	GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.		Lab . ile ID:.	pq1. 3.de
Dilution:.	1.0.	Unit.	u./Le	Initial Wei.h t/Volume:.	5 mLe
Date Analyzede	01/1./2e010 1303.			inal Wei.h t/Volume:.	5 mLe
Date . pae de	01/1./2e010 1303.				

LCSD Lab Sample ID:.	LCSD 680-158140/14.	Analyse Batche	680-158140.	In. trument ID:.	GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.		Lab . ile ID:.	pq1. 4.de
Dilution:.	1.0.	Unit.	u./Le	Initial Wei.h t/Volume:.	5 mLe
Date Analyzede	01/1./2e010 13. 7.			inal Wei.h t/Volume:.	5 mLe
Date . pae de	01/1./2e010 13. 7.				

	% Rec.					
Analyte.	LCS.	LCSD.	Limit.	R. D.	R. D Limit.	LCS Qual.	LCSD Qual.
Vinyl chloride	103.	104.	59 - 144.		50.		
Xylene. , Total.	111.	109e	4 - 118.		30.		

Surro.a te.	LCS % Rec.	LCSD % Rec.	Acceptance Limit.
4-Be omofluorobenzene.	97.	95.	75 - 1. 0.
Dibromofluoromethane.	104.	105.	75 - 1. 1.
Toluene-de (Surr)	e9	100. e	75 - 1. 0.

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Method Blank - Batch: 680-158181P **Method: 8260B**
reparation: 5030BP

Lab Sample ID:. MB 680-158181/e
Client Matrixe Water.
Dilution:. 1.0.
Date Analyzede 01/13/2010 1. 10.
Date . pae de 01/13/2010 1. 10.

Analysie Batche 680-158181.
p BatcheN/A.
Unit. u./Le

In. trument ID:. GC/MS Volatile. - .
Lab . ile ID:. pq134.de
Initial Wei.h t/Volume:. 5 mLe
inal Wei.h t/Volume:. 5 mLe

Analyte.	Re. ult.	Qual.	RLe
Acetone.	5.	U.	5.
Ben zene.	1.0.	U.	1.0.
Beomoform.	1.0.	U.	1.0.
Beomomethane	1.0.	U.	1.0.
Caebon di. ulfide	0.	U	.0.
Caebon tetrachloride	1.0.	U.	1.0.
Chlorobenzene.	1.0.	U.	1.0.
Chlorodibromomethane.	1.0.	U.	1.0.
Chloroethane.	1.0.	U.	1.0.
Chloroform.	1.0.	U.	1.0.
Chloromethane.	1.0.	U.	1.0.
ci. -1,. -Dichloroethene.	1.0.	U.	1.0.
ci. -1,3-Dichloropeopene.	1.0.	U.	1.0.
Dichlorobromomethane.	1.0.	U.	1.0.
1,1-Dichloroethane.	1.0.	U.	1.0.
1,. -Dichloroethane.	1.0.	U.	1.0.
1,1-Dichloroethene.	1.0.	U.	1.0.
1,. -Dichloropeopane.	1.0.	U.	1.0.
Diethyl ethe	10.	U.	10.
Ethylbenzene.	1.0.	U.	1.0.
-Hexanone.	10.	U.	10.
Met hylene Chloride	5.0.	U.	5.0.
-Butanone (MEK)e	10.	U.	10.
4-Met hyl-. -pent anone (MIBK)e	10.	U.	10.
Styene.	1.0.	U.	1.0.
1,1,. ,. -Tetrachloroethane.	1.0.	U.	1.0.
Tetrachloroethene.	1.0.	U.	1.0.
Toluene.	1.0.	U.	1.0.
tran. -1,. -Dichloroethene.	1.0.	U.	1.0.
tran. -1,3-Dichloropeopene.	1.0.	U.	1.0.
1,1,1-Trichloroethane.	1.0.	U.	1.0.
1,1,. -Trichloroethane.	1.0.	U.	1.0.
Trichloroethene.	1.0.	U.	1.0.
Vinyl chlorid	1.0.	U.	1.0.
Xylene. , Total.	0.	U	.0.

Surro.a te.	% Rec.	Acceptance Limit.
4-Beomofluorobenzene.	7.	75 - 1. 0.
Dibromofluoromethane.	108.	75 - 1. 1.
Toluene-de (Surr)e	97.	75 - 1. 0.

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Lab Control Sample/P **Method: 8260B**
Lab Control Sample Duplicate Recovery Report - Batch: 680-158181P **eparation: 5030BP**

LCS Lab Sample ID:.	LCS 680-158181/5.	Analyse Batche	680-158181.	In. trument ID:.	GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.		Lab . ile ID:.	pq130.de
Dilution:.	1.0.	Unit.	u./Le	Initial Wei.h t/Volume:.	5 mLe
Date Analyzede	01/13/2e10 1037.			inal Wei.h t/Volume:.	5 mLe
Date . pae de	01/13/2e10 1037.				

LCSD Lab Sample ID:.	LCSD 680-158181/e	Analyse Batche	680-158181.	In. trument ID:.	GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.		Lab . ile ID:.	pq131.de
Dilution:.	1.0.	Unit.	u./Le	Initial Wei.h t/Volume:.	5 mLe
Date Analyzede	01/13/2e10 1058.			inal Wei.h t/Volume:.	5 mLe
Date . pae de	01/13/2e10 1058.				

	% Rec.						
Analyte.	LCS.	LCSD.	Limit.	R. D.	R. D Limit.	LCS Qual.	LCSD Qual.
Acetone.	103.	103.	17 - 175.	0.	50.		
Ben zene.	104.	104.	77 - 119e	1	30	.	
Beomoform.	105.	101.	- 133.	4.	30.		
Beomomethane.	136.	146.	1. - 184.	7.	50.		
Caebon di. ulfide	5.		55 - 131.	3.	30.		
Caebon tetrachloride	117.	116.	71 - 135.	1.	30.		
Chlorobenzene.	107.	106.	5 - 116.	1.	30.		
Chlorodibromomethane.	104.	10.	75 - 133.	1.	30.		
Chloroethane.	1. 4.	1. 5.	40 - 165.	1.	50.		
Chloroform.	111.	115.	- 1. 0	3 .	30 .		
Chloromethane.	11.	110.	48 - 14.		50.		
ci. -1,. -Dichloroethene.	103.	106.	9 - 134.	3.	30.		
ci. -1,3-Dichloropeopene.	101.	100.	76 - 1.	1 .	30 .		
Dichlorobromomethane.	99e	100.	78 - 1. 7	1 .	30 .		
1,1-Dichloroethane.	10.	106.	74 - 1. 7	4 .	30 .		
1,. -Dichloroethane.	9e	9e	- 13.	0	30	.	
1,1-Dichloroethene.	10.	109e	- 141.		30.		
1,. -Dichloropeopane.	9e	100.	73 - 1. 4.		30.		
Ethylbenzene.	113.	11.	- 116.	1.	30.		
-Hexanone.	9e	97.	34 - 161.	1.	30.		
Met hylene Chloride	107.	108.	70 - 1. 5	1 .	30 .		
-Butanone (MEK)e	91.	97.	33 - 157.	7.	30.		
4-Met hyl-. -pent anone (MIBK)e	5.	5.	40 - 151.	1.	30.		
Styene.	110.	109e	- 1.	0	30	.	
1,1,. ,. -Tetrachloroethane.	7.	7.	9 - 1.9e	0	30	.	
Tetrachloroethene.	105.	104.	76 - 1.	1 .	30 .		
Toluene.	101.	99e	1 - 117.		30.		
tran. -1,. -Dichloroethene.	10.	105.	7. - 131.	3.	30.		
tran. -1,3-Dichloropeopene.	10.	99e	73 - 1.	3 .	30 .		
1,1,1-Trichloroethane.	99e	99e	76 - 1. 7	0 .	30 .		
1,1,. -Trichloroethane.	91.	7.	75 - 1. 1	4 .	30 .		
Trichloroethene.	103.	103.	4 - 115.	0.	30.		

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Lab Control Sample/P **Method: 8260BP**
Lab Control Sample Duplicate Recovery Report - Batch: 680-158181 **reparation: 5030BP**

LCS Lab Sample ID:.	LCS 680-158181/5.	Analyse Batche	680-158181.	In. trument ID:.	GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.		Lab . ile ID:.	pq130.de
Dilution:.	1.0.	Unit.	u./Le	Initial Wei.h t/Volume:.	5 mLe
Date Analyzede	01/13/2e10 1037.			inal Wei.h t/Volume:.	5 mLe
Date . pae de	01/13/2e10 1037.				

LCSD Lab Sample ID:.	LCSD 680-158181/e	Analyse Batche	680-158181.	In. trument ID:.	GC/MS Volatile. - .
Client Matrixe	Water.	p BatcheN/A.		Lab . ile ID:.	pq131.de
Dilution:.	1.0.	Unit.	u./Le	Initial Wei.h t/Volume:.	5 mLe
Date Analyzede	01/13/2e10 1058.			inal Wei.h t/Volume:.	5 mLe
Date . pae de	01/13/2e10 1058.				

	% Rec.					
Analyte.	LCS.	LCSD.	Limit.	R. D.	R. D Limit.	LCS Qual.	LCSD Qual.
Vinyl chloride	99e	101.	59 - 144.		50.		
Xylene. , Total.	109e	109e	4 - 118.	0.	30.		

Surro.a te.	LCS % Rec.	LCSD % Rec.	Acceptance Limit.
4-Be omofluorobenzene.	9e	9e	75 - 1. 0.
Dibromofluoromethane.	10.	106.	75 - 1. 1.
Toluene-de (Surr)	e9	97.	e 75 - 1. 0.

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.

Client: ARCADIS U.S., Inc. Job Number: 680-54137-1.

Method Blank - Batch: 680-158248P

Method: 6010C
reparation: 3005AP
Total RecoverableP

Lab Sample ID:. MB 680-158. 48/14-A.
Client Matrixe Water.
Dilution:. 1.0.
Date Analyzede 01/19/2010 1605.
Date . pae de 01/14/2010 11.

Analysie Batche 680-158713.
p Batche 680-158. 48.
Unit. u./Le

In. trument ID:. IC./ AES - D.
Lab . ile ID:. N/A.
Initial Wei.h t/Volume:. 50 mLe
inal Wei.h t/Volume:. 50 mLe

Analyte.	Re. ult.	Qual.	RLe
A. nic.	0.	U.	0.
Cheomium.	10.	U.	10.
Coppe	0.	U.	0.
Leade	10.	U.	10.
Zinc.	0.	U.	0.

Lab Control Sample - Batch: 680-158248P

Method: 6010C
reparation: 3005AP
Total RecoverableP

Lab Sample ID:. LCS 680-158. 48/15-A.
Client Matrixe Water.
Dilution:. 1.0.
Date Analyzede 01/19/2010 1609e
Date . pae de 01/14/2010 11.

Analysie Batche 680-158713.
p Batche 680-158. 48.
Unit. u./Le

In. trument ID:. IC./ AES - D.
Lab . ile ID:. N/A.
Initial Wei.h t/Volume:. 50 mLe
inal Wei.h t/Volume:. 50 mLe

Analyte.	Spike Amount.	Re. ult.	% Rec.	Limit.	Qual.
Ar. nic.	000.	000.	100.	75 - 1. 5.	
Cheomium.	00.	05.	10.	75 - 1. 5.	
Coppe	50.	46.	9e	75 - 1. 5.	
Leade	500.	509e	10.	75 - 1. 5.	
Zinc.	500.	507.	101.	75 - 1. 5.	

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.

Serial Number 026337

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
UNC - Airport Road	NC000239.0018.00001	NC
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com	
CLIENT ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260)	REQUIRED ANALYSIS: Metals (6010)*								REMARKS
								HCl	HNO_3 PRESERVATIVE								
								NUMBER OF CONTAINERS SUBMITTED									
11/10	1640	Effluent		X				3	1								*Please report:

Page 16 of 17

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	1/11/10	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	1/12/10	0918	YES ○ NO ○		680-54137	2.4°C

TAL8240-680 (1207)

Login Sample Receipt Check ListT

Client: ARCADIS U.S., Inc.e

Job Number: 680-54137-1e

Login Number: 54137T

List Source: TestAmerica SavannahT

Creator: Conner, KeatonT

List Number: 1T

Question	T / F/ NAT	CommentT
Radioactivity either was not measured or, if measured, is at or below S backgroundS	N/AS	
The cooler's custody seal, if present, is intact.S	TrueS	
The cooler or samples do not appear to have been compromised or S tampered with.S	True	
amples were received on ice.S	TrueS	
Cooler Temperature is acceptable.S	TrueS	
Cooler Temperature is recorded.S	TrueS	
COC is present.S	TrueS	
COC is filled out in ink and legible.S	TrueS	
COC is filled out with all pertinent information.S	TrueS	
There are no discrepancies between the sample IDs on the containers and S the COC.S	True	
amples are received within Holding Time.S	True	
Sample containers have legible labels.S	TrueS	
Containers are not broken or leaking.S	True	
Sample collection date/times are provided.S	TrueS	
Appropriate sample containers are used.S	True	
Sample bottles are completely filled.S	TrueS	
There is sufficient vol. for all requested analyses, incl. any requested S MS/MSDsS	TrueS	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in S diameter.S	TrueS	
If necessary, staff have been informed of any short hold time or quick TAT S needsS	TrueS	
Multiphasic samples are not present.S	N/A	
Samples do not require splitting or compositing.S	N/AS	
Is the Field Sampler's name present on COC?S	True	
Sample Preservation VerifiedS	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

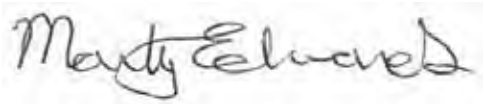
ANALYTICAL REPORT

Job Number: 400-44939-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
1/14/2010 5:21 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
01/14/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page.

TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250507), New Jersey (FL006), North Carolina (314), North Dakota (R-108), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

Job Narrativem
00-44939-1m

Commentsm
No additional cb. nts. k

Receipt m
All samples were received in good cbndition within temperature requirements.k

Metals m
Method 1631E: The matrix spike / matrix spike duplicate (MS/MSD) recbveries for batch 400-102262\400-102290 were outside cbntro. k
imits. The assb.iated lab oratory cbntro. sample (LCS) recbvery met acceptance criteria. Data was flagged and reported as is.k

No other analytical or quality issues were noted.k

METHOD SUMMARY:

CliF .RCADIS U.S., Inc.F Job Number: 400-44939-1F

Description:	Lab Location:	Method:	Preparation Method:
Matrix:m Water:			
MF cury, Low LFvF (CVAFS)F	TAL PEN.	EPAF1631EF	
PF paFatiF., MF cury, Low LFvF	TAL PEN.		EPAF1631EF

Lab References:m

TAL PEN = TFstAFner.ca PF sac o.aF

Method References:m

EPAF= US EnviFo. me. alFPFo. ctiF. .gF cyF

METHOD / A9 AL9 ST SUMMAR9

Client: ARCADIS U.S., Inc.S

Job NumbeF: 400-44939-1x

M: th	Analysth	Analyst ID:
EPA 1631E4	Jones, Randy	RJ

AMPLE :U MMARY2

ient: ARCADIS U.S., Inc.4 Job Number: 400-4 939-14

Lab : ample ID2	li2P : ample ID2	li2P Ma:rTx2	Da:e/Time : ampled2	Da:e/Time : ReceRved2
1TB.	EFFLUENT.	Water.	01/11/2010 16404	01/12/2010 1015.

Test2AmerTca PeRs acola:

SAMPLEc Sc LTSc

Client: ARCADIS U.S., Inc. Job Number: 400-44939-1.

licnt SamplP ID:d **EFFLUENTa**

Lab Sample ID:. 400-44939-1TBM Date Sampled: 01/11/2010 1640M
Client Matrix:M terM Date Received: 01/12/2010 1015M

1631E Mercury, Low Lea:l (CVAFS)

Method:M	631EM	Analysis Batch: 400-102290M		Instrument ID:M	HYDRAM
Preparation:M	631EM	Prep Batch: 400-102262M		Lab File ID:M	N/AM
Dilution:M	.0M			Initial Weight/Volume:M	40 mLM
Date Analyzed:M	01/14/2010 1312M			Final Weight/Volume:M	40 mLM
Date Prepared:M	01/13/2010 1530M				

AnalyteM	Result (ng/L)M	QualifierM	RLM
ercuryM	<0.50M		0.50

QUALITY CONTROL RESULTSp

Client: ARCADIS U.S., Inc.M

Job Number: 400-44939-1M

QC Associatioa Summary-

Lab Sample ID-	Client Sample ID-	Report-Basis-	Client Matrix-	Method-	Prep Batch-
Metals-					
Prep Batch- 400-102262-					
LCS 400-102262/22-Ah	Lab Control SampleM	Th	W.terM	631Eh	
LCSD 400-102262/23-Ah	Lab Control Sample Duplicateh	Th	Waterh	1631Eh	
MB 400-102262/21-Ah	Method.Blankh	Th	Waterh	1631Eh	
939-1TBh	EFFLUENTh	Th	Waterh	1631Eh	
Analysis Batch-400-102290-					
LCS 400-102262/22-Ah	Lab Control Sampleh	Th	Waterh	1631Eh	102262h
LCSD 400-102262/23-Ah	Lab Control Sample Duplicateh	Th	Waterh	1631Eh	102262h
MB 400-102262/21-Ah	Method.Blankh	Th	Waterh	1631Eh	102262h
939-1TBh	EFFLUENTh	Th	Waterh	1631Eh	102262h

Report Basis-

T = Totalh

Clh .RCADIS U.S., Inc.F Job Number: 400-44939-1h

MR hodRBRankoRBatch:c400-102262p **MR hod:c1631Ep**
Pre- aration:c1631Ep

Lab SamplB IDB 400-102262/21-AB
CliBnt MatBxB WatB
DilutionB
DatB AnalyzBdB /14/2010B .911B
DatB PB paB dB /13/2010B .300B

Analysis BatchB 400-102290B
PB p BatchB 400-102262B
Units:. ng/LB

InstBument IDB ATOMIC FLUORESCENCE .
Lab FilB IDB N/AB
Initial WBight/Volume:. 40B mLB
Final WBight/Volume:. 40B mLB

AnalytB	RBsu ltB	QualB	RLB
curyB	<0.50B		50B

LabpControl Samp /p
LabpControl Samp Du- icate Recov:ry Re- ort -RBatch:c400-102262p **MR hod:c1631Ep**
Pre- aration:c1631Ep

LCS Lab SamplB IDB LCS 400-102262/22-AB
CliBnt MatBxB WatB
DilutionB
DatB AnalyzBdB /14/2010B .919B
DatB PB paB dB /13/2010B .300B

Analysis BatchB 400-102290B
PB p BatchB 400-102262B
Units:. ng/LB

InstBument IDB ATOMIC FLUORESCENCE .
Lab FilB IDB N/AB
Initial WBight/Volume:. 40B mLB
Final WBight/Volume:. 40B mLB

LCSD Lab SamplB IDB LCSD 400-102262/23-AB
CliBnt MatBxB WatB
DilutionB
DatB AnalyzBdB /14/2010B .927
DatB PB paB dB /13/2010B .300B

Analysis BatchB 400-102290B
PB p BatchB 400-102262B
Units:. ng/LB

InstBument IDB ATOMIC FLUORESCENCE .
Lab FilB IDB N/AB
Initial WBight/Volume:. 40B mLB
Final WBight/Volume:. 40B mLB

	% RBc.B						
AnalytB	LCSB	LCSDB	LimitB	RPDB	RPD LimitB	LCS QualB	LCSD QualB
curyB	96B	96B	79 - .21B		2B		

Calculations aB pB formed before rounding to avoid round-off errors in calculatBd results.

DATA RhPORT: m ALIña RSh

Lab Sectionp	u alifiera	Descriptionp

400-44939

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name NC000239.0018.00001

Project Location UNC - Airport Road

Laboratory Test America (Pensacola)

Project Manager Alan Pinnix

Sampler(s)/Affiliation Dave Twamley

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Low Level Mercury (1631 E)						Remarks	Total
Effluent	L	1/11/10, 1640		3							
										Total No. of Bottles/ Containers	

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: David Twamley	Organization: Arcadis	Date 1/11/09	Time 1730	Seal Intact?		
Received by:	Organization: TA-Pen	Date 1/12/10	Time 10:15	Yes	No	N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?		
Received by:	Organization:	Date / /	Time	Yes	No	N/A

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

0.2°C

AG 05-12/01

Login SampIT R- cTipt ChTck ListT

Client: ARCADIS U.S., Inc.M

Job Number: B 9 39-1h

Login NumbTr: 44939b

List Source: TestAmerica Pensacolab

Creator: Hor, Komab

List Number: 1b

Questionb	/ F/ NAb	Commentb
Radioactivity either was not measured or, if measured, is at or below C backg.oundC	N/AC	
The cooler's custody seal, if present, is intact.C	N/AC	
The cooler or samples do not appear to have been compromised or C tampered with.C	TrueC	
Samples were received on ice.C	True	
Cooler Temperature is acceptable.C	True	
Cooler Temperature is recorded.C	TrueC	0.2°C
OC is present.C	True	
COC is filled out in ink and legible.C	True	
COC is filled out with all pertinent information.C	TrueC	
There are no discrepancies between the sample IDs on the containers and C the COC.C	TrueC	
Samples are received within Holding.Time.C	TrueC	
Sample containers have legible labels.C	True	
Containers are not broken or leaking.C	TrueC	
Sample collection date/times are provided.C	TrueC	
Appropriate sample containers are used.C	TrueC	
Sample bottles are completely filled.C	TrueC	
There is sufficient vol. for all requested analyses, incl. any requested C MS/MSDsC	TrueC	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in C diameter.C	N/AC	
If necessary, staff have been informed of any short hold time or quick TAT C needsC	TrueC	
Multiphasic samples are not present.C	TrueC	
Samples do not require splitting.or compositing.C	TrueC	
Is the Field Sampler's name present on COC?C	TrueC	
Sample Preservation VerifiedC	TrueC	

ANALYTICAL REPORT

Job Number: 680-55031-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
2/22/2010 2:06 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
02/22/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

METHOD SUMMARY:

CliTntTARCADIST , .nc.T Job Number: 680-55031-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
VolatilT OTganic Compounds (GC/MS)	AL .AVT	WT 4T8.2T0 BT	
PurgT and . apT	AL .AVT		WT 4T50 30B
MTtals (ICP)	AL .AVT	WT 4T6010 CT	
PT paTation, . otal RTcovT ablTor . iss olvTd MTtalsT	AL .AVT		WT 4T 3005A

Lab References:

AL .AV = . stAmerica .avannahT

Method References:

WT 4T = "T st MTthods For Evaluating . olid WastT, Physical/ChTm ical MTthods", ThiTd Edition, NovTmber 1 9T And .ts . pdatT s.T

METHOD / ANAL9ST SUMMAR9

Client: ARCADIS U.S., Inc.T Job NumbeT: 680-55031-1.

M: thb	Analystb	Analyst ID:
SW846 8260B.	Bearden, Robert.	B.
SW846 6010C.	Bland, Brian.	BCB.

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 680-55031-1.

Lab Sample ID	Client Sample ID	Client Matrix	Date / Time Sampled	Date / Time Received
680-55031-1	Effluent	Water	02/10/2010 1600	02/12/2010 0933

Client: ARCADIS U.S., Inc.b Job Number: 680-55031-1b

Cient-Sampe ID:d Effuent-

Lab Sample ID:b 680-55031-1o Date Sampled: 02/10/2010 1600o
Client Matrix:o ero Date Received: 02/12/2010 0933o

8260Bd Vocatie Organic Compounas (GC/MS):

Method:o	8260Bo	Analysis Batch: 680-161019o	Instrument ID:	MSOo
Preparation:o	5030Bo		Lab File ID:o	0245.do
Dilution:o	2.0o		Initial Weight/Volume:o	5 mLo
Date Analyzed:o	02/16/2010 1655o		Final Weight/Volume:o	5 mLo
Date Prepared:o	02/16/2010 1655o			

Analyteo	Result (ug/L)o	Qualifiero	RLo
Acetoneo	50o	Uo	50o
Benzeneo	2.0o	Uo	2.0o
Bromoformo	2.0o	Uo	2.0o
Bromomethaneo	2.0o	Uo	2.0o
Carbon disulfideo	4.0o	Uo	4.0o
Carbon tetrachlorideo	2.0o	Uo	2.0o
Chlorobenzeneo	2.0o	Uo	2.0o
Chlorodibromomethaneo	2.0o	Uo	2.0o
Chloroethaneo	2.0o	Uo	2.0o
Chloroformo	2.0o	Uo	2.0o
Chloromethaneo	2.0o	Uo	2.0o
cis-1,2-Dichloroetheneo	2.0o	Uo	2.0o
cis-1,3-Dichloropropeneo	2.0o	Uo	2.0o
Dichlorobromomethaneo	2.0o	Uo	2.0o
,1-Dichloroethaneo	2.0o	Uo	2.0o
,2-Dichloroethaneo	2.0o	Uo	2.0o
,1-Dichloroetheneo	2.0o	Uo	2.0o
,2-Dichloropropaneo	2.0o	Uo	2.0o
Diethyl ethero	0o		20o
Ethylbenzeneo	.8o		2.0o
2-Hexanoneo	20o	Uo	20o
Methylene Chlorideo	0o	Uo	0o
2-Butanone (MEK)o	20o	Uo	20o
4-Methyl-2-pentanone (MIBK)o	20o	Uo	20o
Styreneo	2.0o	U *o	2.0o
,1,2,2-Tetrachloroethaneo	2.0o	Uo	2.0o
Tetrachloroetheneo	2.0o	Uo	2.0o
Tolueneo	2.2o		2.0o
rans-1,2-Dichloroetheneo	2.0o	Uo	2.0o
rans-1,3-Dichloropropeneo	2.0o	Uo	2.0o
,1,1-Trichloroethaneo	2.0o	Uo	2.0o
,1,2-Trichloroethaneo	2.0o	Uo	2.0o
Trichloroetheneo	2.0o	Uo	2.0o
Vinyl chlorideo	2.0o	Uo	2.0o
Xylenes, Totalo	9o		4.0o

Surrogateo	%Reco	Qualifiero	Acceptance Limitso
4-Bromofluorobenzeneo	94o		75 - 120o
Dibromofluoromethaneo	00o		75 - 121o
Toluene-d8 (Surr)o	03o		75 - 120o

Client: ARCADIS U.S., Inc.o Job Number: 680-55031-1o

Cient-Sampe ID:d Effuent-

Lab Sample ID:o 680-55031-1o Date Sampled: 02/10/2010 1600o
Client Matrix:o ero Date Received: 02/12/2010 0933o

6010C Metals (ICP) - Total Recoverable

Method:o 6010Co Analysis Batch: 680-161225o Instrument ID:o ICPDo
Preparation:o 005Ao Prep Batch: 680-161109o Lab File ID:o N/Ao
Dilution:o .0o Initial Weight/Volume:o 50 mLo
Date Analyzed:o 02/18/2010 2032o Final Weight/Volume:o 50 mLo
Date Prepared:o 02/18/2010 1225o

Analyteo	Result (ug/L)o	Qualifiero	RLo
Arsenico	20o	Uo	20o
Chromiumo	0o	Uo	0o
Coppero	20o	Uo	20o
Leado	0	Uo	0o
Zinco	22o		20o

DATA RhPORT:Nb m ALIFia RSh

Client: ARCADIS U.S., Inc.o Job Number: 680-55031-1o

Lab Sectionp	u alifiera	Descriptionp
GC/k S VOA*		
	U*	Indicâ. he *analyte wa. analyzed for but not detected.*
		LCS or LCSD exceeds the control limits*
Metâls*		
	U*	Indicâ. he *analyte wa. analyzed for but not detected.*

CliTntT ARCADIS U.S., Inc.* Job Number: 680-55031-1.

MRthodRBRankoRBatch:c680-161019u **Method: 8260Bu**
Preparation: 5030Bu

Lab SamplU.	MB 680-161019/t04U	Analysis BatchU	680-161019U	nstlUment .	MSOU
CliTnt MatTixM	WatT	PU p BatchUN.AU		Lab FilU.	oq1.3.dU
Dilution*	1.0	UnitsU	ug/LU	nitial WUight/Volume:.	5 mLU
DatT AnalyzUdU	0. 16. 010 1. 5.			Final WUight/Volume:.	5 mLU
at e PU paU dU	0. 16. 010 1 5.				

AnalytU	RUsultU	QualU	RLU
AcUtonU	5.		5.
BUnzUnU	1.0.		1.0.
BlUmoform.	1.0.		1.0.
BlUmomethanU	1.0.		1.0.
CalUbon disulfidU	. 0		2. 0.
CalUbon tUtlachloridU	1.0.		1.0.
ChlorobenzUnU	1.0.		1.0.
ChlorodibromomethanU	1.0.		1.0.
ChloroethanU	1.0.		1.0.
Chloroform.	1.0.		1.0.
ChloromethanU	1.0.		1.0.
cis-1,2UichloroethUnU	1.0.		1.0.
cis-1,3-.ichloropUpUnU	1.0.		1.0.
ichlorobromomethanU	1.0.		1.0.
1,1-.ichloroethanU	1.0.		1.0.
1,2UichloroethanU	1.0.		1.0.
1,1-.ichloroethUnU	1.0.		1.0.
1,2UichloropUpanU	1.0.		1.0.
iU thyl ethU	10.		10.
EthylbenzUnU	1.0.		1.0.
-HUxanonU	10.		10.
MUthylUnU ChloridU	5.0.		5.0.
-ButanonU (MEK)U	10.		10.
4-MUthyl-. -pUntanonU (MIBK)U	10.		10.
StyU nU	1.0.		1.0.
1,1,2,2UT tUachloroethanU	1.0.		1.0.
T tUachloroethUnU	1.0.		1.0.
ToluenU	1.0.		1.0.
tUans-1,2UichloroethUnU	1.0.		1.0.
tUans-1,3-.ichloropUpUnU	1.0.		1.0.
1,1,1-T ichloroethanU	1.0.		1.0.
1,1,2UT ichloroethanU	1.0.		1.0.
T ichloroethUnU	1.0.		1.0.
Vinyl chloridU	1.0.		1.0.
XylUnUs, TotalU	. 0		2. 0.

SurrogatU	% RUcU	AccUptancU LimitsU
4-BlUmofluorobenzUnU	95.	5 - 1. 0.
i bromofluoromethanU	111.	5 - 1. 1.
ToluenU dU (Surr)U	10.	5 - 1. 0.

Calculations aU pU formed before rounding to avoid round-off errors in calculatUd results.U

CliUntU ARCADIS U.S., .nc.U Job Number: 680-55031-1.

Lab Control Sample/u **Method: 8260Bu**
Lab Control Sample Duplicate Recovery Report - Batch: 680-161019u **Preparation: 5030Bu**

LCS Lab SamplU.	LCS 680-161019/4U	Analysis BatchU 680-161019U	nstlUment . MSOU
CliUnt MatUixU	WatU	PU p BatchUN.AU	Lab FilU. oq165.dU
il utionU	1.0	UnitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUdU	0. 16. 010 1101.		Final WUight/Volume:. 5 mLU
atU PU paU dU	0. 16. 010 1101.		

LCSDULab SamplU.	LCSDU680-161019/5U.	Analysis BatchU 680-161019U	nstlUment . MSOU
CliUnt MatUixU	WatU	PU p BatchUN.AU	Lab FilU. oq16..dU
il utionU	1.0	UnitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUdU	0. 16. 010 1130.		Final WUight/Volume:. 5 mLU
atU PU paU dU	0. 16. 010 1130.		

	% RUc.U						
AnalytU	LCSU	LCSDU	LimitU	RPDU	RPDULimitU	LCS QualU	LCSDUQualU
AcUtonU	104U	108.	1. - 1. 5.	4U	50.		
BUnzUnU	1037U	105.	- 1192U		30.		
BlUomoform.	4U		- 133U	1.	30.		
BlUomomethanU		95.	1. - 184U	8	50	.	
CalUbon disulfidU	100.	101.	55 - 131.	1.	30.		
CalUbon tUtlUachloridU		4U	1 - 135.	4U	30.		
ChlorobenzUnU	99U	99U	5 - 116.	0.	30.		
ChlorodibromomethanU	97U	9U	5 - 133U	1.	30.		
ChloroethanU	106.		40 - 165.	1	50	.	
Chloroform.	106.	106.	- 1. 0.	0.	30.		
ChloromethanU	97U	105.	4U- 1 42U	8	50	.	
cis-1,2-UichlI oroethUnU	106.	10.	9 - 134U	4U	30.		
cis-1,3-.ichlI oropUpUnU	101.	101.	- 1.	0.	30.		
ichlI orobromomethanU			- 1.	0.	30.		
1,1-.ichlI oroethanU	106.	105.	4 - 1.	1.	30.		
1,2-UichlI oroethanU	9U	99U	- 1 32U	1.	30.		
1,1-.ichlI oroethUnU	100.	105.	- 141.	5.	30.		
1,2-UichlI oropUpanU	100.	100.	3 - 1.4U	0.	30.		
EthylbenzUnU	105.	105.	- 116.	0.	30.		
-HUxanonU	104U	104U	34 - 161.	0.	30.		
MUthylUnU ChloridU	10.	100.	0 - 1. 5.		3 0.		
-ButanonU (MEK)U	112	10.	33 - 15.	5.	30.		
4-MUthyl-. -pUntanonU (MIBK)U	109U	113U	40 - 151.	4U	30.		
StyU nU	1.		- 1.	0.	30.	*U	
1,1,2,2-UT tUachloroethanU	101.	103U	9 - 1.9U		30.		
T tUachloroethUnU	9U	101.	- 1.	4U	30.		
ToluenU	10.	10.	1 - 11.	1.	30.		
tUans-1,2-UichlI oroethUnU	105.	10.	- 131.	3U	30.		
tUans-1,3-.ichlI oropUpUnU	9U	9U	3 - 1.	1.	30.		
1,1,1-T ichloroethanU	97U	99U	- 1.		30.		
1,1,2-UT ichloroethanU	1037U	105.	5 - 1. 1.		3 0.		
T ichloroethUnU	100.	100.	4 - 115.	1.	30.		

Calculations aU pU formed before rounding to avoid round-off errors in calculatUd results.U

CliUntU ARCADIS U.S., .nc.U Job Number: 680-55031-1.

Lab Control Sample/u **Method: 8260Bu**
Lab Control Sample Duplicate Recovery Report - Batch: 680-161019u **Preparation: 5030Bu**

LCS Lab SamplU.	LCS 680-161019/4U	Analysis BatchU 680-161019U	nstlUment . MSOU
CliUnt MatUixU	WatU	PU p BatchUN.AU	Lab FilU. oq165.dU
il utionU	1.0	UnitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUdU	0. 16. 010 1101.		Final WUight/Volume:. 5 mLU
atU PU paU dU	0. 16. 010 1101.		

LCSDULab SamplU.	LCSDU680-161019/5U.	Analysis BatchU 680-161019U	nstlUment . MSOU
CliUnt MatUixU	WatU	PU p BatchUN.AU	Lab FilU. oq16..dU
il utionU	1.0	UnitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUdU	0. 16. 010 1130.		Final WUight/Volume:. 5 mLU
atU PU paU dU	0. 16. 010 1130.		

	% RUc.U						
AnalytU	LCSU	LCSDU	LimitU	RPDU	RPDULimitU	LCS QualU	LCSDUQualU
Vinyl chloridU	109U	11.	59 - 144U		50.		
XylUnUs, TotalU	10.	10.	4 - 118.	0.	30.		

SurrogatU	LCS % RUcU	LCSDU% RUcU	AccUptancU LimitsU
4-BUomofluorobenzUnU	93U	9U	5 - 1. 0.
i bromofluoromethaneU	104U	105.	5 - 1. 1.
ToluenU-dU (Surr)U	103U	105.	5 - 1. 0.

Calculations aU pU formed before rounding to avoid round-off errors in calculatUd results.U

Method Blank - Batch: 680-161109u

Method: 6010Cu
Preparation: 3005Au
Total Recoverableu

Lab SamplU.	MB 680-161109/tU6-AU	Analysis BatchU 680-161. 5.	nstlUment . CPDU
CliUnt MatUixU	WatU	PU p BatchU 680-161109U	Lab FilU. N.AU
il utionU	1.0	UnitsU ug/LU	nitial WUight/Volume:. 50 mLU
atU AnalyzUdU	0. 18. 010 . 001.		Final WUight/Volume:. 50 mLU
at e P pa dU	0 18. 010 1. 5.		

AnalytU	RUsultU	QualU	RLU
AUsUnicU	0.		0.
ChUomium.	10.		10.
CoppU	0.		0.
LUadU	10.		10.
ZincU	0.		0.

Lab Control Sample - Batch: 680-161109u

Method: 6010Cu
Preparation: 3005Au
Total Recoverableu

Lab SamplU.	LCS 680-161109/tU. -AU	Analysis BatchU 680-161. 5.	nstlUment . CPDU
CliUnt MatUixU	WatU	PU p BatchU 680-161109U	Lab FilU. N.AU
il utionU	1.0.	nitsU ug/LU	nitial WUight/Volume:. 50 mLU
atU AnalyzUdU	0. 18. 010 . 006.		Final WUight/Volume:. 50 mL
atU PU paU dU	0. 18. 010 1. 5.		

AnalytU	Spike AmountU	RUsultU	% RUc.U	LimitU	QualU
AUsUnicU	000.	1930.	9U	5 - 1. 5.	
ChUomium.	00.	197U	99U	5 - 1. 5.	
CoppU	50.	4U	99U	5 - 1. 5.	
L adU	500.	4 9U	9U	5 - 1 5.	
ZincU	500.	500.	100.	5 - 1. 5.	

Calculations aU pU formed before rounding to avoid round-off errors in calculatUd results.U

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name NC000239.0018.00001

Project Location UNC - Airport Road

Laboratory Test America

Project Manager Alan Pinnix

Sampler(s)/Affiliation David Twamley

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: VOCs (8260)	Metals (6010)*					Remarks	Total
Effluent	L	2/10/10, 1600		3	1					*Report:	
										Total No. of Bottles/ Containers	

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: David Twamley	Organization: ARCADIS	Date 2/11/10	Time 0900	Seal Intact?	
Received by: Beth A Daughtry	Organization: TA SAV	Date 2/12/10	Time 0933	Yes No N/A	
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes No N/A	

Special Instructions/Remarks: _____

Temp 2.0

680-55031

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

LogT Samb le Receib Check Listb

Client: ARCADIS U.S., Inc.U

Job Number: 680-55031-1o

LogT Number: 55031b

List Source: TestAmerica Savannahb

Creator: Daughtry, Bethb

List Number: 1b

Questionb	F/ NAb	Commentb
Radioactivity either was not measured or, if measured, is at or below S backgroundS	N/AS	
The cooler's custody seal, if present, is intact.S	TrueS	
The cooler or samples do not appear to have been compromised or S tampered with.S	True	
mples were received on ice.S	TrueS	
Cooler Temperature is acceptable.S	TrueS	
Cooler Temperature is recorded.S	TrueS	
COC is present.S	TrueS	
COC is filled out in ink and legible.S	TrueS	
COC is filled out with all pertinent information.S	TrueS	
There are no discrepancies between the sample IDs on the containers and S the COC.S	True	
mples are received within Holding Time.S	True	
ample containers have legible labels.S	TrueS	
Containers are not broken or leaking.S	True	
ample collection date/times are provided.S	TrueS	
Appropriate sample containers are used.S	True	
ample bottles are completely filled.S	TrueS	
There is sufficient vol. for all requested analyses, incl. any requested S MS/MSDsS	TrueS	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in S diameter.S	TrueS	
If necessary, staff have been informed of any short hold time or quick TAT S eedsS	TrueS	
Multiphasic samples are not present.S	N/A	
amples do not require splitting or compositing.S	N/AS	
Is the Field Sampler's name present on COC?S	True	
ample Preservation VerifiedS	TrueS	

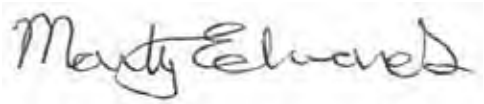
ANALYTICAL REPORT

Job Number: 400-45588-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
2/25/2010 2:56 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
02/25/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page.

TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250507), New Jersey (FL006), North Carolina (314), North Dakota (R-108), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

Commentsl
No additional co. n tS. k

ceipt l
All samples wekS rScSved in g ood condition within tSpek raturS rSq uirS n tS.S

Metals l
Mekhod 1631E: The matrix spike / matrix spike duplicatS(MS/MSD) rScovekies for batch 400-103S 9\ 400-10382b wekS outSde contro. k imitS. The asskociatSd la boratory contro. sample (LCS) rScovekry mekaccSp tancS critSria. Data was f*agged and rSp ortSd as iskS

No othek analykical or quality isskuS wekrSn otSd .S

METHOD SUMMARY:

CliTntT. CADIS U.S., .nc.T Job Number: 400-45588-1T

Description:	Lab Location:	Method:	Preparation Method:
Matrix:l Water:			
MT cury, Low LTvTl (CVAFS)	L PEN.	EPAT1631ET	
PT paTation, MT cury, Low LTvTlT	L PEN.		EPAT1631E

Lab References:

AL PEN = . stATherica PTnsacolaT

Method References:l

EPAT= US EnviTonmental PTo. ction .gT ncyT

TestAmerica Pensacola:

METHOD / ANAL9ST SUMMAR9

Client: ARCADIT U.S., Inc.S Job NumbeT: 400045588x1C

M: thb	Analystb	Analyst ID:
EPA 1C31E.	Jones, RTndS	RJo

T: stAml rica P- nsacolap

SAMPLI SUMMARY2

Client: ARCADIT U.S., Inc.S

Job NumbeT: 400C45588x1C

La: Samp e ID2	Caeu Samp e ID2	Caeu Ma rix2	Da:e/Ti2ne : Samp edb	Da:e/Ti2ne : Reueivedb
400-45588-1I	NTI	WaterI	02/10/2010 1600I	02/12/2010 0925I

Test2Amerb a Peus a: oa:

SAMPL : S L SI

Client: ARCADIS U.S., Inc.I Job Number: 400-45588-1I

ClientuSampleIDd **EFFLUENTa**

Lhb SI mple ID:I 400-45588-1I Date Sampled: 02/10/2010 1600n
Client MUtrix:I Watern Date Received: 02/12/2010 0925n

1631E Mercury, LowlLevelu(CVAFS)I

Method:n	1631En	Analysis Batch: 400-103827n		Instrument ID:n	HYDRAn
Preparation:n	1631En	Prep Batch: 400-103779n		Lab File ID:n	N/An
Dilution:n	1.0n			Initial Weight/Volume:n	40 mLn
Date Analyzed:n	02/15/2010 1406n			Final Weight/Volume:n	40 mLn
Date Prepared:n	02/12/2010 1500n				

Analyten	Result (ng/L)n	Qualifiern	RLn
Mercuryn	0.55n		0.50n

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc.n Job Number: 400-45588-1n

QC Association Summaryu

Lau Samle ID-	Client Sample ID-	Reuortu Basisu	Client Matrix-	Method-	Preu Batch-
Metalsu					
Preu Batch- 400-103779b					
LCS 400-103779/26-Ac	Lab Control Samplen	Tc	Watern	1631Ec	
LCSD 400-103779/27-Ac	Lab Control Sample Duplicatec	Tc	Waterc	1631Ec	
MB 400-103779/25-Ac	Method Blankc	Tc	Waterc	1631Ec	
5588-1c	EFFLUENTc	Tc	Waterc	1631Ec	
680-54863-B-17-B MSc	Matrix Spikec	Tc	Waterc	1631Ec	
680-54863-B-17-C MSDc	Matrix Spike Duplicatec	Tc	Waterc	1631Ec	
Analysis Batch-400-103827c					
LCS 400-103779/26-Ac	Lab Control Samplec	Tc	Waterc	1631Ec	103779c
LCSD 400-103779/27-Ac	Lab Control Sample Duplicatec	Tc	Waterc	1631Ec	103779c
MB 400-103779/25-Ac	Method Blankc	Tc	Waterc	1631Ec	103779c
5588-1c	EFFLUENTc	Tc	Waterc	1631Ec	103779c
680-54863-B-17-B MSc	Matrix Spikec	Tc	Waterc	1631Ec	103779c
680-54863-B-17-C MSDc	Matrix Spike Duplicatec	Tc	Waterc	1631Ec	103779c

Reuort Basisu
T = Totalc

Method Blank - Batchb 400-103779R

Method: 1631ER
Preparation: 1631ER

Lab Samplc.	B 400-103779/25-AT		n alysis Bacchl 400-103827c	nsl umentT HYc	
CliTntT acixc	Wac		PI p Bacchl 400-103779n	Lab Filc. N/I	
i lu.ionT	1.0		Units3l ng/L.	nitial WBighI/Volume:.	40 mL.
ac . n alyzB	02/15/2010 0919n			Final WBighI/Volume:.	40 mL.
ac PI pac	02/12/2010 1130				

nalyS	sulc	Qualc	L.
curyS	<0.50		0.50

Lab Control Sample/R
Lab Control Sample Duplicate Recovery Report - Batch: 400-103779R

Method: 1631ER
Preparation: 1631ER

LCS Lab Samplc.	LCS 400-103779/26-AT		n alysis Bacchl 400-103827c	nsl umentT HYc	
CliTntT acixc	Wac		PI p Bacchl 400-103779n	Lab Filc. N/I	
i lu.ionT	1.0		Units3l ng/L.	nitial WBighI/Volume:.	40 mL.
ac . n alyzB	02/15/2010 0927c			Final WBighI/Volume:.	40 mL.
ac PI pac	02/12/2010 1130				

LCSDTLab Samplc.	LCSDT400-103779/27-AT		n alysis Bacchl 400-103827c	nsl umentT HYc	
CliTntT acixc	Wac		PI p Bacchl 400-103779n	Lab Filc. N/I	
i lu.ionT	1.0		Units3l ng/L.	nitial WBighI/Volume:.	40 mL.
ac . n alyzB	02/15/2010 0935C			Final WBighI/Volume:.	40 mL.
ac PI pac	02/12/2010 1130				

	% . c.T						
nalyS	LCST	LCSDT	LimitT	PI	PI LimitT	LCS Qualc	LCSDTQualc
curyS	101c	95C	79 - 121c	6c	20		

Calculadons ac p. forme. before rounTing .o avoiT rounT-off errors in calculac resulcs.T

CliTntT . CADIS U.S., .nc.T Job Number: 400-45588-1c

Matrix Spike/R
Matrix Spike Duplicate Recovery Report - Batch: 400-103779R

Method: 1631ER
Preparation: 1631ER

S Lab Samplc.	680-54863-B-17-B . ST	n alysis Baccl	400-103827c	nsl umentT	HYc
CliTntT acixc	Wac	Pl p Baccl	400-103779n	Lab Filc.	N/l
i lu.ionT	1.0			nitial WBighl/Volume:.	40 mL.
ac . n alyzB	02/15/2010 1115C			Final WBighl/Volume:.	40 mL.
ac Pl pac	02/12/2010 1500				
SDTLab Samplc.	680-54863-B-17-C . SDT	n alysis Baccl	400-103827c	nsl umentT	HYc
CliTntT acixc	Wac	Pl p Baccl	400-103779n	Lab Filc.	N/l
i lu.ionT	1.0			nitial WBighl/Volume:.	40 mL.
ac . n alyzB	02/15/2010 1123l			Final WBighl/Volume:.	40 mL.
ac Pl pac	02/12/2010 1500				

	% . c.T						
nalyS	ST	SDT	LimitT	Pl	Pl LimitT	S Qualc	SDTQualc
curyS	59n	58	₡1 - 125C	1c	24B	F	F

Calculadons ac p. forme. before rounTing .o avoiT rounT-off errors in calculac resulcs.T

DATA RhPORT:NI I ALIFa RSh

Client: ARCADIS U.S., Inc.n Job Number: 400-45588-1c

Lab Sectionp	u alifierl	Descriptionp
Metalsu		
	Fu	MS or MSD exceeds the control limitsu

400-45588

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name NC000239.0018.00001

Project Location UNC - Airport Road

Laboratory Test America (Pensacola)

Project Manager Alan Pinnix

Sampler(s)/Affiliation David Twamley

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: Low Level Mercury (1631E)						Remarks	Total
Effluent	L	2/10/10, 1600		3							
										Total No. of Bottles/ Containers	

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: David Twamley	Organization: ARCADIS	Date 2/11/10	Time 1700	Seal Intact?		
Received by:	Organization: TA Pen	Date 2/12/10	Time 9:25	Yes	No	N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?		
Received by:	Organization:	Date / /	Time	Yes	No	N/A

Special Instructions/Remarks: _____

0.6 °C

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 400-45588-1

Login Number: 455881

List Source: TestAmerica Pensacola

Creator: Horn, Kim

List Number:

Question	T/F/N/A	Comment
Radioactivity either was not measured, if measured is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-55836-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
3/24/2010 12:10 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
03/24/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY:

CliUntU ARCADIS U.S., .nc.U Job Number: 680-5583U1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix:I Water:			
VolatilU OTganic Compounds (GC/MS).	TAL SAVT	SWU4T8.2T0 BT	
PurgT and Tbapu	TAL SAVT		SWU4T50 30BT
M tals (bCP).	TAL SAVT	SWU4T6010 CU	
Pn paTation, Total RUcovI ablUor . i ssolvI d M talsI	TAL SAVT		SWU4T 3005AU

Lab References:I

TAL SAV = TbstAmerica SavannahI

Method References:I

SWU4T = "Tbst M thods For Evaluating Solid WastU, Physical/ChIm ical M thods", ThiUd Edition, NovImber 1 9I And .ts . pdatUs.U

METHOD / ANAL9ST SUMMAR9

Client: ARCADIS U.S., Inc.u Job Number: 680-55836-1S

M: th1	Analyst1	Analyst ID:
SW846S 8260B4	Lanier, CaUlu nu	CLo
SW846S 6010Cu	Bland, B4anu	BCB4

SAMPLI SUMMARY2

Client: ARCADIS U.S., Inc.u Job Number: 680-55836-1S

Lab Samp2e ID2	CaeR Samp2e ID2	CaeR Ma:r1x2	Da:e/Ti2me : Samp2edb	Da:e/Ti2me : ReRe2vedb
680-55836-1,	ent,	Water,	03/12/2010o1S45,	03/13/2010 1014,

Client: ARCADIS U.S., Inc., Job Number: 680-55836-1,

ClientRSample1D:d EffluentR

Lab Sampœ ID:, 680-55836-1, Date Sampœd: 03/12/2010 1345,
Client Matrix:, Water, Date Received: 03/13/2010 1014,

8260BdVolatile1Organic Compounasd(GC/MS):

Method:, 8260B, Analysis Batch: 680-163780, Instrument ID:, MSP
Preparation:, 5030B, Lab File ID:, p0113.d,
Dilution:, 1.0, InitiaUWeight/Volume:, 5 mLo
Date AnaUyzed:, 03/23/2010 1511, FinaUWeight/Volume:, 5 mLo
Date Prepared:, 03/23/2010 1511,

Analyte,	Result (ug/L),	Q, aUifier,	RLo
Acetone,	25,	U,	25,
Benzene,	1.0,	U,	1.0,
Bromoform,	1.0,	U,	1.0,
Bromomethane,	1.0,	U,	1.0,
Carbon disulfide,	2.0,	U,	2.0,
Carbon tetrachloride,	1.0,	U,	1.0,
Chlorobenzene,	1.0,	U,	1.0,
Chlorodibromomethane,	1.0,	U,	1.0,
Chloroethane,	1.0,	U,	1.0,
Chloroform,	1.0,	U,	1.0,
Chloromethane,	1.0,	U,	1.0,
cis-1,2-Dichloroethene,	1.0,	U,	1.0,
cis-1,3-Dichloropropene,	1.0,	U,	1.0,
Dichlorobromomethane,	1.0,	U,	1.0,
1,1-Dichloroethane,	1.0,	U,	1.0,
1,2-Dichloroethane,	4.7,		1.0,
1,1-Dichloroethene,	1.0,	U,	1.0,
1,2-Dichloropropane,	1.0,	U,	1.0,
Diethyl ether,	340,	E.	10,
Ethylbenzene,	1.0,	U,	1.0,
2-Hexanone,	10,	U,	10,
Methylene Chloride,	5.0,	U,	5.0,
2-Butanone (MEK),	10,	U,	10,
4-Methyl-2-pentanone (MIBK),	10,	U,	10,
Styrene,	1.0,	U,	1.0,
1,1,2,2-Tetrachloroethane,	1.0,	U,	1.0,
Tetrachloroethene,	1.0,	U,	1.0,
Toluene,	1.0,	U,	1.0,
trans-1,2-Dichloroethene,	1.0,	U,	1.0,
trans-1,3-Dichloropropene,	1.0,	U,	1.0,
1,1,1-Trichloroethane,	1.0,	U,	1.0,
1,1,2-Trichloroethane,	1.0,	U,	1.0,
Trichloroethene,	1.0,	U,	1.0,
Vinyl chloride,	1.0,	U,	1.0,
Xylenes, TotaU	2.0,	U,	2.0,

Surrogate,	%Rec,	Qua,ifier,	Acceptance Limits,
4-Bromofluorobenzene,	96,		75 - 120,
Dibromofluoromethane,	101,		75 - 121,
Toluene-d8 (Surr),	109,		75 - 120,

Client: ARCADIS U.S., Inc., Job Number: 680-55836-1,

Client Sample ID: Effluent

Lab Sample ID: 680-55836-1, Date Sampled: 03/12/2010 1345,
Client Matrix: Water, Date Received: 03/13/2010 1014,

8260B Volatile Organic Compounds (GC/MS):

Method:	8260B,	Analysis Batch: 680-163780,		Instrument ID:	MSP
Preparation:	5030B,			Lab File ID:	p0123.d,
Dilution:	10,			Initial Weight/Volume:	5 mL
Date Analyzed:	03/23/2010 1739,	Run Type:	DL	Final Weight/Volume:	5 mL
Date Prepared:	03/23/2010 1739,				

Analyte,	Result (ug/L),	Qualifier,	RL
Acetone,	250,	U,	250,
Benzene,	10,	U,	10,
Bromoform,	10,	U,	10,
Bromomethane,	10,	U,	10,
Carbon disulfide,	20,	U,	20,
Carbon tetrachloride,	10,	U,	10,
Chlorobenzene,	10,	U,	10,
Chlorodibromomethane,	10,	U,	10,
Chloroethane,	10,	U,	10,
Chloroform,	10,	U,	10,
Chloromethane,	10,	U,	10,
cis-1,2-Dichloroethene,	10,	U,	10,
cis-1,3-Dichloropropene,	10,	U,	10,
Dichlorobromomethane,	10,	U,	10,
1,1-Dichloroethane,	10,	U,	10,
1,2-Dichloroethane,	10,	U,	10,
1,1-Dichloroethene,	10,	U,	10,
1,2-Dichloropropane,	10,	U,	10,
Diethyl ether,	310,	D,	100,
Ethylbenzene,	10,	U,	10,
2-Hexanone,	100,	U,	100,
Methylene Chloride,	50,	U,	50,
2-Butanone (MEK),	100,	U,	100,
4-Methyl-2-pentanone (MIBK),	100,	U,	100,
Styrene,	10,	U,	10,
1,1,2,2-Tetrachloroethane,	10,	U,	10,
Tetrachloroethene,	10,	U,	10,
Toluene,	10,	U,	10,
trans-1,2-Dichloroethene,	10,	U,	10,
trans-1,3-Dichloropropene,	10,	U,	10,
1,1,1-Trichloroethane,	10,	U,	10,
1,1,2-Trichloroethane,	10,	U,	10,
Trichloroethene,	10,	U,	10,
Vinyl chloride,	10,	U,	10,
Xylenes, Total	20,	U,	20,

Surrogate,	%Rec,	Qualifier,	Acceptance Limits,
4-Bromofluorobenzene,	98,		75 - 120,
Dibromofluoromethane,	95,		75 - 121,
Toluene-d8 (Surr),	109,		75 - 120,

Client: ARCADIS U.S., Inc., Job Number: 680-55836-1,

ClientRSample1ID:d EffluentR

Lab Sampœ ID:, 680-55836-1, Date Sampœd: 03/12/2010 1345,
Client ¡Matrix:, Water, Date Received: 03/13/2010 1014,

6010C bMetalsq(ICP)-TotalRRecoverable1

Method:, 6010C, Analysis Batch: 680-163490, Instrument ID:, ICPD,
Preparation:, 3005A, Prepc Batch: 680-163399, Lab File ID:, N/A,
Dilution:, 1.0, InitiaUWeight/Volume:, 50 mLo
Date Analyzed:, 03/19/2010 0406, FinaUWeight/Volume:, 50 mLo
Date Prepared:, 03/18/2010 1201,

Analyte,	Result (ug/L),	Q, aUfier,	RLo
Arsenic,	20,	U,	20,
Chromium,	10,	U,	10,
Copper,	20,	U,	20,
Lead,	10,	U,	10,
Zinc,	22,		20,

DATA RhPORT:N1 l ALIFa RSh

Client: ARCADIS U.S., Inc., Job Number: 680-55836-1,

Lab Sectionp	u alifierl	Descriptionp
GC/MS ¸VOA,		
	U,	In, icate, the ¸ana.yte ¸wa. ana.yze, for but not , etecte, .,
	E	Re, t e xcee, e, ca.ibration range.,
	D,	Surrogate or matrix. pike recoverie, were not obtaine, beca. e the extract ¸wa. ilute, for ¸ana.ys‡, ;Ta. o compoun, ana.yze, at ¸a. ilution may*be f*agge, with*a.D.,
Meta.		
	U,	In, icate, the ¸ana.yte ¸wa. ana.yze, for but not , etecte, .,

CliUntU ARCADIS U.S., .nc.U Job Number: 680-5583U1.

Method Blank - Batch: R0 -16837Du **Method: R2P0 BR**
PreRaration: B030BR

Lab SamplU. MB 680-1637c0 /7c
CliUnt MatUixU WatU
il utionU 1.0.
atU AnalyzUd, 03/23/2010 1044.
atU P paU d, 03/23/2010 1044.

Analysis BatchU 680-1637c0.
P p BatchUN/AU
nitsU ug/LU

nstUument . MSP
Lab FilU. pq155.d,
nitial WUight/Volume:. 5 mLU
Final WUight/Volume:. 5 mL

AnalytU	RUsultU	QualU	RLU
AcUtonU	25.		25.
BUnzUnU	1.0.		1.0.
BUomoform.	1.0.		1.0.
BUomomethanU	1.0.		1.0.
CaUbon disulfid,	2.0.		2.0.
CaUbon tUtUachlorid,	1.0.		1.0.
ChlorobenzUnU	1.0.		1.0.
ChlorodibromomethanU	1.0.		1.0.
ChloroethanU	1.0.		1.0.
Chloroform.	1.0.		1.0.
ChloromethanU	1.0.		1.0.
cis-1,2-.ichl oroethUnU	1.0.		1.0.
cis-1,3-.ichl oropUopunU	1.0.		1.0.
ichl orobromomethanU	1.0.		1.0.
1,1-.ichl oroethanU	1.0.		1.0.
1,2-.ichl oroethanU	1.0.		1.0.
1,1-.ichl oroethUnU	1.0.		1.0.
1,2-.ichl oropUopanU	1.0.		1.0.
iU thyl ethU	10.		10.
EthylbenzUnU	1.0.		1.0.
2-HI xanonU	10.		10.
MnthylUnU Chlorid,	5.0.		5.0.
2-ButanonU (MEK)u	10.		10.
4-Mnthyl-2-puntanonU (MrBK)u	10.		10.
StyT nU	1.0.		1.0.
1,1,2,2-T, tUachloroethanU	1.0.		1.0.
T, tUachloroethUnU	1.0.		1.0.
ToluenU	1.0.		1.0.
tUans-1,2-.ichl oroethUnU	1.0.		1.0.
tUans-1,3-.ichl oropUopunU	1.0.		1.0.
1,1,1-T,ichloroethanU	1.0.		1.0.
1,1,2-T,ichloroethanU	1.0.		1.0.
T,ichloroethUnU	1.0.		1.0.
Vinyl chlorid,	1.0.		1.0.
XylUnUs, TotalU	2.0.		2.0.

SurrogatU	% RUcU	AccUptancU LimitsU
4-BUomofluorobenzUnel	102.	75 - 120.
i bromofluoromethanU	101.	75 - 121.
ToluenU d, (Surr)u	106.	75 - 120.

Calculations aU pu formed before rounding to avoid round-off errors in calculatUd results.U

CliUntU ARCADIS U.S., .nc.U Job Number: 680-5583U1.

Lab1Control Rample/1
Lab1Control Rample RuRlicate Recovery ReRort - Batch: R0 -16877Du

Method: R2R0 BR
PreRaration: R030BR

LCS Lab SamplU.	LCS 680-1637c0 /4.	Analysis BatchU 680-1637c0.	nstlument . MSP
CliUnt MatlixU	WatU	P p BatchUN/AU	Lab FilU. pq149.d,
il utionU	1.0.	nitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUd,	03/23/2010 0852.		Final WUight/Volume:. 5 mLU
atU P paU d	03/23/2010 0852.		

LCSDULab SamplU.	LCSDU680-1637c0 /5.	Analysis BatchU 680-1637c0.	nstlument . MSP
CliUnt MatlixU	WatU	P p BatchUN/AU	Lab FilU. pq151.d,
il utionU	1.0.	nitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUd,	03/23/2010 0922.		Final WUight/Volume:. 5 mLU
atU P paU d	03/23/2010 0922.		

	% RUc.U						
AnalytU	LCSU	LCSDU	LimitU	RP	RP LimitU	LCS QualU	LCSDUQualU
AcUtonU	4.	5.	17 - 175	1 .	50 .		
BUnzUnU	108.	107c	77 - 119,	1.	30.		
BlUmoform.	97c	94.	2 - 133U	3U	30.		
BlUmomethanU	5.	92.	12 - 184.	8	50 .		
CalUon disulfid,	102.	104.	55 - 131.	2.	30.		
CalUon tUtlachlorid,	119,	117c	71 - 135.	2.	30.		
ChlorobenzUnU	105.	104.	5 - 116.	1.	30.		
ChlorodibromomethanU	9,	99,	75 - 133U	1.	30.		
ChloroethanU	97c	104.	40 - 165.	7c	50.		
Chloroform.	104.	104.	2 - 120.	0.	30.		
ChloromethanU	108.	108.	4. - 1 42.	0	50 .		
cis-1,2-.ichl oroethUnU	101.	103U	9 - 134.	2.	30.		
cis-1,3-.ichl oropUopunU	105.	105.	7c- 1 2.	1.	30.		
ichl orobromomethanU	103U	104.	7c- 1 27c	1.	30.		
1,1-.ichl oroethanU	102.	104.	74 - 127c	2.	30.		
1,2-.ichl oroethanU	105.	102.	- 1 32.	3U	30.		
1,1-.ichl oroethUnU	103U	105.	2 - 141.	2.	30.		
1,2-.ichl oropUopanU	103U	106.	73 - 124.	2.	30.		
EthylbenzUnU	107c	106.	- 116.	1.	30.		
2-HI xanonU	9,	95.	34 - 161.	1.	30.		
MnthylUnU Chlorid,	103U	103U	70 - 125.	0.	30.		
2-ButanonU (MEK)u	92.	91.	33 - 157c	1.	30.		
4-Mnthyl-2-puntanonU (MrBK)u	97c	100.	40 - 151.	3U	30.		
StyT nU	107c	102.	2 - 122.	5.	30.		
1,1,2,2-T, tlachloroethanU	97c	93U	9 - 129,	5.	30.		
T, tlachloroethUnU	102.	102.	7c- 1 2.	1.	30.		
ToluenU	110.	110.	1 - 11 7c	0.	30.		
tlans-1,2-.ichl oroethUnU	105.	104.	72 - 131.	1.	30.		
tlans-1,3-.ichl oropUopunU	109,	110.	73 - 12.	0.	30.		
1,1,1-T,ichloroethanU	113U	112.	7c- 1 27c	1.	30.		
1,1,2-T,ichloroethanU	103U	103U	75 - 121.	1.	30.		
T,ichloroethUnU	104.	104.	4 - 115.	1.	30.		

Calculations aU pu formed before rounding to avoid round-off errors in calculatUd results.U

CliUntU ARCADIS U.S., .nc.U Job Number: 680-5583U1.

Lab1Control Sample/1
Lab1Control SampleDuRlicate Recovery ReRort - Batch: R0 -16877Du

Method: R2P0 BR
PreRaration: S030BR

LCS Lab SamplU.	LCS 680-163770 /4.	Analysis BatchU 680-163770.	nstlument . MSP
CliUnt MatlixU	WatU	P p BatchUN/AU	Lab FilU. pq149.d,
il utionU	1.0.	nitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUd,	03/23/2010 0852.		Final WUight/Volume:. 5 mLU
atU P paU d	03/23/2010 0852.		

LCSDULab SamplU.	LCSD680-163770 /5.	Analysis BatchU 680-163770.	nstlument . MSP
CliUnt MatlixU	WatU	P p BatchUN/AU	Lab FilU. pq151.d,
il utionU	1.0.	nitsU ug/LU	nitial WUight/Volume:. 5 mLU
atU AnalyzUd,	03/23/2010 0922.		Final WUight/Volume:. 5 mLU
atU P paU d	03/23/2010 0922.		

	% RUc.U						
AnalytU	LCSU	LCSDU	LimitU	RP	RP LimitU	LCS QualU	LCSDUQualU
Vinyl chlorid,	7c	116.	59 - 144.	29,	50.		
XylUnUs, TotalU	108.	106.	4 - 118.	2.	30.		

SurrogatU	LCS % RUcU	LCSDU% RUcU	AccUptancU LimitsU
4-BUomofluorobenzUnU	106.	9,	75 - 120.
i bromofluoromethaneU	102.	102.	75 - 121.
ToluenU d, (Surr)u	108.	109,	75 - 120.

Calculations aU pu formed before rounding to avoid round-off errors in calculatUd results.U

CliUntU ARCADIS U.S., .nc.U Job Number: 680-5583U1.

Method Blank - Batch: R0 -168399 1

Method: R010 CR
PreRaration: B005Au
Total RecoverableR

Lab SamplU. MB 680-163399/19-AU
CliUnt MatUixU WatU
il utionU 1.0.
atU AnalyzUd, 03/19/2010 014.
atU P paU d, 03/18/2010 1201.

Analysis BatchU 680-163490.
P p BatchU 680-163399,
nitsU ug/LU

nstUument . CP
Lab FilU. N/AU
nitial WUight/Volume:. 50 mLU
Final WUight/Volume:. 50 mL

AnalytU	RUsultU	QualU	RLU
AUsUnicU	20.		20.
ChUomium.	10.		10.
Coppu	20.		20.
LUad,	10.		10.
ZincU	20.		20.

Lab1Control Bamule - Batch: R0 -168399 1

Method: R010 CR
PreRaration: B005Au
Total RecoverableR

Lab SamplU. LCS 680-163399/20-AU
CliUnt MatUixU WatU
il utionU 1.0.
atU AnalyzUd, 03/19/2010 0151.
atU P paU d, 03/18/2010 1201.

Analysis BatchU 680-163490.
P p BatchU 680-163399,
nitsU ug/LU

nstUument . CP
Lab FilU. N/AU
nitial WUight/Volume:. 50 mLU
Final WUight/Volume:. 50 mL

AnalytU	Spik, AmountU	RUsultU	% RUc.U	LimitU	QualU
AUsUnicU	2000.	2020.	101.	75 - 125.	
ChUomium.	200.	207c	103U	75 - 125.	
Coppu	250.	259,	104.	75 - 125.	
LUad,	500.	509,	102.	75 - 125.	
ZincU	500.	524.	105.	75 - 125.	

Calculations aU pu formed before rounding to avoid round-off errors in calculatUd results.U

Serial Number 025385

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO	PROJECT LOCATION (STATE)
UNC- Airport Rd.	NC000239.0018.0001	NC
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com	
CLIENT ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: VOCs 8260	REQUIRED ANALYSIS: Metals 6010*	PRESERVATIVE: HCl	PRESERVATIVE: HNO3	REMARKS
3/12/10	1345	Effluent		X				3	1			*Report: As, Cr, Cu, Pb, and Zn.

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	3/12/10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/13/10	1014	YES ○ NO ○		680-95836	1.3°C

TAL8240-680 (1207)

Log-in Sample Receipt Checklist

Client: ARCADIS U.S., Inc., Job Number: 680-55836-1,

Login Number: 55836
List Source: TestAmerica Savannah
Creator: Conner, Keaton
List Number: 1

Question	T/F/N/A	Comment
Radioactivity either was not measured, or, if measured is at or below background	N/A,	
The cooler's custody seal, if present, is intact.,	True,	
The cooler or samples do not appear to have been compromised or tampered with.,	True,	
Samples were received on ice.,	True,	
Cooler temperature is acceptable.,	True,	
Cooler temperature is recorded.,	True,	
COC is present.,	True,	
COC is filled out in ink and legible.,	True,	
COC is filled out with all pertinent information.,	True,	
There are no discrepancies between the sample IDs on the container and the COC.,	True,	
Samples are received within Holding Time.,	True,	
Sample containers have legible labels.,	True,	
Containers are not broken or leaking.,	True,	
Sample collection date/times are provided.,	True,	
Appropriate sample containers are used.,	True,	
Sample bottles are completely filled.,	True,	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSD,	True,	
VOA samples do not have headspace or bubble is <6mm (1/4") in diameter.,	True,	
If necessary staff have been informed of any short hold time or quick TATS needs	True,	
Multiphasic samples are not present.,	N/A,	
Samples do not require splitting or compositing.,	N/A,	
Is the Field Sampler's name present on COC?	N/A,	
Sample Preservation Verified	True,	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

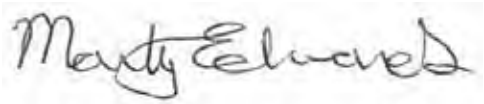
ANALYTICAL REPORT

Job Number: 400-46183-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
3/23/2010 5:16 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
03/23/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page.

TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250507), New Jersey (FL006), North Carolina (314), North Dakota (R-108), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

CommeD:
No additional co. n tS. k

ceipt D
All samples wekS rScSved in g ood condition within tSpek ratSrS rSqk irS n tS.S

Metals D
Mekhod 1631E: The matrix spike / matrix spike dkplicatS(MS/MSD) rScovekies for batch 400-105645\ 400-105673 wekS o. tSde contro. k imitS. The asskociatSd la boratory contro. sample (LCS) rScovekry mekaccSp tancS critSria. Data was fuagged and rSp ortSd as iskS

No othek analykical or qkality isssk wekrSn otSd .S

METHOD SUMMARY:

CliT . CADIS U.S., Inc.T Job Number: 400-46183-1T

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
MT cury, Low LTvTl (CVAFS)	L PEN.	EPATl631ET	
PT paTatioT., MT cury, Low LTvTlT	L PEN.		EPATl631E

Lab References:

L PEN = . stAtner.ca PT sac olaT

Method References:

EPAT= US EnviTo. me. al PTo. ctioT. .gT cyT

METHOD / ANAL9ST SUMMAR9

Client: ARCADIS U.S., Inc., Job Number: 400-46183-1b

M: th1	Analyst1	Analyst ID:
EPA 1631Eb	Jones, Randyb	RJb

SAMPLD SUMMARY2

Client: ARCADIS U.S., Inc.b Job Number: 400-46183-1b

Lab Sample I2	CIDeR Sample I2	CIDeR Ma:r1x2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : ReReeRvedb
00-46183-1.	EFFLUENT.	Water.	03/12/2010 1345.	03/13/2010 0930.

SAMPL : S L SD

Client: ARCADIS U.S., Inc. Job Number: 400-46183-1.

ClientR Sample1 ID:d EFFLUENTa

Lab Sample ID:. 00-46183-1. Date Sampled: 03/12/2010 1345b
Client Matrix:. Water. Date Received: 03/13/2010 0930.

1631E Mercury, LowD LevelR (CVAFS)D

Method:.	1631E.	Analysis Batch: 400-105b73.		Instrument ID:.	HYDRA.
Preparation:.	1631E.	Prep Batch: 400-105b 5b		Lab File ID:.	/A.
Dilution:.	1.0.			Initial Weight/Volume:.	0 mL.
Date Analyzed:.	03/22/2010 1113.			Final Weight/Volume:.	0 mL.
Date Prepared:.	03/15/2010 1200.				

Analyte.	Result (ng/L).	Qualifier.	RL.
Mercury.	<0.50.		0.50.

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc. Job Number: 400-46183-1.

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 400-105645					
LCS 400-105645/2-A	Lab Control Sample		Water	1631E	
LCSD 400-105645/3-A	Control Sample Duplicate		Water	1631E	
MB 400-105645/1-A	Method Blank		Water	1631E	
400-46183-10	EFFLUENT		Water	1631E	
400-46209-A-1-B MS	Matrix Spike		Water	1631E	
400-46209-A-1-C MSD	Matrix Spike Duplicate		Water	1631E	
Analysis Batch: 400-105673					
LCS 400-105645/2-A	Control Sample		Water	1631E	400-105645
LCSD 400-105645/3-A	Control Sample Duplicate		Water	1631E	400-105645
MB 400-105645/1-A	Method Blank		Water	1631E	400-105645
400-46183-10	EFFLUENT		Water	1631E	400-105645
400-46209-A-1-B MS	Matrix Spike		Water	1631E	400-105645
400-46209-A-1-C MSD	Matrix Spike Duplicate		Water	1631E	400-105645

Report Basis
= Total

Method Blank - Batch1 400-105645R **Method: 1631ER**
Preparation: 1631ER

LUb STmplT IDT MB 400-105645/1-AT
CliT MT xU WU
Dilu. o. 1.0
DT . lyzUdb 03/22/2010 1049.
DT Pb pu db 03/15/2010 1200

lys s BaOchb 400-105673T
Pb p BaOchb 400-1056450
UnitsT g/LU

InsT ume. IDT HYDRAT
LUb F0T IDT N/u
InitiTl WUghb/Volume:. 40 mLU
F0 l WUghb/Volume:. 40 mLU

lyT	sultT	Qu. IRT	LU
MT curyT	<0.50		0.50

Lab Control Sample/R **Method: 1631ER**
Lab Control Sample Duplicate RecoRery Report - Batch: 400-105645R **Preparation: 1631ER**

LCS LUb STmplT IDTLCS 400-105645/2-AT
CliT MT xU WU
Dilu. o. 1.0
DT . lyzUdb 03/22/2010 10570
DT Pb pu db 03/15/2010 1200

lys s BaOchb 400-105673T
Pb p BaOchb 400-1056450
UnitsT g/LU

InsT ume. IDT HYDRAT
LUb F0T IDT N/u
InitiTl WUghb/Volume:. 40 mLU
F0 l WUghb/Volume:. 40 mLU

LCSD LUb STmplT IDTLCSD 400-105645/3-AT
CliT MT xU WU
Dilu. o. 1.0
DT . lyzUdb 03/22/2010 11050
DT Pb pu db 03/15/2010 1200

lys s BaOchb 400-105673T
Pb p BaOchb 400-1056450
UnitsT g/LU

InsT ume. IDT HYDRAT
LUb F0T IDT N/u
InitiTl WUghb/Volume:. 40 mLU
F0 l WUghb/Volume:. 40 mLU

	% . c.T						
lyT	LCST	LCSDT	LUn.	PDT	PD LUn.	LCS Qu. IT	LCSD Qu. IT
MT curyT	970	100	79 - 1210	3T	20		

CaOculT o. s . pu formed before rou. db g .o .v o.d rou. d-off errors . cTlculT d results3.T

CliT . C0DIS U.S., Inc.T Job Number: 400-46183-10

Matrix Spike/R **Method: 1631ER**
Matrix Spike Duplicate Recor Rery Report - Batch: 400-105645R **Preparation: 1631ER**

MS LUb STmplT IDT	400-46209-A-1-B MST	lys s Ba0chb 400-105673T	InsT ume. IDT HYDRAT
CliT MT xU	WU	Pb p Ba0chb 400-1056450	LUb F0T IDT N/u
Dilu. o.	1.0		InitiTl WUghb Volume:. 40 mLU
DT . lyzUdb	03/22/2010 12250		F0 l WUghb Volume:. 40 mLU
DT Pb pu db	03/17/2010 0930		
MSD LUb STmplT IDT	400-46209-A-1-C MSDT	lys s Ba0chb 400-105673T	InsT ume. IDT HYDRAT
CliT MT xU	WU	Pb p Ba0chb 400-1056450	LUb F0T IDT N/u
Dilu. o.	1.0		InitiTl WUghb Volume:. 40 mLU
DT . lyzUdb	03/22/2010 1233T		F0 l WUghb Volume:. 40 mLU
DT Pb pu db	03/17/2010 0930		

	% . c.T					
lyT	MST	MSDT	L m.	PDT	PD L m.	MS Qu. IT	MSD Qu. IT
MT curyT	14B	53T	71 - 1250	84B	24B	F0	F0

Ca0culT o. s . pu formed before rou. db g .o .v o.d rou. d-off errors . cTlculT d results3.T

DATA RhPORT:ND D ALIFa RSh

Client: ARCADIS U0S.,.Inc .Job Number: 40 -46183-10

Lab Sectionp	u alifierD	Descriptionp
Metalsb		
	Fb	MS or MSD exceeds the control limitsb
	Fb	RPD of the MS and MSD exceeds the control limitsb

SERIAL NUMBER: 09270

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:
BOTTLE ORDER NO.:
ORDER - LOG-IN NO.: C400-46183

CLIENT: ARCADIS
ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607
PAGE: 1 OF 1

PROJECT NAME: UNC- Airport Rd.
PROJECT NO.: NC000239.0018.00001
CLIENT PROJECT MANAGER: Alan Pinnix
PROJECT LOC. (STATE):

SAMPLED BY: Dave Twamley
CONTRACT / P.O. NO.:
CLIENT PHONE: 919-854-1282
CLIENT E-MAIL OR FAX: apinnix@arcadis-us.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☒ NORMAL - 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
☒ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION
Δ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: Low Level Mercury (1631)	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
3/12/10	1345	Effluent	X										X				3	

Page 13 of 14

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Dave Twamley	3/12/10	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	03/13/10	9:30	Δ YES ☒ NO		2.7°C

LAB USE ONLY - SAMPLE NUMBER

TAL-8251 (1207)

Logb Sam1 le 1 ecei1 Check List1

Client: ARCADIS U.S., Inc.b

Job Number: 400-46183-1b

Logb Number: 46183P

List Source: TestAmerica PensacolaP

Creator: Chea, VandaP

List Number: 1P

QuestionP	T / F/ NAP	CommentP
Radioactivityb either bvau not meauuredS , i fSneauured, ib at or belobvT ackgroundS	N/Ab	
The cooler' cubtodyb eal, ifSprebent, ib intact.b	N/Ab	
The cooler or bampleb dSnot bappeauto bave been compromibedS tamperedSwith.b	Trueb	
Sampleb were receivedSn ice.b	Trueb	
Cooler Temperature ib acceptable.b	Trueb	2.7°Cb
Cooler Temperature ib ecorded.b	Trueb	
COC ib prebent.b	Trueb	
COC ib filledSut in in kSandSegible.b	Trueb	
COC ib filledSut bwithuall pertinent infSm ation.b	Trueb	
There aue no discrepancieb et ween the bample IDb n t he containerb andS the COC.b	Trueb	
Sampleb aue receivedSwithin Holding Time.b	Trueb	
Sample containerb have legible labelb.b	Trueb	
Containerb aue not brokeen or leaking.b	Trueb	
Sample collection bdate/timeb aue probvided.b	Trueb	
Appropriate bample containerb aue ubed.b	Trueb	
Sample bottleb aue completelybfilled.b	Trueb	
There ib ufficient bvS. bfS all requebtedSanalybeb, incl. anybequebtedS MS/MSDb	Trueb	
VOA bample bvialb dSnot bhave beadspace or bub le ib <6mm (1/4") in b diameter.b	Trueb	
IfSneceb auy, btaffShave been infSme dS faanyb hut bhu dSime or quickSTAT b needsS	Trueb	
Multiphauic bampleb aue not prebent.b	Trueb	
Sampleb dSnot require b plitting or compobiting.b	Trueb	
Ib the FieldSSampler' name prebent on COC?b	Trueb	
Sample Prebervation VerifiedS	Trueb	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-56888-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
4/30/2010 10:17 AM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
04/30/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY:

CliTntT. CADIS U.S., .nc.T Job Number: 680-56888-1c

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatil, . anic, Compou.ds (GC/MS),	TAL SAV,	SWB4, 8.2,0 B,	
Pur. and T,ap,	TAL SAV,		SW, 4, 50 30B,
M, tals (ICP),	TAL SAV,	SW, 4, 60 10C,	
P, pa,atiɒ. Total R, ov, abl, or Dissolv, d M, tals,	TAL SAV,		SW, 4, 3005A,

Lab References:

TAL SAV = T, stAmer. a Savannah,

Method References:

SW, 4, = "T, st M, thods For Evaluating,Solid Wast, Physical/Ch,m. al M, thods", Thi,d Editiɒ. Nov,mber 19, And Its . Updat, s.,

METHOD / ANAL9ST SUMMAR9

Client: ARCADIS U.S., Inc., Jo Numbe,: 680-56888-1u

M: thP	Analyst1	Analyst ID:
SW846 8260BN	Bearden, RobertN	BN
SW846 6010CN	Bland, BrianN	BCBN

SAMPLD SUMMARY2

Client: ARCADIS U.S., Inc.N

Job Number: 680-56888-1N

Lab Sample I2	ClD2R Sample I2	ClD2R Ma:rPx2	a:e/Ti2me : Sampledb	a:e/Ti2me : ReReRvedb
680-56888-1U	luentU	WaterU	04/19/2010 0830U	04/20/2010 0915U

Client: ARCADIS U.S., Inc.U Job Number: 680-56888-1U

ClientRSampleRID:d EffluentR

Lab Sample ID:U 680-56888-1U Date Sampled: 04/19/2010 0830U
Client MatriU:U WaterU Date Received: 04/20/2010 0915U

8260BdVolatileROrganic Compounasd(GC/MS):

Method:U 260BU Analysis Batch: 680-166896U Instrument ID:U MSP2U
Preparation:U 030BU Lab File ID:U p0296.dN
Dilution:U 1.0U Initial Weight/Volume:U m Lc
Date Analyzed:U 04/27/2010 1750U Final Weight/Volume:U m Lc
Date Prepared:U 04/27/2010 1750U

AnalyteU	Result (ug/L)	QualifierU	RLc
AcetoneU	25	U	25U
BenzeneU	1.0	U	1.0U
BromoformU	1.0	U	1.0U
BromomethaneU	1.0	U	1.0U
Carbon disulfideU	2.0	U	2.0U
Carbon tetrachlorideU	1.0	U	1.0U
ChlorobenzeneU	1.0	U	1.0U
ChlorodibromomethaneU	1.0	U	1.0U
ChloroethaneU	1.0	U	1.0U
ChloroformU	1.0	U	1.0U
ChloromethaneU	1.0	U	1.0U
cis-1,2-DichloroetheneU	1.0	U	1.0U
cis-1,3-DichloropropeneU	1.0	U	1.0U
DichlorobromomethaneU	1.0	U	1.0U
1,1-DichloroethaneU	1.0	U	1.0U
1,2-DichloroethaneU	1.7U		1.0U
1,1-DichloroetheneU	1.0	U	1.0U
1,2-DichloropropaneU	1.0	U	1.0U
Diethyl etherU	64N		10U
EthylbenzeneU	1.0	U	1.0U
2-HeUanoneU	10	U	10U
Methylene ChlorideU		.0	5.0U
2-Butanone (MEK)U	10	U	10U
4-Methyl-2-pentanone (MIBK)U	10	U	10U
StyreneU	1.0	U	1.0U
1,1,2,2-TetrachloroethaneU	1.0	U	1.0U
TetrachloroetheneU	1.0	U	1.0U
TolueneU	1.0	U	1.0U
trans-1,2-DichloroetheneU	1.0	U	1.0U
trans-1,3-DichloropropeneU	1.0	U	1.0U
1,1,1-TrichloroethaneU	1.0	U	1.0U
1,1,2-TrichloroethaneU	1.0	U	1.0U
TrichloroetheneU	1.0	U	1.0U
Vinyl chlorideU	1.0	U	1.0U
Xylenes, TotalU	2.0	U	2.0U

SurrogateU	%RecU	QualifierU	Acceptance LimitsU
4-BromofluorobenzeneU	95U		75 - 120U
DibromofluoromethaneU	9U		75 - 121U
Toluene-dN(Surr)U	103U		75 - 120U

Client: ARCADIS U.S., Inc.U Job Number: 680-56888-1U

ClientRSampleRID:d EffluentR

Lab Sample ID:U 680-56888-1U Date Sampled: 04/19/2010 0830U
Client MatriU:U WaterU Date Received: 04/20/2010 0915U

6010C MetalsI(ICP)-TotalRRecoverableP

Method:U	6010CU	Analysis Batch: 680-166990U		Instrument ID:U	ICPDU
Preparation:U	3005AU	Prep Batch: 680-166555U		Lab File ID:U	N/AU
Dilution:U	1.0U			Initial Weight/Volume:U	0 m Lc
Date Analyzed:U	04/27/2010 1804N			Final Weight/Volume:U	0 m Lc
Date Prepared:U	04/23/2010 124N				

AnalyteU	Result (ug/L)U	QualifierU	RLc
ArsenicU	20		20U
ChromiumU	10		10U
CopperU	23U		20U
LeadN	10		10U
ZincU	97U		20U

DATA RhPORT:NP D ALIFIa RSh

Client: ARCADIS U.S., Inc.U Job Number: 680-56888-1U

Lab Sectionp	u alifierD	Descriptionp
GC/MS VOA1		
	U1	icates the analyte was analyzed for but not detected.1
Metals1		
	U1	icates the analyte was analyzed for but not detected.1

Cl1 t1 ARCADIS U.S., I1c.1 Job Number: 680-56888-.

MethP Blank - Batc hP 0 -1P 96u **MethP 0 BR**
Preparation: B030BR

Lab Sampl1 ID, MB 680-. 91/7N
Cl1 t Mat Wat1
Dil ut1o. . 0.
Dat1 AnalyzBdN 04/27/20. 0 . 50.
Dat1 P1 paN dN 04/27/20. 0 . 50.

Analys1s Batch1 680-. 91
P1 p Batch1N/A,
U1 ts1 ug/L.

I1st1ume. t ID, MSP2N
Lab F11 ID, pq17N.dN
I1 t1al W, ght/Volume:. 5 mL.
F1 al W, ght/Volume:. 5 mL.

A, alyt1	R1sult1	Qual1	RL.
Ac1to	25.	U1	25.
B1 z	. 0.	U1	.0.
B1bmoform	. 0.	U1	.0.
B1bmomethaN	. 0.	U1	.0.
CaNbo. dNsulf1d	2.0.	U1	2.0.
CaNbo. t1t1achlor.d	. 0.	U1	.0.
Chlorobe. z	. 0.	U1	.0.
ChlorodNbromometha	. 0.	U1	.0.
Chloroetha	. 0.	U1	.0.
Chloroform	. 0.	U1	.0.
Chlorometha	. 0.	U1	.0.
c1s-1,2-Dichloroeth	. 0.	U1	.0.
c1s-1,3-Dichlorop,op	. 0.	U1	.0.
Dichlorobromometha	. 0.	U1	.0.
1,1-Dichloroetha	. 0.	U1	.0
1,2-Dichloroetha	. 0.	U1	.0
1,1-Dichloroeth	. 0.	U1	.0
1,2-Dichlorop,opaN	. 0.	U1	.0
Di, thyl eth	0.	U1	0.
Ethylbe. zB	. 0.	U1	.0.
2-H1 aNo.	0.	U1	0.
M1thyl1 Chlor.dN	5.0.	U1	5.0.
2-ButaNo. (MEK)1	0.	U1	0.
4-M1thyl-2-p, taNo. (MIBK)	0.	U1	0.
Sty	. 0.	U1	.0.
1,1,2,2-Tet1achloroetha	. 0.	U1	.0
Tet1achloroeth	. 0.	U1	.0.
Tolue	. 0.	U1	.0.
t1aNs-1,2-Dichloroeth	. 0.	U1	.0.
t1aNs-1,3-Dichlorop,op	. 0.	U1	.0.
1,1,1-Tr.chloroetha	. 0.	U1	.0
1,1,2-Tr.chloroetha	. 0.	U1	.0
Tr.chloroeth	. 0.	U1	.0.
V1 yl chlor.dN	. 0.	U1	.0.
Xyl1 s, Total1	2.0.	U1	2.0.

Surrogat4	% R1c1	Acc1ptaNc1 L.m.ts1
4-B1bmofluorobe. zB	91	75 - . 20.
DibromofluoromethaN	95.	75 - . 2N
Tolue. - dN (Surr}1	02N	75 - . 20.

Cl1 t1 ARCADIS U.S., I1c.1 Job Number: 680-56888-.

LabP Control S ample/P **MethP 0 BR**
LabP Control S ample S uplicate Recov Rery Reput - Batc hP 0 -1P 96 **Preparation: S 030BR**

LCS Lab Sampl1 ID,	LCS 680-. 91/4N		Anaiys1s Batch1 680-. 91		I1st1ume. t ID, MSP2N
Cl1 t Mat1	Wat1		P1 p Batch1N/A,		Lab F11 ID, pq1 .dN
Dilut1o.	. 0		U1 ts1 ug/L.		I1 t1al W, ght/Volume:. 5 mL.
Dat1 AnalyzBdN	04/27/20. 0 . 0. 2N				F1 al W, ght/Volume:. 5 mL.
Dat1 P1 paN dN	04/27/20. 0 . 0. 2N				

LCSD Lab Sampl1 ID,	LCSD 680-. 91/5.		Anaiys1s Batch1 680-. 91		I1st1ume. t ID, MSP2N
Cl1 t Mat1	Wat1		P1 p Batch1N/A,		Lab F11 ID, pq170.dN
Dilut1o.	. 0.		U1 ts1 ug/L.		I1 t1al W, ght/Volume:. 5 mL.
Dat1 AnalyzBdN	04/27/20. 0 . 042N				F1 al W, ght/Volume:. 5 mL.
Dat1 P1 paN dN	04/27/20. 0 . 042N				

	% R1c.1					
A, alyt1	LCS1	LCSD,	L.m.t1	RPD,	RPD L.m.t1	LCS Qual1 LCSD Qual1
Ac1to.	0.	77N	7 - . 75.	4N	50.	
B1 zB	95.	91	77 - 191	0.	30.	
B1omoform.	04N	08.	2 - 1331	4N	30.	
B1omomethaN	491	0.	2 - . 4N	8	50	.
CaNbo. dNsulf1dN	74N	74N	55 - 131		30.	
CaNbo. t1t1achlor.dN	04N	031	7N - 135		130.	
Chlorobe. zB	91	04N	5 - .		30.	
ChlorodNbromomethaN	06.		75 - 1331	4N	30.	
ChloroethaN	75.	731	40 - . 5.	2N	50.	
Chloroform.	91	95.	2 - . 20		130.	
ChloromethaN		7N	4N - . 42N	2N	50.	
c1s-1,2-Dichloroeth1	4N	4N	9 - 134N	0.	30.	
c1s-1,3-Dichlorop,op	7N		7N - . 2		130.	
DichlorobromomethaN	31		7N - . 27N	2N	30.	
,1 -DichloroethaN	90.	7N	74 - . 27N	4N	30	
1,2-DichloroethaN	091	07N	- 132N	2N	30	
1,1-Dichloroeth1	77N	77N	2 - . 4N	0.	30	
1,2-Dichlorop,opaN	091	05.	73 - . 24N	4N	30	
Ethylbe. zB	05.	07N	- .	2N	30.	
2-H1 aNo.	07N	2N	34 - .	4N	30.	
M1thyl1 Chlor.dN		791	70 - . 25.	2N	30.	
2-ButaNo. (MEK)1	92N	91	33 - . 57N	31	30.	
4-M1thyl-2-p, taNo. (MIBK)1	31	0	40 - . 5.	2N	30.	
Styb	0.	04N	2 - . 22N	31	30.	
,1, 2,2-Tet1achloroethaN	05.	08.	9 - . 291	2N	30	
Tet1achloroeth1	95.	991	7N - . 2N	4N	30.	
Tolue.	00.	00.	- . 7N	0.	30.	
t1aNs-1,2-Dichloroeth1	7N	791	72 - 131		30.	
t1aNs-1,3-Dichlorop,op,	24N		73 - . 2N	7N	30.	
,1,1 -Tr.chloroethaN	02N	04N	7N - . 27N	31	30	
1,1,2-Tr.chloroethaN	06.	05.	75 - . 2N		30	
Tr.chloroeth1	931	91	4 - . 5.	31	30.	
V1 yl chlor.dN	77N	74N	59 - . 44N	4N	50.	

Cl1 t1 ARCADIS U.S., I1c.1 Job Number: 680-56888-.

LabP Control S ample/P **MethP 0 BR**
LabP Control S ample D uplicate Recov Rery Reput - Batc hP 0 -1P 96u **Preparation: B030BR**

LCS Lab Sampl1 ID,	LCS 680-. 91/4N	Anaiys1s Batch1	680-. 91	I1st1ume. t ID,	MSP2N
Cl1 t Mat1	Wat1	P1 p Batch1	N/A,	Lab F11 ID,	pq1 .dN
Dilut1o	1.0.	U1 ts1	ug/L.	I1 t1al W, ght/Volume:.	5 mL.
Dat1 AnalyzBdN	04/27/20. 0 . 0. 2N			F1 al W, ght/Volume:.	5 mL.
Dat1 P1 paN dN	04/27/20. 0 . 0. 2N				

LCSD Lab Sampl1 ID,	LCSD 680-. 91/5.	Anaiys1s Batch1	680-. 91	I1st1ume. t ID,	MSP2N
Cl1 t Mat1	Wat1	P1 p Batch1	N/A,	Lab F11 ID,	pq170.dN
Dilut1o	1.0.	U1 ts1	ug/L.	I1 t1al W, ght/Volume:.	5 mL.
Dat1 AnalyzBdN	04/27/20. 0 . 042N			F1 al W, ght/Volume:.	5 mL.
Dat1 P1 paN dN	04/27/20. 0 . 042N				

A, alyt1	% R1c.1 LCS1	LCSD,	L.m.t1	RPD,	RPD L.m.t1	LCS Qual1	LCSD Qual1
Xyl1 s, Total1	02N	06.	4 - .	4N	30.		

Surrogat1	LCS % R1c1	LCSD % R1c1	Acc1ptaNc1 L.m.ts1
4-B1omofluorobe. zB	031	06.	75 - . 20.
Di þromofluoromethaN	95.	94N	75 - . 2N
Tolue. - dN (Surr)1	05.	02N	75 - . 20.

Cl1 t1 ARCADIS U.S., I1c.1 Job Number: 680-56888-.

MethP Blank - Batc hP 0 -1P555u **MethP 0 10CR**
Preparation: B005Au
Tutal RecoRverableR

Lab Sampl1 ID, MB 680-. 555 /19-A, Anąlys1s Batch1 680-. 990. I1st1ume. t ID, ICPD,
Cl1 t Mat Wat1 P1 p Batch1 680-. 555. Lab F11 ID, N/A,
Dilut1o. . 0. U1 ts1 ug/L. I1 t1al W, ght/Volume:. 50 mL.
Dat1 AnąlyzBdN 04/27/20. 0 . 754N F1 al W, ght/Volume:. 50 mL.
Dat1 P1 paN dN 04/23/20. 0 . 24N

A, alyt1	R1sult1	Qual1	RL.
A,s1 c1	20.	U1	20.
Chr1om.um.	0.	U1	0.
Copp,	20.	U1	20.
L. adN	0.	U1	0.
Z. c1	20.	U1	20.

LabP Control Sample - BatchP 0 -1P555u **MethP 0 10CR**
Preparation: B005Au
Tutal RecoRverableR

Lab Sampl1 ID, LCS 680-. 555 /20-A, Anąlys1s Batch1 680-. 990. I1st1ume. t ID, ICPD,
Cl1 t Mat1 Wat P1 p Batch1 680-. 555. Lab F11 ID, N/A,
Dilut1o. . 0. U1 ts1 ug/L. I1 t1al W, ght/Volume:. 50 mL.
Dat1 AnąlyzBdN 04/27/20. 0 . 7591 F1 al W, ght/Volume:. 50 mL.
Dat1 P1 paN dN 04/23/20. 0 . 24N

A, alyt1		Spiķ1 Amou. t1	R1sult1	% R1c.1	L.m.t1	Qual1
A,s1 c1		2000.	2060.	031	75 - . 25.	
Chr1om.um.	31	200. 1	2	07N	75 - . 25.	
Copp,		250.	2N4N	05.	75 - . 25.	
L. adN		500.	52N	06.	75 - . 25.	
Z. c1		500.	531	07N	75 - . 25.	

Serial Number 031542

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: UNC-Airport Rd.	PROJECT NO.: NC000239.0018.00001	PROJECT LOCATION (STATE): NC	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX	DATE DUE
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260)	REQUIRED ANALYSIS: Metals (6010)*	REMARKS
4/19/10	830	Effluent		X				3	1	*Report: Arsenic, Chromium, copper, lead, and zinc.

PRESERVATIVE: HCl, HNO_3

NUMBER OF CONTAINERS SUBMITTED

Page 12 of 13

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4/19/10	1230						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	4/20/10	0915	YES ○ NO ○		680-56888	Temp 0.4

TAL8240-680 (1207)

Log-in Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 680-56888-1

Log-in Number: 568881

List Source: TestAmerica Savannah

Creator: Daughtry, Beth

List Number: 1

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Was the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	N/A	

ANALYTICAL REPORT

Job Number: 400-46949-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Mark Swafford
Project Mgmt. Assistant
4/26/2010 4:38 PM

Designee for
Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
04/26/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page.

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CommentsL
No additional co. n tS. k

ceipt L
All samples wekS rScSved in g ood condition within tSpek raturS rSq uirS n tS.S

Metals L
Mekhod 1631E: The matrix spike / matrix spike duplicatS(MS/MSD) rScovekies for batch 400-107595\400-107637 wekS outSde contro. k imitS. The asskociatSd la boratory contro. sample (LCS) rScovek y mek accSp tancS critSria. Data was fuagged and rSp ortSd as iskS

No othek analykical or quality isskd1 wekrSn otSd .S

METHOD SUMMARY:

Cli) . CADIS U.S., Inc.) Job Number: 400-46949-1)

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
M) cury, Low L) v) l (CVAFS)	TAL PEN.	EPA)1631E)	
P) pa)atio., M) cury, Low L) v) l)	TAL PEN.		EPA)1631E)

Lab References:

TAL PEN = T) stA)merica P) sac ola)

Method References:

EPA)= US Envi)o. me. al P)o. ctio. .g) cy)

METHOD / ANAL9ST SUMMARL

Client: ARCADIS U.S., Inc.1 Job Number: 400-46949-1c

M: thP	Analyst1	Analyst ID:
EPA 1631Ec	Jones, Randyc	Jc

SAMPc SUMMARY2

Client: ARCADIS U.S., Inc.c

Job Number: 400-46949-1c

ab Sample l2	ClDeR Sample l2	ClDeR Ma:rPx2	a:e/Tie2ne : Sampledb	a:e/Tie2ne : ReReeRvedb
400-46949-1l	NTI	Waterl	04/19/2010 0830l	04/20/2010 1013l

SAMP SL SL

Client: ARCADIS U.S., Inc. Job Number: 400-46949-1

Client Sample ID: EFFLUENT

Lab Sample ID: 400-46949-1 Date Sampled: 04/19/2010 0830
Client Matrix: Water Date Received: 04/20/2010 1013

1631E Mercury, Low Level (CVAFS)

Method:	1631E	Analysis Batch: 400-107637		Instrument ID:	HYDRA
Preparation:	1631E	Prep Batch: 400-107595		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	04/22/2010 1329			Final Weight/Volume:	40 mL
Date Prepared:	04/20/2010 1445				

Analyte	Result (ng/L)	Qualifier	RL
Mercury	<0.50		0.50

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc. Job Number: 400-46949-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 400-107595					
LCS 400-107595/26-A	Lab Control Sample		Water	1631	
CSD 400-107595/27-A	Control Sample Duplicate		Water	1631E	
MB 400-107595/25-A	Method Blank		Water	1631E	
400-46923-A-2-B MS	Matrix Spike		Water	1631E	
400-46923-A-2-C MSD	Matrix Spike Duplicate		Water	1631E	
400-46949-1	EFFLUENT		Water	1631E	
Analysis Batch: 400-107637					
CS 400-107595/26-A	Control Sample		Water	1631E	400-107595
CSD 400-107595/27-A	Control Sample Duplicate		Water	1631E	400-107595
MB 400-107595/25-A	Method Blank		Water	1631E	400-107595
400-46923-A-2-B MS	Matrix Spike		Water	1631E	400-107595
400-46923-A-2-C MSD	Matrix Spike Duplicate		Water	1631E	400-107595
400-46949-1	EFFLUENT		Water	1631E	400-107595

Report Basis
= Total

MethP Blank - Batc hP 400-107595c

Method: 1631Ec
Preparation: 1631Ec

L. b S) mpl4 ID) MB 400-107595/25-A)
Cli) M1 ix4 W,
i lu.io. 1.04
. l yzBdN 04/22/2010 0947c
Pc p, dN 04/20/2010 14454

l ysis Bc chc 400-107637c
Pc p Bc chc 400-1075954
Units g/L.

In$ ume. ID) HY4
L. b Fil4 ID) N/c
Initi)l W, ighd Volume:. 40 mL.
Fin)l W, ighd Volume:. 40 mL.

l yt)	sul	Qual4	L.
M1 cury)	<0.504		0.504

Lab Control Sample/c
Lab Control Sample Duplicate Recovery Report - Batch: 400-107595c

Method: 1631Ec
Preparation: 1631Ec

LCS L. b S) mpl4 ID) LCS 400-107595/26-A)
Cli) M1 ix4 W,
i lu.io. 1.04
. l yzBdN 04/22/2010 09554
Pc p, dN 04/20/2010 14454

l ysis Bc chc 400-107637c
Pc p Bc chc 400-1075954
Units g/L.

In$ ume. ID) HY4
L. b Fil4 ID) N/c
Initi)l W, ighd Volume:. 40 mL.
Fin)l W, ighd Volume:. 40 mL.

LCSD) L. b S) mpl4 ID) LCSD) 400-107595/27-A)
Cli) M1 ix4 W,
i lu.io. 1.04
. l yzBdN 04/22/2010 10034
Pc p, dN 04/20/2010 14454

l ysis Bc chc 400-107637c
Pc p Bc chc 400-1075954
Units g/L.

In$ ume. ID) HY4
L. b Fil4 ID) N/c
Initi)l W, ighd Volume:. 40 mL.
Fin)l W, ighd Volume:. 40 mL.

	% . c.)						
l yt)	LCS)	LCSD)	Limit)	Pc	Pc Limit)	LCS Qu.l4	LCSD) Qu.l4
M1 cury)	84)	86)	79 - 1214	2c	204		

Cli) . CADIS U.S., Inc.) Job Number: 400-46949-14

Matrix Spike/c **Method: 1631Ec**
Matrix Spike Duplicate Recovery Report - Batch: 400-107595c **Preparation: 1631Ec**

MS L. b S) mpl4 ID)	400-46923-A-2-B MS)	l ysis Bc chc 400-107637c	In$ ume. ID) HY4
Cli) M1 ix4	W,	Pc p Bc chc 400-1075954	L. b Fil4 ID) N/c
i lu.io.	1.04		Initi)l W, ighd Volume:. 40 mL.
. l yzBdN	04/22/2010 1116)		Fin)l W, ighd Volume:. 40 mL.
Pc p, dN	04/21/2010 15154		

MSD)L. b S) mpl4 ID)	400-46923-A-2-C MSD)	l ysis Bc chc 400-107637c	In$ ume. ID) HY4
Cli) M1 ix4	W,	Pc p Bc chc 400-1075954	L. b Fil4 ID) N/c
i lu.io.	1.04		Initi)l W, ighd Volume:. 40 mL.
. l yzBdN	04/22/2010 1124)		Fin)l W, ighd Volume:. 40 mL.
Pc p, dN	04/21/2010 15154		

	% . c.)						
l yt)	MS)	MSD)	Limit)	Pc	Pc Limit)	MS Qu.l4	MSD)Qu.l4
M1 cury)	9	-2c	71 - 1254	37c	24)	Fc	Fc

DATA RhPORT:NL L ALIfa RSh

Client: ARCAD4S U.S., 4nc.l Job Number: 400-46949-14

Lab Sectionp	u alifierL	Descriptionp
Metalsu		
	F.	MS or MSD exceeds the control limitsu
	Fb	RPD of the MS and MSD exceeds the control limitsb

SERIAL NUMBER: 09268

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:
BOTTLE ORDER NO.:
ORDER - LOG-IN NO.: C400 46949

CLIENT: ARCADIS
ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607
PAGE: 1 OF 1

PROJECT NAME: UNC-Airport Rd.
PROJECT NO.: NC000239.0018.00001
CLIENT PROJECT MANAGER: Alan Pinnix
PROJECT LOC. (STATE): NC

SAMPLED BY: Dave Twamley
CONTRACT / P.O. NO.:
CLIENT PHONE: 919-854-1282
CLIENT E-MAIL OR FAX: apinnix@arcadis-us.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☒ NORMAL - 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
☒ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION
Δ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: Low level Hg 1631	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
4/19/10	830	Effluent	X										X				3	

LAB USE ONLY - SAMPLE NUMBER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Jennifer Ortz (EMPTY CONTAINERS)	4/4/10	1620	David Twamley	4/19/10	12:30			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT? Δ YES Δ NO	CUSTODY SEAL NO.	REMARKS:
	4/20/10	10:13			2.2°C

TAL-8251 (1207)

Logb SamP le ReceiP Check ListP

Client: ARCADIS U.S., Inc.b

Job Number: 400-46949-1b

Logb Number: 469491

List Source: TestAmerica Pensacola1

Creator: Hor, Koma1

List Number:

Question1	/ F/ NA1	Comment1
Radioactivity eitb r was not meb asuredb or, if meb asuredb, is at or below b ackgroundb C	N/Ab	
Tb cooler' s custody sCal, if preb sCt, i s intact.b	N/Ab	
Tb cooler or samplеb s do not appeb ar to bavC been compromi sCd or b tampereb d witb.b	Trueb	
amplеb s wCe recei vCd on ice.b	Trueb	
Cooler Temperature is acceptable.b	Trueb	
Cooler Temperature is recordCd.b	Trueb	2.2°Cb
COC is preb sCt.b	Trueb	
COC is filleb d out in inb k aCd legible.b	Trueb	
COC is filleb d out witb all pertinent inbformation.b	Trueb	
Tb re are no discrepaCciеb s betwC tb sample IDs on tb cont ainers aCd b tb COC.b	Trueb	
amplеb s are receivCd witbin Holdinb g Time.b	Trueb	
ample containers bavC leb gible la el s.b	Trueb	
Containers are not broku or leb akinb g.b	Trueb	
ample collection date/timеb s are providCd.b	Trueb	
Appropriate sample containers are usCd.b	Trueb	
ample bottlеb s are completely filleb d.b	Trueb	
Tb re i s sufficient vol. for all requeb stеb d aCalysCs, incl. aCy requeb stеb d b MS/MSDsC	Trueb	
VOA sample vials do not bavC b adspace or bub le is <6mm (1/4") in b diameter.b	Trueb	
If neceb ssary, staff bavC been inbformeb d of aCy shCrt bold time or quick TAT b dsC	Trueb	
Multipbas ic samplеb s are not preb sCt.b	Trueb	
amplеb s do not require splittinb g or compositinb g.b	Trueb	
Is tb Field Sbampler's nbame preb sCt on COC?b	Trueb	
ample Preb sCrvation Verifieb dC	Trueb	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-57949-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Kathryn Smith

Approved for release.
Kathryn Smith
Project Manager I
6/7/2010 3:25 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
06/07/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY:

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatile Organic Compounds (GC/MS).	TAL SAV.	SW84. 8260B.	
Purge and Trap.	TAL SAV.		SW84. 50 30B.
Metals (ICP).	TAL SAV.	SW84. 60 10C.	
P. paration, Extractable Metals.	TAL SAV.		SM 3030C.

Lab References:

TAL SAV . TestAmerica Sa. anna.

Method References:

SM . .Standard Met. ods For T. Examination Of Water And Wastewater.,.

SW84. . .Test Met. ods For Evaluating Solid Waste, Physical/C. mical Met. ods., T. ird Edition, No. mber 19. And Its . Updates.

METHOD / ANAL9ST SUMMARL

Client: ARCADIS U.S., Incb

Job Number: 680-57949-1.

M: th1		Analyst1	Analyst ID:
SW846	8260B.	Lanier, Carolyn.	CL.
SW846	8260B.	Waldorf, Jonathan.	JW.
SW846	6010C.	Bland, Brian.	BCB.

SAMPc SUMMARY2

Client: ARCADIS U.S., Incb

Job Number: 680-57949-1.

ab Sample I2	Cl De c Sample I2	Cl De c Ma:r1x2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Receovedb
680-57949-1.	E4luent.	Water.	05/24/2010 0700.	05/25/2010 0928.

Client: ARCADIS U.S., Incb Job Number: 680-57949-1.

Clientc Sample 1D:d **Effluentc**

Lab Sample ID:. 680-57949-1. Date Sampled: 05/24/2010 0700.
Client . atrix:. Water. Date Received: 05/25/2010 0928.

8260Bd Volatile 1Organic Compounas (GC/MS):

ethod:.	8260B.	Analysis Batch: 680-170190.	Instrument ID:.	SP.
Preparation:.	5030B.		Lab File ID:.	p0541.d.
Dilution:.	1.0.		Initial Weight/Volume:.	5 mL.
Date Analyzed:.	05/30/2010 1543.		Final Weight/Volume:.	5 mL.
Date Prepared:.	05/30/2010 1543.			

Analyte.	Result (ug/L)b	Qualifier.	RL.
Acetone.	25.	U.	25.
Benzene.	1.0.	U.	1.0.
Bromoform.	1.0.	U.	1.0.
Bromomethane.	1.0.	U.	1.0.
Carbon disulfide. 0. .	2	U.	2.0.
Carbon tetrachloride.	1.0.	U.	1.0.
Chlorobenzene.	1.0.	U.	1.0.
Chlorodibromomethane.	1.0.	U.	1.0.
Chloroethane.	1.0.	U.	1.0.
Chloroform.	1.0.	U.	1.0.
Chloromethane.	1.0.	U.	1.0.
cis-1,2-Dichloroethene.	1.0.	U.	1.0.
cis-1,3-Dichloropropene.	1.0.	U.	1.0.
Dichlorobromomethane.	1.0.	U.	1.0.
1,1-Dichloroethane.	1.0.	U.	1.0.
1,2-Dichloroethane.	8.4		1.0.
1,1-Dichloroethene.	1.0.	U.	1.0.
1,2-Dichloropropane.	1.0.	U.	1.0.
Diethyl ether.	330.	E4	10.
Ethylbenzene.	1.0.	U *b	1.0.
2-Hexanone.	10.	U.	10.
ethylene Chloride.	5.0.	U.	5.0.
2-Butanone (c EK)b	10.	U.	10.
4-. ethyl-2-pentanone (c IBK)b	10.	U.	10.
Styrene.	1.0.	U.	1.0.
1,1,2,2-Tetrachloroethane.	1.0.	U.	1.0.
Tetrachloroethene.	1.0.	U.	1.0.
Toluene.	1.0.	U.	1.0.
trans-1,2-Dichloroethene.	1.0.	U.	1.0.
trans-1,3-Dichloropropene.	1.0.	U.	1.0.
1,1,1-Trichloroethane.	1.0.	U.	1.0.
1,1,2-Trichloroethane.	1.0.	U.	1.0.
Trichloroethene.	1.0.	U.	1.0.
Vinyl chloride.	1.0.	U.	1.0.
Xylenes, Total. 0. .	2	U.	2.0.

Surrogate.	%Recb	Qualifier.	Acceptance Limits.
4-Bromofluorobenzene.	93.		75 - 120.
Dibromofluoromethane.	99.		75 - 121.
Toluene-d8 (Surr)b	111.		75 - 120.

Client: ARCADIS U.S., Incb Job Number: 680-57949-1.

Clientc Sample 1D:d **Effluentc**

Lab Sample ID:. 680-57949-1. Date Sampled: 05/24/2010 0700.
Client . atrix:. Water. Date Received: 05/25/2010 0928.

8260Bd Volatile 1Organic Compounas (GC/MS):

ethod:.	8260B.	Analysis Batch: 680-170470.	Instrument ID:.	SO2N
Preparation:.	5030B.		Lab File ID:.	o2002.d.
Dilution:.	5.0.		Initial Weight/Volume:.	5 mL.
Date Analyzed:.	06/03/2010 1151.	Run Type:. DL.	Final Weight/Volume:.	5 mL.
Date Prepared:.	06/03/2010 1151.			

Analyte.	Result (ug/L)b	Qualifier.	RL.
Acetone.	130.	U.	130.
Benzene.	5.0.	U.	5.0.
Bromoform.	5.0.	U.	5.0.
Bromomethane.	5.0.	U.	5.0.
Carbon disulfide.	10.	U.	10.
Carbon tetrachloride.	5.0.	U.	5.0.
Chlorobenzene.	5.0.	U.	5.0.
Chlorodibromomethane.	5.0.	U.	5.0.
Chloroethane.	5.0.	U.	5.0.
Chloroform.	5.0.	U.	5.0.
Chloromethane.	5.0.	U.	5.0.
cis-1,2-Dichloroethene.	5.0.	U.	5.0.
cis-1,3-Dichloropropene.	5.0.	U.	5.0.
Dichlorobromomethane.	5.0.	U.	5.0.
1,1-Dichloroethane.	5.0.	U.	5.0.
1,2-Dichloroethane.	9.4	D.	5.0.
1,1-Dichloroethene.	5.0.	U.	5.0.
1,2-Dichloropropane.	5.0.	U.	5.0.
Diethyl ether.	440.	D.	50.
Ethylbenzene.	5.0.	U.	5.0.
2-Hexanone.	50.	U.	50.
ethylene Chloride.	25.	U.	25.
2-Butanone (c EK)b	50.	U.	50.
4-. ethyl-2-pentanone (c IBK)b	50.	U.	50.
Styrene.	5.0.	U.	5.0.
1,1,2,2-Tetrachloroethane.	5.0.	U.	5.0.
Tetrachloroethene.	5.0.	U.	5.0.
Toluene.	5.0.	U.	5.0.
trans-1,2-Dichloroethene.	5.0.	U.	5.0.
trans-1,3-Dichloropropene.	5.0.	U.	5.0.
1,1,1-Trichloroethane.	5.0.	U.	5.0.
1,1,2-Trichloroethane.	5.0.	U.	5.0.
Trichloroethene.	5.0.	U.	5.0.
Vinyl chloride.	5.0.	U.	5.0.
Xylenes, Total.	10.	U.	10.

Surrogate.	%Recb	Qualifier.	Acceptance Limits.
4-Bromofluorobenzene.	96.		75 - 120.
Dibromofluoromethane.	86.		75 - 121.
Toluene-d8 (Surr)b	96.		75 - 120.

Client: ARCADIS U.S., Incb Job Number: 680-57949-1.

Clientc Sample 1D:d Effluentc

Lab Sample ID:. 680-57949-1. Date Sampled: 05/24/2010 0700.
Client . atrix:. Water. Date Received: 05/25/2010 0928.

6010C Metalsq (ICP):

ethod:.	6010C.	Analysis Batch: 680-170001.		Instrument ID:.	ICPD.
Preparation:.	3030C.	Prep Batch: 680-169693.		Lab File ID:.	169693.chr.
Dilution:.	1.0.			Initial Weight/Volume:.	50 mL.
Date Analyzed:.	05/26/2010 2136.			Final Weight/Volume:.	50 mL.
Date Prepared:.	05/25/2010 1537.				

Analyte.	Result (ug/L)b	Qualifier.	RL.
Arsenicb	20.	U.	20.
Chromium.	10.	U.	10.
Copper.	20.	U.	20.
Lead.	10	U.	10.
Zincb	100.	U.	100.

DATA RhPORT:N1 L ALIFa RSh

Client: ARCADIS U.S., Incb Job Number: 680-57949-1.

Lab Sectionp	u alifierL	Descriptionp
GC/MS VOA.		
	U.	Indicates the analyte was analyzed for but not detectedM
	*)	LCS or LCSD exceeds the control limits,
	Ec	Result exceeded calibration range.
	D.	Sample results are obtained from a dilution; the surrogate or . matrix spike recoveries reported are calculated from diluted . samples,
Metals,		
	U.	Indicates the analyte was analyzed for but not detectedM

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Method Blank - Batch: c0 -170190u

Method: c2P0 Bc
Preparation: 5030Bc

Lab Sample ID:. MB 680-170190/7.
Client Matrixe Water.
Dilution:. 1.0.
Date Analyz4d. 05/30/2010 1210.
Date P. pa. d. 05/30/2010 1210.

Analysis Batch) 680-170190.
P. p Batch) N/A.
Units) ug/Le

Instrument ID:. MSP.
Lab File ID:. pq3n1.d.
Initial Weight/Volume:. 5 mLe
Final Weight/Volume:. 5 mLe

Analyte.			Result.	Qual.	RLe
Acetone.			25.	U.	25.
B)n z4ne.	0.	.	1	U.	1.0.
B)omoform.	0.	.	1	U.	1.0.
B)omomethane.	0.	.	1	U.	1.0.
Ca.bon disulfid.			20.	U.	2 0.
Ca.bon tetrachlorid.	0.	.	1	U.	1.0.
Chlorobenz4ne.	0.	.	1	U.	1.0.
Chlorodibromomethane.	0.	.	1	U.	1.0.
Chloroethane.	0.	.	1	U.	1.0.
Chloroform.	0.	.	1	U.	1.0.
Chloromethane.	0.	.	1	U.	1.0.
cis-1,2-Dichloroeth)ne.	0.	.	1	U.	1.0.
cis-1,3-Dichlorop.op.ne.	0.	.	1	U.	1.0.
Dichlorobromomethane.	0.	.	1	U.	1.0.
1,1-Dichloroethane.	0.	.	1	U.	1.0.
1,2-Dichloroethane.	0.	.	1	U.	1.0.
1,1-Dichloroeth)ne.	0.	.	1	U.	1.0.
1,2-Dichlorop.opane.	0.	.	1	U.	1.0.
Diethyl eth)			10.	U.	10.
Ethylbenz4ne.	0.	.	1	U.	1.0.
2-H) xanone.			10.	U.	10.
Met hylene Chlorid.			5.0.	U.	5.0.
2-Butanone (MEK)4			10.	U.	10.
4-Met hyl-2-p.nt anone (MIBK)4			10.	U.	10.
Styene.	0.	.	1	U.	1.0.
1,1,2,2-Tetrachloroethane.	0.	.	1	U.	1.0.
Tetrachloroeth)ne.	0.	.	1	U.	1.0.
Toluene.	0.	.	1	U.	1.0.
trans-1,2-Dichloroeth)ne.	0.	.	1	U.	1.0.
trans-1,3-Dichlorop.op.ne.	0.	.	1	U.	1.0.
1,1,1-Trichloroethane.	0.	.	1	U.	1.0.
1,1,2-Trichloroethane.	0.	.	1	U.	1.0.
Trichloroeth)ne.	0.	.	1	U.	1.0.
Vinyl chlorid.	0.	.	1	U.	1.0.
Xylenes, Total.			20.	U.	2 0.

Surrogate.	% Rec.	Acceptance Limits)
4-B)omofluorobenz4ne.	95.	75 - 120.
Dibromofluoromethane.	105.	75 - 121.
Toluene-d. (Surr)4	111.	75 - 120.

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Lab1Control 6ample/1 **Method: c2R0 Bc**
Lab1Control 6ample Duplicate Recovery ReprRt - Batch: c 0 -170190u **Preparation: 5030Bc**

LCS Lab Sample ID:.	LCS 680-170190/4.	Analysis Batch)	680-170190.	Instrument ID:.	MSP.
Client Matrixe	Water.	P. p Batch)	N/A.	Lab File ID:.	pq353rd.
Dilution:.	1.0.	Units)	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4d.	05/30/2010 1012			Final Weight/Volume:.	5 mLe
Date P. pa. d.	05/30/2010 1012				

LCSD Lab Sample ID:.	LCSD 680-170190/5.	Analysis Batch)	680-170190.	Instrument ID:.	MSP.
Client Matrixe	Water.	P. p Batch)	N/A.	Lab File ID:.	pq355.d.
Dilution:.	1.0.	Units)	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4d.	05/30/2010 1042			Final Weight/Volume:.	5 mLe
Date P. pa. d.	05/30/2010 1042				

	% Rec.						
Analyte.	LCS.	LCSD.	Limit.	RPD.	RPD Limit.	LCS Qual.	LCSD Qual.
Acetone.		9.	17 - 175.	3n	50.		
B)n z4ne.	110.	107.	77 - 119.	3n	30.		
B)omoform.	105.	99.	2 - 133n		30.		
B)omomethane.	92	108.	12 - 1. 4.	16	50	.	
Ca.bon disulfid.	104.	109.	55 - 131.	5.	30.		
Ca.bon tetrachlorid.	111.	107.	71 - 135.	3n	30.		
Chlorobenz4ne.	112	111.	5 - 11.	1.	30.		
Chlorodibromomethane.	112	106.	75 - 133n		30.		
Chloroethane.	123n	120.	40 - 1.5.	3n	50.		
Chloroform.	112	115.	2 - 120.	3n	30.		
Chloromethane.	109.	117.	4. - 142	7.	50.		
cis-1,2-Dichloroeth)ne.	105.	108.	9 - 134.	3n	30.		
cis-1,3-Dichlorop.op.ne.	106.	104.	7. - 12	1.	30.		
Dichlorobromomethane.	111.	105.	7. - 127.		30.		
1,1-Dichloroethane.	110.	113n	74 - 127.	3n	30.		
1,2-Dichloroethane.	109.	101.	- 132		30.		
1,1-Dichloroeth)ne.	99.	108.	2 - 141.	9.	30.		
1,2-Dichlorop.opane.	109.	100.	73 - 124.		30.		
Ethylbenz4ne.	121.	120.	- 11.	1.	30.	*b	*b
2-H) xanone.	95.	92	34 - 1. 1.	3n	30.		
Met hylene Chlorid.	102	108.	70 - 125.	5.	30.		
2-Butanone (MEK)4	5.	3n	33 - 157.	3n	30.		
4-Met hyl-2-p.nt anone (MIBK)4	91.	5.	40 - 151.	7.	30.		
Styene.	11.	114.	2 - 122	2	30.		
1,1,2,2-Tetrachloroethane.	9.	91.	9 - 129.		30.		
Tetrachloroeth)ne.	11.	111.	7. - 12	4.	30.		
Toluene.	113n	111.	1 - 117.	3n	30.		
trans-1,2-Dichloroeth)ne.	108.	112	72 - 131.	3n	30.		
trans-1,3-Dichlorop.op.ne.	100.	99.	73 - 12	1.	30.		
1,1,1-Trichloroethane.	113n	107.	7. - 127.		30.		
1,1,2-Trichloroethane.	95.	95.	75 - 121.	0.	30.		
Trichloroeth)ne.	1108.	111.	4 - 115.	1.	30.		
Vinyl chlorid.	107.	114.	59 - 144.	7.	50.		

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Lab1Control 6ample/1 **Method: c2R0 Bc**
Lab1Control 6ample Duplicate Recovery Repit - Batch: c 0 -170190u **Preparation: 5030Bc**

LCS Lab Sample ID:.	LCS 680-170190/4.	Analysis Batch)	680-170190.	Instrument ID:.	MSP.
Client Matrixe	Water.	P. p Batch)	N/A.	Lab File ID:.	pq353nd.
Dilution:.	1.0.	Units)	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4d.	05/30/2010 1012			Final Weight/Volume:.	5 mLe
Date P. pa. d.	05/30/2010 1012				

LCSD Lab Sample ID:.	LCSD 680-170190/5.	Analysis Batch)	680-170190.	Instrument ID:.	MSP.
Client Matrixe	Water.	P. p Batch)	N/A.	Lab File ID:.	pq355.d.
Dilution:.	1.0.	Units)	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4d.	05/30/2010 1042			Final Weight/Volume:.	5 mLe
Date P. pa. d.	05/30/2010 1042				

	% Rec.					
Analyte.	LCS.	LCSD.	Limit.	RPD.	RPD Limit.	LCS Qual.	LCSD Qual.
Xylenes, Total.	112	109.	4 - 11.	2	30.		

Surrogate.	LCS % Rec.	LCSD % Rec.	Acceptance Limits)
4-B)omofluorobenz4ne.	109.	108.	75 - 120.
Dibromofluoromethane.	101.	105.	75 - 121.
Toluene-d. (Surr)4	113n	108.	75 - 120.

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Lab1Control 6ample/1 **Method: c2R0 Bc**
Lab1Control 6ample Duplicate Recovery Repit - Batch: c 0 -170470u **Preparation: 5030Bc**

LCS Lab Sample ID:.	LCS 680-170470/4.	Analysis Batch)	680-170470.	Instrument ID:.	MSO2
Client Matrixe	Water.	P. p Batch)	N/A.	Lab File ID:.	oq) 0. d.
Dilution:.	1.0.	Units)	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4d.	06/03/2010 0858.			Final Weight/Volume:.	5 mLe
Date P. pa. d.	06/03/2010 0858.				

LCSD Lab Sample ID:.	LCSD 680-170470/5.	Analysis Batch)	680-170470.	Instrument ID:.	MSO2
Client Matrixe	Water.	P. p Batch)	N/A.	Lab File ID:.	oq) 2 d.
Dilution:.	1.0.	Units)	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4d.	06/03/2010 0941.			Final Weight/Volume:.	5 mLe
Date P. pa. d.	06/03/2010 0941.				

	% Rec.					
Analyte.	LCS.	LCSD.	Limit.	RPD.	RPD Limit.	LCS Qual.	LCSD Qual.
Acetone.	104.	101.	17 - 175.	3n	50.		
B)n z4ne.	97.	9.	77 - 119.	1.	30.		
B)omoform.	102	100.	2 - 133n	2	30.		
B)omomethane.	112	113n	12 - 1. 4.	1.	50.		
Ca.bon disulfid.	9.	9.	55 - 131.	0.	30.		
Ca.bon tetrachlorid.	99.	9.	71 - 135.	2	30.		
Chlorobenz4ne.	105.	105.	5 - 11.	0.	30.		
Chlorodibromomethane.	112	109.	75 - 133n	2	30.		
Chloroethane.	9.	92	40 - 1.5.	4.	50.		
Chloroform.	107.	104.	2 - 120.	3n	30.		
Chloromethane.	101.	99.	4. - 142	2	50.		
cis-1,2-Dichloroeth)ne.	93n	91.	9 - 134.	3n	30.		
cis-1,3-Dichlorop.op.ne.	108.	108.	7. - 12	0.	30.		
Dichlorobromomethane.	94.	95.	7. - 127.	1.	30.		
1,1-Dichloroethane.	95.	94.	74 - 127.	2	30.		
1,2-Dichloroethane.	99.	100.	- 132	0.	30.		
1,1-Dichloroeth)ne.	99.	97.	2 - 141.	1.	30.		
1,2-Dichlorop.opane.	99.	99.	73 - 124.	0.	30.		
Ethylbenz4ne.	92	92	- 11.	0.	30.		
2-H) xanone.	106.	102	34 - 1. 1.	3n	30.		
Met hylene Chlorid.	105.	105.	70 - 125.	0.	30.		
2-Butanone (MEK)4	104.	102	33 - 157.	2	30.		
4-Met hyl-2-p.nt anone (MIBK)4	101.	99.	40 - 151.	2	30.		
Styene.	102	101.	2 - 122	2	30.		
1,1,2,2-Tetrachloroethane.	103n	102	9 - 129.	2	30.		
Tetrachloroeth)ne.	93n	92	7. - 12	1.	30.		
Toluene.	9.	9.	1 - 117.	1.	30.		
trans-1,2-Dichloroeth)ne.	106.	104.	72 - 131.	2	30.		
trans-1,3-Dichlorop.op.ne.	93n	93n	73 - 12	0.	30.		
1,1,1-Trichloroethane.	94.	95.	7. - 127.	1.	30.		
1,1,2-Trichloroethane.	9.	97.	75 - 121.	1.	30.		
Trichloroeth)ne.	93n	94.	4 - 115.	2	30.		
Vinyl chlorid.	94.	95.	59 - 144.	1.	50.		

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Lab1Control 6ample/1 **Method: c2R0 Bc**
Lab1Control 6ample Duplicate Recovery Repr t - Batch: c 0 -170470u **Preparation: 5030Bc**

LCS Lab Sample ID:.	LCS 680-170470/4.	Analysis Batch) 680-170470.	Instrument ID:. MSO2
Client Matrixe	Water.	P. p Batch) N/A.	Lab File ID:. oq) 0. d.
Dilution:.	1.0.	Units) ug/Le	Initial Weight/Volume:. 5 mLe
Date Analyz4d.	06/03/2010 0858.		Final Weight/Volume:. 5 mLe
Date P. pa. d.	06/03/2010 0858.		

LCSD Lab Sample ID:.	LCSD 680-170470/5.	Analysis Batch) 680-170470.	Instrument ID:. MSO2
Client Matrixe	Water.	P. p Batch) N/A.	Lab File ID:. oq) 2 d.
Dilution:.	1.0.	Units) ug/Le	Initial Weight/Volume:. 5 mLe
Date Analyz4d.	06/03/2010 0941.		Final Weight/Volume:. 5 mLe
Date P. pa. d.	06/03/2010 0941.		

Analyte.	% Rec. LCS.	LCSD.	Limit.	RPD.	RPD Limit.	LCS Qual.	LCSD Qual.
Xylenes, Total.	105.	103n	4 - 11.	1.	30.		

Surrogate.	LCS % Rec.	LCSD % Rec.	Acceptance Limits)
4-B)omofluorobenz4ne.	100.	9.	75 - 120.
Dibromofluoromethane.	97.	9.	75 - 121.
Toluene-d. (Surr)4	95.	95.	75 - 120.

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Method Blank - Batch: c0 -1P9c93m

Method: c0 10Cc
Preparation: 8030Cc

Lab Sample ID:. MB 680-1. 9. 93/2-A.
Client Matrixe Water.
Dilution:. 1.0.
Date Analyz4d. 05/2 /2010 2125.
Date P. pa. d. 05/25/2010 1537.

Analysis Batch) 680-170001.
P. p Batch) 680-1. 9. 93n
Units) ug/Le

Instrument ID:. ICPD.
Lab File ID:. 1. 9. 93.ch)
Initial Weight/Volume:. 50 mLe
Final Weight/Volume:. 50 mLe

Analyte.	Result.	Qual.	RLe
A.s)nic.	20.	U.	20.
Ch)omium.	10.	U.	10.
Copp.	20.	U.	20.
Lead.	10.	U.	10.
Zinc.	100.	U.	100.

Lab1Control 8ample - Batch: c0 -1P9c93m

Method: c0 10Cc
Preparation: 8030Cc

Lab Sample ID:. LCS 680-1. 9. 93/3-A.
Client Matrixe Water.
Dilution:. 1.0.
Date Analyz4d. 05/2 /2010 2131.
Date P. pa. d. 05/25/2010 1537.

Analysis Batch) 680-170001.
P. p Batch) 680-1. 9. 93n
Units) ug/Le

Instrument ID:. ICPD.
Lab File ID:. 1. 9. 93.ch)
Initial Weight/Volume:. 50 mLe
Final Weight/Volume:. 50 mLe

Analyte.	Spike Amount.	Result.	% Rec.	Limit.	Qual.
Ars)nic.	2000.	2090.	104.	75 - 125.	
Ch)omium.	200.	209.	105.	75 - 125.	
Copp.	250.	254.	102	75 - 125.	
Lead.	500.	52	106.	75 - 125.	
Zinc.	500.	525.	105.	75 - 125.	

Client: ARCADIS U.S., Inc. Job Number: 680-57949-1.

Matrix Spike/1
Matrix Spike Duplicate Recovery Report - Batch: c 0 -1P9c93m

Method: c0 10Cc
Preparation: 8030Cc

MS Lab Sample ID:.	0-5 7949-1.	Analysis Batch)	680-170001.	Instrument ID:.	ICPD.
Client Matrixe	Water.	P. p Batch)	680-1. 9. 93n	Lab File ID:.	1. 9. 93.ch)
Dilution:.	1.0.			Initial Weight/Volume:.	50 mLe
Date Analyz4d.	05/2 /2010 2152			Final Weight/Volume:.	50 mLe
Date P. pa. d.	05/25/2010 1537.				

MSD Lab Sample ID:.	0-5 7949-1.	Analysis Batch)	680-170001.	Instrument ID:.	ICPD.
Client Matrixe	Water.	P. p Batch)	680-1. 9. 93n	Lab File ID:.	1. 9. 93.ch)
Dilution:.	1.0.			Initial Weight/Volume:.	50 mLe
Date Analyz4d.	05/2 /2010 2158.			Final Weight/Volume:.	50 mLe
Date P. pa. d.	05/25/2010 1537.				

	% Rec.						
Analyte.	MS.	MSD.	Limit.	RPD.	RPD Limit.	MS Qual.	MSD Qual.
A.s)nic.	105.	105.	75 - 125.	0.	20.		
Ch)omium.	105.	105.	75 - 125.	0.	20.		
Copp.	104.	103n	75 - 125.	0.	20.		
Lead.	105.	104.	75 - 125.	1.	20.		
Zinc.	105.	104.	75 - 125.	0.	20.		

Serial Number 019810

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: UNC- Airport Rd.	PROJECT NO.: NC000239.0018.00001	PROJECT LOCATION (STATE): NC	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX	DATE DUE
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-US.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260) HCl	REQUIRED ANALYSIS: * Metals (6010) HNO3	REQUIRED ANALYSIS: PRESERVATIVE	REMARKS
								NUMBER OF CONTAINERS SUBMITTED			
5/24/10	0700	Effluent		X				3	1		*Report: Arsenic, chromium, copper, lead, and zinc.

Page 16 of 17

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
David Swanson	5/24/10	1200						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Georgette Conner	5/25/10	0928	YES ○ NO ○		680-57949	2.1°C

TAL8240-680 (1207)

Logb Sam1 le Recei1t Check List1

Client: ARCADIS U.S., Incb

Job Number: 680-57949-1.

Logb Number: 1579491

List Source: TestAmerica Savannah1

Creator: Conner, Keaton1

List Number: 1

Question1	/ F/ NA1	Comment1
Radioactivit. eit. er was not measured or, if measured, is at or below . backgroundb	N/A.	
ThS cooler's custodb seal, if present, is intact.	True.	
ThS cooler or samples do not appear to .av e been compromised or . tampered wit.	True.	
Samples were received on ice.	True.	
Cooler Temperature is acceptable.	True.	
Cooler Temperature is recordedb	True.	
COC is present.	True.	
COC is filled out in ink and legible.	True.	
COC is filled out wit. all pertinent information.	True.	
ThSre are no discrepancies between t. e sample IDs on t. e containers and . t. e COC.	True.	
Samples are received wit. in Holding Time.	True.	
Sample containers .av e legible labelsC	True.	
Containers are not broken or leakingS	True.	
Sample collection date/times are providedb	True.	
Appropriate sample containers are usedb	True.	
Sample bottles are completel. filledb	True.	
ThSre is sufficient vol. for all requested anal. ses, incl. an. requested . MS/MSDsC	True.	
VOA sample vials do not .av e . eadspace or bubble is <6mm (1/4") in . diameter.	True.	
If necessar. , staff .av e been informed of an. sCort . old time or quick TAT . needsC	True.	
Multip4a sic samples are not present.	N/A.	
Samples do not require splitting or compositing	.N/A.	
Is t. e Field Sampler's name present on COC?)	N/A.	
Sample Preservation Verifiedb	True.	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

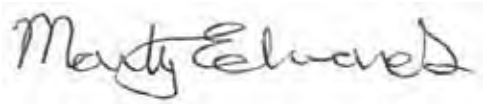
ANALYTICAL REPORT

Job Number: 400-47770-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
6/4/2010 9:11 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
06/04/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page.

TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250507), New Jersey (FL006), North Carolina (314), North Dakota (R-108), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

METHOD SUMMARY:

Cli) . CADIS U.S., Inc.) Job Number: 400-47770-1)

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
M) cury, Low L) v) l (CVAFS)	TAL PEN.	EPA)1631E)	
P) pa)atio., M) cury, Low L) v) l)	TAL PEN.		EPA)1631E)

Lab References:

TAL PEN = T) stA)merica P) sac ola)

Method References:

EPA)= US Envi)o. me. al P)o. ctio. .g) cy)

METHOD / ANAL1ST SUMMARL

Client: ARCADIS U.S., Incb

Job Number: 400-47770-1c

M: th1	Analyst1	Analyst ID:
EPA 1631Ec	Jones, Randyc	Jc

SAMPc SUMMARY2

Client: ARCADIS U.S., Inc.c Job Number: 400-47770-1c

ab Sample l2	Cl De c Sample l2	Cl De c Ma:r1x2	a:e/Ti 2ne : Sampledb	a:e/Ti 2ne : Receovedb
400-47770-1,	NT,	Water,	05/24/2010 0700,	05/25/2010 1014,

Test2Amer1 a Pecs a: ola:

SAMP SL SL

Client: ARCADIS U.S., Inc., Job Number: 400-47770-1,

Clientc Sample 1D:d EFFLUENTa

Lab Sample ID:c 400-47770-1c ate Sampled: 05/24/2010 0700c
Client Matrix:c Waterc ate Received: 05/25/2010 1014c

1631E Mercury, Low Level (CVAFS)L

Method:c	1631Ec	Analysis Batch: 400-109746c	nstrument ID:c HYDRAc
Preparation:c	1631Ec	Prep Batch: 400-109722c	Lab File ID:c 052710b.PRNc
ilution:c	1.0c		nitial Weight/Volume:c 40 mLc
ate Analyzed:c	05/27/2010 1155c		Final Weight/Volume:c 40 mLc
ate Prepared:c	05/26/2010 1600c		

Analytec	Result (ng/L)c	Qualifierc	RLc
Mercuryc	1.2c		0.50c

QUALITYpCcTROLp SULTSp

Client: ARCADIS U.S., Inc. Job Number: 400-47770-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 400-109722					
LCS 400-109722/2-A	Lab Control Sample	T	Water	1631E	
LCSD 400-109722/3-A	Lab Control Sample Duplicate	T	Water	1631E	
MB 400-109722/1-A	Method Blank	T	Water	1631E	
400-47770-1	EFFLUENT	T	Water	1631E	
400-47808-A-1-B MS	Matrix Spike	T	Water	1631E	
400-47808-A-1-C MSD	Matrix Spike Duplicate	T	Water	1631E	
Analysis Batch: 400-107461					
LCS 400-109722/2-A	Lab Control Sample	T	Water	1631E	400-109722
LCSD 400-109722/3-A	Lab Control Sample Duplicate	T	Water	1631E	400-109722
MB 400-109722/1-A	Method Blank	T	Water	1631E	400-109722
400-47770-1	EFFLUENT	T	Water	1631E	400-109722
400-47808-A-1-B MS	Matrix Spike	T	Water	1631E	400-109722
400-47808-A-1-C MSD	Matrix Spike Duplicate	T	Water	1631E	400-109722

Report Basis
T = Total

Meth1 Blank - Batc h1 400-1097R

Meth1 631Ec
Preparation: 1631Ec

Lab Samplh IDh B 400-109722/1-Ah
Clihnt Mathixh Wath
Dilutionh
Dath Analyzhdh 5/27/2010h . 58h
Dath Ph pah dh 5/25/2010h .500h

Analysis Batch 400-109746h
Ph p Batch 400-109722h
Unitsh ng/Lh

Insthument IDh HYDRAh
Lab Filh IDh 52710ho.PRN.
Initial Whight/Volume:.40h mLh
Final Whight/Volume:. 40h mLh

Analyth	Rhsulth	Qualh	RLh
curyh	<0.50h		50h

Lab Control Sample/1
Lab Control Sample Duplicate Recovery Report - Batch1 400-1097R

Meth1 631Ec
Preparation: 1631Ec

LCS Lab Samplh IDhLCS 400-109722/2-Ah
Clihnt Mathixh Wath
Dilutionh
Dath Analyzhdh 5/27/2010h . 7h
Dath Ph pah dh 5/25/2010h .500h

Analysis Batch 400-109746h
Ph p Batch 400-109722h
Unitsh ng/Lh

Insthument IDh HYDRAh
Lab Filh IDh 52710ho.PRN.
Initial Whight/Volume:. 40h mLh
Final Whight/Volume:. 40h mLh

LCSD Lab Samplh IDhLCSD 400-109722/3-Ah
Clihnt Mathixh Wath
Dilutionh
Dath Analyzhdh 5/27/2010h . 5h
Dath Ph pah dh 5/25/2010h .500h

Analysis Batch 400-109746h
Ph p Batch 400-109722h
Unitsh ng/Lh

Insthument IDh HYDRAh
Lab Filh IDh 52710ho.PRN.
Initial Whight/Volume:. 40h mLh
Final Whight/Volume:. 40h mLh

	% Rhc.h					
Analyth	LCSh	LCSDh	Limith	RPDh	RPD Limith	LCS Qualh	LCSD Qualh
curyh	8h	9h	79 - 121h		2h		

Matrix Spike/1 **Meth1 631Ec**
Matrix Spike Duplicate Recovery Report - Batch1 400-1097R **Preparation: 1631Ec**

S Lab Samplh IDh	400-47808-A-1-B .Sh	Analysis Batch 400-109746h	Insthument IDh HYDRAh
Clihnt Mathixh	Wath	Ph p Batch 400-109722h	Lab Filh IDh 52710hb.PRN.
Dilutionh			Initial Whight/Volume:. 40h mLh
Dath Analyzhdh	5/27/2010h . 31h		Final Whight/Volume:. 40h mLh
Dath Ph pah dh	5/26/2010h .600h		

SD Lab Samplh IDh	400-47808-A-1-C .SDh	Analysis Batch 400-109746h	Insthument IDh HYDRAh
Clihnt Mathixh	Wath	Ph p Batch 400-109722h	Lab Filh IDh 52710hb.PRN.
Dilutionh			Initial Whight/Volume:. 40h mLh
Dath Analyzhdh	5/27/2010h .306h		Final Whight/Volume:. 40h mLh
Dath Ph pah dh	5/26/2010h .600h		

	% Rhc.h						
Analyth	Sh	SDh	Limith	RPDh	RPD Limith	S Qualh	SD Qualh
curyh	84h	80h	71h-.25h	3h	24h		

DATA RhPORT:N1 L ALIña RSh

Lab Sectionp	u alifierL	Descriptionp

SERIAL NUMBER: 09271

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.

BOTTLE ORDER NO.

ORDER - LOG-IN NO. C400-47770

CLIENT: ARCADIS

ADDRESS: 801 Corporate Center Dr. Raleigh, N.C. 27607

PAGE 1 OF 1

PROJECT NAME: UNC-Airport Rd.

PROJECT NO.: NC000239.0018.00001

CLIENT PROJECT MANAGER: Alan Pinnix

PROJECT LOC. (STATE): N.C.

SAMPLED BY: Dave Twamley

CONTRACT / P.O. NO.

CLIENT PHONE: 919-854-1282

CLIENT E-MAIL OR FAX

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL (●) NORMAL - 10 BUSINESS DAYS
□ 1 DAY □ 2 DAYS □ 3 DAYS □ 5 DAYS □ 20 DAYS (Package) □ OTHER:

SAMPLE DISPOSAL: □ RETURN TO CLIENT □ DISPOSAL BY LAB
□ SEE CONTRACT □ OTHER:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION
Δ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

LAB USE ONLY - SAMPLE NUMBER

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: Low Level Mercury (1631E)	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
5/24/10	0700	Effluent	X														3	

Page 12 of 13

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Dave Twamley	5/24/10	1200			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	05/25/10	10:14	Δ YES Δ NO		5.8°C

TAL-8251 (1207)

Log1b Sam1 le Recei1 Check List1

Client: ARCADi U.c., Inc.c

Job Number: 400-47770-1i

Log1b Number: 477701

List Source: TestAmerica Pensacola1

Creator: Chea, Vanda1

List Number:

Question1	F/ NA1	Comment1
Radioactivity either was not measured or, if measured, is at or below S backgroundS	N/AS	
The cooler's custody seal, if present, is intact.S	N/AS	
The cooler or samples do not appear to have been compromised or S tampered with.S	True	
amples were received on ice.S	TrueS	
Cooler Temperature is acceptable.S	TrueS	5.8°CS
Cooler Temperature is recorded.S	TrueS	
COC is present.S	TrueS	
COC is filled out in ink and legible.S	TrueS	
COC is filled out with all pertinent information.S	TrueS	
There are no discrepancies between the sample IDs on the containers and S the COC.S	True	
amples are received within Holding Time.S	True	
Sample containers have legible labels.S	TrueS	
Containers are not broken or leaking.S	True	
Sample collection date/times are provided.S	TrueS	
Appropriate sample containers are used.S	True	
Sample bottles are completely filled.S	TrueS	
There is sufficient vol. for all requested analyses, incl. any requested S MS/MSDsS	TrueS	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in S diameter.S	TrueS	
If necessary, staff have been informed of any short hold time or quick TAT S needsS	TrueS	
Multiphasic samples are not present.S	True	
Samples do not require splitting or compositing.S	TrueS	
Is the Field Sampler's name present on COC?S	True	
Sample Preservation VerifiedS	TrueS	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-58582-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
6/24/2010 4:30 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
06/24/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY:

CliTntTARCADIST.S., .nc.T Job Number: 680-58582-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
VolatilT OTganic Compounds (GC/MS)	AL .AVT	WT 4T8.2T0 BT	
PurgT and . apT	AL .AVT		WT 4T50 30B
MTtals (ICP)	AL .AVT	WT 4T6010 CT	
PT paTation, ExtTactablT MTtalsT	AL .AVT		M 3030C

Lab References:

AL .AV = . stAmerica .avannahT

Method References:

M = "StandaTd MTthods For ThT Examination Of WatT And WastTwatT ",T

WT 4T= "T st MTthods For Evaluating . olid WastT, Physical/ChTm ical MTthods", ThiTd Edition, NovTmber 1 9 And .ts . pdatT s.T

TestAmerica Savannah:

METHOD / ANAL1ST SUMMARL

Client: ARCADIS U.S., Inc.T

Job NumbeT: 680-58582-1c

M: th1	Analyst1	Analyst ID:
SW846 8260Bc	Bearden, Robertc	Bc
SW846 6010Cc	Bland, Brianc	BCBc

SAMPc SUMMARY2

Client: ARCADIS U.S., Inc.c Job Number: 680-58582-1c

ab Sample I2	Cll2ec Sample I2	Cll2ec Ma:r1x2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Receovedb
680-58582-1c	luentc	Waterc	06/14/2010 0800c	06/15/2010 0914T

Client: ARCADIS U.S., Inc.c Job Number: 680-58582-1c

Clientc Sample1D:d Effluentc

ab Sample ID:c 680-58582-1c Date Sampled: 06/14/2010 0800c
Client Matrix:c Waterc Date Received: 06/15/2010 0914c

8260Bd Volatile1 Organic Compounas (GC/MS):

Method:c 8260Bc Analysis Batch: 680-172098c Instrument ID:c MSOc
Preparation:c 5030Bc ab File ID:c o0155.dc
Dilution:c 1.0c Initial Weight/Volume:c 5 mc
Date Analyzed:c 06/18/2010 1603c Final Weight/Volume:c 5 mc
Date Prepared:c 06/18/2010 1603c

Analytec	esult (ug/c)c	Qualifierc	
Acetonec	25c	Uc	25c
Benzenec	1.0c	Uc	1.0c
Bromoformc	1.0c	Uc	1.0c
Bromomethanec	1.0c	Uc	1.0c
Carbon disulfidec	2.0c	Uc	2.0c
Carbon tetrachloridec	1.0c	Uc	1.0c
Chlorobenzenec	1.0c	Uc	1.0c
Chlorodibromomethanec	1.0c	Uc	1.0c
Chloroethanec	1.0c	Uc	1.0c
Chloroformc	1.0c	Uc	1.0c
Chloromethanec	1.0c	Uc	1.0c
is-1,2-Dichloroethenec	1.0c	Uc	1.0
cis-1,3-Dichloropropenec	1.0c	Uc	1.0
Dichlorobromomethanec	1.0c	Uc	1.0c
1,1-Dichloroethanec	1.0c	Uc	1.0c
1,2-Dichloroethanec	3.4c		1.0c
1,1-Dichloroethenec	1.0c	Uc	1.0c
1,2-Dichloropropanec	1.0c	Uc	1.0c
Diethyl etherc	190c	Ec	10c
Ethylbenzenec	1.0c	Uc	1.0c
2-Hexanonec	10c	Uc	10c
Methylene Chloridec	5.0c	Uc	5.0c
2-Butanone (MEK)c	10c	Uc	10c
4-Methyl-2-pentanone (MIBK)c	10c	Uc	10c
Styrenec	1.0c	Uc	1.0c
1,1,2,2-Tetrachloroethanec	1.0c	Uc	1.0c
Tetrachloroethenec	1.0c	Uc	1.0c
Toluenec	1.0c	Uc	1.0c
trans-1,2-Dichloroethenec	1.0c	Uc	1.0c
trans-1,3-Dichloropropenec	1.0c	Uc	1.0c
1,1,1-Trichloroethanec	1.0c	Uc	1.0c
1,1,2-Trichloroethanec	1.0c	Uc	1.0c
Trichloroethenec	1.0c	Uc	1.0c
Vinyl chloridec	1.0c	Uc	1.0c
Xylenes, Totalc	2.0c	Uc	2.0c

Surrogatec	%Rec	Qualifierc	Ac eptance cimitsc
4-Bromofluorobenzenec	97c		75 - 120c
Dibromofluoromethanec	106c		75 - 121c
Toluene-d8 (Surr)c	102c		75 - 120c

Client: ARCADIS U.S., Inc.c Job Number: 680-58582-1c

Clientc Sample1D:d Effluentc

ab Sample ID:c 680-58582-1c Date Sampled: 06/14/2010 0800c
Client Matrix:c Waterc Date Received: 06/15/2010 0914c

8260Bd Volatile1 Organic Compounas (GC/MS):

Method:c	8260Bc	Analysis Batch: 680-172112c		Instrument ID:c	MSOc
Preparation:c	5030Bc			ab File ID:c	o0177.dc
Dilution:c	5.0c			Initial Weight/Volume:c	5 mc
Date Analyzed:c	06/20/2010 1606c	un Ty pe:c Dc		Final Weight/Volume:c	5 mc
Date Prepared:c	06/20/2010 1606c				

Analytec	esult (ug/c)c	Qualifierc	
Acetonec	130c	Uc	130c
Benzenec	5.0c	Uc	5.0c
Bromoformc	5.0c	Uc	5.0c
Bromomethanec	5.0c	Uc	5.0c
Carbon disulfidec	10c	Uc	10c
Carbon tetrachloridec	5.0c	Uc	5.0c
Chlorobenzenec	5.0c	Uc	5.0c
Chlorodibromomethanec	5.0c	Uc	5.0c
Chloroethanec	5.0c	Uc	5.0c
Chloroformc	5.0c	Uc	5.0c
Chloromethanec	5.0c	Uc	5.0c
is-1,2-Dichloroethenec	5.0c	Uc	5.0
cis-1,3-Dichloropropenec	5.0c	Uc	5.0
Dichlorobromomethanec	5.0c	Uc	5.0c
1,1-Dichloroethanec	5.0c	Uc	5.0c
1,2-Dichloroethanec	5.0c	Uc	5.0c
1,1-Dichloroethenec	5.0c	Uc	5.0c
1,2-Dichloropropanec	5.0c	Uc	5.0c
Diethyl etherc	180c	Dc	50c
Ethylbenzenec	5.0c	Uc	5.0c
2-Hexanonec	50c	Uc	50c
Methylene Chloridec	25c	Uc	25c
2-Butanone (MEK)c	50c	Uc	50c
4-Methyl-2-pentanone (MIBK)c	50c	Uc	50c
Styrenec	5.0c	Uc	5.0c
1,1,2,2-Tetrachloroethanec	5.0c	Uc	5.0c
Tetrachloroethenec	5.0c	Uc	5.0c
Toluenec	5.0c	Uc	5.0c
trans-1,2-Dichloroethenec	5.0c	Uc	5.0c
trans-1,3-Dichloropropenec	5.0c	Uc	5.0c
1,1,1-Trichloroethanec	5.0c	Uc	5.0c
1,1,2-Trichloroethanec	5.0c	Uc	5.0c
Trichloroethenec	5.0c	Uc	5.0c
Vinyl chloridec	5.0c	Uc	5.0c
Xylenes, Totalc	10c	Uc	10c

Surrogatec	%Rec	Qualifierc	Ac eptance cimitsc
4-Bromofluorobenzenec	97c		75 - 120c
Dibromofluoromethanec	101c		75 - 121c
Toluene-d8 (Surr)c	101c		75 - 120c

Client: ARCADIS U.S., Inc.c Job Number: 680-58582-1c

Clientc Sample1D:d Effluentc

ab Sample ID:c 680-58582-1c Date Sampled: 06/14/2010 0800c
Client Matrix:c Waterc Date Received: 06/15/2010 0914c

6010C Metalsq(ICP):

Method:c	6010Cc	Analysis Batch: 680-172185c		Instrument ID:c	ICPDc
Preparation:c	3030Cc	Prep Batch: 680-171730c		ab File ID:c	171730.chrc
Dilution:c	1.0c			Initial Weight/Volume:c	50 mc
Date Analyzed:c	06/21/2010 2042c			Final Weight/Volume:c	50 mc
Date Prepared:c	06/16/2010 1436c				

Analytec	esult (ug/c)c	Qualifierc	
Arsenic	20c	Uc	20c
Chromiumc	10c	Uc	10c
Copperc	20c	Uc	20c
eadc	10c	Uc	10c
Zin	100c	Uc	100c

DATA RhPORT:N1 L ALIFia RSh

Client: ARCADIS U.S., Inc.c Job Number: 680-58582-1c

Lab Sectionp	u alifierL	Descriptionp
GC/MS bVOAc		
	Uc	Indicates,the ea. alyte wwas,a. alyzedNfor but not detected.c
	E,	e sult ex eeded Nalibration ra. ge.c
	Dc	Surrogate or matrix spike recoveries,were not obtainedN because the extract wwas,dilutedNfor ea. alysis;ialso compounds, a. alyzedNat ea.dilution may,be flaggedNwith,a.D.c
Metals,		
	Uc	Indicates,the ea. alyte wwas,a. alyzedNfor but not detected.c

CliTntT ARCADIST.S., .nc.T Job Number: 680-58582-1.

Meth1 Blank - Batc h1 0 -17R0 98l **Method: 8260Bl**
Preparation: 5030Bl

Lab . ampIT.	MB 680-17209h/9h	Analysis Batch,	680-17209h	nstTument .	M) Oi
CliTnt MatTiT	WatT	Pc p Batch,	N/AT	Lab FilT.	oq091.dc
il utionT	1.0.	nit s:.	ug/Lc	nitial WTight/Volume:.	5 mLc
atT AnalyzUdc	06/18/2010 1155.			Final WTight/Volume:.	5 mLc
atT Pc pac dc	06/18/2010 1155.				

AnalytT	su ltT	QualRT	Lc
AcTtonT	25.		2 5.
BcnzUnT	1.0.		1.0.
Bœmoform.	1.0.		1.0.
BœmomethanT	1.0.		1.0.
Cadon disulfidc	2.0.	U	2.0.
Cadon tTtTachloridc	1.0.		1.0.
ChlorobenzUnT	1.0.		1.0.
ChlorodibromomethanT	1.0.		1.0.
ChloroethanT	1.0.		1.0.
Chloroform.	1.0.		1.0.
ChloromethanT	1.0.		1.0.
cis-1,2-.ic hloroeth, nT	1.0.		1.0.
cis-1,3-.ic hloropœpcnT	1.0.		1.0.
ic hlorobromomethanT	1.0.		1.0.
1,1-.ic hloroethanT	1.0.		1.0.
1,2-.ic hloroethanT	1.0.		1.0.
1,1-.ic hloroeth, nT	1.0.		1.0.
1,2-.ic hloropœpanT	1.0.		1.0.
iT thyl eth,	10.		10.
EthylbenzUnT	1.0.		1.0.
2-Hi anonT	10.		10.
M) thylTnT Chloridc	5.0.		5.0.
2-ButanonT (MEK)S	10.		10.
4-M) thyl-2-pcntanonT (M)BK)S	10.		10.
t y. nT	1.0.		1.0.
1,1,2,2-TctTachloroethanT	1.0.		1.0.
TctTachloroeth, nT	1.0.		1.0.
ToluenT	1.0.		1.0.
tTans-1,2-.ic hloroeth, nT	1.0.		1.0.
tTans-1,3-.ic hloropœpcnT	1.0.		1.0.
1,1,1-Tdchloroethan T	1.0.		1.0.
1,1,2-Tdchloroethan T	1.0.		1.0.
Tdchloroeth, nT	1.0.		1.0.
Vinyl chloridc	1.0.		1.0.
XylTnTs , TotalT	2.0.	U	2.0.

urrogatT	% . cT	AccTptancT Limits.
4-BœmofluorobenzUnT	97c	75 - 120.
i bromofluoromethanT	108.	75 - 121.
ToluenT- dc (hurr}S	101.	75 - 120.

CliTntT ARCADIST.S., .nc.T Job Number: 680-58582-1.

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-172098l **Preparation: 5030Bl**

LCSTLab . amplT.	LCSTl680-17209h/c	Analysis Batch, 680-17209h	nstTument . M) Oi
CliTnt MatTIT	WatT	Pc p Batch, N/AT	Lab FilT. oq083.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/18/2010 0958.		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/18/2010 0958.		

LCSDTLab . amplT.	LCSDT680-17209h/7c	Analysis Batch, 680-17209h	nstTument . M) Oi
CliTnt MatTIT	WatT	Pc p Batch, N/AT	Lab FilT. oq085.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/18/2010 1029h		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/18/2010 1029h		

	% . c.T						
AnalytT	LCST	LCSDT	LimitT	Pc	Pc LimitT	LCSTQualT	LCSDTQualT
AcTtonT	108.	105.	17 - 175.	2T	50.		
BcnzUnT	100.	101.	77 - 119h	1.	30.		
Bœmoform.	93S	104S	2 - 133S	11.	30.		
BœmomethanT	1.	3S	12 - 184S	3S	50.		
Cadon disulfidc	119h	116.	55 - 131.	3S	30.		
Cadon tTtTachloridc	102T	103S	71 - 135.	1.	30.		
ChlorobenzUnT	92T	103S	5 - 116.	12T	30.		
ChlorodibromomethanT	94S	104S	75 - 133S	10.	30.		
ChloroethanT	150.	147c	40 - 165.	2T	50.		
Chloroform.	111.	106.	2 - 120.	4S	30.		
ChloromethanT	100.	93S	4S- 1 42T	7c	50.		
cis-1,2-.ic hloroeth, nT	111.	105.	9 - 134S		30.		
cis-1,3-.ic hloropœpcnT	105.	107c	7c- 1 2T	2T	30.		
ic hlorobromomethanT	102T	102T	7c- 1 27c	0.	30.		
1,1-.ic hloroethanT	113S	109h	74 - 127c	3S	30.		
1,2-.ic hloroethanT	9h	94S	- 1 32T	2T	30.		
1,1-.ic hloroeth, nT	113S	109h	2 - 141.	4S	30.		
1,2-.ic hloropœpanT	101.	103S	73 - 124S	2T	30.		
EthylbenzUnT	9h	107c	- 116.	11.	30.		
2-Hi anonT	79h	90.	34 - 161.	13S	30.		
M) thylTnT Chloridc	116.	112T	70 - 125.	4S	30.		
2-ButanonT (MEK)S	93S	93S	33 - 157c	0.	30.		
4-M) thyl-2-pcntanonT (M)BK)S	9h	93S	40 - 151.	5.	30.		
t y. nT	94S	104S	2 - 122T	11.	30.		
1,1,2,2-TctTachloroethanT	4S	9h	9 - 129h	15.	30.		
TctTachloroeth, nT	91.	101.	7c- 1 2	11 .	30.		
ToluenT	105.	104S	1 - 11 7c	1.	30.		
tTans-1,2-.ic hloroeth, nT	110.	107c	72 - 131.	3S	30.		
tTans-1,3-.ic hloropœpcnT	102T	105.	73 - 12T	3S	30.		
1,1,1-Tdchloroethan T	101.	102T	7c- 1 27c	1.	30.		
1,1,2-Tdchloroethan T	94S	9h	75 - 121.	4S	30.		
Tdchloroeth, nT	99h	99h	4 - 115.	1.	30.		
Vinyl chloridc	101.	95.	59 - 144S	6	50 .		

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-172098l **Preparation: 5030Bl**

LCSTLab . amplT.	LCSTl680-17209h/c	Analysis Batch, 680-17209h	nstTument . M) Oi
CliTnt MatTIT	WatT	Pc p Batch, N/AT	Lab FilT. oq083.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/18/2010 0958.		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/18/2010 0958.		

LCSDTLab . amplT.	LCSDTl680-17209h/7c	Analysis Batch, 680-17209h	nstTument . M) Oi
CliTnt MatTIT	WatT	Pc p Batch, N/AT	Lab FilT. oq085.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/18/2010 1029h		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/18/2010 1029h		

	% . c.T					
AnalytT	LCST	LCSDT	LimitT	Pc	Pc LimitT	LCSTQualT	LCSDTQualT
XylTnTs , TotalT	93S	105.	4 - 118.	12T	30.		

urrogatT	LCST% . cT	LCSDT% . cT	AccTptancT Limits.
4-BcomofluorobenzUnT	94S	106.	75 - 120.
i bromofluoromethanT	110.	107c	75 - 121.
ToluenT- dc (hurr)S	103S	103S	75 - 120.

CliTntT ARCADIST.S., .nc.T Job Number: 680-58582-1.

Method Blank - Batch: 680-172112

Method: 8260B
Preparation: 5030B

Lab . ampIT.	MB 680-172112/c	Analysis Batch,	680-172112T	nstTument .	M) Oi
CliTnt MatTIT	WatT	Pc p Batch,	N/AT	Lab FilT.	oq100.dc
il utionT	1.0.	nit s:.	ug/Lc	nitial WTight/Volume:.	5 mLc
atT AnalyzUdc	06/20/2010 1422T			Final WTight/Volume:.	5 mLc
atT Pc pac dc	06/20/2010 1422T				

AnalytT	su ltT	QualRT	Lc
AcTtonT	25.		2 5.
BcnzUnT	1.0.		1.0.
Bœmoform.	1.0.		1.0.
BœmomethanT	1.0.		1.0.
Cadon disulfidc	2.0.	U	2.0.
Cadon tTtTachloridc	1.0.		1.0.
ChlorobenzUnT	1.0.		1.0.
ChlorodibromomethanT	1.0.		1.0.
ChloroethanT	1.0.		1.0.
Chloroform.	1.0.		1.0.
ChloromethanT	1.0.		1.0.
cis-1,2-.ic hloroeth, nT	1.0.		1.0.
cis-1,3-.ic hloropœpcnT	1.0.		1.0.
ic hlorobromomethanT	1.0.		1.0.
1,1-.ic hloroethanT	1.0.		1.0.
1,2-.ic hloroethanT	1.0.		1.0.
1,1-.ic hloroeth, nT	1.0.		1.0.
1,2-.ic hloropœpanT	1.0.		1.0.
iT thyl eth,	10.		10.
EthylbenzUnT	1.0.		1.0.
2-Hi anonT	10.		10.
M) thylTnT Chloridc	5.0.		5.0.
2-ButanonT (MEK)S	10.		10.
4-M) thyl-2-pcntanonT (M)BK)S	10.		10.
t y. nT	1.0.		1.0.
1,1,2,2-TctTachloroethanT	1.0.		1.0.
TctTachloroeth, nT	1.0.		1.0.
ToluenT	1.0.		1.0.
tTans-1,2-.ic hloroeth, nT	1.0.		1.0.
tTans-1,3-.ic hloropœpcnT	1.0.		1.0.
1,1,1-Tdchloroethan T	1.0.		1.0.
1,1,2-Tdchloroethan T	1.0.		1.0.
Tdchloroeth, nT	1.0.		1.0.
Vinyl chloridc	1.0.		1.0.
XylTnTs , TotalT	2.0.	U	2.0.

urrogatT	% . cT	AccTptancT Limits.
4-BœmofluorobenzUnT	97c	75 - 120.
i bromofluoromethanE	109h	75 - 121.
ToluenT- dc (hurr}S	101.	75 - 120.

CliTntT ARCADIST.S., .nc.T Job Number: 680-58582-1.

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-172112l **Preparation: 5030Bl**

LCSTLab . amplT.	LCSTb80-172112/5.	Analysis Batch, 680-172112T	nstTument . M) Oi
CliTnt MatTIT	WatT	Pc p Batch, N/AT	Lab FilT. oq09h.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/20/2010 1259h		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/20/2010 1259h		

LCSDTLab . amplT.	LCSDTb80-172112/c	Analysis Batch, 680-172112T	nstTument . M) Oi
CliTnt MatTIT	WatT	Pc p Batch, N/AT	Lab FilT. oq097.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/20/2010 1319h		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/20/2010 1319h		

	% . c.T						
AnalytT	LCST	LCSDT	LimitT	Pc	Pc LimitT	LCSTQualT	LCSDTQualT
AcTtonT	99h	93S	17 - 175	6 .	50 .		
BcnzUnT	100.	99h	77 - 119h	0.	30.		
Bcomoform.	109h	109h	2 - 133S	0.	30.		
BcomomethanT	57c	2T	12 - 184S	35	50 .		
Cadon disulfidc	113S	113S	55 - 131.	0.	30.		
Cadon tTtTachloridc	110.	110.	71 - 135.	0.	30.		
ChlorobenzUnT	103S	102T	5 - 116.	0.	30.		
ChlorodibromomethanT	109h	107c	75 - 133S	2T	30.		
ChloroethanT	102T	104S	40 - 165.	2T	50.		
Chloroform.	104S	105.	2 - 120.	1.	30.		
ChloromethanT		9h	4S- 1 42T	3S	50.		
cis-1,2-.ic hloroeth, nT	105.	106.	9 - 134S	1.	30.		
cis-1,3-.ic hloropcopcnT	107c	106.	7c- 1 2T	1.	30.		
ic hlorobromomethanT	102T	103S	7c- 1 27c	1.	30.		
1,1-.ic hloroethanT	107c	108.	74 - 127c	1.	30.		
1,2-.ic hloroethanT	94S	94S	- 1 32T	0.	30.		
1,1-.ic hloroeth, nT	108.	103S	2 - 141.	5.	30.		
1,2-.ic hloropcopanT	100.	99h	73 - 124S	1.	30.		
EthylbenzUnT	106.	106.	- 116.	0.	30.		
2-Hi anonT	7c	4S	34 - 161.	4S	30.		
M) thylTnT Chloridc	115.	116.	70 - 125.	1.	30.		
2-ButanonT (MEK)S	9h		33 - 157c	3S	30.		
4-M) thyl-2-pcntanonT (M)BK)S	9h	7c	40 - 151.	2T	30.		
t y. nT	103S	103S	2 - 122T	0.	30.		
1,1,2,2-TctTachloroethanT	92T	91.	9 - 129h	1.	30.		
TctTachloroeth, nT	101.	100.	7c- 1 2T	1.	30.		
ToluenT	102T	104S	1 - 11 7c	1.	30.		
tTans-1,2-.ic hloroeth, nT	110.	109h	72 - 131.	0.	30.		
tTans-1,3-.ic hloropcopcnT	105.	103S	73 - 12T	2T	30.		
1,1,1-Tdchloroethan T	106.	104S	7c- 1 27c	2T	30.		
1,1,2-Tdchloroethan T	9h	95.	75 - 121.	1.	30.		
Tdchloroeth, nT	99h	99h	4 - 115.	1.	30.		
Vinyl chloridc	7c	9h	59 - 144S	2T	50.		

CliTntT ARCADIST.S., .nc.T Job Number: 680-58582-1.

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-172112l **Preparation: 5030Bl**

LCSTLab . amplT.	LCSTb80-172112/5.	Analysis Batch, 680-172112T	nstTument . M) Oi
CliTnt MatTiT	WatT	Pc p Batch, N/AT	Lab FilT. oq09h.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/20/2010 1259h		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/20/2010 1259h		

LCSDTLab . amplT.	LCSDTb80-172112/c	Analysis Batch, 680-172112T	nstTument . M) Oi
CliTnt MatTiT	WatT	Pc p Batch, N/AT	Lab FilT. oq097.dc
il utionT	1.0.	nit s:. ug/Lc	nitial WTight/Volume:. 5 mLc
atT AnalyzUdc	06/20/2010 1319h		Final WTight/Volume:. 5 mLc
atT Pc pac dc	06/20/2010 1319h		

	% . c.T					
AnalytT	LCST	LCSDT	LimitT	Pc	Pc LimitT	LCSTQualT LCSDTQualT
XylTnTs , TotalT	103S	104S	4 - 118.	0.	30.	

urrogatT	LCST% . cT	LCSDT% . cT	AccTptancT Limits.
4-BcomofluorobenzUnT	105.	105.	75 - 120.
i bromofluoromethanT	106.	109h	75 - 121.
ToluenT dc (hurr)S	103S	103S	75 - 120.

Method Blank - Batch: 680-171730

Method: 6010C
Preparation: 3030C

Lab . ampIT. MB 680-171730/2-AT
CliTnt MatTIT WatT
il utionT 1.0.
atT AnalyzUdc 06/21/2010 2032T
atT Pc pac dc 06/16/2010 143S

Analysis Batch, 680-172185.
Pc p Batch, 680-171730.
nit s:. ug/Lc

nstTument . CPc
Lab FilT. 171730.ch,
nitial WTight/Volume:. 50 mLc
Final WTight/Volume:. 50 mLc

AnalytT	suItT	QualRT	Lc
ATsenicT	20.		20.
Ch,omium.	10.		10.
Coppc	20.		20.
Lcadc	10.		10.
ZincT	100.		100.

Lab Control Sample - Batch: 680-171730

Method: 6010C
Preparation: 3030C

Lab . ampIT. LCST680-171730/3-AT
CliTnt MatTIT WatT
il utionT 1.0.
atT AnalyzUdc 06/21/2010 2037c
atT Pc pac dc 06/16/2010 143S

Analysis Batch, 680-172185.
Pc p Batch, 680-171730.
nit s:. ug/Lc

nstTument . CPc
Lab FilT. 171730.ch,
nitial WTight/Volume:. 50 mLc
Final WTight/Volume:. 50 mLc

AnalytT	pikc AmountT	suItT	% . c.T	LimitT	QualT
ATsenicT	2000.	2090.	105.	75 - 125.	
Ch,omium.	200.	210.	105.	75 - 125.	
Coppc	250.	271.	104S	75 - 125.	
Lcadc	500.	521.	104S	75 - 125.	
ZincT	500.	531.	106.	75 - 125.	

CliTntT ARCADIST.S., .nc.T Job Number: 680-58582-1.

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-171730

Method: 6010C
Preparation: 3030C

M) Lab . amplT.	0-5858. 2-1.	Analysis Batch, 680-172185.	nstTument . CPc
CliTnt MatTiT	WatT	Pc p Batch, 680-171730.	Lab FilT. 171730.ch,
il utionT	1.0.		nitial WTight/Volume:. 50 mLc
atT AnalyzUdc	06/21/2010 2058.		Final WTight/Volume:. 50 mLc
atT Pc pac dc	06/16/2010 143S		

M) Lab . amplT.	0-5858. 2-1.	Analysis Batch, 680-172185.	nstTument . CPc
CliTnt MatTiT	WatT	Pc p Batch, 680-171730.	Lab FilT. 171730.ch,
il utionT	1.0.		nitial WTight/Volume:. 50 mLc
atT AnalyzUdc	06/21/2010 2103S		Final WTight/Volume:. 50 mLc
atT Pc pac dc	06/16/2010 143S		

	% . c.T					
AnalytT	M)	M)	LimitT	Pc	Pc LimitT	M) QualT M) QualT
ATsenicT	106.	106.	75 - 125.	0.	20.	
Ch,omium.	105.	105.	75 - 125.	0.	20.	
Coppc	107c	107c	75 - 125.	0.	20.	
Lcadc	104S	104S	75 - 125.	0.	20.	
ZincT	102T	102T	75 - 125.	0.	20.	

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name NC000239.0018.00001

Project Location UNC - Airport Rd.

Laboratory Test America - Savannah (Kathy Smith)

Project Manager Alan Pinnix

Sampler(s)/Affiliation Dave Twamley

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: VOCs (8260)	Metals (6010)*					Remarks	Total
Effluent	L	6/14/10, 800		3	1					*Report: Arsenic, chromium, copper, lead, and zinc.	
										Total No. of Bottles/ Containers	

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: David Twamley	Organization: ARCADIS	Date 6/14/10	Time 1200	Seal Intact?	
Received by: Beth A Daughtry	Organization: TA SAV	Date 6/15/10	Time 0914	Yes No N/A	
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?	
Received by: _____	Organization: _____	Date / /	Time _____	Yes No N/A	

Special Instructions/Remarks: _____

Temp 3.4 680-58582

Delivery Method: ☐ In Person ☒ Common Carrier Fed Ex (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-58582-1

Login Number: 58582
Creator: Daughtry, Bethl
List Number: 1

List Source: TestAmerica Savannah

Question	F/ NA	Comment
Radioactivity either was not measured or, if measured is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA samples are received without headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Was the Field Sampler's name present on COC?	False	
Sample Preservation Verified	True	

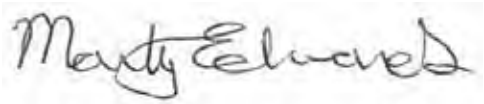
ANALYTICAL REPORT

Job Number: 400-48250-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
6/24/2010 8:46 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
06/24/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page.

TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250507), New Jersey (FL006), North Carolina (314), North Dakota (R-108), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

Commen:
No additional co. n tS. k

Receipt D
All samples wekS rScSved in g ood condition within tSpek raturS rSq uirS n tS.S

Metals D
Mekhod 1631E: The matrix spike / matrix spike duplicatS(MS/MSD) rScovekies for batch 400-111162\ 400-111279 wekS outSde contro. k imitS. The asskociatSd la boratory contro. samples (LCS\LCSD) rScovekies mekaccSp tancS critSria. Data was fcagged and rSp ortSd as iskS

No othek analykical or quality isskuc wekrSn otSd .S

METHOD SUMMARY:

CliF . CADIS U.S., Inc.F Job Number: 400-48250-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
MF cury, Low LFvFl (CVAFS)F	TAL PEN.	EPAF1631EF	
PF paFatiF., MF cury, Low LFvFlF	TAL PEN.		EPAF1631EF

Lab References:

TAL PEN = TFstAFmer.ca PF sac olaF

Method References:

EPAF= US EnviFo. me. al PFo. ctiF. .gF cyF

METHOD / ANAL1ST SUMMARL

Client: ARCADIS U.S.,dnc.c

Job Number: 400-48250-1U

M: th1	Analyst1	Analyst ID:
EPA 1631EU	Jones, RandyU	RJU

T: stAmLrica PDnsacD ap

SAMPLD SUMMARY2

Client: ARCADIS U.S., Inc.U Job Number: 400-48250-1U

Lab Sample I2	Cl Del Sample I2	Cl Del Ma:r1x2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Rel elvedb
400-48250-1,	EFFLUENT,	Water,	06/14/2010 0800U	06/15/2010 1005U

SAMPL : S L SD

Client: ARCADIS U.S., Inc., Job Number: 400-48250-1,

Cáentl Sampde 1D:d EFFLUENTa

Lab Sample ID:, 400-48250-1, Date Sampled: 06/14/2010 0800-
Client Matrix:, Water, Received: 06/15/2010 1005-

1631E Mercury, Low Level (CVAFS)

Method:-	1631E-	Analysis Batch: 400-111279-		Instrument ID:-	HYDRA-
Preparation:-	1631E-	Prep Batch: 400-111162-		Lab File ID:-	062110b.PRN
ilution:-	1.0-			Initial Weight/Volume:-	40 mL-
Analyzed:-	06/21/2010 1236-			Final Weight/Volume:-	40 mL-
Prepared:-	06/18/2010 1100-				

Analyte-	Result (ng/L)-	Qualifier-	RL-
Mercury-	<0.50-		0.50-

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc. Job Number: 400-48250-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 400-111162					
LCS 400-111162/2-A	Lab Control Sample	T	Water	6010B	
LCSD 400-111162/3-A	Lab Control Sample Duplicate	T	Water	6010B	
MB 400-111162/1-A	Method Blank	T	Water	6010B	
400-48250-1	EFFLUENT	T	Water	6010B	
400-48348-A-4-B MS	Matrix Spike	T	Water	6010B	
400-48348-A-4-C MSD	Matrix Spike Duplicate	T	Water	6010B	
Analysis Batch: 400-111279					
LCS 400-111162/2-A	Lab Control Sample	T	Water	6010B	400-111162
LCSD 400-111162/3-A	Lab Control Sample Duplicate	T	Water	6010B	400-111162
MB 400-111162/1-A	Method Blank	T	Water	6010B	400-111162
400-48250-1	EFFLUENT	T	Water	6010B	400-111162
400-48348-A-4-B MS	Matrix Spike	T	Water	6010B	400-111162
400-48348-A-4-C MSD	Matrix Spike Duplicate	T	Water	6010B	400-111162

Report Basis
T = Total

MetCod Blank - BatCh: 400-111162y **Method: 1631Ey**
Preparation: 1631Ey

Lab SampIF IDF MB 400-111162/1-AF alys-s BaMdhM 400-111279, InsF- ume. IDF HYDRAF
CliF MaM WaM P, p BaMdhM 400-111162 Lab F,IF IDF 062110b.P, N.
Dilu. o. 1.0M Units F- g/Lc Initia Fl WT ghM Volume:. 40 mLc
DaM. alyzUd- 06/21/2010 0931. F, al WT ghM Volume:. 40 mLc
DaM P, paMd- 06/18/2010 1100M

aly.	sultF	QualRF	Lc
M) cury.	<0.50M		0.50M

Lab Control Sample/y **Method: 1631Ey**
Lab Control Sample Duplicate Recovery Report - Batch: 400-111162y **Preparation: 1631Ey**

LCS Lab SampIF IDF LCS 400-111162/2-AF alys-s BaMdhM 400-111279, InsF- ume. IDF HYDRAF
CliF MaM WaM P, p BaMdhM 400-111162 Lab F,IF IDF 062110b.P, N.
Dilu. o. 1.0M Units F- g/Lc Initia Fl WT ghM Volume:. 40 mLc
DaM. alyzUd- 06/21/2010 0939, F, al WT ghM Volume:. 40 mLc
DaM P, paMd- 06/18/2010 1100M

LCSD Lab SampIF IDF LCSD 400-111162/3-AF alys-s BaMdhM 400-111279, InsF- ume. IDF HYDRAF
CliF MaM WaM P, p BaMdhM 400-111162 Lab F,IF IDF 062110b.P, N.
Dilu. o. 1.0M Units F- g/Lc Initia Fl WT ghM Volume:. 40 mLc
DaM. alyzUd- 06/21/2010 0947M F, al WT ghM Volume:. 40 mLc
DaM P, paMd- 06/18/2010 1100M

	% . c.F						
aly.	LCSF	LCSDF	Lcm.	PDF	PD Lcm.	LCS QualF	LCSD QualF
M) cury.	94h	95M	79 - 121.	1.	20M		

CliF . CMDIS U.S., Inc.F Job Number: 400-48250-1.

Matrix Spike/y
Matrix Spike Duplicate Recovery Report - Batch: 400-111162y

Method: 1631Ey
Preparation: 1631Ey

MS Lab SamplF IDF	400-48348-A-4-B MSF	alys-s BaMdhM	400-111279,
CliF MaM	WaM	P, p BaMdhM	400-111162
Dilu. o.	1.0M		
DaM. alyzUd-	06/21/2010 1108F		
DaM P, paMd-	06/18/2010 1100M		

InsF- ume. IDF	HYDRAF		
Lab F,IF IDF	062110b.P, N.		
InitiaF l WT ghM	Volume:. 40 mLc		
F, al WT ghM	Volume:. 40 mLc		

MSD Lab SamplF IDF	400-48348-A-4-C MSDF	alys-s BaMdhM	400-111279,
CliF MaM	WaM	P, p BaMdhM	400-111162
Dilu. o.	1.0M		
DaM. alyzUd-	06/21/2010 1116,		
DaM P, paMd-	06/18/2010 1100M		

InsF- ume. IDF	HYDRAF		
Lab F,IF IDF	062110b.P, N.		
InitiaF l WT ghM	Volume:. 40 mLc		
F, al WT ghM	Volume:. 40 mLc		

	% . c.F						
aly.	MSF	MSDF	Lcm.	PDF	PD Lcm.	MS QualF	MSD QualF
M) cury.	43	41.	71 - 125M	4h	24h	F,	F,

DATA RhPORT:ND D ALIFa RSh

Client: ARCADIS U.S., Inc.- Job Number: 400-48250-1M

Lab Sectionp	u alifierC	Descriptionp
etalsb		
	Fb	S or MSD eMceeds the control limitsb

SERIAL NUMBER: 02054

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:
BOTTLE ORDER NO.: MPE
ORDER - LOG-IN NO.: C400-48250

CLIENT: ARCADIS
ADDRESS: 801 Corporate Center Dr., Raleigh, NC 27607
PAGE: 1 OF 1

PROJECT NAME: UNC-Airport Rd.
PROJECT NO.: NC000239.0018.00001
CLIENT PROJECT MANAGER: Alan Pinnix
PROJECT LOC. (STATE): NC

SAMPLED BY: Dave Twamley
CONTRACT / P.O. NO.:
CLIENT PHONE: 919-854-1282
CLIENT E-MAIL OR FAX:

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☒ NORMAL - 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
☐ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION
Δ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: LL Mercury (1631E)	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
6/14/10	800	Effluent	X										X				3	

LAB USE ONLY - SAMPLE NUMBER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Jennifer Ortis	5/16/08	1320	Dave Twamley	6/14/10	1200			
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	6/15/10	~~8:00~~ 10:05	Δ YES Δ NO		0-0C

TAL-8251 (1207)

Page 13 of 14

L1gin Sam1le Recei1t CheckList1

Client: ARCADIS U.S., Inc.- Job Number: 400-48250-1M

L1gin Number: 48250N **List Source: TestAmerica PensacolaN**
Creator: Hor, KomaN
List Number: 1N

QuestionN	F/ NAN	CommentN
RMdioMctivity either w) s not meMsured or, if meMsured, is Mt or below M bMckgroundc	N/AM	
The cooler's custody seM, if present, is intMct.-	N/AM	
The cooler or s, mples do not MppeMr to hMve been compromised or M tMmpered with.-	TrueM	
SMmples were received on ice.-	TrueM	
Cooler TemperMture is McceptMble.-	TrueM	
Cooler TemperMture is recorded.-	TrueM	0.0°CM
COC is present.-	TrueM	
COC is filled out in ink Mnd legible.-	TrueM	
COC is filled out with Ml pertinent informMtion.-	TrueM	
There Mre no discrep ncies between the s, mple IDs on the contMiners Mnd M the COC.-	TrueM	
SMmples Mre received within Holding Time.-	TrueM	
SMmple contMiners hMve legible lMbels.-	TrueM	
ContMiners Mre not broken or leMking.-	TrueM	
SMmple collection dcte/times Mre provided.-	TrueM	
AppropriMte s, mple contMiners Mre used.-	TrueM	
SMmple bottles Mre completely filled.-	TrueM	
There is sufficient vol. for Ml requested MnMlyses, incl. Mny requested M MS/MSDs,	TrueM	
VOA s, mple viMs do not hMve heMdsp ce or bubble is <6mm (, /4") in M diMmeter.-	TrueM	
If necess, ry, stMff hMve been informed of Mny short hold time or quick TAT M needs,	TrueM	
Multiphasic s, mples Mre not present.-	TrueM	
SMmples do not require splitting or compositing.-	TrueM	
Is the Field SMmpler's nMme present on COC?M	TrueM	
SMmple PreservStion Verifiedc	TrueM	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-59824-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
8/10/2010 11:18 AM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
08/10/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY:

Client: ARCADIS U.S., Inc. Job Number: 680-59C24-1C

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatile . a nic Com. oun. (GC/MS)C	TAL SAVC	SW84C8.20C BC	
Pur. an. TCapC	TAL SAVC		SW84C50 30BC
MCal. (ICP)C	TAL SAVC	SW84C60 10C.	
PrepaCation, Extractable MCal.	TAL SAVC		SM 3030C.

Lab References:

TAL SAV = TC tAmerica SavannahC

Method References:

SM = "Stan.aC MCho. For ThC Examination .f Water An. WasteCwater",.

SW84C = "TC t MCho. For Evaluatin. Soli. WasteC, PhysCal/ChCnic al MCho. " , Thir. EdiCon, NovCmber 19C An. It. . U. a te.

METHOD / A9 AL1 ST SUMMAR

Client: ARCADIS U.S., Inc.C

Job Number: 680-59824-1C

M: thN			AnalystN	Analyst ID:
SW846	8260BC		Bearden, RobertC	RBC
SW846	6010C	BC	Bland, BrianCC	B

SAMPLD SUMMARY2

lient: ARCADIS U.S. , Inc.C

Job Number: 680-59824-1C

Lab Sample I2	Cl De y Sample I2	Cl De y Ma:rN x2	a:e/Ti2 ne : Sampledb	a:e/Ti2 ne : Reyeywedb
0-59824-1U	luentU	WaterU	07/27/2010 1440U	07/28/2010 0856U

Client: ARCADIS U.S., Inc.U Job Number: 680-59824-1U

ClientySampleNID:d Effluenty

Lab Sample ID:U 0-59824-1U Date Sampled: 07/27/2010 1440U
Client Uatrix:U WaterU Date Received: 07/28/2010 0856U

8260BdVolatileNOrganic Compounasd(GC/MS):

ethod:U 260BU Analysis Batch: 680-175708U Instrument ID:U SO2U
Preparation:U 030BU Lab File ID:U o0058.dU
Dilution:U 1.0U Initial Weight/Volume:U m L.
Date Analyzed:U 07/29/2010 1533U Final Weight/Volume:U m L.
Date Prepared:U 07/29/2010 1533U

AnalyteU	Result (ug/L)	QualifierU	RL.
AcetoneU	25	U	25U
BenzeneU	1.0	U	1.0U
BromoformU	1.0	U	1.0U
BromomethaneU	1.0	U	1.0U
Carbon disulfideU	2.0	U	2.0U
Carbon tetrachlorideU	1.0	U	1.0U
ChlorobenzeneU	1.0	U	1.0U
ChlorodibromomethaneU	1.0	U	1.0U
ChloroethaneU	1.0	U	1.0U
ChloroformU	1.0	U	1.0U
ChloromethaneU	1.0	U	1.0U
cis-1,2-DichloroetheneU	1.0	U	1.0U
cis-1,3-DichloropropeneU	1.0	U	1.0U
DichlorobromomethaneU	1.0	U	1.0U
1,1-DichloroethaneU	1.0	U	1.0U
1,2-DichloroethaneU	1.0	U	1.0U
1,1-DichloroetheneU	1.0	U	1.0U
1,2-DichloropropaneU	1.0	U	1.0U
Diethyl etherU	45U		10U
EthylbenzeneU	1.0	U	1.0U
2-HexanoneU	10	U	10U
ethylene ChlorideU		.0	5.0U
2-Butanone (UEK)U	10	U	10U
4-Uethyl-2-pentanone (UIBK)U	10	U	10U
StyreneU	1.0	U	1.0U
1,1,2,2-TetrachloroethaneU	1.0	U	1.0U
TetrachloroetheneU	1.0	U	1.0U
TolueneU	1.0	U	1.0U
trans-1,2-DichloroetheneU	1.0	U	1.0U
trans-1,3-DichloropropeneU	1.0	U	1.0U
1,1,1-TrichloroethaneU	1.0	U	1.0U
1,1,2-TrichloroethaneU	1.0	U	1.0U
TrichloroetheneU	1.0	U	1.0U
Vinyl chlorideU	1.0	U	1.0U
Xylenes, TotalU	2.0	U	2.0U

SurrogateU	%RecU	QualifierU	Acceptance LimitsU
4-BromofluorobenzeneU	93U		75 - 120U
DibromofluoromethaneU	98U		75 - 121U
Toluene-d8 (Surr)U	102U		75 - 120U

Client: ARCADIS U.S., Inc.U Job Number: 680-59824-1U

ClientySampleNID:d Effluenty

Lab Sample ID:U 0-59824-1U Date Sampled: 07/27/2010 1440U
Client Uatrix:U WaterU Date Received: 07/28/2010 0856U

6010C Metalsq(ICP):

ethod:U	010CU	Analysis Batch: 680-176620U	Instrument ID:U ICPDU
Preparation:U	3030CU	Prep Batch: 680-175681U	Lab File ID:U 080610.chrU
Dilution:U	1.0U		Initial Weight/Volume:U 0 m L.
Date Analyzed:U	08/06/2010 2204U		Final Weight/Volume:U 0 m L.
Date Prepared:U	07/29/2010 1241U		

AnalyteU	Result (ug/L)U	QualifierU	RL.
ArsenicU	20		20U
ChromiumU	10	U	10U
CopperU	20		20U
LeadU	10	U	10U
ZincU	100		100U

DATA RhPORT: D ALIña RSh

Client: ARCADIS U.S., Inc.U Job Number: 680-59824-1U

Lab Sectionp	u alifierN	Descriptionp
GC/MS V. AU		
		Indicates the analyte was analyzed for but not detected.U
MetalsT		
		Indicates the analyte was analyzed for but not detected.U

Client: ARCADIS U.S., Inc. Job Number: 680-59C24-1C

Method Blank - Batch: y80 -175708u

Method: 8260Bu
Preparation: 5030Bu

Lab Sample ID:. MB 680-175708/T
Client Matrixe Water.
Dilution:. 1.0.
Date Analyz4dU 07/29/2010 1144C
Date PU pa. dU 07/29/2010 1144C

Analysis BatchM 680-175708.
PU p BatchMN/A.
Units- ug/Le

Instrument ID:. MSO2C
Lab File ID:. oq220.dU
Initial Weight/Volume:. 5 mLe
Final Weight/Volume:. 5 mLe

Analyte.			Result.	Qual.	RLe
Acetone.			25.	U.	25.
BQ z4he.	0.	.	1	U.	1.0.
BQmoform.	0.	.	1	U.	1.0.
BQmomethane.	0.	.	1	U.	1.0.
Ca.bon disulfidU	0.	.	2	U.	2.0.
Ca.bon tetrachloridU	0.	.	1	U.	1.0.
Chlorobenz4he.	0.	.	1	U.	1.0.
Chlorodibromomethane.	0.	.	1	U.	1.0.
Chloroethane.	0.	.	1	U.	1.0.
Chloroform.	0.	.	1	U.	1.0.
Chloromethane.	0.	.	1	U.	1.0.
cis-1,2-DichloroethM e.	0.	.	1	U.	1.0.
cis-1,3-Dichloroplo pu e.	0.	.	1	U.	1.0.
Dichlorobromomethane.	0.	.	1	U.	1.0.
1,1-Dichloroethane.	0.	.	1	U.	1.0.
1,2-Dichloroethane.	0.	.	1	U.	1.0.
1,1-DichloroethM e.	0.	.	1	U.	1.0.
1,2-Dichloroplo pane.	0.	.	1	U.	1.0.
Diethyl ethM			10.	U.	10.
Ethylbenz4he.	0.	.	1	U.	1.0.
2-H, xanone.			10.	U.	10.
MR hylene ChloridU			5.0.	U.	5.0.
2-Butanone (MEK)M			10.	U.	10.
4-MR hyl-2-pu t anone (MIBK)M			10.	U.	10.
Styene.	0.	.	1	U.	1.0.
1,1,2,2-Tu r.achloroethane.	0.	.	1	U.	1.0.
Tu r.achloroethM e.	0.	.	1	U.	1.0.
Toluene.	0.	.	1	U.	1.0.
trans-1,2-DichloroethM e.	0.	.	1	U.	1.0.
trans-1,3-Dichloroplo pu e.	0.	.	1	U.	1.0.
1,1,1-Tu chloroethane.	0.	.	1	U.	1.0.
1,1,2-Tu chloroethane.	0.	.	1	U.	1.0.
Tu chloroethM e.	0.	.	1	U.	1.0.
Vinyl chloridU	0.	.	1	U.	1.0.
Xylenes, Total.	0.	.	2	U.	2.0.

Surrogate.	% Rec.	Acceptance Limits-
4-BQmofluorobenz4he.	94C	75 - 120.
Dibromofluoromethane.	99C	75 - 121C
Toluene-dU (Surr) M	99C	75 - 120.

Client: ARCADIS U.S., Inc. Job Number: 680-59C24-1C

Lab Control Sample/u **Method: 8260Bu**
Lab Control Sample Duplicate Recovery Report - Batch: 680-175708u **Preparation: 5030Bu**

LCS Lab Sample ID:.	LCS 680-175708/5.	Analysis BatchM	680-175708.	Instrument ID:.	MSO2C
Client Matrixe	Water.	PU p BatchMN/A.		Lab File ID:.	oq2120CdU
Dilution:.	1.0.	Units-	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4dU	07/29/2010 0949C			Final Weight/Volume:.	5 mLe
Date PU pa. dU	07/29/2010 0949C				

LCSD Lab Sample ID:.	LCSD 680-175708/T	Analysis BatchM	680-175708.	Instrument ID:.	MSO2C
Client Matrixe	Water.	PU p BatchMN/A.		Lab File ID:.	oq2140CdU
Dilution:.	1.0.	Units-	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4dU	07/29/2010 101C			Final Weight/Volume:.	5 mLe
Date PU pa. dU	07/29/2010 101C				

	% Rec.						
Analyte.	LCS.	LCSD.	Limit.	RPD.	RPD Limit.	LCS Qual.	LCSD Qual.
Acetone.	91C	93U	17 - 175.	2C	50.		
BC2i z4ne.	99C	99C	77 - 119C	0.	30.		
BC2moform.	102C	101C	2 - 133U	1C	30.		
BC2momethane.	72C	73U	12 - 1C4C	1C	50.		
Ca.bon disulfidU	9C	9C	55 - 131C	0.	30.		
Ca.bon tetrachloridU	103U	102C	71 - 135.	1C	30.		
Chlorobenz4ne.	9C	100.	5 - 11C	2C	30.		
Chlorodibromomethane.	102C	104C	75 - 133U	1C	30.		
Chloroethane.	92C	94C	40 - 1C5.	2C	50.		
Chloroform.	99C	100.	2 - 120.	1C	30.		
Chloromethane.	91C		4C- 142C	4C	50.		
cis-1,2-DichloroethM e.	97N	9C	9 - 134C	2C	30.		
cis-1,3-Dichloropl dpl e.	102C	102C	7N- 12C	0.	30.		
Dichlorobromomethane.	103U	104C	7N- 127N	1C	30.		
1,1-Dichloroethane.	100.	101C	74 - 127N	1C	30.		
1,2-Dichloroethane.	100.	101C	- 132C	1C	30.		
1,1-DichloroethM e.	956.	94C	2 - 141C	1C	30.		
1,2-Dichloropl dpane.	99C	9C	73 - 124C	1C	30.		
Ethylbenz4ne.	102C	103U	- 11C	1C	30.		
2-H, xanone.	106.	107N	34 - 1C1C	1C	30.		
MF hylene ChloridU	9C	99C	70 - 125.	2C	30.		
2-Butanone (MEK)M	9C	9C	33 - 157N	1C	30.		
4-MF hyl-2-pl t anone (MIBK)M	105.	106.	40 - 151C	1C	30.		
Styene.	94C	9C	2 - 122C	2C	30.		
1,1,2,2-Tl r.achloroethane.	101C	102C	9 - 129C	1C	30.		
Tl r.achloroethM e.	97N	94C	7N- 12C	3U	30.		
Toluene.	103U	104C	1 - 117N	1C	30.		
trans-1,2-DichloroethM e.	97N	9C	72 - 131C	2C	30.		
trans-1,3-Dichloropl dpl e.	105.	106.	73 - 12C	0.	30.		
1,1,1-Tl chloroethane.	101C	101C	7N- 127N	0.	30.		
1,1,2-Tl chloroethane.	99C	99C	75 - 121C	0.	30.		
Tl chloroethM e.	94C	97N	4 - 115.	3U	30.		
Vinyl chloridU	9C	9C	5 9 - 144C	2C	50.		

Client: ARCADIS U.S., Inc. Job Number: 680-59C24-1C

Lab Control Sample/u **Method: 8260Bu**
Lab Control Sample Duplicate Recovery Report - Batch: 680-175708u **Preparation: 5030Bu**

LCS Lab Sample ID:.	LCS 680-175708/5.	Analysis BatchM	680-175708.	Instrument ID:.	MSO2C
Client Matrixe	Water.	PU p BatchMN/A.		Lab File ID:.	oq2120dU
Dilution:.	1.0.	Units-	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4dU	07/29/2010 0949C			Final Weight/Volume:.	5 mLe
Date PU pa. dU	07/29/2010 0949C				

LCSD Lab Sample ID:.	LCSD 680-175708/T	Analysis BatchM	680-175708.	Instrument ID:.	MSO2C
Client Matrixe	Water.	PU p BatchMN/A.		Lab File ID:.	oq2140dU
Dilution:.	1.0.	Units-	ug/Le	Initial Weight/Volume:.	5 mLe
Date Analyz4dU	07/29/2010 101C			Final Weight/Volume:.	5 mLe
Date PU pa. dU	07/29/2010 101C				

	% Rec.					
Analyte.	LCS.	LCSD.	Limit.	RPD.	RPD Limit.	LCS Qual.	LCSD Qual.
Xylenes, Total.	958.	95.	4 - 11C	0.	30.		

Surrogate.	LCS % Rec.	LCSD % Rec.	Acceptance Limits-
4-BComofluorobenz4ne.	9C	99C	75 - 120.
Dibromofluoromethane.	99C	99C	75 - 121C
Toluene-dU (Surr)M	102C	101C	75 - 120.

Method Blank - Batch: 680-175681u

Method: 6010Cu
Preparation: 3030Cu

Lab Sample ID:. MB 680-175681/7-A.
Client Matrixe Water.
Dilution:. 1.0.
Date Analyz4dU 08/06/2010 2142C
Date PU pa. dU 07/29/2010 1241C

Analysis BatchM 680-17N 20.
PU p BatchM 680-175681C
Units- ug/Le

Instrument ID:. ICPD.
Lab File ID:. 080610.chM
Initial Weight/Volume:. 50 mLe
Final Weight/Volume:. 50 mLe

Analyte.	Result.	Qual.	RLe
A.s-nic.	20.	U.	20.
ChMmium.	10.	U.	10.
CoppU	20.	U.	20.
LeadU	10.	U.	10.
Zinc.	100.	U.	100.

Lab Control Sample - Batch: 680-175681u

Method: 6010Cu
Preparation: 3030Cu

Lab Sample ID:. LCS 680-175681/TA.
Client Matrixe Water.
Dilution:. 1.0.
Date Analyz4dU 08/06/2010 214C
Date PU pa. dU 07/29/2010 1241C

Analysis BatchM 680-17N 20.
PU p BatchM 680-175681C
Units- ug/Le

Instrument ID:. ICPD.
Lab File ID:. 080610.chM
Initial Weight/Volume:. 50 mLe
Final Weight/Volume:. 50 mLe

Analyte.	SpikUAmount.	Result.	% Rec.	Limit.	Qual.
Ars-nic.	2000.	2020.	101C	75 - 125.	
ChMmium.	200.	204C	102C	75 - 125.	
CoppU	250.	254C	101C	75 - 125.	
LeadU	500.	512C	102C	75 - 125.	
Zinc.	500.	51C	103U	75 - 125.	

Serial Number U30324

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: UNC-Airport Rd.
PROJECT NO.: NC000239.0018.00001
PROJECT LOCATION (STATE): NC
TAL (LAB) PROJECT MANAGER: Kathy Smith
P.O. NUMBER:
CONTRACT NO.:
CLIENT (SITE) PM: Alan Pinnix
CLIENT PHONE: 919-854-1282
CLIENT FAX:
CLIENT NAME: Arcadis
CLIENT E-MAIL:
CLIENT ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607
COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Metals 6010*	REQUIRED ANALYSIS: VOCs 8260	REMARKS
		PRESERVATIVE						HNO3	HCl	
7/27/10	1440	Effluent		X				1	3	*see contract

Page 12 of 13

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
David Swanly	7/27/10	1730						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
M. Tallentire	7/28/10	08:56	YES ○ NO ○	680	-59824	1.4

TAL8240-680 (1207)

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 680-59824-1

Login Number: 59824
List Source: TestAmerica Savannah
Creator: Kickliter, Marily
List Number: 1

Question	F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 400-49244-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Marty Edwards

Approved for release.
Marty Edwards
Senior Project Manager
8/4/2010 1:39 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
08/04/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250509), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-09-1), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

Job Narrative
400-49244-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Metals
Method 1631E: The matrix spike duplicate (MSD) recovery for batch 400-113618 \ 400-13658 was outside control limits. The associated laboratory control samples (LCS\LCSD) recoveries met acceptance criteria. Data was flagged and reported as is.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Mercury, Low Level (CVAFS)	TAL PEN	EPA 1631E	
Preparation, Mercury, Low Level	TAL PEN		EPA 1631E

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

Method	Analyst	Analyst ID
EPA 1631E	Jones, Randy	RJ

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-49244-1	EFFLUENT	Water	07/27/2010 1440	07/28/2010 0924

SAMPLE RESULTS

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

Client Sample ID: **EFFLUENT**

Lab Sample ID: 400-49244-1
Client Matrix: Water

Date Sampled: 07/27/2010 1440
Date Received: 07/28/2010 0924

1631E Mercury, Low Level (CVAFS)

Method:	1631E	Analysis Batch: 400-113658		Instrument ID:	HYDRA
Preparation:	1631E	Prep Batch: 400-113618		Lab File ID:	072910b.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	07/29/2010 1101			Final Weight/Volume:	40 mL
Date Prepared:	07/28/2010 1445				

Analyte	Result (ng/L)	Qualifier	RL
Mercury	<0.50		0.50

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 400-113618					
LCS 400-113618/2-A	Lab Control Sample	T	Water	1631E	
LCSD 400-113618/3-A	Lab Control Sample Duplicate	T	Water	1631E	
MB 400-113618/1-A	Method Blank	T	Water	1631E	
400-49231-A-1-B MS	Matrix Spike	T	Water	1631E	
400-49231-A-1-C MSD	Matrix Spike Duplicate	T	Water	1631E	
400-49244-1	EFFLUENT	T	Water	1631E	
Analysis Batch:400-113658					
LCS 400-113618/2-A	Lab Control Sample	T	Water	1631E	400-113618
LCSD 400-113618/3-A	Lab Control Sample Duplicate	T	Water	1631E	400-113618
MB 400-113618/1-A	Method Blank	T	Water	1631E	400-113618
400-49231-A-1-B MS	Matrix Spike	T	Water	1631E	400-113618
400-49231-A-1-C MSD	Matrix Spike Duplicate	T	Water	1631E	400-113618
400-49244-1	EFFLUENT	T	Water	1631E	400-113618

Report Basis
T = Total

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

Method Blank - Batch: 400-113618

Method: 1631E
Preparation: 1631E

Lab Sample ID: MB 400-113618/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 0932
Date Prepared: 07/28/2010 1215

Analysis Batch: 400-113658
Prep Batch: 400-113618
Units: ng/L

Instrument ID: HYDRA
Lab File ID: 072910b.PRN
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Mercury	<0.50		0.50

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 400-113618

Method: 1631E
Preparation: 1631E

LCS Lab Sample ID: LCS 400-113618/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 0940
Date Prepared: 07/28/2010 1215

Analysis Batch: 400-113658
Prep Batch: 400-113618
Units: ng/L

Instrument ID: HYDRA
Lab File ID: 072910b.PRN
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 400-113618/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 0948
Date Prepared: 07/28/2010 1215

Analysis Batch: 400-113658
Prep Batch: 400-113618
Units: ng/L

Instrument ID: HYDRA
Lab File ID: 072910b.PRN
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	94	92	79 - 121	2	20		

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-113618

Method: 1631E
Preparation: 1631E

MS Lab Sample ID:	400-49231-A-1-B MS	Analysis Batch: 400-113658	Instrument ID: HYDRA
Client Matrix:	Water	Prep Batch: 400-113618	Lab File ID: 072910b.PRN
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	07/29/2010 1004		Final Weight/Volume: 40 mL
Date Prepared:	07/28/2010 1215		

MSD Lab Sample ID:	400-49231-A-1-C MSD	Analysis Batch: 400-113658	Instrument ID: HYDRA
Client Matrix:	Water	Prep Batch: 400-113618	Lab File ID: 072910b.PRN
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	07/29/2010 1012		Final Weight/Volume: 40 mL
Date Prepared:	07/28/2010 1215		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	81	67	71 - 125	12	24		F

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 400-49244-1

Lab Section	Qualifier	Description
Metals		
	F	MS or MSD exceeds the control limits

SERIAL NUMBER: 050147

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.: | BOTTLE ORDER NO.: | ORDER - LOG-IN NO.: C910-4924

CLIENT: ARCADIS | ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607 | PAGE: 1 OF 1

PROJECT NAME: UNC-Airport Rd. | PROJECT NO.: NC000239.0018.00001 | CLIENT PROJECT MANAGER: Alan Pinnix | PROJECT LOC. (STATE): NC

SAMPLED BY: David Twamley | CONTRACT / P.O. NO.:

CLIENT PHONE: 919-854-1282 | CLIENT E-MAIL OR FAX: apinnix@arcadis-us.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☐ NORMAL - 10 BUSINESS DAYS ☒
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
☒ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

PRESERVATIVE: No Preservative | HCL - Hydrochloric Acid | HNO3 - Nitric Acid | H2SO4 - Sulfuric Acid or H3PO4 | NAOH - Sodium Hydroxide | CH3OH - Methanol | NAHSO4 - Sodium Bisulfate | NA2S2O3 - Sodium Thiosulfate | Other:

MATRIX: Drinking Water | Aqueous GW, SW, WW | Solid, Semisolid, Sediment | Air | NonAqueous (Oil, Solvent, etc.)

NUMBER OF CONTAINERS SUBMITTED: Low Level Hg 1631E

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	No Preservative	Drinking Water	Aqueous GW, SW, WW	Low Level Hg 1631E
7/27/10	1440	Effluent	X		X	3

POSSIBLE HAZARD IDENTIFICATION
△ NON-HAZARD
△ FLAMMABLE
△ RADIOACTIVE
△ POISON B
△ UNKNOWN
△ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT

LAB USE ONLY - SAMPLE NUMBER

Page 13 of 14

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	6/24/10	1120	David Twamley	7/27/10	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT? △ YES △ NO	CUSTODY SEAL NO.	REMARKS
	07/28/10	9:24			2.4°C

TAL-8251 (1207)

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 400-49244-1

Login Number: 49244
Creator: Chea, Vanda
List Number: 1

List Source: TestAmerica Pensacola

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.4°C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

SERIAL NUMBER: 050147

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:

BOTTLE ORDER NO.:

ORDER - LOG-IN NO.: C400-49244

CLIENT: ARCADIS

ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607

PAGE: 1 OF 1

PROJECT NAME: UNC-Airport Rd.

PROJECT NO.: NC000239.0018.00001

CLIENT PROJECT MANAGER: Alan Pinnix

PROJECT LOC. (STATE): NC

SAMPLED BY: David Twamley

CONTRACT / P.O. NO.:

CLIENT PHONE: 919-854-1282

CLIENT E-MAIL OR FAX: apinnix@arcadis-us.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☒ NORMAL - 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
☒ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

PRESERVATIVE: No Preservative | HCL - Hydrochloric Acid | HNO3 - Nitric Acid | H2SO4 - Sulfuric Acid or H3PO4 | NAOH - Sodium Hydroxide | CH3OH - Methanol | NAHSO4 - Sodium Bisulfate | NA2S2O3 - Sodium Thiosulfate | Other:

MATRIX: Drinking Water | Aqueous GW, SW, WW | Solid, Semisolid, Sediment | Air | NonAqueous (Oil, Solvent, etc.)

NUMBER OF CONTAINERS SUBMITTED: Low Level Hg 1631E

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	No Preservative	HCL	HNO3	H2SO4	NAOH	CH3OH	NAHSO4	NA2S2O3	Other:	Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	Low Level Hg 1631E
7/27/10	1440	Effluent	X										X				3

POSSIBLE HAZARD IDENTIFICATION
△ NON-HAZARD
△ FLAMMABLE
△ RADIOACTIVE
△ POISON B
△ UNKNOWN
△ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT

LAB USE ONLY - SAMPLE NUMBER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	6/24/10	1120	David Twamley	7/27/10	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
[signature]	07/28/10	9:24	△ YES △ NO		2.4°C

TAL-8251 (1207)

ANALYTICAL REPORT

Job Number: 680-60519-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
8/24/2010 4:33 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
08/24/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

n:sS

No additional co. n tS. k

Receipt S

All samples wekS rScSved in g ood condition within tSpek raturS rSq uirS n tS.S

GC/MS VOA S

No analytical o. quality issues were noted.2

Metals S

No analytical o. quality issues were noted.2

VOA Prep S

No analytical o. quality issues were noted.2

METHOD SUMMARY:

Cli2n2 . CMDIS U.S., Inc.2 Job Number: 680-60519-12

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Vola2l2 O2ganic Compounds (GC/MS)	T2L S2V2	SW2428. 0 B2	
Purg2 and T2ap2	T2L S2V2		SW24250 30B2
M2 als (ICP)	T2L S2V2	SW24260 10CM	
Prepa2a2on, Ex2ac2abl2 M2 als2	T2L S2V2		SM 3030CM

Lab References:

T2L S2V = T2s2 merica Savannah2

Method References:

SM = "S2anda2d M2 hods For Th2 Examina2on Of Wa2 . nd Was2 wa2 ",2

SW242 = "T2s2M2 hods For Evalua2ng Solid Was2 , Physical/Ch2m ical M2 hods", Thi2d Edi2on, Nov2mber 19. . nd l2s . Upda2 s.2

METHOD / ANAL1ST SUMMARL

Client: ARCADIS U.S., Inc.2 Job NUmber: 680-60510-1b

M: thN	AnalystN	Analyst ID:
SWM4c 8U2.0 B4	Lanier, CarolynU	CLM
SWM4c 60 10CU	Bland, BrianU	BCB4

AMPLS : UMMARY2

Client: ARCADIS U.S., Inc.2 Job NUmber: 680-605U19-1b

Lab : ample IDS	Cl2eu : ample IDS	Cl2eu Ma:rNx2	Da:e/Ti2ne : ampledb	Da:e/Ti2ne : Reueuvedb
0-605U19-1b	lu2ntU	WaterU	08U1b/2010 0800U	08U19/2010 093I

Client: ARCADIS U.S., Inc.2 Job NUmber: 680-605U19-1b

ClientuSampleNID:d Effluentu

Lab Sample ID:U 0-605U19-1b Date Sampled: 08U1b 2010 0800U
Client Matrix:U WaterU Date Received: 08U19.2010 093U

8260BdVolatileNOrganic CompounasdGC/MS):

Method:U 24 0 B- Analysis Batch: 680-177793U InstrUment ID:U MSP24
Preparation:U 0 30B- Lab File ID:U p03U .d-
Dilu2on:U 1.0U Initial WeightUVolu2me:U m LM
Date Analyzed:U 08U20U2010 1930U Final WeightUVolu2me:U m LM
Date Prepared:U 08U20U2010 1930U

AnalyteU	Res,l t (Fg2L)c	QMalifierU	RLM
AcetoneU	24		24
BenzeneU	1.0U		1.0U
BromoformU	1.0U		1.0U
BromomethaneU	1.0U		1.0U
Carbon dis,l fideU	2.0U		2.0U
Carbon tetrachlorideU	1.0U		1.0U
ChlorobenzeneU	1.0U		1.0U
ChlorodibromomethaneU	1.0U		1.0U
ChloroethaneU	1.0U		1.0U
ChloroformU	1.0U		1.0U
ChloromethaneU	1.0U		1.0U
cis-1,2-DichloroetheneU	1.0U		1.0U
cis-1,3-DichloropropeneU	1.0U		1.0U
DichlorobromomethaneU	1.0U		1.0U
1,1-DichloroethaneU	1.0U		1.0U
1,2-DichloroethaneU	1.0U		1.0U
1,1-DichloroetheneU	1.0U		1.0U
1,2-DichloropropaneU	1.0U		1.0U
Diethyl etherU	10U		10U
EthylbenzeneU	1.0U		1.0U
2-HexanoneU	10U		10U
Methylene ChlorideU	.0U	5U	.0U
2-B- tanone (MEK)c	10U		10U
4-Methyl-2-pentanone (MIBK)c	10U		10U
StyreneU	1.0U		1.0U
1,1,2,2-TetrachloroethaneU	1.0U		1.0U
TetrachloroetheneU	1.0U		1.0U
Tolu2neU	1.0U		1.0U
trans-1,2-DichloroetheneU	1.0U		1.0U
trans-1,3-DichloropropeneU	1.0U		1.0U
1,1,1-TrichloroethaneU	1.0U		1.0U
1,1,2-TrichloroethaneU	1.0U		1.0U
TrichloroetheneU	1.0U		1.0U
Vinyl chlorideU	1.0U		1.0U
Xylenes, Total2	2.0U		2.0U

SUrrogateU	%RecU	QMalifierU	Acceptance Limits,
4-Bromoflu2robenzeneU	103U		7c- 120U
Dibromoflu2romethaneU	9.		7c- 121b
Tolu2ne-d- (SUrr)c	101b		7c- 120U

Client: ARCADIS U.S., Inc.2 Job NUmber: 680-605U19-1b

ClientuSampleNID:d Effluentu

Lab Sample ID:U 0-605U19-1b Date Sampled: 08U1b 2010 0800U
Client Matrix:U WaterU Date Received: 08U19.2010 093U

6010C aMetalsq(ICP):

Method:6U 010CU Analysis Batch: 680-17c0 99. InstrUment ID:U ICPD2
Preparation:U 3030CU Prep Batch: 680-177710U Lab File ID:U 0U2310.chrU
Dilu2on:U 1.0U Initial WeightUVolu2me:U 0 m LM
Date Analyzed:U 08U23U2010 1934M Final WeightUVolu2me:U 0 m LM
Date Prepared:U 08U19.2010 1b324

AnalyteU	Res,l t (Fg2L)c	QMalifierU	RLM
ArsenicU	20U		20U
ChromiUmU	10U		10U
CopperU	20U		20U
Lead-	10U		10U
ZincU	100U		100U

DATA RhPORT:NS S ALIFia RSh

Client: ARCADIS U.S., Inc.2 Job NUmber: 680-60510-1b

Lab Sectionp	u alifierN	Descriptionp
GC/MS VOAU		
		Indicates the analyte was analyzed for bUt not detected.2
Metals,		
		Indicates the analyte was analyzed for bUt not detected.2

Cli2n2 . CMDIS U.S., Inc.2 Job Number: 680-60519-12

Method Blank - Batch: 680-177793y

Method: 8260By
Preparation: 5030By

Lab Sampl2 ID2	MB 680-177793/7c		nalysis BaM2	680-177793F	
Cli2n2MaM2	WaM		Ph p BaM2	N/c	
Dilu.ion2	1.0.		Uni2sh	ug/Lc	
DaM. nalyzUd-	08/20/2010 1202N		Inshumen2ID2	MSP2N	
DaM Ph paMd-	08/20/2010 1202N		Lab Fil2 ID2	pq390.d-	
			Ini2al W2igh /Volume:.	5 mLc	
			Final W2igh /Volume:.	5 mLc	

naly.	sul2	Qual2	Lc
c2 on2	25.	U2	25.
BUnzUn2	1.0.	U	1.0.
Blomoform.	1.0.	U	1.0.
Blomome. an2	1.0.	U	1.0.
CaMon disulfid-	2.0.	U2	2.0.
CaMon . ac2lorid-	1.0.	U	1.0.
CMorobenzUn2	1.0.	U	1.0.
CMorodibromome. an2	1.0.	U	1.0.
CMoroe. an2	1.0.	U	1.0.
CMoroform.	1.0.	U	1.0.
CMorome. an2	1.0.	U	1.0.
cis-1,2-Dic2loroe. n2	1.0.	U	1.0.
cis-1,3-Dic2lorop2op2n2	1.0.	U	1.0.
Dic2lorobromome. an2	1.0.	U	1.0.
1,1-Dic2loroe. an2	1.0.	U	1.0.
1,2-Dic2loroe. an2	1.0.	U	1.0.
1,1-Dic2loroe. n2	1.0.	U	1.0.
1,2-Dic2lorop2opan2	1.0.	U	1.0.
Di2 yl e.	10.	U2	10.
EtFylbenzUn2	1.0.	U	1.0.
2-H, anon2	10.	U2	10.
M) yl2n2 CMorid-	5.0.	U2	5.0.
2-Bu.anon2 (MEK)U	10.	U2	10.
4-M) yl-2-p2n2anon2 (MIBK)U	10.	U2	10.
S2y. n2	1.0.	U	1.0.
1,1,2,2-Te. ac2loroe. an2	1.0.	U	1.0.
Te. ac2loroe. n2	1.0.	U	1.0.
Toluen2	1.0.	U	1.0.
ans-1,2-Dic2loroe. n2	1.0.	U	1.0.
ans-1,3-Dic2lorop2op2n2	1.0.	U	1.0.
1,1,1-Tric2loroe. an2	1.0.	U	1.0.
1,1,2-Tric2loroe. an2	1.0.	U	1.0.
Tric2loroe. n2	1.0.	U	1.0.
Vinyl c2lorid-	1.0.	U	1.0.
Xyl2n2s, To.al2	2.0.	U2	2.0.

SurrogaM	% c2	cc2p2anc2 Limi2sh .
4-Blomofluorobenzun2	104M	75 - 120.
Dibromofluorome. an2	99.	75 - 1212
Toluen2-d- (Surr)U	1012	75 - 120.

Lab Control Sample/y **Method: 8260By**
Lab Control Sample Duplicate Recovery Report - Batch: 680-177793y **Preparation: 5030By**

LCS Lab Sampl2 ID2	LCS 680-177793/4M	nalysis BaM2	680-177793F	Inshumen2ID2	MSP2N
Cli2n2MaM2	WaM	Ph p BaM2	N/c	Lab Fil2 ID2	pq3F2.d-
Dilu.ion2	1.0.	Uni2sh	ug/Lc	Ini2al W2igh /Volume:.	5 mLc
DaM. nalyzUd-	08/20/2010 1032N			Final W2igh /Volume:.	5 mLc
DaM Ph paMd-	08/20/2010 1032N				

LCSD Lab Sampl2 ID2	LCSD 680-177793/5.	nalysis BaM2	680-177793F	Inshumen2ID2	MSP2N
Cli2n2MaM2	WaM	Ph p BaM2	N/c	Lab Fil2 ID2	pq3F4.d-
Dilu.ion2	1.0.	Uni2sh	ug/Lc	Ini2al W2igh /Volume:.	5 mLc
DaM. nalyzUd-	08/20/2010 1055.			Final W2igh /Volume:.	5 mLc
DaM Ph paMd-	08/20/2010 1055.				

	% . c.2					
naly.	LCS2	LCSD2	Limi2	PD2	PD Limi2	LCS Qual2 LCSD Qual2
c2 on2	9.	3F	17 - 175.	7c	50.	
BUnzUn2	1012	100.	77 - 119.	0.	30.	
Blomoform.	1156.	112N	2 - 133F	3F	30.	
Blomome. an2	58.	72N	12 - 124M	22N	50.	
CaMon disulfid-	1012	100.	55 - 1312	12	30.	
CaMon . ac2lorid-	9.	97c	71 - 135.	12	30.	
CMorobenzUn2	106.	104M	5 - 112	2N	30.	
CMorodibromome. an2	102N	102N	75 - 133F	0.	30.	
CMoroe. an2	912	100.	40 - 125.		50.	
CMoroform.	9.	9.	2 - 120.	0.	30.	
CMorome. an2	97c	97c	4M- 142N	0.	50	.
cis-1,2-Dic2loroe. n2	1012	1012	9 - 134M	12	30.	
cis-1,3-Dic2lorop2opn2	102N	103F	7c- 12N	12	30.	
Dic2lorobromome. an2	103F	102N	7c- 127c	12	30.	
1,1-Dic2loroe. an2	100.	102N	74 - 127c	2N	30.	
1,2-Dic2loroe. an2	9.	94M	- 132N	2N	30.	
1,1-Dic2loroe. n2	906.	912	2 - 1412	2N	30.	
1,2-Dic2lorop2opan2	9.	9.	73 - 124M	0.	30.	
Di2 yl e.	7c	0.	70 - 1308.		30.	
EtFylbenzUn2	108.	107c	- 112	12	30.	
2-H, anon2	9.	9.	34 - 1212	9.	30.	
M) yl2n2 CMorid-	1012	100.	70 - 125.	12	30.	
2-Bu.anon2 (MEK)U		9.	33 - 157c	12	30.	
4-M) yl-2-p2n2anon2 (MIBK)U	94M	90.	40 - 1512	4M	30.	
S2y. n2	1108.	108.	2 - 122N	2N	30.	
1,1,2,2-Te. ac2loroe. an2	105.	102N	9 - 129.	3F	30.	
Te. ac2loroe. n2	112	112	7c- 12N	0.	30.	
Toluen2	100.	100.	1 - 117c	0.	30.	
ans-1,2-Dic2loroe. n2	9.	100.	72 - 1312	4M	30.	
ans-1,3-Dic2lorop2opn2	104M	104M	73 - 12N	12	30.	
1,1,1-Tric2loroe. an2	108.	107c	7c- 127c	12	30.	
1,1,2-Tric2loroe. an2	99.	97c	75 - 1212	2N	30.	
Tric2loroe. n2	1012	102N	4 - 115.	0.	30.	

Lab Control Sample/y **Method: 8260By**
Lab Control Sample Duplicate Recovery Report - Batch: 680-177793y **Preparation: 5030By**

LCS Lab Sampl2 ID2	LCS 680-177793/4M		nalysis BaM2	680-177793F	Inshumen2ID2 MSP2N
Cli2n2MaM2	WaM		Ph p BaM2 N/c		Lab Fil2 ID2 pq3F2.d-
Dilu.ion2	1.0.		Uni2sh ug/Lc		Ini2al W2igh /Volume:. 5 mLc
DaM. nalyzUd-	08/20/2010 1032N				Final W2igh /Volume:. 5 mLc
DaM Ph paMd-	08/20/2010 1032N				

LCSD Lab Sampl2 ID2	LCSD 680-177793/5.		nalysis BaM2	680-177793F	Inshumen2ID2 MSP2N
Cli2n2MaM2	WaM		Ph p BaM2 N/c		Lab Fil2 ID2 pq3F4.d-
Dilu.ion2	1.0.		Uni2sh ug/Lc		Ini2al W2igh /Volume:. 5 mLc
DaM. nalyzUd-	08/20/2010 1055.				Final W2igh /Volume:. 5 mLc
DaM Ph paMd-	08/20/2010 1055.				

naly.	% . c.2 LCS2	LCSD2	Limi2	PD2	PD Limi2	LCS Qual2	LCSD Qual2
Vinyl c2lorid-	100.	102N	59 - 144M	2N	50.		
Xyl2n2s, To.al2	108.	105.	4 - 112	3F	30.		

SurrogaM	LCS % . c2	LCSD % . c2	cc2p2anc2 Limi2sh
4-Bubmofluorobenzun2	106.	104M	75 - 120.
Dibromofluorome. an2	102N	103F	75 - 1212
Toluen2- d- (Surr)U	100.	100.	75 - 120.

Method Blank - Batch: 680-177710y

Method: 6010Cy
Preparation: 3030Cy

Lab Sampl2 ID2	MB 680-177710/14-.	nalysis BaM2	680-17c0 99.	Inshumen2ID2	ICPD2
Cli2n2MaM2	WaM	Ph p BaM2	680-177710.	Lab Fil2 ID2	082310.c2
Dilu.ion2	1.0.	Uni2sh	ug/Lc	Ini2al W2igh /Volume:.	50 mLc
DaM. nalyzUd-	08/23/2010 1737c			Final W2igh /Volume:.	50 mLc
DaM Ph paMd-	08/19/2010 1232N				

naly.	sul2	Qual2	Lc
shnic2	20.	U2	20.
CMomium.	10.	U2	10.
Copp2	20.	U2	20.
Lcad-	10.	U2	10.
Zinc2	100.	U2	100.

Lab Control Sample - Batch: 680-177710y

Method: 6010Cy
Preparation: 3030Cy

Lab Sampl2 ID2	LCS 680-177710/15-.	nalysis BaM2	680-17c0 99.	Inshumen2ID2	ICPD2
Cli2n2MaM2	WaM	Ph p BaM2	680-177710.	Lab Fil2 ID2	082310.c2
Dilu.ion2	1.0.	Uni2sh	ug/Lc	Ini2al W2igh /Volume:.	50 mLc
DaM. nalyzUd-	08/23/2010 1742N			Final W2igh /Volume:.	50 mLc
DaM Ph paMd-	08/19/2010 1232N				

naly.	Spik2. moun2	sul2	% . c.2	Limi2	Qual2
shnic2	2000.	1910.	95.	75 - 125.	
CMomium.	200.	19.	9.	75 - 125.	
Copp2	250.	2312	93F	75 - 125.	
Lcad-	500.	4912	9.	75 - 125.	
Zinc2	500.	495.	99.	75 - 125.	

Serial Number 030220

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: UNC-Airport Rd.	PROJECT NO.: NC000239.0018.0000	PROJECT LOCATION (STATE): NC	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX	DATE DUE
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 801 Corporate Center Dr.			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260)	REQUIRED ANALYSIS: Metals (6010)*	REMARKS
								HCl	HNO3 PRESERVATIVE	
								NUMBER OF CONTAINERS SUBMITTED		
8/18/10	0800	Effluent		X				3	1	*

Page 13 of 14

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
			Derrick Twomley	8/18/10	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Daughtry	8/19/10	0935	YES ○ NO ○		680-60519	Temp 3.3

TAL8240-680 (1207)

LNgin SamNle ReceiNt CheckTListN

Client: ARCADIS U.S., Inc.2 Job NUmber: 680-60510-1b

LNgin Number: N0519y **List SNurce: TestAmerica Savannahy**

CreatNr: Naughtry,SBethy

List Number: Mb

QuestiN	F/ NAN	CNmmentN
RUdioUctivity either w) s not meUs, red or, if meUs, red, is Ut or below U bUckgroUndc	N/AU	
The cooler's cUstody seUl, if present, is intUct.2	TrUeU	
The cooler or s, mples do not UppeUr to hatbe been compromised or U tUmpered with.2	TrUeU	
SUmples were received on ice.2	TrUeU	
Cooler TemperUtUre is UcceptUble.2	TrUeU	
Cooler TemperUtUre is recorded.2	TrUeU	
COC is present.2	TrUeU	
COC is filled oUt in ink Und legible.2	TrUeU	
COC is filled oUt with Ull pertinent informUtion.2	TrUeU	
Is the Field SUmpler's nUme present on COC?U	F, lseU	
There Ure no discrep ncies between the s, mple IDs on the contUiners Und U the COC.2	TrUeU	
SUmples Ure received within Holding Time.2	TrUeU	
SUmple contUiners hatbe legible l2bels.2	TrUeU	
ContUiners Ure not broken or leUking.2	TrUeU	
SUmple collection dcte/times Ure provided.2	TrUeU	
AppropriUte s, mple contUiners Ure Used.2	TrUeU	
SUmple bottles Ure completely filled.2	TrUeU	
SUmple PreservStion Verifiedc	TrUeU	
There is s, fficient vol. for Ull reqUested UnUlyses, incl. Uny reqUested U MS/MSDs,	TrUeU	
VOA s, mple viUls do not hatbe heUdsp ce or bUbble is <)mm (1/4") in U diUmeter.2	TrUeU	
If necess, ry, stUff hatbe been informed of Uny short hold time or qUick TAT U needs,	TrUeU	
M,l tiphatsic s, mples Ure not present.2	N/AU	
SUmples do not reqUire splitting or compositing.2	N/AU	

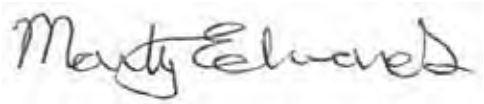
ANALYTICAL REPORT

Job Number: 400-49786-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
8/31/2010 9:59 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
08/31/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250509), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-09-1), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

METHOD SUMMARY:

Cli) . CADIS U.S., Inc.) Job Number: 400-49786-1)

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
M) cury, Low L) v) l (CVAFS)	TAL PEN.	EPA)1631E)	
P) pa)atio., M) cury, Low L) v) l)	TAL PEN.		EPA)1631E)

Lab References:

TAL PEN = T) stA)mer.ca P) sac ola)

Method References:

EPA)= US Envi)o. me. al P)o. cti). .g) cy)

METHOD / ANAL1ST SUMMARL

Client: ARCADIS U.S., Inc.2 Job NUmber: 400-49786-1c

M: thN	AnalystN	Analyst ID:
EPA 1631Ec	Jones, Randyc	RJc

AMPLS : UMMARY2

Client: ARCADIS U.S., Inc.c

Job Number: 400-49786-1c

Lab : ample IDS	Cl2ey : ample IDS	Cl2ey Ma:rnx2	Da:e/Ti2ne : ampledb	Da:e/Ti2ne : Reyewedb
400-49786-1c	LUc NTI	Waterc	08/18/k010 0800c	08/19/k010 0948c

Test2AmerNa Peys a: ola:

AMPL : LS

Client: ARCADIS U.S., Inc.c Job Number: 400-49786-1c

ClientySampleNID:d EFFLUENTa

Lab Sample ID:2 400-49786-12 ate Sampled: 08/18/2010 08002
Client Matrix:2 Water2 ate Received: 08/19/2010 09482

1631E Mercury, LowDLevely(CVAFS)D

Method:2	1631E2	Analysis Batch: 400-1152832	nstrument ID:2 HYDRA2
Preparation:2	1631E2	Prep Batch: 400-1152442	Lab File ID:2 082310b.PRN2
ilution:2	1.02		nitial Weight/Volume:2 40 mL2
ate Analyzed:2	08/23/2010 12062		Final Weight/Volume:2 40 mL2
ate Prepared:2	08/19/2010 15002		

Analyte2	Result (ng/L)2	Qualifier2	RL2
Mercury2	<0.502		0.502

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc.2 Job Number: 400-49786-12

QC yAssociation Summary

Lay Sample IyD-	Client Sample IyD-	Reporty asisy	Client yMatrix-	Method-	PrepC atchC
Metalsy					
PrepC atchC400-115244C					
LCS 400-115244/2-A2	Lab Control Sample2	Tc	Water2	1631EM	
LCSD 400-115244/3-A2	Lab Control Sample Duplicate2	Tc	Water2	1631EM	
MB 400-115244/1-A2	Mct hod Bcankc	Tc	Water2	1631EM	
400-49786-12	EFFLUENTc	Tc	Water2	1631EM	
700-50361-C-4-B MS2	Matrix Spikc	Tc	Water2	1631EM	
700-50361-C-4-C MSD2	Matrix SpikcDuplicate2	Tc	Water2	1631EM	
Analysis y atchC400-115283y					
LCS 400-115244/2-A2	Lab Control Sample2	Tc	Water2	1631EM	400-1152442
LCSD 400-115244/3-A2	Lab Control Sample Duplicate2	Tc	Water2	1631EM	400-1152442
MB 400-115244/1-A2	Mct hod Bcankc	Tc	Water2	1631EM	400-1152442
400-49786-12	EFFLUENTc	Tc	Water2	1631EM	400-1152442
700-50361-C-4-B MS2	Matrix Spikc	Tc	Water2	1631EM	400-1152442
700-50361-C-4-C MSD2	Matrix SpikcDuplicate2	Tc	Water2	1631EM	400-1152442

Report y asisy
T = Total2

Method Blank - Batch: 400-y 5244y **Method: y631Eh**
Preparation: 1631Eh

Lab Sampl5 ID5 MB 400-115244/1-A5
Cli) Ma2 xo Wa2
Dilu. o. 1.0M
Da2 . alyz5d5 3/20105 10035
at5 P5p a5 d5 19/20105 14305

Analysis Batch5 400-1152835
P5p Batch5 400-1152445
Units5 ng/L5

Inst5ument ID5 HYDRA5
Lab Fil5 ID5 3105 b.PRN.
Initial W5ight/Volume:. 405 mL5
Final W5ight/Volume:. 405 mL5

Analyt5	R5sult5	Qual5	RL5
M5 cury5	<0.505		.505

Lab Control Sample/h **Method: 1631Eh**
Lab Control Sample Duplicate Recovery Report - Batch: 400-115244h **Preparation: 1631Eh**

LCS Lab Sampl5 ID5 LCS 400-115244/2-A5
Cli5nt Mat5x5 Wat5
il ution5 1.05
at5 Analyz5d5 3/20105 10115
at5 P5p a5 d5 19/20105 14305

Analysis Batch5 400-1152835
P5p Batch5 400-1152445
Units5 ng/L5

Inst5ument ID5 HYDRA5
Lab Fil5 ID5 3105 b.PRN.
Initial W5ight/Volume:. 405 mL5
Final W5ight/Volume:. 405 mL5

LCSD5 Lab Sampl5 ID5 LCSD5 400-115244/3-A5
Cli5nt Mat5x5 Wat5
il ution5 1.05
at5 Analyz5d5 3/20105 10195
at5 P5p a5 d5 19/20105 14305

Analysis Batch5 400-1152835
P5p Batch5 400-1152445
Units5 ng/L5

Inst5ument ID5 HYDRA5
Lab Fil5 ID5 3105 b.PRN.
Initial W5ight/Volume:. 405 mL5
Final W5ight/Volume:. 405 mL5

Analyt5	% R5c.5 LCS5	LCSD5	Limit5	RPD5	RPD5 Limit5	LCS Qual5	LCSD5 Qual5
M5 cury5	115	1215	79 - 1215				

DATA RhPORT:NS S ALIña RSh

Lab Sectionp	u alifierN	Descriptionp

SERIAL NUMBER: 04687

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:
BOTTLE ORDER NO.:
ORDER - LOG-IN NO.: CHO-49786

CLIENT: ARCADIS
ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607
PAGE: 1 OF: 1

PROJECT NAME: UNC-Airport Rd.
PROJECT NO.: NC000239.0018.00001
CLIENT PROJECT MANAGER: Alan Pinnix
PROJECT LOC. (STATE): NC

SAMPLED BY: Dave Twamley
CONTRACT / P.O. NO.:
CLIENT PHONE: 919-854-1282
CLIENT E-MAIL OR FAX: apinnix@arcadis-us.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ▪ NORMAL - 10 BUSINESS DAYS
□ 1 DAY □ 2 DAYS □ 3 DAYS □ 5 DAYS □ 20 DAYS (Package) □ OTHER:

SAMPLE DISPOSAL: □ RETURN TO CLIENT □ DISPOSAL BY LAB
□ SEE CONTRACT □ OTHER:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION
Δ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: Low level Hg (1631E)	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
8/18/10	0800	Effluent	X										X				3	

LAB USE ONLY - SAMPLE NUMBER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	8/18/09	1040	[signature]	8/18/10	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]			[signature]					

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT? Δ YES Δ NO	CUSTODY SEAL NO.	REMARKS:
[signature]	08/19/10	9:48			2.2°C

Page 11 of 12

TAL-8251 (1207)

LNgin SamNle ReceiNt CNeckTListN

Client: ARCA5S U.S., 5nc.2 Job Number: 400-49786-12

LNgin Number: 49786h **List SNurce: TestAmerica PensacNlaN**
CreatNr: CNea,PVanNlaN
List Number: 1MS

QuestiN	F/ NAN	CNmmentN
Radioactivity either was not measured or, if measured, is at or below S backgroundS	N/AS	
The cooler's custody seal, if present, is intact.S	N/AS	
The cooler or samples do not appear to have been compromised or S tampered with.	TrueS	
amples were received on ice.S	TrueS	
Cooler Temperature is acceptable.S	TrueS	2.2°CS
Cooler Temperature is recorded.S	TrueS	
COC is present.S	TrueS	
COC is filled out in ink and legible.S	TrueS	
COC is filled out with all pertinent information.S	TrueS	
Is the Field Sampler's name present on COC?S	TrueS	
There are no discrepancies between the sample IDs on the containers and S the COC.	TrueS	
amples are received within Holding Time.S	True	
ample containers have legible labels.S	TrueS	
Containers are not broken or leaking.S	True	
ample collection date/times are provided.S	TrueS	
Appropriate sample containers are used.S	True	
ample bottles are completely filled.S	True	
ample Preservation VerifiedS	TrueS	
There is sufficient vol. for all requested analyses, incl. any requested S M /MSDsS	TrueS	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in S diameter.S	TrueS	
If necessary, staff have been informed of any short hold time or quick TAT S eedsS	TrueS	
Multiphasic samples are not present.S	True	
amples do not require splitting or compositing.S	TrueS	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-61207-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Kathryn Smith

Approved for release.
Kathryn Smith
Project Manager I
9/20/2010 4:55 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
09/20/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Commen:
No additional co. n tS. 2

eceipt M
All sa2p les we2S rScS vkd in good condition within tS pk raturS rS uirS n tS.S

GC/MS VOA M
No analytical or q2ality iss2S we2rSn otSd .S

Metals M
No analytical or q2ality iss2S we2rSn otSd .S

VOA Prep M
No analytical or q2ality iss2S we2rSn otSd .S

METHOD SUMMARY:

CliMntM CADISM U.S., .nc.M Job Number: 680-6. 207-1M

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
VolatilMOMganic Compounds (GC/MS)M	TAL . VM	WM4M8.2M BM	
PurgMand TMapM	TAL . VM		WM4M5030BM
tals (ICP)M	TAL . VM	WM4M60 10CM	
PrepaMation, ExtMactablM talsM	TAL . VM		3030CM

Lab References:

TAL . V = TMstAMerica .avannahM

Method References:

= "StandaMd . thods For ThMExamination Of WatM. nd WastMwatM",M

WM4M= "TMst . thods For Evaluating . olid WastM, Physical/ChMn ical . thods", ThiMd Edition, NovMmber 19M. nd .ts . UpdatMs.M

TestAmerica Savannah:

METHOD / ANAL1ST SUMMARL

Client: ARCADIS U.S., Inc.S Job NumbeM M80-S1207-1I

M: thN	AnalystM	Analyst ID:
SW846 8260BI	Lanier, CarolynI	LI
SW846 6010CI	Robertson, BrynI	BRI

SAc PLM SU2 ARY2

lient: ARCADIS U.S., Inc.l Job Number: 680-61207-1l

Lab Sample IDM	Cll4h Sample IDM	Cll4h : a:rNx2	Da:e/Ti2ne : Sampledb	Da:e/Ti2ne : Rehelvedb
680-61207-1U	uentU	WaterU	09/12/2010 1730U	09/14/2010 0907U

Client: ARCADIS U.S., Inc. Job Number: 680-61207-1

Client Sample ID: Effluent

Lab Sample ID: 680-61207-1 Date Sampled: 09/12/2010 1730
Client Matrix: Water Date Received: 09/14/2010 0907

8260B Volatile Organic Compounds (GC/MS):

Method:	8260B	Analysis Batch: 680-180258		Instrument ID:	MSP
Preparation:	5030B			Lab File ID:	p0209.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	09/17/2010 1928			Final Weight/Volume:	5 mL
Date Prepared:	09/17/2010 1928				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Diethyl ether	10	U	10
Ethylbenzene	1.0	U	1.0
2-Hexanone	10	U	10
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	92		75 - 120
Dibromofluoromethane	96		75 - 121
Toluene-d8 (Surr)	96		75 - 120

Client: ARCADIS U.S., Inc.U Job Number: 680-61207-1U

ClienaSMmpleNID:d Effluena

Lab SamplM ID:U 680-61207-1U Date SamplMd: 09/12/2010 1730U
Client Matrix:U WaterU Date Received: 09/14/2010 0907U

6010C MeNl sd(ICP):

Method:U	6010CU	Analysis Batch: 680-180424U		Instrument ID:U	ICPDU
Preparation:U	3030CU	Prep Batch: 680-180001U		Lab File ID:U	091910.chrU
Dilution:U	1.0U			Initial Weight/Volume:U	50 mLI
Date Analyzed:U	09/20/2010 0209I			Final Weight/Volume:U	50 mLI
Date Prepared:U	09/15/2010 1232U				

AnalyteU	Result (ug/L)U	QualifierU	RLI
ArsenicU	20		20U
ChromiumU	10		10U
CopperU	20		20U
Lead-	10		10U
ZincU	100		100U

DATA RhPORT:NM M ALIFa RSh

Client: ARCADIS U.S., Inc.U Job Number: 680-61207-1U

Lab Sectionp	u alifierN	Descriptionp
GC/MS VOAU		
		IndicateUthe ana.yte wa. ana.yzed for but not detected.U
Meta.		
		IndicateUthe ana.yte wa. ana.yzed for but not detected.U

Method Blank - Batch: h0 -18025u **Method: h2h0 Bh**
Prepuration: 5030Bh

Lab . ampIM	MB 680-1M0 25U 95	n alysis BatchI	680-1M0 25U	nstMment .	M) Ph
CliMht MatMM	WatM	Ph p BatchI N.		Lab FilM	pq139.d-
il utionM	1.0.	UnitshugILc		nitial WMghtM	Volume:. 5 mLc
atM n alyzUd-	09/57M2010 1207M			Final WMghtM	Volume:. 5 mLc
atMPh paI d-	09/57M2010 1207M				

nalytM	sultM	QualRM	Lc
cMonM	25U	UM	25U
BI nzUnM	1.0.	U	M0.
BIomoform.	1.0.	U	M0.
BIomomethanM	1.0.	U	M0.
CaIbon disulfid-	2.0.	U	20.
CaIbon tMMachlorid-	1.0.	U	M0.
ChlorobenzUnM	1.0.	U	M0.
ChlorodibromomethanM	1.0.	U	M0.
ChloroethanM	1.0.	U	M0.
Chloroform.	1.0.	U	M0.
ChloromethanM	1.0.	U	M0.
cis-1,2-.ic hloroethI nM	1.0.	U	M0.
cis-1,3-.ic hlorop2opp2nM	1.0.	U	M0.
ic hlorobromomethanM	1.0.	U	M0.
1,1-.ic hloroethanM	1.0.	U	M0.
1,2-.ic hloroethanM	1.0.	U	M0.
1,1-.ic hloroethI nM	1.0.	U	M0.
1,2-.ic hlorop2opanM	1.0.	U	M0.
iM thyl ethI	10.	UM	10.
EthylbenzUnM	1.0.	U	M0.
2-HI anonM	10.	UM	10.
M) thylMnMChlorid-	5.0.	UM	5.0.
2-ButanonM(MEK)I	10.	UM	10.
4-M) thyl-2-p2ntanonM(M)BK)I	10.	UM	10.
t yS nM	1.0.	U	M0.
1,1,2,2-TetMachloroethanM	1.0.	U	M0.
TetMachloroethI nM	1.0.	U	M0.
ToluenM	1.0.	U	M0.
tMans-1,2-.ic hloroethI nM	1.0.	U	M0.
tMans-1,3-.ic hlorop2opp2nM	1.0.	U	M0.
1,1,1-TrichloroethanM	1.0.	U	M0.
1,1,2-TrichloroethanM	1.0.	U	M0.
TrichloroethI nM	1.0.	U	M0.
Vinyl chlorid-	1.0.	U	M0.
XylMnMs, TotalM	2.0.	U	20.

urrogatM	% cM	ccMptancMLimitsh .
4-BIomofluorobenzUnM	95U	75 - 120.
i bromofluoromethanM	95	75 - 121M
ToluenMd- (I urr)I	95	75 - 120.

CliMhtM . CADISM U.S., .nc.M Job Number: 680-61207-1M

Lab Control Sample/6 **Method: 8260B6**
Lab Control Sample Duplicate Recovery Report - Batch: 680-1802586 **Preparation: 5030B6**

LCSMlab . amplM	LCSM680-1M0 25U	n alysis BatchI	680-1M0 25U	nstMment .	M) Ph
CliMht MatMM	WatM	Ph p BatchI N.		Lab FilM	pq131.d-
il utionM	1.0.	Unitsh ugILc		nitial WMghtMolume:.	5 mLc
atM n alyzUd-	09/57M2010 1010.			Final WMghtMolume:.	5 mLc
atMPh paI d-	09/57M2010 1010.				

LCSDMlab . amplM	LCSDM680-1M0 25U7M	n alysis BatchI	680-1M0 25U	nstMment .	M) Ph
CliMht MatMM	WatM	Ph p BatchI N.		Lab FilM	pq133.d-
il utionM	1.0.	Unitsh ugILc		nitial WMghtMolume:.	5 mLc
atM n alyzUd-	09/57M2010 10395			Final WMghtMolume:.	5 mLc
atMPh paI d-	09/57M2010 10395				

	% . c.M						
nalytM	LCSM	LCSDM	LimitM	Ph	Ph LimitM	LCSMQualM	LCSDMQualM
cMonM	5U		17 - 175U	3I	50.		
BI nzUnM	95U	93I	77 - 1195	2M	30.		
BIomoform.	102M	100.	2 - 133I	2M	30.		
BIomomethanM	72M	7M	12 - 1M4U		50.		
CaIbon disulfid-	103I	101M	55 - 131M	2M	30.		
CaIbon tMMachlorid-	107M	108.	71 - 135U	0.7M	30.		
ChlorobenzUnM	95	995	5 - 11M	1M	30.		
ChlorodibromomethanM	105U	104U	75 - 133I	0.4U	30.		
ChloroethanM	95	995	40 - 1M5U	3I	50.		
Chloroform.	100.	101M	2 - 120.	0.3I	30.		
ChloromethanM	105U	105U	4U- 142M	0.5U	50.		
cis-1,2-.ic hloroethI nM	100.	95	9 - 134U	4U	30.		
cis-1,3-.ic hlorop2op2nM	95	97M	7M- 12M	0 .M	30.		
ic hlorobromomethanM	100.	995	7M- 127M	0.1M	30.		
1,1-.ic hloroethanM	95	100.	74 - 127M	2M	30.		
1,2-.ic hloroethanM		7M	- 132M	1M	30.		
1,1-.ic hloroethI nM	104U	106.	2 - 141M	2M	30.		
1,2-.ic hlorop2opanM	92M	93I	73 - 124U	1M	30.		
iM thyI ethI	103I	104U	70 - 130.	1M	30.		
EthylbenzUnM	100.	101M	- 11M	1M	30.		
2-HI anonM	3I	4U	34 - 1M1M	1M	30.		
M) thylMnMChlorid-	995	995	70 - 125U	0.5U	30.		
2-ButanonM(MEK)I	95	93I	33 - 157M	3I	30.		
4-M) thyl-2-p2ntanonM(M)BK)I	1M	0.	40 - 151M	1M	30.		
t yS nM	101M	100.	2 - 122M	0.5U	30.		
1,1,2,2-TetMachloroethanM		95	9 - 1295	0.1M	30.		
TetMachloroethI nM	102M	101M	7M- 12M	0 .1M	30.		
ToluenM	95U	95U	1 - 117M	0.03I	30.		
tMans-1,2-.ic hloroethI nM	102M	103I	72 - 131M	0.3I	30.		
tMans-1,3-.ic hlorop2op2nM	95	95U	73 - 12M	3I	30.		
1,1,1-TrichloroethanM	101M	995	7M- 127M	2M	30.		
1,1,2-TrichloroethanM	91M	90.	75 - 121M	1M	30.		
TrichloroethI nM	95	95	4 - 115U	0.08.	30.		

CliMhtM . CADISM U.S., .nc.M Job Number: 680-61207-1M

Lab Control Sample/6 **Method: 8260B6**
Lab Control Sample Duplicate Recovery Report - Batch: 680-1802586 **Preparation: 5030B6**

LCSMlab . ampIM	LCSM680-1M0 25U	n alysis BatchI	680-1M0 25U	nstMment .	M) Ph
CliMht MatMM	WatM	Ph p BatchI N.		Lab FilM	pq131.d-
il utionM	1.0.	UnitshugILc		nitial WMghtMVolume:.	5 mLc
atM n alyzUd-	09/57M2010 1010.			Final WMghtMVolume:.	5 mLc
atMPh pal d-	09/57M2010 1010.				

LCSDMlab . ampIM	LCSDM680-1M0 25U7M	n alysis BatchI	680-1M0 25U	nstMment .	M) Ph
CliMht MatMM	WatM	Ph p BatchI N.		Lab FilM	pq133.d-
il utionM	1.0.	UnitshugILc		nitial WMghtMVolume:.	5 mLc
atM n alyzUd-	09/57M2010 10395			Final WMghtMVolume:.	5 mLc
atMPh pal d-	09/57M2010 10395				

	% . c.M					
nalytM	LCSM	LCSDM	LimitM	Ph	Ph LimitM	LCSMQualM LCSDMQualM
Vinyl chlorid-	11M	114U	59 - 144U	2M	50.	
XylMnMs, TotalM	106.	106.	4 - 11M	0 .1M	30.	

urrogatM	LCSM% . cM	LCSDM% . cM	ccMptancMLimitsh
4-BIomofluorobenzUnM	95	95	75 - 120.
i bromofluoromethanM	95	95	75 - 121M
TolUenMd- (I urr)I	94U	94U	75 - 120.

Method Blank - Batch: 680-1800016

Method: 6010C6
Preparation: 3030C6

Lab . ampIM	MB 680-1M000 1M2-.	n alysis BatchI	680-1M0 424U	nstMment .	CPh
CliMnt MatMM	WatM	Ph p BatchI	680-1M000 1M	Lab FilM	091910.chI
il utionM	1.0.	Unitsh	ugILc	nitial WMghtM	Volume:. 50 mLc
atM n alyzUd-	09/20.2010 01595			Final WMghtM	Volume:. 50 mLc
atMPh pal d-	09/55U2010 1232M				

nalytM	sultM	QualRM	Lc
shnicM	20.	UM	20.
ChIomium.	10.	UM	10.
Copp2	20.	UM	20.
Lcad-	10.	UM	10.
ZincM	100.	UM	100.

Lab Control Sample - Batch: 680-1800016

Method: 6010C6
Preparation: 3030C6

Lab . ampIM	LCSM680-1M000 1M3-.	n alysis BatchI	680-1M0 424U	nstMment .	CPh
CliMnt MatMM	WatM	Ph p BatchI	680-1M000 1M	Lab FilM	091910.chI
il utionM	1.0.	Unitsh	ugILc	nitial WMghtM	Volume:. 50 mLc
atM n alyzUd-	09/20.2010 0204U			Final WMghtM	Volume:. 50 mLc
atMPh pal d-	09/55U2010 1232M				

nalytM	pikU. mountM	sultM	% . c.M	LimitM	QualM
shnicM	2000.	2110.	105U	75 - 125U	
ChIomium.	200.	211M	106.	75 - 125U	
Copp2	250.	254U	101M	75 - 125U	
Lcad-	500.	534U	107M	75 - 125U	
ZincM	500.	54U	110.	75 - 125U	

CliMntM . CADISM U.S., .nc.M Job Number: 680-61207-1M

Matrix Spike/6
Matrix Spike Duplicate Recovery Report - Batch: 680-1800016

Method: 6010C6
Preparation: 3030C6

M) Lab . ampIM	0-6. 1207-1M	n alysis BatchI 680-1M0 424U	nstMment . CPh
CliMnt MatMM	WatM	Ph p BatchI 680-1M000 1M	Lab FilM 091910.chI
il utionM	1.0.		nitial WMghtMVolume:. 50 mLc
atM n alyzUd-	09/20.2010 0225U		Final WMghtMVolume:. 50 mLc
atMPh paI d-	09/15U2010 1232M		

M) Lab . ampIM	0-6. 1207-1M	n alysis BatchI 680-1M0 424U	nstMment . CPh
CliMnt MatMM	WatM	Ph p BatchI 680-1M000 1M	Lab FilM 091910.chI
il utionM	1.0.		nitial WMghtMVolume:. 50 mLc
atM n alyzUd-	09/20.2010 0230.		Final WMghtMVolume:. 50 mLc
atMPh paI d-	09/15U2010 1232M		

	% . c.M						
nalytM	M)	M)	LimitM	Ph	Ph LimitM	M) QualM	M) QualM
shnicM	104U	106.	75 - 125U	2M	20.		
ChIomium.	103I	105U	75 - 125U	2M	20.		
Copp2	101M	103I	75 - 125U	2M	20.		
Lcad-	103I	105U	75 - 125U	2M	20.		
ZincM	108.	1095	75 - 125U	1M	20.		

Serial Number 031108

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: UNC - Airport Rd.	PROJECT NO.: NC000239.0018.0001	PROJECT LOCATION (STATE): NC	
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX	
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com		
CLIENT ADDRESS: 801 Corporate Center Dr. Raleigh, NC 27607			
COMPANY CONTRACTING THIS WORK (if applicable)			

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260)	Metals (6010)*	NUMBER OF CONTAINERS SUBMITTED	REMARKS
							HCL	HNO3 PRESERVATIVE		
9/12/10	1730	Effluent	X				3	1		

Page 14 of 15

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE) David Stanley	DATE 9/13/10	TIME 0900	RELINQUISHED BY: (SIGNATURE)	DATE / TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE / TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
M. Wilson	9/14/10	09:07	YES ○ NO ○	680-6207		0.2

TAL8240-680 (1207)

Login SamNle ReceiNt CheckTListN

Client: ARCADIS U.S., Inc.U

Job Number: 680-61207-1U

Login Number: N1207L

st Source: TestAmerica Sa vannah

Creator: Kicklighter, Marilyn

ist Number: 1L

QuestionL	/ F/ NAL	CommentL
RUdioUctivity either w) s not meUsured or, if meUsured, is Ut or below U bUckgroundc	NUAU	
The cooler's custody seU , if present, is intUct.U	TrueU	
The cooler or sI mp es do not UppeUr to haUe been compromised or U tUmpered with.U	TrueU	
SUmp es were received on ice.U	TrueU	
Cooler TemperUture is UcceptUble.U	TrueU	
Cooler TemperUture is recorded.U	TrueU	
COC is present.U	TrueU	
COC is filled out in ink Und legible.U	TrueU	
COC is filled out with U pertinent informUtion.U	TrueU	
Is the FieldU SUmp er's nUme present on COC?U	NUAU	
There Ure no discrep ncies between the sI mp e IDs on the contUiners Und U the COC.U	TrueU	
SUmp es Ure received within HoldUing Time.U	TrueU	
SUmp e contUiners haUe legible lUbelsU	TrueU	
ContUiners Ure not broken or leUking.U	TrueU	
SUmp e collection dcteUdimes Ure provided.U	TrueU	
AppropriUte sI mp e contUiners Ure used.U	TrueU	
SUmp e bottles Ure comp etelyUfilled.U	TrueU	
SUmp e PreservStion Verifiedc	TrueU	
There is sufficient vol. for U requested UnUyses, incl. Uny requested U MSUMSDsI	TrueU	
VOA sI mp e viUs do not haUe heUdsp ce or bubble is <6mm (1U4") in U diUmeter.U	TrueU	
If necessI ry, stUff haUe been informed of Uny short holdU time or quick TAT U needsI	TrueU	
MultiphaUsic sI mp es Ure not present.U	NUAU	
SUmp es do not require sp itting or compositing.U	NUAU	

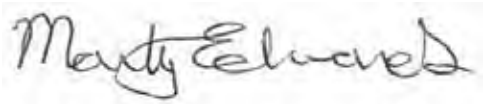
ANALYTICAL REPORT

Job Number: 400-50360-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
9/17/2010 9:01 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
09/17/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250509), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-09-1), Virginia (00008), Washington (C915), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

CommeD:
No additional co. n tS. 2

ipt D
All sa2p les we2S rScS vkd in good condition within tS pk raturS rS uirS n tS.S

Metals D
Mkthod 1631E: Thk2 atrix sp2i2 / 2 atrix sp2i2 d uplicatS (MS/MSD) rScovkries for batch 400-116788\ 400-116818 we2S outSde control 2 li2 itS. Thkass2ociatSd la boratory control sa2p les (LCS\LCSD) rScovkries 2 t accSptancS critSria. Data was flaggkd and rSportSd as is2S

No othkr analytical or q2ality iss2U we2rSn otSd .S

METHOD SUMMARY:

Clipntp. CADIS U.S., .nc.p Job Number: 400-5C360-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix:D Water:			
Mp cury, Low Lpvpl (CVAFS)p	TAL PEN.	EPAp1631Ep	
P papation, Mp cury, Low Lpvplp	TAL PEN.		EPAp1631Ep

Lab References:D

TAL PEN = TpstApnerica Ppnsacolap

Method References:D

EPAp= US Envipnmental Ppp. ction .gp ncyp

METHOD / ANAL1ST SUMMARD

Client: ARCADIS U.S., Inc.U

Job Number: 400-50360-1b

MethN	AnalystM	Analyst ID:
EPA 1631Eb	Jones, Randyb	Jb

SAMPLD SUMMARY2

Client: ARCADIS U.S., Inc.b

Job Number: 400-50360-1b

Lab Sample I2	Cll2e6 Sample I2	Cll2e6 Ma:rlx2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Re6e6vedb
400-50360-1R	LUENTR	WaterR	09/1b/U010 1730R	09/14/2010 0908R

SAMPL : S L SD

Client: ARCADIS U.S., Inc. Job Number: 400-50360-1

Client Sample ID: EFFLUENT

Lab Sample ID: 400-50360-1 Date Sampled: 09/12/2010 1730
Client Matrix: Water Date Received: 09/14/2010 0908

1631E Mercury, Low Level (CVAFS)

Method:	1631E	Analysis Batch:	400-116818	Instrument ID:	HYDRA
Preparation:	1631E	Prep Batch:	400-116788	Lab File ID:	091610b.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	09/16/2010 1147			Final Weight/Volume:	40 mL
Date Prepared:	09/14/2010 1515				

Analyte	Result (ng/L)	Qualifier	RL
Mercury	0.74		0.50

QUALITYpC6TROLp SULTSp

Client: ARCADIS U.S., Inc. Job Number: 400-50360-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 400-116788					
LCS 400-116788/2-A	Lab Control Sample	T	Water	1631E	
LCSD 400-116788/3-A	Lab Control Sample Duplicate	T	Water	1631E	
MB 400-116788/1-A	Method Blank	T	Water	1631E	
640-29855-A-1-B MS	Matrix Spike	T	Water	1631E	
640-29855-A-1-C MSD	Matrix Spike Duplicate	T	Water	1631E	
400-50360-1	EFFLUENT	T	Water	1631E	
Analysis Batch: 400-116818					
LCS 400-116788/2-A	Lab Control Sample	T	Water	1631E	400-116788
LCSD 400-116788/3-A	Lab Control Sample Duplicate	T	Water	1631E	400-116788
MB 400-116788/1-A	Method Blank	T	Water	1631E	400-116788
640-29855-A-1-B MS	Matrix Spike	T	Water	1631E	400-116788
640-29855-A-1-C MSD	Matrix Spike Duplicate	T	Water	1631E	400-116788
400-50360-1	EFFLUENT	T	Water	1631E	400-116788

Report Basis
T = Total

Clipntp . C0 S U.S., .nc.p Job Number: 400-50360-1.

Method Blank - Batch: 400-116788v **Method: 1631Ev**
Preparation: 1631Ev

LRb Spmplp. MB 400-116788(1-Ap
Clipntp Mp ip WM
il u.ionp 1.00
. np lyzUdb 09/56(2010 0952b
P p2 db 09/54/2010 1515C

np lysis Bb chb 400-1168180
P p Bb chb 400-1167880
Unitsb ngbLR

nsbumentp HY0
LRb Filp. 091610b.P N.
nitipl WMghbVolume:. 40 mLR
Finpl WMghbVolume:. 40 mLR

nplyS	sultp	Qu. lRp	LR
Mp curyS	<0.500		0.500

Lab Control Sample/v **Method: 1631Ev**
Lab Control Sample Duplicate Recovery Report - Batch: 400-116788v **Preparation: 1631Ev**

LCS LRb Spmplp. LCS 400-116788(2-Ap
Clipntp Mp ip WM
il u.ionp 1.00
. np lyzUdb 09/56(2010 10000
P p2 db 09/54/2010 1515C

np lysis Bb chb 400-1168180
P p Bb chb 400-1167880
Unitsb ngbLR

nsbumentp HY0
LRb Filp. 091610b.P N.
nitipl WMghbVolume:. 40 mLR
Finpl WMghbVolume:. 40 mLR

LCSDpLRb Spmplp. LCSDp400-116788(3-Ap
Clipntp Mp ip WM
il u.ionp 1.00
. np lyzUdb 09/56(2010 10080
P p2 db 09/54/2010 1515C

np lysis Bb chb 400-1168180
P p Bb chb 400-1167880
Unitsb ngbLR

nsbumentp HY0
LRb Filp. 091610b.P N.
nitipl WMghbVolume:. 40 mLR
Finpl WMghbVolume:. 40 mLR

	% . c.p						
nplyS	LCSp	LCSDp	Limitp	P	P Limitp	LCS Qu. lp	LCSDpQu. lp
Mp curyS	101.	1030	79 - 121.	2b	200		

Clipntp . C0 S U.S., .nc.p Job Number: 400-50360-1.

Matrix Spike/v **Method: 1631Ev**
Matrix Spike Duplicate Recovery Report - Batch: 400-116788v **Preparation: 1631Ev**

MS LRb Spmplp.	640-29855-A-1-B MSp	np lysis Bb chb 400-1168180	nsbumentp HY0
ClipntpMp ip	WM	P p Bb chb 400-1167880	LRb Filp. 091610b.P N.
il u.ionp	1.00		nitipl WMghbVolume:. 40 mLR
. np lyzUdb	09/15/2010 10345		Finpl WMghbVolume:. 40 mLR
P p2 db	09/14/2010 1515C		

MSDp1LRb Spmplp.	640-29855-A-1-C MSDp	np lysis Bb chb 400-1168180	nsbumentp HY0
ClipntpMp ip	WM	P p Bb chb 400-1167880	LRb Filp. 091610b.P N.
il u.ionp	1.00		nitipl WMghbVolume:. 40 mLR
. np lyzUdb	09/15/2010 1042b		Finpl WMghbVolume:. 40 mLR
P p2 db	09/14/2010 1515C		

	% . c.p						
nplyS	MSp	MSDp	Limitp	P	P Limitp	MS Qu. lp	MSDpQu. lp
Mp curyS	300	22b	71 - 125C	100	245	Fb	Fb

DATA RhPORT:ND D ALIFa RSh

lient: ARCAD IS U.S., Rnc.R

JRb Number: 40 -50360-10

Lab Sectionp	u alifierD	Descriptionp

etalsb

S or 0 SD e0ceedsdthe control limitsb

SERIAL NUMBER: 050144

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:

BOTTLE ORDER NO.:

ORDER - LOG-IN NO.: C 410250360

CLIENT: ARCADIS

ADDRESS: 801 Corporate Center Dr.

PAGE: 1 OF: 1

PROJECT NAME: UNC- Airport Rd.

PROJECT NO.: NC000239.0018.00001

CLIENT PROJECT MANAGER: Alan Pinnix

PROJECT LOC. (STATE): NC

SAMPLED BY: Dave Twamley

CONTRACT / P.O. NO.:

CLIENT PHONE: 919-854-1282

CLIENT E-MAIL OR FAX: apinnix@arcadis-us.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☒ NORMAL - 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
☐ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION
☒ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

LAB USE ONLY - SAMPLE NUMBER

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: Mercury (1631E)	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
9/12/10	1730	Effluent	X										X				3	

Page 13 of 14

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
J.O EMPTY CONTAINERS	6/24/10	1115	David Twamley	9/13/10	0900			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	09/14/10	9:08	Δ YES Δ NO		1.9°C

TAL-8251 (1207)

ogin SamLle ReceiLt Check ListL

lient: ARCAD IS U.S., Rnc.R

JRb Number: 40 -50360-10

ogin Number: 503606

List Source: TestAmerica Pensacola/

Creator: Chea, Vanda/

List Number: 1/

QuestibD	/1F/1NA1	CommentL
R0dio0ctivityb either 0rpsI not me0suredcr , Rfbrme0sured, RsI t or below0rp ckgroundc	N0A0	
The cooler'sIcustod0ybse0l, Rfb present, RsIint0ct.R	N0A0	
The cooler or 0l mplesIdcnot 0 ppe0r to h0ve been compromisedcr 0 t0mperedcwith.R	True0	
S0mplesIwere receivedcn ice .R	True0	
ler 0 Temper0ture isI ccept0 le .R	True0	1.9°
ler 0 Temper0ture isIrecorded.R	True0	
O4i sIpresent.R	True0	
O4i sIfilledcut in in kUnddegible.R	True0	
O4i sIfilledcut 0withb ll p0rtinent infbrm0 tion.R	True0	
IsIthe FieldcS0mpler'sIn0me p0resent on CO04 ?p	True0	
There 0re no d0iscrep nciesI et ween the 0l mple 0DsI n t he cont0inersI ndc the CO04 .R	True0	
S0mplesI re receivedcwithin H0ld dingUTime.R	True0	
S0mple cont0inersIhab e legible l0 el s.R	True0	
nt0 inersI re not bro0en or le0king.R	True0	
S0mple collection d0te0timesI re p0ro0ided.R	True0	
Appro0pri0te 0l mple cont0inersI re used.R	True0	
S0mple bottlesI re completelyfilled.R	True0	
S0mple P reservSt ion V erifiedc	True0	
There isIsufficient 0S .Rfbr 0 ll requestedc n0lyses, Rncl.R nyb requestedc MS0MSDsI	True0	
VOA 0l mple 0i0IsIdcnot 0h0ve he0dsp ce or bubble isI<6mm (104") in 0 di0meter.R	True0	
Ifbnecessl ry, RstaffhaIve been infbrme dc fb nybshbrt 0nd dtime or 0quickUTATp needsI	True0	
Multiphas0ic 0l mplesI re not p0resent.R	True0	
S0mplesIdcnot re quire 0splittingUr com p siting.R	True0	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-61805-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
10/22/2010 12:28 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
10/22/2010

cc: Mr. Adam Tripp

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Co/mmC
No additional co. n tS. 2

cLi pt D
All sa2p les we2S rScS vkd in good condition within tS pk raturS rS uirS n tS.S

GC/MS VOA M
No analytical or q2ality iss20 we2rSn otS.l .S

Metals M
No analytical or q2ality iss20 we2rSn otS.l .S

OA Prep M
No analytical or q2ality iss20 we2rSn otS.l .S

METHOD SUMMARY:

Cli) . CADIS U.S., Inc.) Job Number: 680-61M 5-1M

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW, 4U8.2,0 BM	
Purge and Trap	TAL SAV		SW, 4U 5030BM
Metals (ICP)	TAL SAV	SW, 4U60 10C)	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW, 4U 3005M

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

SW, 4U = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 19b . and Its Updates.)

METHOD / ANAL1ST SUMMARM

lient: ARCAD IS U.S., Rnc.R JR Number: 0680-61805-1U

MethodM	AnalystM	Analyst ID:
SW846U8260BN	Be0rden, RRobert0	RBN
SW846U6010U	Bl0nd, RBri0n0	BNBN

SAMPLM SU MA RY2

lient: ARCAD IS U.S., Rnc.R JR Number: 0680-61805-1U

Lab Sample I2	Clv4v Sample I2	Clv4v : a: x2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Revewedb
680-61805-1U	EFFLUENT,	Water0	10/01/2010U1030	t0/02/2010U1010U

lient: ARCAD IS U.S., Rnc.R JR Number: 0680-61805-1U

Clientv Sample/ID:d **EFFLUENTa**

S0 mple 0D:0 680-61805-1U D0te S0mpled: 0 0/01/2010U1030U
lient 0Mptri0:0 Wnter0 D0te Received: 0 0/02/2010U1010U

8260B Volatile Organic Compounds (GC/MS)T

MethM d:0	8260Bc	An0lysisp Bctch: 0	680-182671U	Instrument 0D:0	MSO2c
Prep4r0tion:0	5030Bc			File 0D:0	0440.dN
Dilution:0	1.0U			Initi0l 0Weight/VMume:0	5Mm0
D0te An0lyzed:0	10/11/2010U1612c			Fin0l 0Weight/VMume:0	5Mm0
D0te 0Prep4red:0	10/11/2010U1612c				

An0lyte0	Result (ug/c)U	Qu0lifier0	R0
Acetone0	25M	U0	25M
Benzene0	1.0U	U0	1.0U
Bromo0rm0	1.0U	U0	1.0U
BromomethM ne0	1.0U	U0	1.0U
rbon 0isulfide0	2.0U	U0	2.0U
rbon tetr0chloride0	1.0U	U0	1.0U
hlorobenzene0	1.0U	U0	1.0U
hloro0ibromomethM ne0	1.0U	U0	1.0U
hloroethM ne0	1.0U	U0	1.0U
hloro0rm0	1.0U	U0	1.0U
hloromethM ne0	1.0U	U0	1.0U
cis-1,2-Dichloroethene0	1.0U	U0	1.0U
cis-1,3-Dichloro0ro0ene0	1.0U	U0	1.0U
DichlorobromomethM ne0	1.0U	U0	1.0U
1,1-DichloroethM ne0	1.0U	U0	1.0U
1,2-DichloroethM ne0	1.0U	U0	1.0U
1,1-Dichloroethene0	1.0U	U0	1.0U
1,2-Dichloro0ro04ne0	1.0U	U0	1.0U
Diethyl ether0	10U	U0	10U
Ethylbenzene0	1.0U	U0	1.0U
2-He0 none0	10U	U0	10U
Methylene C0loride0	5.0U	U0	5.0U
2-But0none (MEK)U	10U	U0	10U
4-Methyl-2-pent0none (MIBK)U	10U	U0	10U
Styrene0	1.0U	U0	1.0U
1,1,2,2-Tetr0chloroethM ne0	1.0U	U0	1.0U
Tetr0chloroethene0	1.0U	U0	1.0U
T.luene0	1.0U	U0	1.0U
tr0ns-1,2-Dichloroethene0	1.0U	U0	1.0U
tr0ns-1,3-Dichloro0ro0ene0	1.0U	U0	1.0U
1,1,1-TrichloroethM ne0	1.0U	U0	1.0U
1,1,2-TrichloroethM ne0	1.0U	U0	1.0U
Trichloroethene0	1.0U	U0	1.0U
Vinyl chloride0	1.0U	U0	1.0U
Xylenes,R.t0 l0	2.0U	U0	2.0U

Surrog) te0	%Rec0	Qu0lifier0	Accept0nce 0imitsp
4-Bromo0uorobenzene0	98U		75M-120U
Dibromo0uoromethM ne0	98U		75M-121U
T.luene -d8U(Surr)	108U		75M-120U

lient: ARCAD IS U.S., Rnc.R JR Number: 0680-61805-1U

Client Sample ID:T **EFFLUENT**

S0 mple 0D:0 680-61805-1U D0te S0mpled: 0 0/01/2010U1030U
lient 0Mptri0:0 Wnter0 D0te Received: 0 0/02/2010U1010U

6010C Metals (ICP)- l Recoverab:eT

MethMd:0	6010C	An lysisp Bctch: 0	680-183127 0	Instrument 0D:0	IRPD0
Prep4r0tion:0	3005A0	Prep4 Bctch: 0	680-182769 0	File 0D:0	1015101039.chr0
Dilution:0	1.0U			Initi0l 0Weight/VNlume:0	50U m0
D0te An0lyzed:0	10/15/2010U2322c			Fin0l 0Weight/VNlume:0	50U m0
D0te P4prep4red:0	10/13/2010U0953 4				

An0lyte0	Result 0ug/c)U	Qu0lifier0	R0
Arsenic0	20U	U0	20U
hromium0	10U	U0	10U
pper0	20	U0	20U
e dN	10	U0	10U
Zinc0	20	U0	20U

DATA RhPORT:NM M ALIFa RSh

lient: ARCAD IS U.S., Rnc.R JR Number: 0680-61805-1U

Lab Sectionp	u alifierM	Descriptionp
G1 /MS 0VOA0		
	U0	IndicatesIthe 0nalyte 0wasIanalyzedIf1r but not 0detected.R
MetalsI		
	U0	IndicatesIthe 0nalyte 0wasIanalyzedIf1r but not 0detected.R

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1M0 5-1M

Mevhod Bv nk - Bv ch: 680-1826716

Mevhod: 8260Bv
Prep6rv ion: 5030Bv

L) b S) mpl4 ID) MB 680-1M2b71/2b
Cli) Mc ixc W,
i lu.io. 1.0.
. lyzBdN 10/11/2010 1155M
Pc pM dN 10/11/2010 1155M

lysis BU ch, 680-1M2b71M
Pc p BU ch, N/b
Units:. ug/L)

Ins. ume. ID) MSO2b
L) b Fil4 ID) oq294.dN
Initi) l W, igh,/Volume:. 5 mL)
Fin) l W, igh,/Volume:. 5 mL)

lyb	su l4	Qu. l4	L)
c) o.	25M	U)	25M
BU zB	1.0.	U)	1.0.
Blobmoform.	1.0.	U)	1.0.
Blobmome.h,	1.0.	U)	1.0.
C) bo. disulfidN	2.0.	U)	2.0.
C) bo. . chloridN	1.0.	U)	1.0.
Chlorobe. zB	1.0.	U)	1.0.
Chlorodibromome.h,	1.0.	U)	1.0.
Chloroe.h,	1.0.	U)	1.0.
Chloroform.	1.0.	U)	1.0.
Chlorome.h,	1.0.	U)	1.0.
cis-1,2-.ic hloroe.h,	1.0.	U)	1.0.
cis-1,3-.ic hloropMdpM	1.0.	U)	1.0.
ic hlorobromome.h,	1.0.	U)	1.0.
1,1-.ic hloroe.h,	1.0.	U)	1.0.
1,2-.ic hloroe.h,	1.0.	U)	1.0.
1,1-.ic hloroe.h,	1.0.	U)	1.0.
1,2-.ic hloropMdpM	1.0.	U)	1.0.
i) hyl e.h,	10.	U)	10.
E.hylbe. zB	1.0.	U)	1.0.
2-Hcxc o.	10.	U)	10.
Mc hyl4 ChloridN	5.0.	U)	5.0.
2-Bu. o. (MEK)0	10.	U)	10.
4-Mc hyl-2-pM o. (MIBK)0	10.	U)	10.
Styb	1.0.	U)	1.0.
1,1,2,2-T0 chloroe.h,	1.0.	U)	1.0.
T0 chloroe.h,	1.0.	U)	1.0.
Tolue.	1.0.	U)	1.0.
s-1,2-.ic hloroe.h,	1.0.	U)	1.0.
s-1,3-.ic hloropMdpM	1.0.	U)	1.0.
1,1,1-T0chloroe.h,	1.0.	U)	1.0.
1,1,2-T0chloroe.h,	1.0.	U)	1.0.
T0chloroe.h,	1.0.	U)	1.0.
Vinyl chloridN	1.0.	U)	1.0.
Xyl4 s , To. l4	2.0.	U)	2.0.

Surrogc	% . c)	cc) pM c) Limits.
4-Blobmofluorobe. zB	100.	75 - 120.
i bromofluorome.h,	100.	75 - 121M
Tolue. - dN (Surr)0	104)	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1M0 5-1M

LMbMConvrovSMmpe/M **Mevhod: 8260Bv**
LMbMConvrovSMmpe D upGcv e Recovery Reporv - Bv ch: 680-1826716 **Prep6rv ion: 5030Bv**

LCS L) b S) mpl4 ID) LCS 680-1M2b71/23) lysis BU ch, 680-1M2b71M In$. ume. ID) MSO2b
Cli) Mc ixc W, Pc p BU ch, N/b L) b Fil4 ID) oq2b .dN
i lu.io. 1.0. Units:. ug/L) Initi) l W, igh,/Volume:. 5 mL)
. lyzBdN 10/11/2010 1001M Fin) l W, igh,/Volume:. 5 mL)
Pc pM dN 10/11/2010 1001M

LCSD)L) b S) mpl4 ID) LCSD)680-1M2b71/24) lysis BU ch, 680-1M2b71M In$. ume. ID) MSO2b
Cli) Mc ixc W, Pc p BU ch, N/b L) b Fil4 ID) oq2b .dN
i lu.io. 1.0. Units:. ug/L) Initi) l W, igh,/Volume:. 5 mL)
. lyzBdN 10/11/2010 1030. Fin) l W, igh,/Volume:. 5 mL)
Pc pM dN 10/11/2010 1030.

	% . c.)						
lyb	LCS)	LCSD)	Limit)	Pc	Pc Limit)	LCS Qu. l4	LCSD)Qu. l4
c) o.	93)	9c	17 - 175M	5M	50.		
BU zB	92b	95M	77 - 119c	3)	30.		
Blomoform.	94)	94)	2 - 133)	0.	30.		
Blomome.h,	1M7c	1M4)	12 - 1M4)	2b	50.		
C) bo. disulfidN	91M	95M	55 - 131M	5M	30.		
C) bo. . chloridN	93)	9c	71 - 135M	3)	30.		
Chlorobe. zB	9c	9c	5 - 11M	2b	30.		
Chlorodibromome.h,	109c	109c	75 - 133)	0.	30.		
Chloroe.h,	90.	105M	40 - 1M5M	15M	50.		
Chloroform.	9c	100.	2 - 120.	4)	30.		
Chlorome.h,	11M	121M	4) - 142b	5M	50.		
cis-1,2-.ic hloroe.h,	9c	101M	9 - 134)	4)	30.		
cis-1,3-.ic hloropMdpM	103)	106.	7c- 12b	3)	30.		
ic hlorobromome.h,	100.	100.	7c- 127c	0.	30.		
1,1-.ic hloroe.h,	92b	95M	74 - 127c	4)	30.		
1,2-.ic hloroe.h,	94)	9c	- 132b	2b	30.		
1,1-.ic hloroe.h,	92b	9c	2 - 141M	5M	30.		
1,2-.ic hloropMdpM	93)	95M	73 - 124)	3)	30.		
i) hyl e.h,	7c	90.	70 - 130.	2b	30.		
E.hylbe. zB	100.	102b	- 11M	1M	30.		
2-Hcxc o.	106.	107c	34 - 1M1M	1M	30.		
Mc hyl4 ChloridN	94)	9c	70 - 125M	2b	30.		
2-Bu. o. (MEK)0	97c	97c	33 - 157c	0.	30.		
4-Mc hyl-2-pM o. (MIBK)0	103)	105M	40 - 151M	1M	30.		
Styb	7c	7c	2 - 122b	0.	30.		
1,1,2,2-T0 chloroe.h,	100.	9c	9 - 129c	2b	30.		
T0 chloroe.h,	9c	100.	7c- 12b	2b	30.		
Tolue.	97c	99c	1 - 117c	3)	30.		
s-1,2-.ic hloroe.h,	93)	9c	72 - 131M	5M	30.		
s-1,3-.ic hloropMdpM	107c	109c	73 - 12b	1M	30.		
1,1,1-T0chloroe.h,	92b	95M	7c- 127c	2b	30.		
1,1,2-T0chloroe.h,	9c	9c	75 - 121M	0.	30.		
T0chloroe.h,	95M	97c	4 - 115M	2b	30.		

Cli) . CADIS U.S., Inc.) Job Number: 680-61M0 5-1M

LMbMConvrovSMmpe/M **Mevhod: 8260Bv**
LMbMConvrovSMmpe Dupdcv e Recovery Reporv - Bv ch: 680-1826716 **Prepdrv ion: 5030Bv**

LCS L) b S) mpl4 ID) LCS 680-1M2b71/23) lysis BU ch, 680-1M2b71M In$. ume. ID) MSO2b
Cli) Mc ixc W, Pc p BU ch: N/b L) b Fil4 ID) oq2b .dN
i lu.io. 1.0. Units:. ug/L) Initi) l W, igh,/Volume:. 5 mL)
. lyzBdN 10/11/2010 1001M Fin) l W, igh,/Volume:. 5 mL)
Pc pM dN 10/11/2010 1001M

LCSD)L) b S) mpl4 ID) LCSD)680-1M2b71/24) lysis BU ch, 680-1M2b71M In$. ume. ID) MSO2b
Cli) Mc ixc W, Pc p BU ch, N/b L) b Fil4 ID) oq2b .dN
i lu.io. 1.0. Units:. ug/L) Initi) l W, igh,/Volume:. 5 mL)
. lyzBdN 10/11/2010 1030. Fin) l W, igh,/Volume:. 5 mL)
Pc pM dN 10/11/2010 1030.

	% . c.)						
lyb	LCS)	LCSD)	Limit)	Pc	Pc Limit)	LCS Qu. l4	LCSD)Qu. l4
Viny)l chloridN	9c	93)	59 - 144)	5M	50.		
Xyl4 s , To. l4	102b	103)	4 - 11M	1M	30.		

Surrogc	LCS % . c)	LCSD)% . c)	cc) pM c) Limit$.
4-Bu)omofluorobe. zB	103)	105M	75 - 120.
i bromofluorome.h,	99c	101M	75 - 121M
Tolue. - dN (Surr)0	9c	100.	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61M0 5-1M

Mevhod Bv nk - Bv ch: 680-1827L9M **Mevhod: 6010Cv**
Prep6rv ion: 9005AM
Tov RecovervbMev

L) b S) mpl4 ID) MB 680-1M27c9/14-. lysis BU ch, 680-1M3127c Ins). ume. ID) ICPc
Cli) Mc ixc W, Pc p BU ch, 680-1M27c9c L) b Fil4 ID) 1015101039.ch,
i lu.io. 1.0. Units): ug/L) Initi) l W, igh,/Volume:. 50 mL)
. lyzBdN 10/15/2010 213) Fin) l W, igh,/Volume:. 50 mL)
Pc pM dN 10/13/2010 0953)

lyb	su l4	Qu. l4	L)
se.ic)	20.	U)	20.
Ch,omium.	10.	U)	10.
CoppM	20.	U)	20.
L) dN	10.	U)	10.
Zinc)	20.	U)	20.

LMbMConvrovSMmpe - Bv ch: 680-1827L9M **Mevhod: 6010Cv**
Prep6rv ion: 9005AM
Tov RecovervbMev

L) b S) mpl4 ID) LCS 680-1M27c9/15-. lysis BU ch, 680-1M3127c Ins). ume. ID) ICPc
Cli) Mc ixc W, Pc p BU ch, 680-1M27c9c L) b Fil4 ID) 1015101039.ch,
i lu.io. 1.0. Units): ug/L) Initi) l W, igh,/Volume:. 50 mL)
. lyzBdN 10/15/2010 2141M Fin) l W, igh,/Volume:. 50 mL)
Pc pM dN 10/13/2010 0953)

lyb	Spik0. mou.	su l4	% . c.)	Limit)	Qu. l4
se.ic)	2000.	2030.	101M	75 - 125M	
Ch,omium.	200.	199c	99c	75 - 125M	
CoppM	250.	251M	100.	75 - 125M	
L) dN	500.	520.	104)	75 - 125M	
Zinc)	500.	529c	106.	75 - 125M	

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Alan Pinnix	Site Contact: Alan Pinnix	Date: 10/1/2010	COC No:
ARCADIS	Tel/Fax: 919-854-1282	Lab Contact: Kathy Smith	Carrier: Fed Ex	1 of 1 COCs
801 Corporate Center Drive, Suite 300	Analysis Turnaround Time			Job No.
Raleigh, NC 27607	Calendar (C) or Work Days (W)			
919-854-1282 Phone	TAT if different from Below			SDG No.
919-854-5448 FAX	■ 2 weeks			
Project Name: UNC Airport Road	☐ 1 week			
Site:	☐ 2 days			
P O # NC000239.0018	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (8260)	Metals (6010)*	Sample Specific Notes:
EFFLUENT	10/1/2010	10:30	GW	WTR	4		3	1	* ARSENIC, LEAD, CHROMIUM, COPPER, & ZINC ONLY

Page 13 of 14

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

2.6
630-61905

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ARCADIS	10/1/10 1500	George Klomm	TMSA	10/2/10 1010
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. JR Number: 0680-61805-1U

Login Number: 18056 **List Source: Test America Savannah**

Creator: Cunningham, Keaton

List Number: 1

Question	T/F/NA	Comment
Radioactivity either was not measured, or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler temperature is acceptable.	True	
Cooler temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA samples do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

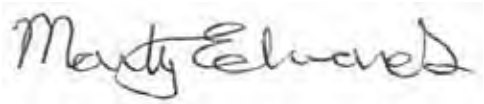
ANALYTICAL REPORT

Job Number: 400-50885-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
10/16/2010 9:29 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
10/16/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250509), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-09-1), Virginia (00008), Washington (C915), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

CoAmmeMtsM
No additional co. n tS. 2

eceipt M
All sa2p les we2S rScS vkd in good condition within tS pk raturS rS uirS n tS.S

MetalLM
Mkthod 1631E: Thk2 atrix sp2i2 / 2 atrix sp2i2 d uplicatS (MS/MSD) rScovkries for batch 400-118193 \ 400-118025 were outside cg.tr ol g limits. The assg. ated lab oratory cg.tr ol samples (LCS\LCSD) recgveries met acceptance criteria. Data was flag ed and reported as is.g

No other analytical or quality issues were ngted.g

METHOD SUMMARY:

Cli) . CA) DIS U.S., lgc .g Job Number: 400-50885-12

Description:	Lab Location:	Method:	Preparation Method:
Matrix:D Water:			
M5 cury, Lo. LhvTl (CVg FS)g	TgL PEN.	EPg 16g1Eg	
Pg pagagjo. , M5 cury, Lo. LhvTl4	TgL PEN.		EPg 16g1Eg

Lab References:D

TgL PEN = TgsR merica Pg sacolag

Method References:D

EPg = US Egvi)o. me. al Pgo. ctio. . gT c yS

TestAmerica Pensacola:

METHOD / ANAL1ST SUMMARM

lient: ARCADIS U.S.,Rnc.R JRN umber: 40 -50885-1b

MethodM	AnalystM	Analyst ID:
PA 0 31b	Jone , R ndyl	RJR

SAMPLM SU MA RY2

lient: ARCADIS U.S., Inc.R

JR N umber: 40 -50885-1b

Lab Sample I2	Cl Mv Sample I2	Cl Mv : a: x2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Revewedb
40 -50885-1b	EFFLUENT,	Water0	1 / 1/2 1b 1 3)	1 / 2/2 1b 11 8u

Test2Amev a Pevs a: ola:

SAMPL : S L SM

lient: ARCADIS U.S., Inc.R JR N umber: 40 -50885-1b

Client Sample ID:T **EFFLUENT**

S0 mple 0D:0 40 -50885-1b D0te S0mpled: 0b/c1/2c1b 1b34
lient 0Mptri0:0 Wnter0 D0te Received: 0b/c2/2c1b 11b8u

1631E Mercury, Low Level (CVAFS)D

MethM d:0	1631E-	An0lysis B- tch: 40 -1181934		Instrument 0D:0	HYDRA0
Prep4r0tion:0	1631E-	Prep4B- tch: 40 -118u250		File 0D:0	1b 71b .PRN0
Dilution:0	1.R			Initi0lg Weight/Vglume:0	40 m0
D0te An0lyzed:0	1b/c7/2c1b 1151b			Fin0lg Weight/Vglume:0	40 m0
D0te Prep4red:0	1b/04/2c1b 150				

An0lyte0	Result (ng/c)	Qu lifier0	g	R0
Mercury	<g.50			.50

QUALITY CONTROL RESULTS

lient: ARCADIS U.S., Rnc.R JRN umber: 40 -50885-1b

QC xAssociv ion SummCryv

LaT S- mpG e ID-	CvienvS- mpG e ID-	Reporv sisv	CvienvML rix-	Mevhod-	PrepC chC
Mev sv					
PrepC chC400-118025u					
CS 40 -118u25/2-A0	ntro0 lgS0mple0	TR	W. ter0	1631b	
CSD 40 -118u25/3-A0	ntro0 lgS0mple Duplic0te0	TR	W. ter0	1631b	
BM40 -118u25/1-A0	ethMdlNBlgnkM	TR	W. ter0	1631	
640-3c220-A-14-BM S0	trix*Spike0	TR	W. ter0	1631b	
640-3c220-A-14-C 0 SD0	trix*Spike Duplic0te0	TR	W. ter0	1631b	
40 -50885-1b	FF5U0NTR	TR	W. ter0	1631b	
Analysis Batchu400-118193u					
CS 40 -118u25/2-A0	ntro0 lgS0mple0	TR	W. ter0	1631b	40 -118u250
CSD 40 -118u25/3-A0	ntro0 lgS0mple Duplic0te0	TR	W. ter0	1631b	40 -118u250
BM40 -118u25/1-A0	ethMdlNBlgnkM	TR	W. ter0	1631	40 -118u250
640-3c220-A-14-BM S0	trix*Spike0	TR	W. ter0	1631b	40 -118u250
640-3c220-A-14-C 0 SD0	trix*Spike Duplic0te0	TR	W. ter0	1631b	40 -118u250
40 -50885-1b	FF5U0NTR	TR	W. ter0	1631b	40 -118u250

Report Basisu
TR=)TR0 lg

Cli) . CA) DIS U.S., Igc .g

Job Number: 400-50885-12

Method Bvank - Batch: 400-1180256

Method: 1631Ec
reparation: 1631Ec

L) b Sgmpl4 IDg	MB 400-118025/1-p	lysis B5 ch5	400-1181935
Cli) Mc ixc	W,	PU p B5 ch5	400-118025C
Dilu.io.	1.00	Ugt)s5 g/L)	
Dg . lyzBdN	10/07/2010 0935C		
Dg PU pM dN	10/04/2010 15000		

Igs5ume. IDg	HYDg		
L) b Fil4 IDg	100710b.PUN.		
Igti) l W, igh5	Volume:. 40 mL)		
Fin) l W, igh5	Volume:. 40 mL)		

lyb	sul	Qu l4	L)
Mc curyb	<0.500		0.500

LabcControl Sampœ/T
LabcControl Sampœ D/ pccate Recovery Report - Batch: 400-1180256

Method: 1631Ec
reparation: 1631Ec

LCS L) b Sgmpl4 IDg	LCS 400-118025/2-p	lysis B5 ch5	400-1181935
Cli) Mc ixc	W,	PU p B5 ch5	400-118025C
Dilu.io.	1.00	Ugt)s5 g/L)	
Dg . lyzBdN	10/07/2010 09435		
Dg PU pM dN	10/04/2010 15000		

Igs5ume. IDg	HYDg		
L) b Fil4 IDg	100710b.PUN.		
Igti) l W, igh5	Volume:. 40 mL)		
Fin) l W, igh5	Volume:. 40 mL)		

LCSD L) b Sgmpl4 IDg	LCSD 400-118025/3-p	lysis B5 ch5	400-1181935
Cli) Mc ixc	W,	PU p B5 ch5	400-118025C
Dilu.io.	1.00	Ugt)s5 g/L)	
Dg . lyzBdN	10/07/2010 09512		
Dg PU pM dN	10/04/2010 15000		

Igs5ume. IDg	HYDg		
L) b Fil4 IDg	100710b.PUN.		
Igti) l W, igh5	Volume:. 40 mL)		
Fin) l W, igh5	Volume:. 40 mL)		

	% . c.g					
lyb	LCSg	LCSDg	Limit)	PDg	PD Limit)	LCS Qu. l4	LCSD Qu. l4
Mc curyb	98g	99,	79 - 1212	12	200		

Cli) . CA) DIS U.S., Igc .g

Job Number: 400-50885-12

Matrix Spdke/T
Matrix Spdke D/ pccate Recovery Report - Batch: 400-1180256

Method: 1631Ec
reparation: 1631Ec

MS L) b Sgmpl4 IDg	640-30220-p-14-B MSg	lysis B5 ch5 400-1181935	Igs5ume. IDg HYDg
Cli) Mc ixc	W,	PU p B5 ch5 400-118025C	L) b Fil4 IDg 100710b.PUN.
Dilu.io.	1.00		Igti) l W, igh5 Volume:. 40 mL)
Dg . lyzBdN	10/07/2010 1055C		Fin) l W, igh5 Volume:. 40 mL)
Dg PU pM dN	10/05/2010 11300		
MSD L) b Sgmpl4 IDg	640-30220-p-14-C MSDg	lysis B5 ch5 400-1181935	Igs5ume. IDg HYDg
Cli) Mc ixc	W,	PU p B5 ch5 400-118025C	L) b Fil4 IDg 100710b.PUN.
Dilu.io.	1.00		Igti) l W, igh5 Volume:. 40 mL)
Dg . lyzBdN	10/07/2010 11035		Fin) l W, igh5 Volume:. 40 mL)
Dg PU pM dN	10/05/2010 11300		

	% . c.g						
lyb	MSg	MSDg	Limit)	PDg	PD Limit)	MS Qu. l4	MSD Qu. l4
Mc curyb	245	200	71 - 125C	19,	245	F5	F5

DATA RhPORT:NMM ALIFa RSh

lient: ARCADIS U.S., Rnc.R JRN umber: 40 -50885-1b

Lab Sectionp	u alifierM	Descriptionp
et0lg		
	Fb	S or 0 SD exceedsdhe contro0limit0

400-50885

Pensacola
3355 McLemore Drive

Pensacola, FL 32514
phone 850.474.1001 fax 850.474.4789

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Alan Pinnix	Site Contact: Alan Pinnix	Date: 10/1/2010	COC No:
ARCADIS	Tel/Fax: 919-854-1282	Lab Contact: Kathy Smith	Carrier: Fed Ex	1 of 1 COCs
801 Corporate Center Drive, Suite 300	Analysis Turnaround Time			Job No.
Raleigh, NC 27607	Calendar (C) or Work Days (W)			
919-854-1282 Phone	TAT if different from Below			
919-854-5448 FAX	■ 2 weeks			SDG No.
Project Name: UNC Airport Road	☐ 1 week			
Site:	☐ 2 days			
P O # NC000239.0018	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Mercury (1631E)	Sample Specific Notes:
EFFLUENT	10/1/2010	10:30	GW	WTR	3		3	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For _____ Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	ARCADIS	10/1/10 1500	[signature]		10/2/10 11:08
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

3.4°C

Log in Sam/ le ReTei/ t CheTk List/

lient: ARCADIS U.S., Rnc.R JR N umber: 40 -50885-1b

Log in NumbeT: 50885T **List Source: / estAmeTica Pensacola/**

CLeator: H1 , KLma/

List NumbeT: /

Q1estion/	/ F/1NAM	CLmm ent/
Radio0activityIeit0er 0was0not measuredcr ,Rfg measured,Rs0at or belgwC ackgro0ndc	N/A0	
Tce coo0er's0custo0yIseal,Rfg resent,Rs0ntact.R	N/A0	
Tce coo0er or 0sam0les0c not 0ah ear to 0ave been com0romisedcr 0 tam0eredcwit0.R	True0	
Sam0les0were receivedcn ice .R	True0	
ler 0Tem0erature is0acce0tahle.R	True0	
ler 0Tem0erature is0recorded.R	True0	3.4°,
OUi sC resent.R	True0	
OUi s0filledc ut in inkuanddegib0e.R	True0	
OUi s0filledc ut 0wit0 allg ertinent infgrm ation.R	True0	
Is0Oe 0fieldc Sam0ler's0ame 0resent on C0OU?h	True0	
Tcere 0re no 0iscre0anciesCet ween t0e 0sam0le 0DsCn t0 e containers0andc t e C0O .R	True0	
Sam0les0are receivedcwit0in 0l) lding.Time.R	True0	Sam0le 0FFLUENTcwas0eceivedcn 0ah Saturday,Randcwas0not 0reservedcwit0in 48urs.R
Sam0le containersC ave 0egib0e 0ahe ls.R	True0	
nt ainers0are not bro0en or 0eaking.R	True0	
Sam0le co0ection 0ate/times0are 0ro0ided.R	True0	
A0 ro0riate 0sam0le containers0are 0sed.R	True0	
Sam0le bottles0are com0letelyIfilled.R	True0	
Sam0le 0reservation 0verifiedc	True0	
Tcere is0ufficient 0QC.Rfg 0allgrequestedcanalyses,Rncl.Rany Irequestedc MS/MSDsC	True0	
VOA 0sam0le 0ialsc0c not 0 ave 0eadsCace or b0g le is<6mm (1/4") in 0 diameter.R	True0	
Ifgnecessary,Rstaffg ave been infgrme dc fganyIshC t 0 ldd time or 0quicku TATc needsC	True0	
Multi0 asic 0sam0les0are not 0resent.R	True0	
Sam0les0c not re quire 0Citting. r com0 siting.R	True0	

ANALYTICAL REPORT

Job Number: 680-62921-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
11/16/2010 3:50 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
11/16/2010

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

METHOD SUMMARY:

Clipntp. C0 S U.S., .nc.p Job Number: 680-62921-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A

Lab References:

TAL SAV = TestAmerica Savannah.

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANAL1ST SUMMARM

lient: ARCADIS U.S.,Rnc.R JRN umber: 680-6U9U1-10

MethodM	AnalystM	Analyst ID:
SW846U8U60Bc	Bearden,RRobert0	RBc
SW846U6010U	Blgn d,RBrian0	Bc Bc

SAMPLM SU MA RY2

lient: ARCADIS U.S., Inc.R JR N umber: 680-6U9U1-10

Lab Sample I2	Cl Mu Sample I2	Cl Mu : a: x2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Reueuvedb
680-62921-1U	uentU	WaterU	11/05/2010 1600U	11/06/2010 1034U

Test2Ameu a Sava: ah2

Client: ARCADIS U.S., Inc. Job Number: 680-62921-1

Client Sample ID: Effluent

Lab Sample ID: 680-62921-1 Date Sampled: 11/05/2010 1600
Client Matrix: Water Date Received: 11/06/2010 1034

8260B Volatile Organic Compounds (GC/MS):

Method:	8260B	Analysis Batch: 680-186146	Instrument ID: MSO2
Preparation:	5030B		Lab File ID: o1598.db
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	11/14/2010 1414		Final Weight/Volume: 5 mL
Date Prepared:	11/14/2010 1414		

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Diethyl ether	49		10
Ethylbenzene	1.0	U	1.0
2-Hexanone	10	U	10
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Styrene	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	86		75 - 120
Dibromofluoromethane	99		75 - 121
Toluene-d8 (Surr)	100		75 - 120

Client Sample ID: Effluent

Lab Sample ID: 680-62921-1 Date Sampled: 11/05/2010 1600
Client Matrix: Water Date Received: 11/06/2010 1034

6010C Metals (ICP) - Total Recoverable

Method: 6010C Analysis Batch: 680-185840 Instrument ID: ICP
Preparation: 3005A Prep Batch: 680-185495 Lab File ID: 11920101610.chr
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 11/09/2010 2241 Final Weight/Volume: 50 mL
Date Prepared: 11/08/2010 1638

Analyte	Result (ug/L)	Qualifier		RL
Arsenic	20			20
Chromium	10			10
Copper	20			20
Lead	10			10
Zinc	20			20

DATA RhPORT:NM M ALIFa RSh

Client: ARCADIS U.S., Inc.U Job Number: 680-62921-1U

Lab Sectionp	u alifierM	Descriptionp
GC/MS VOAU		
		IndicateUthe ana.yte wa. ana.yzed for but not detected.U
Meta.		
		IndicateUthe ana.yte wa. ana.yzed for but not detected.U

Clipntp . C0 S U.S., .nc.p Job Number: 680-62921-1.

Method Bvank - Batch: 680-186141 **Method: 8 60Bv**
Preparation: 5030Bv

LRb Spmplp.	MB 680-18614U/12	np lysis BRchI	680-18614U	nshumentp	MSO2
ClipntpMp ip	WM	Ph p BRchI N/c		LRb Filp.	oq23F.db
il u.ionp	1.0.	Unitsph ug/LR		nitipl WMghI/Volume:.	mLR
. np lyzUdb	11/14/2010 1249C			Finpl WMghI/Volume:.	mLR
Ph p2 db	11/14/2010 1249C				

nplyS	sultp	Qu. lRp	LR
cp onp	2	Up	2
BRnzUnp	1.0.	Up	1.0.
BRomoform.	1.0.	Up	1.0.
BRomome.hI np	1.0.	Up	1.0.
Ca0bon disulfidb	2.0.	Up	2.0.
Ca0bon . chloridb	1.0.	Up	1.0.
ChlorobenzUnp	1.0.	Up	1.0.
Chlorodibromome.hI np	1.0.	Up	1.0.
Chloroe.hI np	1.0.	Up	1.0.
Chloroform.	1.0.	Up	1.0.
Chlorome.hI np	1.0.	Up	1.0.
cis-1,2-.ic hloroe.hI np	1.0.	Up	1.0.
cis-1,3-.ic hlorop2op2np	1.0.	Up	1.0.
ic hlorobromome.hI np	1.0.	Up	1.0.
1,1-.ic hloroe.hI np	1.0.	Up	1.0.
1,2-.ic hloroe.hI np	1.0.	Up	1.0.
1,1-.ic hloroe.hI np	1.0.	Up	1.0.
1,2-.ic hlorop2op2np	1.0.	Up	1.0.
ip hyl e.hI	10.	Up	10.
EthylbenzUnp	1.0.	Up	1.0.
2-HU nonp	10.	Up	10.
Mp hylpnp Chloridb	.0.	Up	.0.
2-Bu. nonp (MEK)U	10.	Up	10.
4-Mp hyl-2-p2ntpnonp (MIBK)U	10.	Up	10.
StpS np	1.0.	Up	1.0.
1,1,2,2-Te. chloroe.hI np	1.0.	Up	1.0.
Te. chloroe.hI np	1.0.	Up	1.0.
Toluenp	1.0.	Up	1.0.
ns-1,2-.ic hloroe.hI np	1.0.	Up	1.0.
ns-1,3-.ic hlorop2op2np	1.0.	Up	1.0.
1,1,1-Trichloroe.hI np	1.0.	Up	1.0.
1,1,2-Trichloroe.hI np	1.0.	Up	1.0.
Trichloroe.hI np	1.0.	Up	1.0.
Vinyl chloridb	1.0.	Up	1.0.
Xylpnps, To. lp	2.0.	Up	2.0.

SurrogI e	% cp	ccp p2 ncp Limitsph .
4-BRomofluorobenzUnp	90.	7U - 120.
i bromofluorome.hI np	97U	7U - 121.
Toluenp- db (Surr)U	99C	7U - 120.

Clipntp . C0 S U.S., .nc.p Job Number: 680-62921-1.

LabMControl 8ampGe/M **Method: 8 60Bv**
LabMControl 8ampGe DMp6cate Recovery Report - Batch: 680-186141 **Preparation: 5030Bv**

LCS LRb Spmplp.	LCS 680-18614U/9C	np lysis BRchI	680-18614U	nshumentp	MSO2
Clipnt Mp ip	WM	Ph p BRch: N/c		LRb Filp.	oq230.db
il u.ionp	1.0.	Unitsh ug/LR		nitipl WMghI/Volume:.	mLR
. np lyzUdb	11/14/2010 10.			Finpl WMghI/Volume:.	mLR
Ph p2 db	11/14/2010 10.				

LCSDpLRb Spmplp.	LCSDp680-18614U/10.	np lysis BRchI	680-18614U	nshumentp	MSO2
ClipntpMp ip	WM	Ph p BRchI N/c		LRb Filp.	oq232.db
il u.ionp	1.0.	Unitsh ug/LR		nitipl WMghI/Volume:.	mLR
. np lyzUdb	11/14/2010 1123F			Finpl WMghI/Volume:.	mLR
Ph p2 db	11/14/2010 1123F				

	% . c.p						
nplyS	LCSp	LCSDp	Limitp	Ph	Ph Limitp	LCS Qu. lp	LCSDpQu. lp
cp onp	9C	1.	17 - 17U		0.		
BRnzUnp	97U	93F	77 - 119C	4U	30.		
BRomoform.	10.	102	2 - 133F	3F	30.		
BRomome.hI np	90.	74U	12 - 184U	20.	0.		
Ca0bon disulfidb	7U	2	- 1316.		30.		
Ca0bon . chloridb	103F	97U	71 - 13F		30.		
ChlorobenzUnp	103F	103F	- 116.	0.	30.		
Chlorodibromome.hI np	108.	109C	7U - 133F	1.	30.		
Chloroe.hI np	99C	100.	40 - 16.	0.	0.		
Chloroform.	102	102	2 - 120.	1.	30.		
Chlorome.hI np	9C	9C	4U - 1 42	1.	0.		
cis-1,2-.ic hloroe.hI np	103F	9C	9 - 134U		30.		
cis-1,3-.ic hlorop2op2np	106.	103F	7U - 1 2	2	30.		
ic hlorobromome.hI np	100.	97U	7U - 1 27U	3F	30.		
1,1-.ic hloroe.hI np	99C	97U	74 - 127U	3F	30.		
1,2-.ic hloroe.hI np	102	9C	- 1 32		30.		
1,1-.ic hloroe.hI np	9C	9C	2 - 1416.		30.		
1,2-.ic hlorop2op2np	9C	94U	73 - 124U	4U	30.		
EthylbenzUnp	106.	104U	- 116.	2	30.		
2-HU nonp	103F	106.	34 - 161.	2	30.		
Mp hylpnp Chloridb	91.		70 - 12	4U	30.		
2-Bu. nonp (MEK)U	97U	93F	33 - 1. 7U	4U	30.		
4-Mp hyl-2-p2ntpnonp (MIBK)U	102	99C	40 - 1. 1.	3F	30.		
StpyS np	104U	102	2 - 122	2	30.		
1,1,2,2-Te. chloroe.hI np	99C	99C	9 - 129C	0.	30.		
Te. chloroe.hI np	108.	109C	7U - 1 2	1.	30.		
Toluenp	101.	97U	1 - 11 7U		30.		
ns-1,2-.ic hloroe.hI np	99C	94U	72 - 131.		30.		
ns-1,3-.ic hlorop2op2np	109C	10.	73 - 12	4U	30.		
1,1,1-Trichloroe.hI np	100.	9C	7U - 1 27U	4U	30.		
1,1,2-Trichloroe.hI np	9C	9C	7U - 121.	4U	30.		
Trichloroe.hI np	10.	101.	4 - 11.	4U	30.		
Vinyl chloridb	9C	93F	9 - 144U		0.		

Clipntp . C0 S U.S., .nc.p Job Number: 680-62921-1.

LabMControl 8ampGe/M **Method: 8 60Bv**
LabMControl 8ampGe DMp6cate Recovery Report - Batch: 680-186141 **Preparation: 5030Bv**

LCS LRb Spmplp.	LCS 680-18614U/9C		np lysis BRchI 680-18614U	nshumentp	MSO2
ClipntpMp ip	WM		Ph p BRchI N/c	LRb Filp.	oq230.db
il u.ionp	1.0.		Unitsh ug/LR	nitipl WMghI/Volume:.	mLR
. np lyzUdb	11/14/2010 10.			Finpl WMghI/Volume:.	mLR
Ph p2 db	11/14/2010 10.				

LCSDpLRb Spmplp.	LCSDp680-18614U/10.		np lysis BRchI 680-18614U	nshumentp	MSO2
ClipntpMp ip	WM		Ph p BRchI N/c	LRb Filp.	oq232.db
il u.ionp	1.0.		Unitsh ug/LR	nitipl WMghI/Volume:.	mLR
. np lyzUdb	11/14/2010 1123F			Finpl WMghI/Volume:.	mLR
Ph p2 db	11/14/2010 1123F				

	% . c.p					
nplyS	LCSp	LCSDp	Limitp	Ph	Ph Limitp	LCS Qu. lp	LCSDpQu. lp
Xylpnps, To. lp	10.	103F	4 - 118.	1.	30.		

Surrogl	LCS % . cp	LCSDp% . cp	ccp p2 ncp Limitsh
4-BRomofluorobenzUnp	9C	92	7U - 120.
i bromofluorome.hI np	104U	100.	7U - 121.
Toluenp- db (Surr)U	103F	97U	7U - 120.

Clipntp . C0 S U.S., .nc.p Job Number: 680-62921-1.

Method Bvank - Batch: 680-185495u

Method: 6010Cu
Preparation: 3005AM
Total RecoverabMeu

LRb Spmplp. MB 680-18. 49C/1. -.
ClipntpMp ip WM
il u.ionp 1.0.
. np lyzUdb 11/09/2010 20. 2
Ph p2 db 11/08/2010 163F

np lysis BRchI 680-18. 40.
Ph p BRchI 680-18. 49C
Unitsh ug/LR

nshumentp CPh
LRb Filp. 11920101610.chI
nitipl WMghI/Volume:. 0 mLR
Finpl WMghI/Volume:. 0 mLR

nplyS	sultp	Qu. lRp	LR
shnicp	20.	Up	20.
ChIomium.	10.	Up	10.
Copp2	20.	Up	20.
LR db	10.	Up	10.
Zincp	20.	Up	20.

LabMControl Sampe - Batch: 680-185495u

Method: 6010Cu
Preparation: 3005AM
Total RecoverabMeu

LRb Spmplp. LCS 680-18. 49C/16-.
ClipntpMp ip WM
il u.ionp 1.0.
. np lyzUdb 11/09/2010 20. 7U
Ph p2 db 11/08/2010 163F

np lysis BRchI 680-18. 40.
Ph p BRchI 680-18. 49C
Unitsh ug/LR

nshumentp CPh
LRb Filp. 11920101610.chI
nitipl WMghI/Volume:. 0 mLR
Finpl WMghI/Volume:. 0 mLR

nplyS	SpikU. mountp	sultp	% . c.p	Limitp	Qu. lp
shnicp	2000.	1890.	9C	7U - 12	
ChIomium.	200.	197U	9C	7U - 12	
Copp2	2 0.	2 3F	101.	7 - 12	
LR db	00.	479C	9C	7 - 12	
Zincp	00.	4 2	9C	7 - 12	

Serial Number 030321

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
UNC-Airport Rd.	NC000239.0018.0001	NC
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com	
CLIENT ADDRESS: 801 Corporate Center Dr., Raleigh, NC 27607		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260)	REQUIRED ANALYSIS: Hg Metals (6010)*	REMARKS
11-5-10	1600	Effluent	G	X				3	1	*Report:

HCl Hg PRESERVATIVE

Page 12 of 13

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
David Swanty	11-5-10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	11/6/10	1034	YES ○ NO ○		680-62921	Temp 0.2

TAL8240-680 (1207)

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.U

Job Number: 680-62921-1U

Login Number: 62921 / 1

List Source: TestAmerica Savannah

Creator: Daughtry, Beth

List Number: 1

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler temperature is acceptable.	True	
Cooler temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSD	True	
VOA samples do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	NA	
Samples do not require splitting or compositing.	NA	

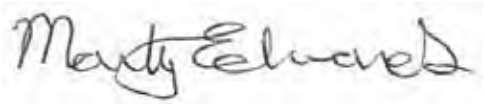
ANALYTICAL REPORT

Job Number: 400-51787-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
11/23/2010 7:42 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
11/23/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

METHOD SUMMARY:

Cli) . CADIS U.S., Inc.) Job Number: 400-51787-1)

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
M) cury, Low L) v) l (CVAFS)	TAL PEN.	EPA)1631E)	
P) pa)atio., M) cury, Low L) v) l)	TAL PEN.		EPA)1631E)

Lab References:

TAL PEN = T) stA)merica P) sac ola)

Method References:

EPA)= US Envi)o. me. al P)o. ctio. .g) cy)

METHOD / ANALcST SUMMARM

Client: ARCADIS U.S., Inc.U

Job Number: 40 -51787-1c

MethodM	AnalystM	Analyst ID:
EPA 1631Ec	Jones, Randyc	Jc

SAMPLM SU MA RY2

Client: ARCADIS U.S., Inc.c

Job Number: 400-51787-1c

Lab Sample I2	ClM4u Sample I2	ClM4u : a:rox2	a:e/Ti2ne : Sampledb	a:e/Ti2ne : Reueuvedb
400-51787-1c	LUc NTI	Waterc	11/05/2010 1600c	11/06/2010 1040c

Test2Amerc a Peus a: ola:

SAMPL : S L SM

Client: ARCADIS U.S., Inc. Job Number: 400-51787-1

Client Sample ID: EFFLUENT

Lab Sample ID: 400-51787-1 Date Sampled: 11/05/2010 1600
Client Matrix: Water Date Received: 11/06/2010 1040

1631E Mercury, Low Level (CVAFS)

Method:	1631E	Analysis Batch: 400-120331		Instrument ID:	HYDRA
Preparation:	1631E	Prep Batch: 400-120303		Lab File ID:	110910b.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	11/09/2010 1105			Final Weight/Volume:	40 mL
Date Prepared:	11/08/2010 1515				

Analyte	Result (ng/L)	Qualifier	RL
Mercury	0.68		0.50

QUALITYpCuTROLp SULTSp

Client: ARCADIS U.S., Inc. Job Number: 400-51787-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 400-120303					
LCS 400-120303/2-A	Lab Control Sample	T	Water	6010B	
LCSD 400-120303/3-A	Lab Control Sample Duplicate	T	Water	6010B	
MB 400-120303/1-A	Method Blank	T	Water	6010B	
400-37993-A-14-B	MS	T	Water	6010B	
400-37993-A-14-C	MSD	T	Water	6010B	
400-51787-1	EFFLUENT	T	Water	6010B	
Analysis Batch: 400-120331					
LCS 400-120303/2-A	Lab Control Sample	T	Water	6010B	400-120303
LCSD 400-120303/3-A	Lab Control Sample Duplicate	T	Water	6010B	400-120303
MB 400-120303/1-A	Method Blank	T	Water	6010B	400-120303
400-37993-A-14-B	MS	T	Water	6010B	400-120303
400-37993-A-14-C	MSD	T	Water	6010B	400-120303
400-51787-1	EFFLUENT	T	Water	6010B	400-120303

Report Basis
T = Total

Method Bvank - Batch: 400-120303T **Method: 1631Ey**
Preparation: 1631Ey

Lab Sampl) ID) MB 400-120303/1-A) alysis Baccnb 400-120331) Injsbume. ID) HYDRA)
Cli) Maci) Wac P p Baccnb 400-120303) Lab Fil) ID) 110910b.P N.
il u.io. 1.00 Unitsjb g/LR Initial WMghb/Volume:. 40 mLR
ac . alyzUdb 11/09/2010 0922b Finjal WMghb/Volume:. 40 mLR
ac P pac db 11/08/2010 1515C

alyS	sult)	QualR)	LR
Mp curyS	<0.500		0.500

LabyControl Sampue/y **Method: 1631Ey**
LabyControl Sampue Dypucate Recovery Report - Batch: 400-120303T **Preparation: 1631Ey**

LCS Lab Sampl) ID) LCS 400-120303/2-A) alysis Baccnb 400-120331) Injsbume. ID) HYDRA)
Cli) Maci) Wac P p Baccnb 400-120303) Lab Fil) ID) 110910b.P N.
il u.io. 1.00 Unitsjb g/LR Initial WMghb/Volume:. 40 mLR
ac . alyzUdb 11/09/2010 09300 Finjal WMghb/Volume:. 40 mLR
ac P pac db 11/08/2010 1515C

LCSD)Lab Sampl) ID) LCSD)400-120303/3-A) alysis Baccnb 400-120331) Injsbume. ID) HYDRA)
Cli) Maci) Wac P p Baccnb 400-120303) Lab Fil) ID) 110910b.P N.
il u.io. 1.00 Unitsjb g/LR Initial WMghb/Volume:. 40 mLR
ac . alyzUdb 11/09/2010 0938) Finjal WMghb/Volume:. 40 mLR
ac P pac db 11/08/2010 1515C

	% . c.)						
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
Mp curyS	102b	102b	79 - 121)	00	200		

Cli) . CADIS U.S., Inc.) Job Number: 400-51787-1)

Matrix: Spuke/y **Method: 1631Ey**
Matrix: Spuke Dypucate Recovery Report - Batch: 400-120303T **Preparation: 1631Ey**

MS Lab Sampl) ID)	660-37993-A-14-B MS)	alysis Bacchb 400-120331)	Insbume. ID) HYDRA)
Cli) Maci)	Wac	P p Bacchb 400-120303)	Lab Fil) ID) 110910b.P N.
il u.io.	1.00		Initial WMghb Volume:. 40 mLR
ac . alyzUdb	11/09/2010 10000		Finpl WMghb Volume:. 40 mLR
ac P pac db	11/08/2010 1615C		

MSD) Lab Sampl) ID)	660-37993-A-14-C MSD)	alysis Bacchb 400-120331)	Insbume. ID) HYDRA)
Cli) Maci)	Wac	P p Bacchb 400-120303)	Lab Fil) ID) 110910b.P N.
il u.io.	1.00		Initial WMghb Volume:. 40 mLR
ac . alyzUdb	11/09/2010 1008)		Finpl WMghb Volume:. 40 mLR
ac P pac db	11/08/2010 1615C		

	% . c.)						
alyS	MS)	MSD)	Limit)	P	P Limit)	MS Qual)	MSD) Qual)
Mp curyS	98)	91	71 - 125C	6)	245		

DATA RhPORT:Nc M ALIña RSh

Lab Sectionp	u alifierM	Descriptionp

SERIAL NUMBER: 050148

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO.:
BOTTLE ORDER NO.:
ORDER - LOG-IN NO.: C400-51787

CLIENT: ARCADIS
ADDRESS: 801 Corporate Center Dr., Raleigh, NC 27607
PAGE: 1 OF: 1

PROJECT NAME: UNC-Airport Rd.
PROJECT NO.: NC000239.0018.00001
CLIENT PROJECT MANAGER: Alan Pinnix
PROJECT LOC. (STATE): NC

SAMPLED BY: Dave Twamley
CONTRACT / P.O. NO.:
CLIENT PHONE: 919-854-1282
CLIENT E-MAIL OR FAX: apinnix@arcadis-us.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ▪ NORMAL - 10 BUSINESS DAYS
□ 1 DAY □ 2 DAYS □ 3 DAYS □ 5 DAYS □ 20 DAYS (Package) □ OTHER:

SAMPLE DISPOSAL: □ RETURN TO CLIENT □ DISPOSAL BY LAB
□ SEE CONTRACT □ OTHER:

REQUESTED ANALYSIS: Mercury (1631E)

POSSIBLE HAZARD IDENTIFICATION
Δ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqueous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
11-5-10	1600	Effluent	X										X				3	

LAB USE ONLY - SAMPLE NUMBER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	11/4/10	1120		11-5-10	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	11/05/10	10:40	Δ YES Δ NO	657087	0.0°C

TAL-8251 (1207)

Login Samcle Receic Check Listc

Client: ARCADIS U.S., Inc.c

Job Number: 400-51787-1c

Login Number: 51787c
List Source: TestAmerica Pensacotac
Creator: Chea, Vandac
List Number: 1u

Questionc	/ F/ NAc	Commentc
dio ctivity eithbr owpsInot mecsuredcor, ifbmecsuredcisI t or belowp bc kgroundc	NcAc	
Thb ooler 'sI u stody sI l, ifbpresInt, i sIint ct.c	Truec	
Thb ooler or csI mplesIdo not cpp r to bavbSbeen com promisI dcor c tcmp recdcwith.c	Truec	
ScmplesIwpre recei vSdcon ice.c	Truec	
Cooler tCpm p rc ture isI ptcble.c	Truec	0.0°Cc
Cooler tCpm p rc ture isIrecordcd.c	Truec	
COC isIpresInt.c	Truec	
COC isIfilledcout in inkUnddegible.c	Truec	
COC isIfilledcout wvithb ll p rtinent in formction.c	Truec	
IsIthb FieldcScmpler'sIncme presInt on C OC?h	Truec	
Thbre c re no discrep ncieslbetwpn t hb sI mple lDsIon thb ontc inersI ndc thbC OC.c	Truec	
ScmplesI re receivSdcwithin bIoldingUTime.c	Truec	Scmple sEFFLUENTpwpsInot presIr vSdcwithin 48 c hrsIbe usI it owpsIreceivSdconc
Scmple contcinersIhavbSIegible lcbels.c	Truec	Scturdcy wvithbno notice givSn to lc b.c
ContcinersI re not brokUn or lec king.c	Truec	
Scmple collection dctedtimesI re providcd.c	Truec	
Appropricte sI mple contcinersI re usI d.c	Truec	
Scmple bottlesI re completely filled.c	Truec	
Scmple PresIr vStion vSi fiedc	Truec	
Thbre i sIsufficient vol. fbor cII requestedc nclysI sI incl. cny requestedc MSdMSDsI	Truec	
VOA sI mple vicIsIdo not bavbS hb dsp or bubble i sI<6mm (¼") in c dicmeter.c	Truec	
IfbnecessI ry, staffbhavbSbeen in formedcofb ny short bolddtime or quickUTATp needsI	Truec	
Multiphasic sI mplesI re not presInt.c	Truec	
ScmplesIdo not require splittingUbr compositing.c	Truec	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-64168-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
12/29/2010 10:47 AM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
12/29/2010

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

METHOD SUMMARY:

Client: ARCADIS U.S., Inc.c Job Number: 680-64168-1T

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatile Organic Compounds (GC/MS)	TAL SAVT	SW846 8260BT	
Purge and Trap	AL SAVT		SW846 5030BT
Metals (ICP)	AL SAVT	SW846 6010CT	
Preparation, Extractable Metals	AL SAVT		SM 3030CT

Lab References:

AL SAV = TestAmerica SavannahT

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",T

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its T Updates.T

METHOD / ANALcST SUMMARM

Client: ARCADIS U.S., Inc.T Job Number: 680-64168-1T

MethodM	AnalystM	Analyst ID:
W.46 8N260B.	Sokolin, EleinaN	
W.46 6010CN	Bland, BrianN	BCB.

SAMPLM SU MA RY2

Client: ARCADIS U.S., Inc.N

Job Number: 680-64168-1N

Lab Sample I2	ClM u Sample I2	ClM u : a:ro x2	Date/TimeV SampledV	Date/TimeV ReceivedV
680-64168-1N	EffluentJ	WaterJ	2. 2010 1700J	2. 6/J2010 0934J

Client: ARCADIS U.S., Inc. Job Number: 680-64168-1J

Client Sample ID:V **EffluentV**

LJb SJmple ID:J 680-64168-1J DJte SJmpled: 12/N /2010 1700J
Client MNtrix:J WNterJ DJte Received: 12/N6 /2010 0934J

8260B Tolatile Organic CompounTs (GC/MS):

Method:J 8260BJ AnJlysis BJtch: 680-190029J Instrument ID:J MSPJ
Prep4 tion:J 5030BJ LJb File ID:J p0385.dN
Dilution:J .0J InitiJl Weight/Volume:J 5 mLJ
DJte AnJlyzed:J 2/2N/2010 1417J FinJl Weight/Volume:J 5 mLJ
DJte Prep4 ed:J 2/2N/2010 1417J

AnJlyteJ	Result (ug/L)J	QuJlifierJ	RLJ
AcetoneJ	25J	UJ	25J
BenzeneJ	.0J	UJ	.0J
BromoformJ	.0J	UJ	.0J
Bromometh neJ	.0J	UJ	.0J
CJ bon disulfideJ	2.0J	UJ	2.0J
CJ bon tetrJchlorideJ	.0J	UJ	.0J
ChlorobenzeneJ	.0J	UJ	.0J
Chlorodibromometh neJ	.0J	UJ	.0J
Chloroeth neJ	.0J	UJ	.0J
ChloroformJ	.0J	UJ	.0J
Chlorometh neJ	.0J	UJ	.0J
cis-1,2-DichloroetheneJ	.0J	UJ	.0J
cis-1,3-Dichlorop4openeJ	.0J	UJ	.0J
Dichlorobromometh neJ	.0J	UJ	.0J
,1-Dichloroeth neJ	.0J	UJ	.0J
, 2-Dichloroeth neJ	.0J	UJ	.0J
,1-DichloroetheneJ	.0J	UJ	.0J
, 2-Dichlorop4opp4neJ	.0J	UJ	.0J
Diethyl etherJ	0J	UJ	0J
EthylbenzeneJ	.0J	UJ	.0J
2-HexJnoneJ	0J	UJ	0J
Methylene ChlorideJ	5.0J	UJ	5.0J
2-ButJnone (MEK)J	0J	UJ	0J
- Methyl-2-pentJnone (MIBK)J	0J	UJ	0J
StyreneJ	.0J	UJ	.0J
,1, 2,2-TetrJchloroeth neJ	.0J	UJ	.0J
TetrJchloroetheneJ	.0J	UJ	.0J
TolueneJ	.0J	UJ	.0J
trJns-1,2-DichloroetheneJ	.0J	UJ	.0J
trJns-1,3-Dichlorop4openeJ	.0J	UJ	.0J
,1,1- T.ichloroeth neJ	.0J	UJ	.0J
,1, 2-T.ichloroeth neJ	.0J	UJ	.0J
T.ichloroetheneJ	.0J	UJ	.0J
Vinyl chlorideJ	.0J	UJ	.0J
Xylenes, TotJlJ	2.0J	UJ	2.0J

SurrogJteJ	%RecJ	QuJlifierJ	AcceptJnce LimitsJ
-BromofluorobenzeneJ	94J		70 - 130J
Dibromofluorometh neJ	09J		70 - 130J
Toluene-d8 (Surr)J	03J		70 - 130J

Client: ARCADIS U.S., Inc. Job Number: 680-64168-1J

Client Sample ID:V **EffluentV**

LJb SJmple ID:J 680-64168-1J DJte SJmpled: 12/N /2010 1700J
Client MNtrix:J WNterJ DJte Received: 12/N6 /2010 0934J

6010C Metals (ICP):

Method:J 6010CJ AnJlysis BJtch: 680-189552N Instrument ID:J ICPDJ
Prep4 tion:J 3030CJ Prep BJtch: 680-189355J LJb File ID:J 2N91009 20.chr
Dilution:J .0J InitiJl Weight/Volume:J 50 mLJ
DJte AnJlyzed:J 2/N9 /2010 1908J FinJl Weight/Volume:J 50 mLJ
DJte Prep4 ed:J 2/N7 /2010 1202N

AnJlyteJ	Result (ug/L)J	QuJlifierJ	RLJ
ArsenicJ	20J	UJ	20J
ChromiumJ	0J	UJ	0J
CopperJ	20J	UJ	20J
Le dN	0	U	0J
ZincJ	00	UJ	00J

D T R PORT N M LIFa RSh

Client: ARCADIS U.S., Inc. Job Number: 680-64168-1J

Lab Sectionp	u alifierM	Descriptionp
GC/MS VOAJ		
	UJ	Indicates the analyte was analyzed for but not detected.J
MetalsI		
	UJ	Indicates the analyte was analyzed for but not detected.J

CliFntF . CADISF U.S., .nc.F Job Number: 680-641F- 1F

Method Blank - Batch: 680-190069u **Method: 8 60Bv**
PreparatVon: 5030Bv

Lab .a mplF. MB 680-190029/10.
CliFnt MatFixF WatF
il utionF 1.0.
atF . nalyzF dF 12/24/2010 123F
atF PF paF dF 12/24/2010 123F

nalysis BatchF 680-190029F
PF p BatchFN/AF
UnitsF ug/LF

nstFument . MSPF
Lab FilF. pq1F7.dF
nitial WFight/Volume: 5 mLF
inal WFight/Volume:. 5 mLF

nalytF	sultF	QualF	LF
cFtonF	25F	UF	25F
BFnzFnF	1.0.	U	F.0.
BFomoform.	1.0.	U	F.0.
BFomomethanF	1.0.	U	F.0.
CaFbon disulfidF	2.0.	U	2.0.
CaFbon tFtFachloridF	1.0.	U	F.0.
ChlorobenzFnF	1.0.	U	F.0.
ChlorodibromomethanF	1.0.	U	F.0.
ChloroethanF	1.0.	U	F.0.
Chloroform.	1.0.	U	F.0.
ChloromethanF	1.0.	U	F.0.
cis-1,2-.ichl oroethFnF	1.0.	U	F.0.
cis-1,3-.ichl oropFopFnF	1.0.	U	F.0.
ichl orobromomethanF	1.0.	U	F.0.
1,1-.ichl oroethanF	1.0.	U	F.0.
1,2-.ichl oroethanF	1.0.	U	F.0.
1,1-.ichl oroethFnF	1.0.	U	F.0.
1,2-.ichl oropFopanF	1.0.	U	F.0.
iF thyl ethF	10.	UF	10.
EthylbenzFnF	1.0.	U	F.0.
2-HFxanonF	10.	UF	10.
MFthylFnF ChloridF	5.0.	U	5.0.
2-ButanonF (MEK)F	10.	UF	10.
4-MFthyl-2-pFntanonF (MIBK)F	10.	UF	10.
tyF nF	1.0.	U	F.0.
1,1,2,2-TetFachloroethanF	1.0.	U	F.0.
TetFachloroethFnF	1.0.	U	F.0.
ToluenF	1.0.	U	F.0.
tFans-1,2-.ichl oroethFnF	1.0.	U	F.0.
tFans-1,3-.ichl oropFopFnF	1.0.	U	F.0.
1,1,1-TrichloroethanF	1.0.	U	F.0.
1,1,2-TrichloroethanF	1.0.	U	F.0.
TrichloroethFnF	1.0.	U	F.0.
Vinyl chloridF	1.0.	U	F.0.
XylFnFs, TotalF	2.0.	U	2.0.

urrogatF	% cF	ccF ptancF LimitsF .
4-BFomofluorobenzFnF	97F	70 - 130.
i bromofluoromethanF	111F	70 - 130.
ToluenF- dF (Surr)F	103F	70 - 130.

CliFntF . CADISF U.S., .nc.F Job Number: 680-641F- 1F

LabVControlVSample/V **Method: 8 60Bv**
LabVControlVSampleVDVplVcateVRecovery ReportV Batch: 680-190069u **PreparatVon: 5030Bv**

LCSFLab .a mplF.	LCSF680-190029/7F	nalysis BatchF 680-190029F	nstFument . MSPF
CliFnt MatFixF	WatF	PF p BatchFN/AF	Lab FilF. pq1F1.dF
il utionF	1.0.	UnitsF ug/LF	nitial WFight/Volume: 5 mLF
atF . nalyzF dF	12/24/2010 1100.		inal WFight/Volume:. 5 mLF
atF PF paF dF	12/24/2010 1100.		

LCSDFLab .a mplF.	LCSDF680-190029/F	nalysis BatchF 680-190029F	nstFument . MSPF
CliFnt MatFixF	WatF	PF p BatchFN/AF	Lab FilF. pq1F3.dF
il utionF	1.0.	UnitsF ug/LF	nitial WFight/Volume: 5 mLF
atF . nalyzF dF	12/24/2010 1129F		inal WFight/Volume:. 5 mLF
atF PF paF dF	12/24/2010 1129F		

		% . c.F					
nalytF	LCSF	LCSDF	LimitF	PDF	PDF LimitF	LCSFQualF	LCSDFQualF
cFtonF	103F	101F	2F- 1F0.	2F	50.		
BFnzFnF	101F	101F	70 - 130.	0.	30.		
BFomoform.	99F	9F	70 - 130.	1F	30.		
BFomomethanF	91F	97F	23 - 1F5F		50.		
CaFbon disulfidF	110.	110.	54 - 132F	0.	30.		
CaFbon tFtFachloridF	110.	110.	70 - 130.	0.	30.		
ChlorobenzFnF	103F	103F	70 - 130.	0.	30.		
ChlorodibromomethanF	92F	91F	70 - 130.	0.	50.		
ChloroethanF	99F	101F	5F- 152F	2F	40.		
Chloroform.	110.	111F	70 - 130.	1F	30.		
ChloromethanF	99F	101F	70 - 130.	2F	30.		
cis-1,2-.ichl oroethFnF	112F	113F	70 - 130.	1F	30.		
cis-1,3-.ichl oropFopFnF	107F	107F	70 - 130.	0.	30.		
ichl orobromomethanF	106.	104F	70 - 130.	1F	30.		
1,1-.ichl oroethanF	111F	111F	70 - 130.	0.	30.		
1,2-.ichl oroethanF	93F	94F	70 - 130.	1F	30.		
1,1-.ichl oroethFnF	11F	115F	- 131F	1F	30.		
1,2-.ichl oropFopanF	102F	101F	70 - 130.	1F	30.		
EthylbenzFnF	9F	100.	70 - 130.	1F	30.		
2-HFxanonF	93F	94F	42 - 1F5F	0.	30.		
MFthylFnF ChloridF	112F	112F	7 - 130.	0.	30.		
2-ButanonF (MEK)F	109F	106.	49 - 172F	3F	30.		
4-MFthyl-2-pFntanonF (MIBK)F	90.		70 - 130.	2F	30.		
tyF nF	104F	104F	70 - 130.	1F	30.		
1,1,2,2-TetFachloroethanF	101F	100.	70 - 130.	1F	30.		
TetFachloroethFnF	106.	107F	70 - 130.	1F	30.		
ToluenF	102F	102F	70 - 130.	0.	30.		
tFans-1,2-.ichl oroethFnF	111F	113F	70 - 130.	1F	30.		
tFans-1,3-.ichl oropFopFnF	105F	106.	70 - 130.	0.	50.		
1,1,1-TrichloroethanF	104F	105F	70 - 130.	1F	30.		
1,1,2-TrichloroethanF	9F	100.	70 - 130.	2F	30.		
TrichloroethFnF	104F	106.	70 - 130.	2F	30.		
Vinyl chloridF	105F	107F	7 - 134F	1F	30.		

CliFntF . CADISF U.S., .nc.F Job Number: 680-641F- 1F

LabVControlVSample/V **Method: 8 60Bv**
LabVControlVSampleVDVplVcateVRecovery ReportV- Batch: 680-190069u **PreparatVon: 5030Bv**

LCSFLab .a mplF.	LCSF680-190029/7F	nalysis BatchF 680-190029F	nstFument . MSPF
CliFnt MatFixF	WatF	PF p BatchFN/AF	Lab FilF. pq1F1.dF
il utionF	1.0.	UnitsF ug/LF	nitial WFight/Volume: 5 mLF
atF . nalyzF dF	12/24/2010 1100.		Final WFight/Volume:. 5 mLF
atF PF paF dF	12/24/2010 1100.		

LCSDFLab .a mplF.	LCSDF680-190029/F	nalysis BatchF 680-190029F	nstFument . MSPF
CliFnt MatFixF	WatF	PF p BatchFN/AF	Lab FilF. pq1F3.dF
il utionF	1.0.	UnitsF ug/LF	nitial WFight/Volume: 5 mLF
atF . nalyzF dF	12/24/2010 1129F		Final WFight/Volume:. 5 mLF
atF PF paF dF	12/24/2010 1129F		

	% . c.F					
nalytF	LCSF	LCSDF	LimitF	PDF	PDF LimitF	LCSFQualF LCSDFQualF
XylFnFs, TotalF	104F	105F	70 - 130.	1F	30.	

urrogatF	LCSF% . cF	LCSDF% . cF	ccF ptancF LimitsF
4-BFomofluorobenzFnF	101F	9F	70 - 130.
i bromofluoromethanF	113F	113F	70 - 130.
ToluenF- dF (Surr)F	102F	102F	70 - 130.

CliFntF . CADISF U.S., .nc.F Job Number: 680-641F- 1F

Method Blank - Batch: 680-189355u **Method: 6010Cu**
PreparatVon: 3030Cu

Lab .a mplF. MB 680-1F9355/2-. nalysis BatchF 680-1F9552F nstFument . CPDF
CliFnt MatFixF WatF PF p BatchF 680-1F9355F Lab FilF. 1219100920.chF
il utionF 1.0. UnitsF ug/LF nitial WFight/Volume: 50 mLF
atF . nalyzF dF 12/19/2010 1F5F inal WFight/Volume:. 50 mLF
atF PF paF dF 12/17/2010 1202F

nalytF	sultF	QualF	LF
sFnicF	20.	UF	20.
ChFomium.	10.	UF	10.
CoppF	20.	UF	20.
LFadF	10.	UF	10.
ZincF	100.	UF	100.

LabVControlVSampleV- Batch: 680-189355u **Method: 6010Cu**
PreparatVon: 3030Cu

Lab .a mplF. LCSF680-1F9355/3-. nalysis BatchF 680-1F9552F nstFument . CPDF
CliFnt MatFixF WatF PF p BatchF 680-1F9355F Lab FilF. 1219100920.chF
il utionF 1.0. UnitsF ug/LF nitial WFight/Volume: 50 mLF
atF . nalyzF dF 12/19/2010 1903F inal WFight/Volume:. 50 mLF
atF PF paF dF 12/17/2010 1202F

nalytF	pikF . mountF	sultF	% . c.F	LimitF	QualF
sFnicF	2000.	2050.	102F	75 - 125F	
ChFomium.	200.	209F	105F	75 - 125F	
CoppF	250.	25F	103F	75 - 125F	
LFadF	500.	514F	103F	75 - 125F	
ZincF	500.	52F	105	F75 - 125F	

CliFntF . CADISF U.S., .nc.F Job Number: 680-641F- 1F

MatrixVSpikeV
MatrixVSpikeVDVplVcateVRecovery ReportV- Batch: 680-189355u

Method: 6010Cu
PreparatVon: 3030Cu

MSFLab .a mplF.	0-6. 41F- 1F	nalysis BatchF 680-1F9552F	nstFument . CPDF
CliFnt MatFixF	WatF	PF p BatchF 680-1F9355F	Lab FilF. 1219100920.chF
il utionF	1.0.		nitial WFight/Volume: 50 mLF
atF . nalyzF dF	12/19/2010 1923F		inal WFight/Volume:. 50 mLF
atF PF paF dF	12/17/2010 1202F		

MSDFLab .a mplF.	0-6. 41F- 1F	nalysis BatchF 680-1F9552F	nstFument . CPDF
CliFnt MatFixF	WatF	PF p BatchF 680-1F9355F	Lab FilF. 1219100920.chF
il utionF	1.0.		nitial WFight/Volume: 50 mLF
atF . nalyzF dF	12/19/2010 192F		inal WFight/Volume:. 50 mLF
atF PF paF dF	12/17/2010 1202F		

	% . c.F						
nalytF	MSF	MSDF	LimitF	PDF	PDF LimitF	MSFQualF	MSDFQualF
sFnicF	102F	104	F75 - 125F	2F	20.		
ChFomium.	103F	105	F75 - 125F	2F	20.		
CoppF	104F	106.	75 - 125F	2F	20.		
LFadF	100.	103	F75 - 125F	2F	20.		
ZincF	104F	106.	75 - 125F	2F	20.		

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Alan Pinnix	Site Contact: Alan Pinnix	Date: December 14, 2010	COC No:
ARCADIS	Tel/Fax: 919-854-1282	Lab Contact: Kathy Smith	Carrier: Fed Ex	1 of 1 COCs
801 Corporate Center Drive, Suite 300	Analysis Turnaround Time			Job No.
Raleigh, NC 27607	Calendar (C) or Work Days (W)			
919-854-1282	TAT if different from Below			SDG No.
919-854-5448	■ 2 weeks			
Project Name: UNC - Airport Road	☐ 1 week			
Site: Chapel Hill, NC	☐ 2 days			
P O # NC000239.0018.00001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (Method 8260)	PP Metals (Method 6010)*	Sample Specific Notes:
Effluent	12/14/2010	1700	Grab		4	N	3	1	*Please report: As, Cr, Cu, Pb, and Zn.

Page 13 of 14

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

TEMP 2.4 680-64168

Relinquished by: [signature]	Company: ARCADIS	Date/Time: 12-15-10/0800	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company: TAS	Date/Time: 12/16/10 09:34

Login Samcle ReVeV CheVk Listc

Client: ARCADIS U.S., Inc.

Job NumbeF: 680-64168-1J

Login Number: c4168P

List SourVe: TestAmerVa Sa vannahc

Creatoc: Swaffmrd, Fran esc

List Number: 16

Questionc	/ F/ NAc	CommeV
Radioactivity eitFeFwas not measured or, if measured, is at or below F backg.oundc	N/AF	
Tce cooleF's custody seal, if p esent, is intact.J	TcueF	
Tce cooleFor samples do not appeah to Fave been comp omised or F tampeFed witF.J	TcueF	
Samples weFe Feceived on ice.J	TcueF	
CooleF TempeFatuFe is acceptable.J	TcueF	
CooleF TempeFatuFe is Fecoided.J	TcueF	
COC is p esent.J	TcueF	
COC is filled out in ink and legible.J	TcueF	
COC is filled out witF all peFtinent information.J	TcueF	
Is tFe Field SampleF's name p esent on COC?N	N/AF	
TceFe ahe no discrepancies between tFe sample IDs on tFe containeFs and F tFe COC.J	TcueF	
Samples ahe Feceived witFin Holding Time.J	TcueF	
Sample containeFs Fave legible labels.J	TcueF	
ContaineFs ahe not broken or leaking.J	TcueF	
Sample collection date/times ahe p ovided.J	TcueF	
App op iate sample containeFs ahe used.J	TcueF	
Sample bottles ahe completely filled.J	TcueF	
Sample PNeseFvation VeFifiedc	TcueF	
TceFe is sufficient vol. for all Fequested analyses, incl. any Fequested F MS/MSDsT	TcueF	
VOA sample vials do not Fave Feadspace or bubble is <6mm (1/F") in F diameteF.J	TcueF	
If necessahy, staff Fave been informed of any sTortJ Fold time or quick TAT F needsT	TcueF	
Multip asic samples ahe not p esent.J	N/AF	
Samples do not FequiFe splitting or compositing.J	N/AF	

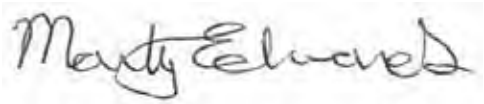
ANALYTICAL REPORT

Job Number: 400-52750-1

Job Description: UNC-Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix



Approved for release.
Marty Edwards
Senior Project Manager
12/27/2010 10:32 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
12/27/2010

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

METHOD SUMMARY:

Client: ARCADIS U.S., Inc. Job Number: 400-52750-1U

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Mercury, Low Level (CVAFS)	AL PEN	A 1631E	
Preparation, Mercury, Low Level	AL PEN		A 1631E

Lab References:

AL PEN = TestAmerica Pensacola

Method References:

A = US Environmental Protection Agency

METHOD / ANALcST SUMMARM

Client: ARCADIS U.S., Inc.v

Job Number: 400-52750-1v

MethodM	AnalystM	Analyst ID:
EPA 1631Ec	Jonev, RvndyF	RJv

Client: ARCADIS U.S., Inc.v Job Number: 400-52750-1v

Lab Sa: ple IDV	Client Sa: ple IDV	Client : atrix2	Date/TimeV Sa: pledV	Date/TimeV ReceivedV
400-52750-1v	FFLUENTS	WaterS	2/14/2010 1700S	2/16/2010 0930S

SAV PL : S L SV

Client: ARCADIS U.S., Inc.S Job Number: 400-52750-1S

Client Sample ID:V **EFFLUENT**

L0b S mple ID:S 400-52750-1S DS S mples: 12/N4 /2010 1700S
Client M5 ix:S W- DS Recei v) d: 12/N6/2010 0930S

1631E Mercury, Low Level (CVAFS)D

M5ho d:1S 631ES AnSlysis BS ch: 400-123101S Instrument ID:S HYDRAS
Prep50 ion:S 631ES Prep5 BS ch: 400-123009S L0b File ID:S 22110b.PRNS
Dilution:S .0S InitiSl W-ight /Volume:S 40 mL0
DS AnSlyzed:S 2 /21/2010 1135S FinSl W-ight /Volume:S 40 mL0
DS Prep50 d:S 2 /N6/2010 1215S

AnSlyteS	Result (ng/L)S	Qu lifierS S	RL0
M5curyS	0.71S		0.50S

QUALITYpCuTROLp SULTSp

Client: ARCADIS U.S., Inc.S

Job Number: 400-52750-1S

QC AssociatVon SummaryU

LaV SampleVD-	ClVentVSampleVD-	ReportV BaV	ClVentVMatrix-	Method-	Prep Batchu
MetalV					
Prep BatchU400-123009b					
LCS 400-123009/2-AS	L0b Control S mpleS		W0	3MEM	
LCSD 400-123009/3-AS	L0b Control S mple DuplicS		W0	3MEM	
MB 400-123009/T-AS	M0 hod BISnk0		W0	3MEM	
400-52750-1S	EFFLUENS		W0	3MEM	
700-54458-B-2-B M0	M0 ix Spik0		W0	3MEM	
700-54458-B-2-C MSDS	M0 ix Spik0Du plicS		W0	3MEM	
AnalV B atchu400-123101u					
LCS 400-123009/2-AS	L0b Control S mpleS		W0	3MEM	400-123009b
LCSD 400-123009/3-AS	L0b Control S mple DuplicS		W0	3MEM	400-123009b
MB 400-123009/T-AS	M0 hod BISnk0		W0	3MEM	400-123009b
400-52750-1S	EFFLUENS		W0	3MEM	400-123009b
700-54458-B-2-B M0	M0 ix Spik0		W0	3MEM	400-123009b
700-54458-B-2-C MSDS	M0 ix Spik0Du plicS		W0	3MEM	400-123009b

ReportVBaV
= SotSlS

Cli) . CADIS U.S., Inc.) Job Number: 400-52750-1.

Method Blank - Batch: 400-123009y **Method: 1631Ev**
PreparatVon: 1631Ev

LRb S) mpl) ID) MB 400-123009/1-A) lysis BF chF 400-123101. In$Fume. ID) HYv
Cli) MaNixJ WM PF p BF chF 400-123009S LRb . il) ID) 122110b.PF N.
il u.io. 1.00 Units$F g/LR Initi) l WMghF7Volume:. 40 mLR
. lyzUdb 12/21/2010 09445 in) l WMghF7Volume:. 40 mLR
PF p2 db 12/16/2010 1215C

lyS	sult)	Qu. lR)	LR
MN curyS	<0.500		0.500

LabvControlVSample/v **Method: 1631Ev**
LabvControlVSampleVD/ plVcateVRecouery ReportV- Batch: 400-123009y **PreparatVon: 1631Ev**

LCS LRb S) mpl) ID) LCS 400-123009/2-A) lysis BF chF 400-123101. In$Fume. ID) HYv
Cli) MaNixJ WM PF p BF chF 400-123009S LRb . il) ID) 122110b.PF N.
il u.io. 1.00 Units$F g/LR Initi) l WMghF7Volume:. 40 mLR
. lyzUdb 12/21/2010 0952 in) l WMghF7Volume:. 40 mLR
PF p2 db 12/21/2010 09300

LCSD)LRb S) mpl) ID) LCSD)400-123009/3-A) lysis BF chF 400-123101. In$Fume. ID) HYv
Cli) MaNixJ WM PF p BF chF 400-123009S LRb . il) ID) 122110b.PF N.
il u.io. 1.00 Units$F g/LR Initi) l WMghF7Volume:. 40 mLR
. lyzUdb 12/21/2010 10000 in) l WMghF7Volume:. 40 mLR
PF p2 db 12/21/2010 09300

	% . c.)						
lyS	LCS)	LCSD)	Limit)	PF	PF Limit)	LCS Qu. l)	LCSD)Qu. l)
MN curyS	945	945	79 - 121.	00	200		

Cli) . CADIS U.S., Inc.) Job Number: 400-52750-1.

MatrixVSpvke/v **Method: 1631Ev**
MatrixVSpvkeVD/ plVcateVRecouery ReportV- Batch: 400-123009y **PreparatVon: 1631Ev**

MS LRb S) mpl) ID)	700-54458-B-2-B MS)	lysis BF chF 400-123101.	In$Fume. ID) HYv
Cli) MaNixJ	WM	PF p BF chF 400-123009S	LRb . il) ID) 122110b.PF N.
il u.io.	1.00		Initi) l WMghF7Volume:. 40 mLR
. lyzUdb	12/21/2010 1111.		in) l WMghF7Volume:. 40 mLR
PF p2 db	12/20/2010 1445C		
MSD)LRb S) mpl) ID)	700-54458-B-2-C MSD)	lysis BF chF 400-123101.	In$Fume. ID) HYv
Cli) MaNixJ	WM	PF p BF chF 400-123009S	LRb . il) ID) 122110b.PF N.
il u.io.	1.00		Initi) l WMghF7Volume:. 40 mLR
. lyzUdb	12/21/2010 1119S		in) l WMghF7Volume:. 40 mLR
PF p2 db	12/20/2010 1445C		

	% . c.)						
lyS	MS)	MSD)	Limit)	PF	PF Limit)	MS Qu. l)	MSD)Qu. l)
MN curyS	98v	88	v 71 - 125C	100	245		

D T R PORT N M LIFa RSh

Lab Sectionp	u alifierM	Descriptionp

SERIAL NUMBER: 050145

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001
Fax: 850-478-2671
Website: www.testamericainc.com

QUOTE NO:

BOTTLE ORDER NO:

ORDER LOG-IN NO: CHS-32150

CLIENT: ARCADIS

ADDRESS: 801 Corporate Center Dr., Raleigh, NC 27607

PAGE 1 OF 1

PROJECT NAME: UNC - Airport Rd.

PROJECT NO.: NC000239.0018.00001

CLIENT PROJECT MANAGER: Alan Pinnix

PROJECT LOC. (STATE):

SAMPLED BY: Dave Twamley

CONTRACT / P.O. NO.:

CLIENT PHONE: 919-854-1282

CLIENT E-MAIL OR FAX:

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☒ NORMAL - 10 BUSINESS DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 20 DAYS (Package) ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
☐ SEE CONTRACT ☐ OTHER:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION
Δ NON-HAZARD
Δ FLAMMABLE
Δ RADIOACTIVE
Δ POISON B
Δ UNKNOWN
Δ OTHER:

NO. OF COOLERS PER SHIPMENT: 1

LAB USE ONLY - SAMPLE NUMBER

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	PRESERVATIVE: No Preservative	HCL - Hydrochloric Acid	HNO3 - Nitric Acid	H2SO4 - Sulfuric Acid or H3PO4	NAOH - Sodium Hydroxide	CH3OH - Methanol	NAHSO4 - Sodium Bisulfate	NA2S2O3 - Sodium Thiosulfate	Other:	MATRIX: Drinking Water	Aqeuous GW, SW, WW	Solid, Semisolid, Sediment	Air	NonAqueous (Oil, Solvent, etc.)	NUMBER OF CONTAINERS SUBMITTED: Mercury (1631E)	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
12-14-10	1700	Effluent	X										X				3	

Page 12 of 13

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	6/28/10	1115	Dave Twamley	12-15-10	0800			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY INTACT?	CUSTODY SEAL NO.	REMARKS:
	12/16/10	9:30	Δ YES Δ NO	186019	0.02

TAL-8251 (1207)

Login Samcle ReVeV CheVk Listc

Client: ARCADIS U.S., Inc.S

Job Number: 400-52750-1S

Login Number: 52750L

List SourVe: TestAmerVa PeVsacodac

Creatoc: Chea, Vandac

List Number: 1/

Questionc	/ F/ NAc	CommeV
Radioactivity eitSb was not meSsureS or, if meSsureS, is aFor below S backgUoundc	NSAS	
hbcoolerS s cuslody sI al, if p sInt, i s intSct.S	ueS	
hbcooler or samleS do not app aFto havSbeen com p omisI d or S amp d witS.S	ueS	
amleS wp recei vSd on ice.S	ueS	
Cooler S m p aFure is accepSable.S	ueS	0.0°CS
Cooler S m p aFure is recorScd.S	ueS	
COC is p sInt.S	ueS	
COC is filleS out in ink and leSible.S	ueS	
COC is filleS out witS all p inent in formaFon.S	ueS	
Is tSb Field SamplerS name p sInt on C OC?h	ueS	
hb aF no discrepSancieS betwpn tShb sample IDs on tSbcontSainerS and S hbC OC.S	ueS	
amleS aF recei vSd witSin Holding Sime.S	ueS	
ample contSinerS havSleSible labels.S	ueS	
ContSinerS aF not bro kUn or leSaking.S	ueS	
ample collection daF imeS aF p ovidcd.S	ueS	
App op iaF sample contSinerS aF u sI d.S	ueS	
ample bottleS aF com pletely filleS.S	ueS	
ample P. sI vaFon VerifieSc	ueS	
hb i s sufficient vol. for all reSqueSI d analysI s, incl. any reSqueSI d S MN MSDsI	ueS	
VOA sample vials do not havS hbadspace or bubble is <6mm (N4") in S diameter.S	ueS	
If neceSsaFy, slaff havSbeen in formeS of any short hold time or quick SAS S neeSsI	ueS	
Multiphasic samleS aF not p sInt.S	ueS	
amleS do not reSuire splitting or compositing.S	ueS	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-61778-1

Job Description: UNC Chapel Hill

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
10/29/2010 4:31 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
10/29/2010
Revision: 2

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CommentsU
No additig.al cgomments. g

ceipt U
All samples were received in goo. cgo. tigo. within temperat ure requSements.g

GC/MS VOA U
No analytical or quality issges were ngted.g

Metals U
No analytical or quality issges were ngted.g

General Chemistry U
No analytical or quality issges were ngted.g

VOA Prep U
No analytical or quality issges were ngted.g

METHOD SUMMARY:

CliFntF. CADISF U.S., .nc.F Job Number: 680-6177)- 1)

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
VolatilF OMganic Compounds (GC/M)M	TML . VM	WF 4U8.2,0 BM	
PurgMand T apF	TML . VM		WF 4U5030BM
tals (MCP)M	TML . VM	WF 4U60 10CF	
PrepaMation, Total . coverablFor . i ssolved . talsM	TML . VM		WF 4U3005T
cury (CVM)M	TML . VM	W 46 7470.	
Prepa ation, . curyc	TML . VM		WF 4U7470.
ulfatF, TurbidimetFicF	TML . VM	WF 4U903T	

Lab References:

TML . V = TMstAFmerica . avannahF

Method References:

WF 4U= "TMst . thods For Evaluating . olid WastF, Physical/ChFm ical . thods", ThiFd Edition, November 19b . n d .ts . UpdatFs.F

METHOD / ANALcST ScMMARM

Client: ARCADIS U.S., Inc.S

Job Number: 680-61778-1c

MethodM		AnalystM	Analyst ID:
W8J6	8260BI	Lanier, CaFolynS	CLJ
W8J6	6010CS	Bland, BlianS	BCBI
W846	7470A.	Vasquez, Juana.	V.
W846	9038.	Ross, Jon.	R.

SUMPLU SUMMUR Y2

Client: ARCADIS U.S., Inc. ob Number: 680-61778-1.

Lab Sa: ple IDV	Client Sa: ple IDV	Client Matrix2	Date/Time : Sa: pledb	Date/Time : ReVeivedb
680-61778-1A	MW-1 (09302010)A		09/30/2010 1230.	10/01/2010 0941.
680-61778-2A	MW-2 (09302010)A		09/30/2010 1115A	10/01/2010 0941A
680-61778-3A	MW-3 (09302010)A		09/29/2010 1645A	10/01/2010 0941A
680-61778-4A	MW-14 (09302010)A		09/29/2010 1430A	10/01/2010 0941A
680-61778-5A	MW-38 (09302010)A		09/30/2010 1330A	10/01/2010 0941A
680-61778-6A	MW-39 (09302010)A		09/30/2010 1015A	10/01/2010 0941A
680-61778-7A	Trip BlankA		09/30/2010 0000A	10/01/2010 0941A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:V **MW-1 (09302010)d**

Lab Sample ID:A 680-61778-1A Da. S ampleA: 09/30/2010 1230A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182239J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0785.dF
Dilution:A	50A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/07/2010 1518A			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/07/2010 1518A				

n alyteA	Result (ug/L)	QualifierA	RLJ
cetoneA	1300A	UA	1300
BenzeneA	620		50
BromobenzeneA	50A	UA	50A
BromochlorometAaneA	50A	UA	50A
BromoformA	50A	UA	50A
BromometAaneA	50A	UA	50A
2-Butanone (MEK)A	500A	UA	500A
Ca.bon disulfidF	100A	UA	100A
Ca.bon tetrAachloridF	50A	UA	50A
ChlorobenzeneA	50A	UA	50A
ChlorodibromometAaneA	50A	UA	50A
ChloroetAaneA	50A	UA	50A
ChloroformA	3400A		50A
ChlorometAaneA	50A	UA	50A
2-ChlorotolueneA	50A	UA	50A
4-ChlorotolueneA	50A	UA	50A
cis-1,2-DichloroetA neA	50A	UA	50A
cis-1,3-Dichlorop4bp4neA	50A	UA	50A
1,2-Dibromo-3-Chlorop4bpaneA	50A	UA	50A
1,2-DibromoetAaneA	50A	UA	50A
DibromometAaneA	50A	UA	50A
1,3-DichlorobenzeneA	50A	UA	50A
1,2-DichlorobenzeneA	50A	UA	50A
1,4-DichlorobenzeneA	50A	UA	50A
DichlorobromometAaneA	50A	UA	50A
DichlorodifluorometAaneA	50A	UA	50A
1,1-DichloroetAaneA	50A		50A
1,2-DichloroetAaneA	360A		50A
1,1-DichloroetA neA	50A	UA	50A
1,2-DichloroetA ne, TotAalA	100A	UA	100A
1,2-Dichlorop4bpaneA	50A	UA	50A
2,2-Dichlorop4bpaneA	50A	UA	50A
1,3-Dichlorop4bpaneA	50A	UA	50A
1,1-Dichlorop4bp4neA	50A	UA	50A
DietAyl etA	4300A		500A
EtAylbenzeneA	50A	UA	50A
HexAachlorobutadieneA	50A	UA	50A
2-HexAanoneA	500A	UA	500A
Isop4bpylbenzeneA	50A	UA	50A
MN hylene ChloridF	570A		250A
4-MN hyl-2-p4ntAanone (MIBK)A	500A	UA	500A
MN hyl tert-butyl etA	500A	UA	500A
m-Xylene & p-XyleneA	100A	UA	100A
Naph haleneA	5900A		250A
n-ButylbenzeneA	50A	UA	50A
N-P.opylbenzeneA	50A	UA	50A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-1 (09302010)d**

Lab Sample ID:A 680-61778-1A Da. S ampleA: 09/30/2010 1230A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A 8260B Analysis Ba.ch: 680-182239J Instrument ID:A MSP
P. pa.a.ion:A 5030BA Lab File ID:A p0785.dF
Dilution:A 50A Initial WSg h /Volume:A 5 mLJ
Da. An alyzedA: 10/07/2010 1518A Final WSg h /Volume:A 5 mLJ
Da. P. pa. d:A 10/07/2010 1518A

n alyteA	Result (ug/L)	QualifierA	RLJ
o-XyleneA	50A	UA	50A
p-Isop4opyltolueneA	50A	UA	50A
sec-ButylbenzeneA	50A	UA	50A
StyreneA	50A	UA	50A
-ButylbenzeneA	50A	UA	50A
1,1,2,2-TetraAchloroetAaneA	530		5A0
1,1,1,2-TetraAchloroetAaneA	50A	UA	50A
TetraAchloroetA neA	50A	UA	50A
TolueneA	50A	UA	50A
ans-1,2-DichloroetA neA	50A	UA	50A
ans-1,3-Dichlorop4opp4neA	50A	UA	50A
1,2,4-TrichlorobenzeneA	50A	UA	50A
1,2,3-TrichlorobenzeneA	50A	UA	50A
1,1,1-TrichloroetAaneA	50A	UA	50A
1,1,2-TrichloroetAaneA	50A	UA	50A
TrichloroetA neA	130		5A0
TrichlorofluorometAaneA	50A	UA	50A
1,2,3-Trichlorop4opaneA	50A	UA	50A
1,2,4-TrimetAylbenzeneA	50A	UA	50A
1,3,5-TrimetAylbenzeneA	50A	UA	50A
Vinyl acetA.	100A	UA	100A
Vinyl chloridF	50A	UA	50A
Xylenes, TotAlA	100A	UA	100A

Surroga.	%Rec	QualifierA	cceAp4ance LimitsA
4-BromofluorobenzeneA	98A		75 - 120A
DibromofluorometAaneA	90A		75 - 121A
Toluene-d8 (Surr)A	97A		75 - 120A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-2 (09302010)d**

Lab Sample ID:A 680-61778-2b Da. S ampleA: 09/30/2010 1115A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182239J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0787.dF
Dilution:A	100A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/07/2010 1548A			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/07/2010 1548A				

n alyteA	Result (ug/L)	QualifierA	RLJ
cetoneA	2500A	UA	2500
BenzeneA	6800A		100A
BromobenzeneA	100A	UA	100A
BromochlorometAaneA	100A	UA	100A
BromoformA	100A	UA	100A
BromometAaneA	100A	UA	100A
2-Butanone (MEK)A	1000A	UA	1000A
Ca.bon disulfidF	200A	UA	200A
Ca.bon tetrAachloridF	100A	UA	100A
ChlorobenzeneA	240A		100A
ChlorodibromometAaneA	100A	UA	100A
ChloroetAaneA	100A	UA	100A
ChloroformA	780A		100A
ChlorometAaneA	100A	UA	100A
2-ChlorotolueneA	100A	UA	100A
4-ChlorotolueneA	100A	UA	100A
cis-1,2-DichloroetA neA	100A	UA	100A
cis-1,3-Dichlorop4bp4neA	100A	UA	100A
1,2-Dibromo-3-Chlorop4bpaneA	100A	UA	100A
1,2-DibromoetAaneA	100A	UA	100A
DibromometAaneA	100A	UA	100A
1,3-DichlorobenzeneA	100A	UA	100A
1,2-DichlorobenzeneA	100A	UA	100A
1,4-DichlorobenzeneA	100A	UA	100A
DichlorobromometAaneA	100A	UA	100A
DichlorodifluorometAaneA	100A	UA	100A
1,1-DichloroetAaneA	100A	UA	100A
1,2-DichloroetAaneA	1000A		100A
1,1-DichloroetA neA	100A	UA	100A
1,2-DichloroetA ne, TotAalA	200A	UA	200A
1,2-Dichlorop4bpaneA	100A	UA	100A
2,2-Dichlorop4bpaneA	100A	UA	100A
1,3-Dichlorop4bpaneA	100A	UA	100A
1,1-Dichlorop4bp4neA	100A	UA	100A
DietAyl etA	13000A	EA	1000A
EtAylbenzeneA	260A		100A
HexAachlorobutadieneA	100A	UA	100A
2-HexAanoneA	1000A	UA	1000A
Isop4bpylbenzeneA	100A	UA	100A
MN hylene ChloridF	780A		500A
4-MN hyl-2-p4ntAanone (MIBK)A	1000A	UA	1000A
MN hyl tert-butyl etA	1000A	UA	1000A
m-Xylene & p-XyleneA	220A		200A
Naph haleneA	1500A		500A
n-ButylbenzeneA	100A	UA	100A
N-P.opylbenzeneA	100A	UA	100A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-2 (09302010)d**

Lab Sample ID:A 680-61778-2b Da. S ampleA: 09/30/2010 1115A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182239J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0787.dF
Dilution:A	100A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/07/2010 1548A			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/07/2010 1548A				

n alyteA	Result (ug/L)	QualifierA	RLJ
o-XyleneA	640A		100A
p-Isop4opyltolueneA	100A	UA	100A
sec-ButylbenzeneA	100A	UA	100A
StyreneA	100A	UA	100A
-ButylbenzeneA	100A	UA	100A
1,1,2,2-TetraAchloroetAaneA	100A	UA	100A
1,1,1,2-TetraAchloroetAaneA	100A	UA	100A
TetraAchloroetA neA	100A	UA	100A
TolueneA	100A	UA	100A
ans-1,2-DichloroetA neA	100A	UA	100A
ans-1,3-Dichlorop4opp4neA	100A	UA	100A
1,2,4-TrichlorobenzeneA	100A	UA	100A
1,2,3-TrichlorobenzeneA	100A	UA	100A
1,1,1-TrichloroetAaneA	100A	UA	100A
1,1,2-TrichloroetAaneA	100A	UA	100A
TrichloroetA neA	130A		100A
TrichlorofluorometAaneA	100A	UA	100A
1,2,3-Trichlorop4opaneA	100A	UA	100A
1,2,4-TrimetAylbenzeneA	100A	UA	100A
1,3,5-TrimetAylbenzeneA	100A	UA	100A
Vinyl acetA.	200A	UA	200A
Vinyl chloridF	100A	UA	100A
Xylenes, TotAlA	870A		200A

Surroga.	%Rec	QualifierA	cceAp4ance LimitsA
4-BromofluorobenzeneA	96A		75 - 120A
DibromofluorometAaneA	91A		75 - 121A
Toluene-d8 (Surr)A	98A		75 - 120A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-3 (09302010)d**

Lab Sample ID:A 680-61778-34 Da. S ampleA: 09/29/2010 1645A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A 8260B Analysis Ba.ch: 680-182149J Instrument ID:A MSP
P. pa.a.ion:A 5030BA Lab File ID:A p0755.dF
Dilution:A 1.0A Initial WSg h /Volume:A 5 mLJ
Da. An alyzedA: 10/06/2010 17534 Final WSg h /Volume:A 5 mLJ
Da. P. pa. d:A 10/06/2010 17534

n alyteA	Result (ug/L)	QualifierA	RLJ
cetoneA	25A	UA	25
BenzeneA	1.0A	UA	1.0A
BromobenzeneA	1.0A	UA	1.0A
BromochlorometAaneA	1.0A	UA	1.0A
BromoformA	1.0A	UA	1.0A
BromometAaneA	1.0A	UA	1.0A
2-Butanone (MEK)A	10A	UA	10A
Ca.bon disulfidF	2.0A	UA	2.0A
Ca.bon tetrAchloridF	1.0A	UA	1.0A
ChlorobenzeneA	1.0A	UA	1.0A
ChlorodibromometAaneA	1.0A	UA	1.0A
ChloroetAaneA	1.0A	UA	1.0A
ChloroformA	1.0A	UA	1.0A
ChlorometAaneA	1.0A	UA	1.0A
2-ChlorotolueneA	1.0A	UA	1.0A
4-ChlorotolueneA	1.0A	UA	1.0A
cis-1,2-DichloroetA neA	1.0A	UA	1.0A
cis-1,3-Dichlorop4bp4neA	1.0A	UA	1.0A
1,2-Dibromo-3-Chlorop4bpaneA	1.0A	UA	1.0A
1,2-DibromoetAaneA	1.0A	UA	1.0A
DibromometAaneA	1.0A	UA	1.0A
1,3-DichlorobenzeneA	1.0A	UA	1.0A
1,2-DichlorobenzeneA	1.0A	UA	1.0A
1,4-DichlorobenzeneA	1.0A	UA	1.0A
DichlorobromometAaneA	1.0A	UA	1.0A
DichlorodifluorometAaneA	1.0A	UA	1.0A
1,1-DichloroetAaneA	1.0A	UA	1.0A
1,2-DichloroetAaneA	1.0A	UA	1.0A
1,1-DichloroetA neA	1.0A	UA	1.0A
1,2-DichloroetA ne, TotAalA	2.0A	UA	2.0A
1,2-Dichlorop4bpaneA	1.0A	UA	1.0A
2,2-Dichlorop4bpaneA	1.0A	UA	1.0A
1,3-Dichlorop4bpaneA	1.0A	UA	1.0A
1,1-Dichlorop4bp4neA	1.0A	UA	1.0A
DietAyl etA	10A	UA	10A
EtAylbenzeneA	1.0A	UA	1.0A
HexAachlorobutadieneA	1.0A	UA	1.0A
2-HexAanoneA	10A	UA	10A
Isop4bpylbenzeneA	1.0A	UA	1.0A
MN hylene ChloridF	5.0A	UA	5.0A
4-MN hyl-2-p4ntAanone (MIBK)A	10A	UA	10A
MN hyl tert-butyl etA	10A	UA	10A
m-Xylene & p-XyleneA	2.0A	UA	2.0A
Naph haleneA	5.0A	UA	5.0A
n-ButylbenzeneA	1.0A	UA	1.0A
N-P.opylbenzeneA	1.0A	UA	1.0A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-3 (09302010)d**

Lab Sample ID:A 680-61778-34 Da. S ampleA: 09/29/2010 1645A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182149J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0755.dF
Dilution:A	1.0A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/06/2010 17534			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/06/2010 17534				

n alyteA	Result (ug/L)	QualifierA	RLJ
o-XyleneA	1.0A	UA	1.0A
p-Isop4opyltolueneA	1.0A	UA	1.0A
sec-ButylbenzeneA	1.0A	UA	1.0A
StyreneA	1.0A	UA	1.0A
-ButylbenzeneA	1.0A	UA	1.0A
1,1,2,2-TetrAchloroetAaneA	1.0A	UA	1.0A
1,1,1,2-TetrAchloroetAaneA	1.0A	UA	1.0A
TetrAchloroetA neA	1.0A	UA	1.0A
TolueneA	1.0A	UA	1.0A
ans-1,2-DichloroetA neA	1.0A	UA	1.0A
ans-1,3-Dichlorop4opp4neA	1.0A	UA	1.0A
1,2,4-TrichlorobenzeneA	1.0A	UA	1.0A
1,2,3-TrichlorobenzeneA	1.0A	UA	1.0A
1,1,1-TrichloroetAaneA	1.0A	UA	1.0A
1,1,2-TrichloroetAaneA	1.0A	UA	1.0A
TrichloroetA neA	1.0A	UA	1.0A
TrichlorofluorometAaneA	1.0A	UA	1.0A
1,2,3-Trichlorop4opaneA	1.0A	UA	1.0A
1,2,4-TrimetAylbenzeneA	1.0A	UA	1.0A
1,3,5-TrimetAylbenzeneA	1.0A	UA	1.0A
Vinyl acetA.	2.0A	UA	2.0A
Vinyl chloridF	1.0A	UA	1.0A
Xylenes, TotAlA	2.0A	UA	2.0A

Surroga.	%Rec	QualifierA	cceAp4ance LimitsA
4-BromofluorobenzeneA	91A		75 - 120A
DibromofluorometAaneA	89J		75 - 121A
Toluene-d8 (Surr)A	96A		75 - 120A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-14 (09302010)d**

Lab Sample ID:A 680-61778-4U Da. S ampleA: 09/29/2010 1430A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182239J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0789.dF
Dilution:A	1.0A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/07/2010 1617A			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/07/2010 1617A				

n alyteA	Result (ug/L)	QualifierA	RLJ
cetoneA	25A	UA	25
BenzeneA	49J		1.0A
BromobenzeneA	1.0A	UA	1.0A
BromochlorometAaneA	1.0A	UA	1.0A
BromoformA	1.0A	UA	1.0A
BromometAaneA	1.0A	UA	1.0A
2-Butanone (MEK)A	10A	UA	10A
Ca.bon disulfidF	2.0A	UA	2.0A
Ca.bon tetrAchloridF	1.0A	UA	1.0A
ChlorobenzeneA	1.1A		1.0A
ChlorodibromometAaneA	1.0A	UA	1.0A
ChloroetAaneA	1.0A	UA	1.0A
ChloroformA	1.0A	UA	1.0A
ChlorometAaneA	1.0A	UA	1.0A
2-ChlorotolueneA	1.0A	UA	1.0A
4-ChlorotolueneA	1.0A	UA	1.0A
cis-1,2-DichloroetA neA	1.0A	UA	1.0A
cis-1,3-Dichlorop4bp4neA	1.0A	UA	1.0A
1,2-Dibromo-3-Chlorop4bpaneA	1.0A	UA	1.0A
1,2-DibromoetAaneA	1.0A	UA	1.0A
DibromometAaneA	1.0A	UA	1.0A
1,3-DichlorobenzeneA	1.0A	UA	1.0A
1,2-DichlorobenzeneA	1.0A	UA	1.0A
1,4-DichlorobenzeneA	1.0A	UA	1.0A
DichlorobromometAaneA	1.0A	UA	1.0A
DichlorodifluorometAaneA	1.0A	UA	1.0A
1,1-DichloroetAaneA	1.0A	UA	1.0A
1,2-DichloroetAaneA	15A		1.0A
1,1-DichloroetA neA	1.0A	UA	1.0A
1,2-DichloroetA ne, TotAalA	2.0A	UA	2.0A
1,2-Dichlorop4bpaneA	1.0A	UA	1.0A
2,2-Dichlorop4bpaneA	1.0A	UA	1.0A
1,3-Dichlorop4bpaneA	1.0A	UA	1.0A
1,1-Dichlorop4bp4neA	1.0A	UA	1.0A
DietAyl etA	700A	EA	10A
EtAylbenzeneA	1.0A	UA	1.0A
HexAachlorobutadieneA	1.0A	UA	1.0A
2-HexAanoneA	10A	UA	10A
Isop4bpylbenzeneA	1.0A	UA	1.0A
MN hylene ChloridF	5.0A	UA	5.0A
4-MN hyl-2-p4ntAanone (MIBK)A	10A	UA	10A
MN hyl tert-butyl etA	10A	UA	10A
m-Xylene & p-XyleneA	2.0A	UA	2.0A
Naph haleneA	5.0A	UA	5.0A
n-ButylbenzeneA	1.0A	UA	1.0A
N-P.opylbenzeneA	1.0A	UA	1.0A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-14 (09302010)d**

Lab Sample ID:A 680-61778-4U Da. S amplea: 09/29/2010 1430A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A 8260B Analysis Ba.ch: 680-182239J Instrument ID:A MSP
P. pa.a.ion:A 5030BA Lab File ID:A p0789.dF
Dilution:A 1.0A Initial WSg h /Volume:A 5 mLJ
Da. An alyzeda:A 10/07/2010 1617A Final WSg h /Volume:A 5 mLJ
Da. P. pa. d:A 10/07/2010 1617A

n alyteA	Result (ug/L)	QualifierA	RLJ
o-XyleneA	1.0A	UA	1.0A
p-Isop4opyltolueneA	1.0A	UA	1.0A
sec-ButylbenzeneA	1.0A	UA	1.0A
StyreneA	1.0A	UA	1.0A
-ButylbenzeneA	1.0A	UA	1.0A
1,1,2,2-TetrAchloroetAaneA	1.0A	UA	1.0A
1,1,1,2-TetrAchloroetAaneA	1.0A	UA	1.0A
TetrAchloroetA neA	1.0A	UA	1.0A
TolueneA	1.0A	UA	1.0A
ans-1,2-DichloroetA neA	1.0A	UA	1.0A
ans-1,3-Dichlorop4opp4neA	1.0A	UA	1.0A
1,2,4-TrichlorobenzeneA	1.0A	UA	1.0A
1,2,3-TrichlorobenzeneA	1.0A	UA	1.0A
1,1,1-TrichloroetAaneA	1.0A	UA	1.0A
1,1,2-TrichloroetAaneA	1.0A	UA	1.0A
TrichloroetA neA	3.9J		1.0A
TrichlorofluorometAaneA	1.0A	UA	1.0A
1,2,3-Trichlorop4opaneA	1.0A	UA	1.0A
1,2,4-TrimetAylbenzeneA	1.0A	UA	1.0A
1,3,5-TrimetAylbenzeneA	1.0A	UA	1.0A
Vinyl acetA.	2.0A	UA	2.0A
Vinyl chloridF	1.0A	UA	1.0A
Xylenes, TotAlA	2.0A	UA	2.0A

Surroga.	%Rec	QualifierA	cceAp4ance LimitsA
4-BromofluorobenzeneA	98A		75 - 120A
DibromofluorometAaneA	89J		75 - 121A
Toluene-d8 (Surr)A	99J		75 - 120A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-38 (09302010)d**

Lab Sample ID:A 680-61778-5A Da. S ampleA: 09/30/2010 1330A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A 8260B Analysis Ba.ch: 680-182149J Instrument ID:A MSP
P. pa.a.ion:A 5030BA Lab File ID:A p0759.dF
Dilution:A 1.0A Initial WSg h /Volume:A 5 mLJ
Da. An alyzedA: 10/06/2010 1852b Final WSg h /Volume:A 5 mLJ
Da. P. pa. d:A 10/06/2010 1852b

n alyteA	Result (ug/L)	QualifierA	RLJ
cetoneA	25A	UA	25
BenzeneA	1.0A	UA	1.0A
BromobenzeneA	1.0A	UA	1.0A
BromochlorometAaneA	1.0A	UA	1.0A
BromoformA	1.0A	UA	1.0A
BromometAaneA	1.0A	UA	1.0A
2-Butanone (MEK)A	10A	UA	10A
Ca.bon disulfidF	2.0A	UA	2.0A
Ca.bon tetrAachloridF	1.0A	UA	1.0A
ChlorobenzeneA	1.0A	UA	1.0A
ChlorodibromometAaneA	1.0A	UA	1.0A
ChloroetAaneA	1.0A	UA	1.0A
ChloroformA	1.0A	UA	1.0A
ChlorometAaneA	1.0A	UA	1.0A
2-ChlorotolueneA	1.0A	UA	1.0A
4-ChlorotolueneA	1.0A	UA	1.0A
cis-1,2-DichloroetA neA	1.0A	UA	1.0A
cis-1,3-Dichlorop4bp4neA	1.0A	UA	1.0A
1,2-Dibromo-3-Chlorop4bpaneA	1.0A	UA	1.0A
1,2-DibromoetAaneA	1.0A	UA	1.0A
DibromometAaneA	1.0A	UA	1.0A
1,3-DichlorobenzeneA	1.0A	UA	1.0A
1,2-DichlorobenzeneA	1.0A	UA	1.0A
1,4-DichlorobenzeneA	1.0A	UA	1.0A
DichlorobromometAaneA	1.0A	UA	1.0A
DichlorodifluorometAaneA	1.0A	UA	1.0A
1,1-DichloroetAaneA	1.0A	UA	1.0A
1,2-DichloroetAaneA	14U		1.0A
1,1-DichloroetA neA	1.0A	UA	1.0A
1,2-DichloroetA ne, TotAalA	2.0A	UA	2.0A
1,2-Dichlorop4bpaneA	1.0A	UA	1.0A
2,2-Dichlorop4bpaneA	1.0A	UA	1.0A
1,3-Dichlorop4bpaneA	1.0A	UA	1.0A
1,1-Dichlorop4bp4neA	1.0A	UA	1.0A
DietAyl etA	220	E A	10 A
EtAylbenzeneA	1.0A	UA	1.0A
HexAachlorobutadieneA	1.0A	UA	1.0A
2-HexAanoneA	10A	UA	10A
Isop4bpylbenzeneA	1.0A	UA	1.0A
MN hylene ChloridF	5.0A	UA	5.0A
4-MN hyl-2-p4ntAanone (MIBK)A	10A	UA	10A
MN hyl tert-butyl etA	10A	UA	10A
m-Xylene & p-XyleneA	2.0A	UA	2.0A
Naph haleneA	5.0A	UA	5.0A
n-ButylbenzeneA	1.0A	UA	1.0A
N-P.opylbenzeneA	1.0A	UA	1.0A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-38 (09302010)d**

Lab Sample ID:A 680-61778-5A Da. S ampleA: 09/30/2010 1330A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182149J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0759.dF
Dilution:A	1.0A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/06/2010 1852b			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/06/2010 1852b				

n alyteA	Result (ug/L)	QualifierA	RLJ
o-XyleneA	1.0A	UA	1.0A
p-Isop4opyltolueneA	1.0A	UA	1.0A
sec-ButylbenzeneA	1.0A	UA	1.0A
StyreneA	1.0A	UA	1.0A
-ButylbenzeneA	1.0A	UA	1.0A
1,1,2,2-TetrAchloroetAaneA	1.0A	UA	1.0A
1,1,1,2-TetrAchloroetAaneA	1.0A	UA	1.0A
TetrAchloroetA neA	1.0A	UA	1.0A
TolueneA	1.0A	UA	1.0A
ans-1,2-DichloroetA neA	1.0A	UA	1.0A
ans-1,3-Dichlorop4opp4neA	1.0A	UA	1.0A
1,2,4-TrichlorobenzeneA	1.0A	UA	1.0A
1,2,3-TrichlorobenzeneA	1.0A	UA	1.0A
1,1,1-TrichloroetAaneA	1.0A	UA	1.0A
1,1,2-TrichloroetAaneA	1.0A	UA	1.0A
TrichloroetA neA	1.0A	UA	1.0A
TrichlorofluorometAaneA	1.0A	UA	1.0A
1,2,3-Trichlorop4opaneA	1.0A	UA	1.0A
1,2,4-TrimetAylbenzeneA	1.0A	UA	1.0A
1,3,5-TrimetAylbenzeneA	1.0A	UA	1.0A
Vinyl acetA.	2.0A	UA	2.0A
Vinyl chloridF	1.0A	UA	1.0A
Xylenes, TotAlA	2.0A	UA	2.0A

Surroga.	%Rec	QualifierA	cceAp4ance LimitsA
4-BromofluorobenzeneA	94U		75 - 120A
DibromofluorometAaneA	89J		75 - 121A
Toluene-d8 (Surr)A	98A		75 - 120A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-39 (09302010)d**

Lab Sample ID:A 680-61778-6A Da. S ampleA: 09/30/2010 1015A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182149J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0761.dF
Dilution:A	1.0A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/06/2010 1921A			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/06/2010 1921A				

n alyteA	Result (ug/L)	QualifierA	RLJ
cetoneA	25A	UA	25
BenzeneA	1.0A	UA	1.0A
BromobenzeneA	1.0A	UA	1.0A
BromochlorometAaneA	1.0A	UA	1.0A
BromoformA	1.0A	UA	1.0A
BromometAaneA	1.0A	UA	1.0A
2-Butanone (MEK)A	10A	UA	10A
Ca.bon disulfidF	2.0A	UA	2.0A
Ca.bon tetrAachloridF	1.0A	UA	1.0A
ChlorobenzeneA	1.0A	UA	1.0A
ChlorodibromometAaneA	1.0A	UA	1.0A
ChloroetAaneA	1.0A	UA	1.0A
ChloroformA	1.0A	UA	1.0A
ChlorometAaneA	1.0A	UA	1.0A
2-ChlorotolueneA	1.0A	UA	1.0A
4-ChlorotolueneA	1.0A	UA	1.0A
cis-1,2-DichloroetA neA	1.0A	UA	1.0A
cis-1,3-Dichlorop4bp4neA	1.0A	UA	1.0A
1,2-Dibromo-3-Chlorop4bpaneA	1.0A	UA	1.0A
1,2-DibromoetAaneA	1.0A	UA	1.0A
DibromometAaneA	1.0A	UA	1.0A
1,3-DichlorobenzeneA	1.0A	UA	1.0A
1,2-DichlorobenzeneA	1.0A	UA	1.0A
1,4-DichlorobenzeneA	1.0A	UA	1.0A
DichlorobromometAaneA	1.0A	UA	1.0A
DichlorodifluorometAaneA	1.0A	UA	1.0A
1,1-DichloroetAaneA	1.0A	UA	1.0A
1,2-DichloroetAaneA	1.0A	UA	1.0A
1,1-DichloroetA neA	1.0A	UA	1.0A
1,2-DichloroetA ne, TotAalA	2.0A	UA	2.0A
1,2-Dichlorop4bpaneA	1.0A	UA	1.0A
2,2-Dichlorop4bpaneA	1.0A	UA	1.0A
1,3-Dichlorop4bpaneA	1.0A	UA	1.0A
1,1-Dichlorop4bp4neA	1.0A	UA	1.0A
DietAyl etA	10A	UA	10A
EtAylbenzeneA	1.0A	UA	1.0A
HexAachlorobutadieneA	1.0A	UA	1.0A
2-HexAanoneA	10A	UA	10A
Isop4bpylbenzeneA	1.0A	UA	1.0A
MN hylene ChloridF	5.0A	UA	5.0A
4-MN hyl-2-p4ntAanone (MIBK)A	10A	UA	10A
MN hyl tert-butyl etA	10A	UA	10A
m-Xylene & p-XyleneA	2.0A	UA	2.0A
Naph haleneA	5.0A	UA	5.0A
n-ButylbenzeneA	1.0A	UA	1.0A
N-P.opylbenzeneA	1.0A	UA	1.0A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-39 (09302010)d**

Lab Sample ID:A 680-61778-6A Da. S ampleA: 09/30/2010 1015A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182149J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0761.dF
Dilution:A	1.0A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/06/2010 1921A			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/06/2010 1921A				

n alyteA	Result (ug/L)	QualifierA	RLJ
o-XyleneA	1.0A	UA	1.0A
p-Isop4opyltolueneA	1.0A	UA	1.0A
sec-ButylbenzeneA	1.0A	UA	1.0A
StyreneA	1.0A	UA	1.0A
-ButylbenzeneA	1.0A	UA	1.0A
1,1,2,2-TetrAchloroetAaneA	1.0A	UA	1.0A
1,1,1,2-TetrAchloroetAaneA	1.0A	UA	1.0A
TetrAchloroetA neA	1.0A	UA	1.0A
TolueneA	1.0A	UA	1.0A
ans-1,2-DichloroetA neA	1.0A	UA	1.0A
ans-1,3-Dichlorop4opp4neA	1.0A	UA	1.0A
1,2,4-TrichlorobenzeneA	1.0A	UA	1.0A
1,2,3-TrichlorobenzeneA	1.0A	UA	1.0A
1,1,1-TrichloroetAaneA	1.0A	UA	1.0A
1,1,2-TrichloroetAaneA	1.0A	UA	1.0A
TrichloroetA neA	1.0A	UA	1.0A
TrichlorofluorometAaneA	1.0A	UA	1.0A
1,2,3-Trichlorop4opaneA	1.0A	UA	1.0A
1,2,4-TrimetAylbenzeneA	1.0A	UA	1.0A
1,3,5-TrimetAylbenzeneA	1.0A	UA	1.0A
Vinyl acetA.	2.0A	UA	2.0A
Vinyl chloridF	1.0A	UA	1.0A
Xylenes, TotAlA	2.0A	UA	2.0A

Surroga.	%Rec	QualifierA	cceAp4ance LimitsA
4-BromofluorobenzeneA	95A		75 - 120A
DibromofluorometAaneA	87A		75 - 121A
Toluene-d8 (Surr)A	96A		75 - 120A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **Trip Blankd**

Lab Sample ID:A 680-61778-7A Da. S ampleA: 09/30/2010 0000A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A 8260B Analysis Ba.ch: 680-182149J Instrument ID:A MSP
P. pa.a.ion:A 5030BA Lab File ID:A p0749.dF
Dilution:A 1.0A Initial WSg h /Volume:A 5 mLJ
Da. An alyzedA: 10/06/2010 1625A Final WSg h /Volume:A 5 mLJ
Da. P. pa. d:A 10/06/2010 1625A

n alyteA	Result (ug/L)	QualifierA	RLJ
cetoneA	25A	UA	25
BenzeneA	1.0A	UA	1.0A
BromobenzeneA	1.0A	UA	1.0A
BromochlorometAaneA	1.0A	UA	1.0A
BromoformA	1.0A	UA	1.0A
BromometAaneA	1.0A	UA	1.0A
2-Butanone (MEK)A	10A	UA	10A
Ca.bon disulfidF	2.0A	UA	2.0A
Ca.bon tetrAachloridF	1.0A	UA	1.0A
ChlorobenzeneA	1.0A	UA	1.0A
ChlorodibromometAaneA	1.0A	UA	1.0A
ChloroetAaneA	1.0A	UA	1.0A
ChloroformA	1.0A	UA	1.0A
ChlorometAaneA	1.0A	UA	1.0A
2-ChlorotolueneA	1.0A	UA	1.0A
4-ChlorotolueneA	1.0A	UA	1.0A
cis-1,2-DichloroetA neA	1.0A	UA	1.0A
cis-1,3-Dichlorop4bp4neA	1.0A	UA	1.0A
1,2-Dibromo-3-Chlorop4bpaneA	1.0A	UA	1.0A
1,2-DibromoetAaneA	1.0A	UA	1.0A
DibromometAaneA	1.0A	UA	1.0A
1,3-DichlorobenzeneA	1.0A	UA	1.0A
1,2-DichlorobenzeneA	1.0A	UA	1.0A
1,4-DichlorobenzeneA	1.0A	UA	1.0A
DichlorobromometAaneA	1.0A	UA	1.0A
DichlorodifluorometAaneA	1.0A	UA	1.0A
1,1-DichloroetAaneA	1.0A	UA	1.0A
1,2-DichloroetAaneA	1.0A	UA	1.0A
1,1-DichloroetA neA	1.0A	UA	1.0A
1,2-DichloroetA ne, TotAalA	2.0A	UA	2.0A
1,2-Dichlorop4bpaneA	1.0A	UA	1.0A
2,2-Dichlorop4bpaneA	1.0A	UA	1.0A
1,3-Dichlorop4bpaneA	1.0A	UA	1.0A
1,1-Dichlorop4bp4neA	1.0A	UA	1.0A
DietAyl etA	10A	UA	10A
EtAylbenzeneA	1.0A	UA	1.0A
HexAachlorobutadieneA	1.0A	UA	1.0A
2-HexAanoneA	10A	UA	10A
Isop4bpylbenzeneA	1.0A	UA	1.0A
MN hylene ChloridF	5.0A	UA	5.0A
4-MN hyl-2-p4ntAanone (MIBK)A	10A	UA	10A
MN hyl tert-butyl etA	10A	UA	10A
m-Xylene & p-XyleneA	2.0A	UA	2.0A
Naph haleneA	5.0A	UA	5.0A
n-ButylbenzeneA	1.0A	UA	1.0A
N-P.opylbenzeneA	1.0A	UA	1.0A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **Trip Blankd**

Lab Sample ID:A 680-61778-7A Da. S ampleA: 09/30/2010 0000A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

MN hod:A	8260B	Analysis Ba.ch: 680-182149J		Instrument ID:A	MSP
P. pa.a.ion:A	5030BA			Lab File ID:A	p0749.dF
Dilution:A	1.0A			Initial WSg h /Volume:A	5 mLJ
Da. An alyzedA:	10/06/2010 1625A			Final WSg h /Volume:A	5 mLJ
Da. P. pa. d:A	10/06/2010 1625A				

n alyteA	Result (ug/L)	QualifierA	RLJ
o-XyleneA	1.0A	UA	1.0A
p-Isop4opyltolueneA	1.0A	UA	1.0A
sec-ButylbenzeneA	1.0A	UA	1.0A
StyreneA	1.0A	UA	1.0A
-ButylbenzeneA	1.0A	UA	1.0A
1,1,2,2-TetrAchloroetAaneA	1.0A	UA	1.0A
1,1,1,2-TetrAchloroetAaneA	1.0A	UA	1.0A
TetrAchloroetA neA	1.0A	UA	1.0A
TolueneA	1.0A	UA	1.0A
ans-1,2-DichloroetA neA	1.0A	UA	1.0A
ans-1,3-Dichlorop4opp4neA	1.0A	UA	1.0A
1,2,4-TrichlorobenzeneA	1.0A	UA	1.0A
1,2,3-TrichlorobenzeneA	1.0A	UA	1.0A
1,1,1-TrichloroetAaneA	1.0A	UA	1.0A
1,1,2-TrichloroetAaneA	1.0A	UA	1.0A
TrichloroetA neA	1.0A	UA	1.0A
TrichlorofluorometAaneA	1.0A	UA	1.0A
1,2,3-Trichlorop4opaneA	1.0A	UA	1.0A
1,2,4-TrimetAylbenzeneA	1.0A	UA	1.0A
1,3,5-TrimetAylbenzeneA	1.0A	UA	1.0A
Vinyl acetA.	2.0A	UA	2.0A
Vinyl chloridF	1.0A	UA	1.0A
Xylenes, TotAlA	2.0A	UA	2.0A

Surroga.	%Rec	QualifierA	cceAp4ance LimitsA
4-BromofluorobenzeneA	934		75 - 120A
DibromofluorometAaneA	88A		75 - 121A
Toluene-d8 (Surr)A	96A		75 - 120A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-1 (09302010)d**

Lab Sample ID:A 680-61778-1A Da. S amplecA: 09/30/2010 1230A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

6010C Metals (ICP)-Total Recoverabled

MN hod:A	6010C	n alysis Ba.ch: 680-183127A		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	1015101039.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/15/2010 2147A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
senicA	20A	UA	20
Ba.iumA	27A		10
CadmiumA	5.0A	UA	5.0A
Ch omiumA	10A	UA	10A
IronA	5100A		50A
LJadF	10A	UA	10A
SeleniumA	20A	UA	20A
Silvc	10A	UA	10A

MN hod:A	6010C	n alysis Ba.ch: 680-183394U		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	18276961778.ch
Dilution:A	10A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/18/2010 2009J			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
SodiumA	240000A		10000A

7470A Mercury (CVAA)d

MN hod:A	7470A	nalysis Ba.ch: 680-182280A		Instrument ID:A	LEEMAN1
P. pa.a.ion:A	7470A	P. p Ba.ch: 680-1821034		Lab File ID:A	b100710a.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/07/2010 1251A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/06/2010 1220A				

n alyteA	Result (ug/L)A	QualifierA	RLJ
MNcuryA	0.20A	UA	0.20A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-2 (09302010)d**

Lab Sample ID:A 680-61778-2b Da. S amplecA: 09/30/2010 1115A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

6010C Metals (ICP)-Total Recoverabled

MN hod:A	6010C	n alysis Ba.ch: 680-183127A		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	1015101039.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/15/2010 22134			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
senicA	20A	UA	20
Ba.iumA	21A		10
CadmiumA	5.0A	UA	5.0A
Ch omiumA	10A	UA	10A
IronA	5900A		50A
LJadF	10A	UA	10A
SeleniumA	20A	UA	20A
Silvc	10A	UA	10A
SodiumA	67000A		1000A

7470A Mercury (CVAA)d

MN hod:A	7470A	nalysis Ba.ch: 680-182280A		Instrument ID:A	LEEMAN1
P. pa.a.ion:A	7470A	P. p Ba.ch: 680-1821034		Lab File ID:A	b100710a.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/07/2010 1254U			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/06/2010 1220A				

n alyteA	Result (ug/L)A	QualifierA	RLJ
MNcuryA	0.20A	UA	0.20A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-3 (09302010)d**

Lab Sample ID:A 680-61778-34 Da. S amplecA: 09/29/2010 1645A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

6010C Metals (ICP)-Total Recoverabled

MN hod:A	6010C	n alysis Ba.ch: 680-183127A		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	1015101039.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/15/2010 2218A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
senicA	20A	UA	20
Ba.iumA	220A		10
CadmiumA	5.0A	UA	5.0A
Ch omiumA	150A		10A
IronA	980A		50A
LJadF	10A	UA	10A
SeleniumA	20A	UA	20A
Silvc	10A	UA	10A

MN hod:A	6010C	n alysis Ba.ch: 680-183394U		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	18276961778.ch
Dilution:A	10A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/18/2010 2024U			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
SodiumA	73000A		10000A

7470A Mercury (CVAA)d

MN hod:A	7470A	nalysis Ba.ch: 680-182280A		Instrument ID:A	LEEMAN1
P. pa.a.ion:A	7470A	P. p Ba.ch: 680-1821034		Lab File ID:A	b100710a.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedA:A	10/07/2010 1256A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/06/2010 1220A				

n alyteA	Result (ug/L)A	QualifierA	RLJ
MNcuryA	0.20A	UA	0.20A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-14 (09302010)d**

Lab Sample ID:A 680-61778-4U Da. S amplecA: 09/29/2010 1430A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

6010C Metals (ICP)-Total Recoverabled

MN hod:A	6010C	n alysis Ba.ch: 680-183127A		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	1015101039.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedcA	10/15/2010 2224U			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
senicA	20A	UA	20
Ba.iumA	31A		10
CadmiumA	5.0A	UA	5.0A
Ch omiumA	10A	UA	10A
IronA	340A		50
LJadF	10A	UA	10A
SeleniumA	20A	UA	20A
Silvc	10A	UA	10A
SodiumA	19000A		1000A

7470A Mercury (CVAA)d

MN hod:A	7470A	nalysis Ba.ch: 680-182280A		Instrument ID:A	LEEMAN1
P. pa.a.ion:A	7470A	P. p Ba.ch: 680-1821034		Lab File ID:A	b100710a.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzedcA	10/07/2010 1306A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/06/2010 1220A				

n alyteA	Result (ug/L)A	QualifierA	RLJ
MNcuryA	0.20A	UA	0.20A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-38 (09302010)d**

Lab Sample ID:A 680-61778-5A Da. S amplea: 09/30/2010 1330A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

6010C Metals (ICP)-Total Recoverabled

MN hod:A	6010C	n alysis Ba.ch: 680-183127A		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	1015101039.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzeA:	10/15/2010 2240A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
senicA	20A	UA	20
Ba.iumA	434		10A
CadmiumA	5.0A	UA	5.0A
Ch omiumA	15A		10A
IronA	11000A		50A
LJadF	10A	UA	10A
SeleniumA	20A	UA	20A
Silvc	10A	UA	10A
SodiumA	41000A		1000A

7470A Mercury (CVAA)d

MN hod:A	7470A	nalysis Ba.ch: 680-182280A		Instrument ID:A	LEEMAN1
P. pa.a.ion:A	7470A	P. p Ba.ch: 680-1821034		Lab File ID:A	b100710a.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzeA:	10/07/2010 1308A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/06/2010 1220A				

n alyteA	Result (ug/L)A	QualifierA	RLJ
MNcuryA	0.20A	UA	0.20A

Client: ARCADIS U.S., Inc.A Job Number: 680-61778-1A

Client Sample ID:d **MW-39 (09302010)d**

Lab Sample ID:A 680-61778-6A Da. S amplea: 09/30/2010 1015A
Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941A

6010C Metals (ICP)-Total Recoverabled

MN hod:A	6010C	n alysis Ba.ch: 680-183127A		Instrument ID:A	ICPD
P. pa.a.ion:A	3005A	P. p Ba.ch: 680-182769J		Lab File ID:A	1015101039.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzeA:	10/15/2010 2245A			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/13/2010 09534				

n alyteA	Result (ug/L)A	QualifierA	RLJ
senicA	20A	UA	20
Ba.iumA	89J		10A
CadmiumA	5.9J		5.0A
Ch omiumA	134		10A
IronA	2000A		50A
LJadF	10A	UA	10A
SeleniumA	20A	UA	20A
Silvc	10A	UA	10A
SodiumA	25000A		1000A

7470A Mercury (CVAA)d

MN hod:A	7470A	nalysis Ba.ch: 680-182280A		Instrument ID:A	LEEMAN1
P. pa.a.ion:A	7470A	P. p Ba.ch: 680-1821034		Lab File ID:A	b100710a.ch
Dilution:A	1.0A			Initial WSg h /Volume:A	50 mLJ
Da. An alyzeA:	10/07/2010 1312b			Final WSg h /Volume:A	50 mLJ
Da. P. pa. d:A	10/06/2010 1220A				

n alyteA	Result (ug/L)A	QualifierA	RLJ
MNcuryA	0.20A	UA	0.20A

General Chemistryd

Client Sample ID:d **MW-1 (09302010)d**

Lab Sample ID:A 680-61778-1A Da. S amplea: 09/30/2010 1230A

Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941

AnalyteA	ResultA	QualA	UnitsA	RLJ	DilA	MN hodF
Sulfa.	260A		mg/LJ	100A	20A	9038

n alysis Ba.ch: 680-182274U Da. An alyzea: 10/07/2010 1222b

General Chemistryd

Client Sample ID:d **MW-2 (09302010)d**

Lab Sample ID:A 680-61778-2b Da. S amplea: 09/30/2010 1115A

Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941

AnalyteA	ResultA	QualA	UnitsA	RLJ	DilA	MN hodF
Sulfa.	310A		mg/LJ	100A	20A	9038

n alysis Ba.ch: 680-182274U Da. An alyzea: 10/07/2010 1222b

General Chemistryd

Client Sample ID:d **MW-3 (09302010)d**

Lab Sample ID:A 680-61778-34 Da. S amplea: 09/29/2010 1645A

Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941

AnalyteA	ResultA	QualA	UnitsA	RLJ	DilA	MN hodF
Sulfa.	61A		mg/LJ	25A	5.0A	9038

n alysis Ba.ch: 680-182274U Da. An alyzea: 10/07/2010 1131A

General Chemistryd

Client Sample ID:d **MW-14 (09302010)d**

Lab Sample ID:A 680-61778-4U Da. S amplea: 09/29/2010 1430A

Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941

AnalyteA	ResultA	QualA	UnitsA	RLJ	DilA	MN hodF
Sulfa.	18A		mg/LJ	5.0A	1.0A	9038

n alysis Ba.ch: 680-182274U Da. An alyzea: 10/07/2010 1105A

General Chemistryd

Client Sample ID:d **MW-38 (09302010)d**

Lab Sample ID:A 680-61778-5A Da. S amplea: 09/30/2010 1330A

Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941

AnalyteA	ResultA	QualA	UnitsA	RLJ	DilA	MN hodF
Sulfa.	28A		mg/LJ	5.0A	1.0A	9038

n alysis Ba.ch: 680-182274U Da. An alyzea: 10/07/2010 1105A

General Chemistryd

Client Sample ID:d **MW-39 (09302010)d**

Lab Sample ID:A 680-61778-6A Da. S amplea: 09/30/2010 1015A

Client Ma. ix:A Wa. Da. Recei vcd: 10/01/2010 0941

AnalyteA	ResultA	QualA	UnitsA	RLJ	DilA	MN hodF
Sulfa.	134		mg/LJ	5.0A	1.0A	9038

n alysis Ba.ch: 680-182274U Da. An alyzea: 10/07/2010 1106A

D T R PORT N U LIFa RSh

Client: ARCADIS U.S., Inc.A

Job Number: 680-61778-1A

Lab Sectionp	u alifierM	Descriptionp
GC/MS VON		
	UA	IndicA s tA1A nAlyN wNs AnAlyz. d for but not dT cteAd.A
	ET	ResAult exAceeded calibration range.T
MetalsT		
	UT	Indicates the analyte was analyzed for but not detected.T
	4T	MS, MSD: The analyte present in the original sample is 4 T mes greater than the matrix spike concentration; therefore, T control limits are not applicable.T
General ChemistryT		
	UT	Indicates the analyte was analyzed for but not detected.T

Method Blank - Batch: 680-182149l **Method: 8260Bv**
Preparation: 5030Bv

Lab SamplT IT	MB 680-1) 2149/12b	n alysis Batch.	680-1) 2149.	InstTument IT	MSP
CliFnt MatTrixT	WatT	P p Batch.	N/T	Lab FilT IT	pq3F1.dF
i lutionF	1.0.	Units	b ug/LF	Initial WFight/Volume:.	5 mLF
atT. n alyzFdF	10/06/2010 1329.			Final WFight/Volume:.	5 mLF
atT P paT dF	10/06/2010 1329.				

nalytT	sultT	QualT	LF
cTtonF	25T	UT	25T
B. nzFnF	1.0.	UT	1.0.
B.omobenzFnF	1.0.	UT	1.0.
B.omochloromethanF	1.0.	UT	1.0.
B.omoform.	1.0.	UT	1.0.
B.omomethanF	1.0.	UT	1.0.
2-ButanonF (MEK)T	10.	UT	10.
CaTbon disulfidF	2.0.	UT	2.0.
CaTbon tTtTachloridF	1.0.	UT	1.0.
ChlorobenzFnF	1.0.	UT	1.0.
ChlorodibromomethanF	1.0.	UT	1.0.
ChloroethanF	1.0.	UT	1.0.
Chloroform.	1.0.	UT	1.0.
ChloromethanF	1.0.	UT	1.0.
2-ChlorotoluenF	1.0.	UT	1.0.
4-ChlorotoluenF	1.0.	UT	1.0.
cis-1,2-.i chloroeth. nF	1.0.	UT	1.0.
cis-1,3-.i chloropFopFnF	1.0.	UT	1.0.
1,2-.i bromo-3-ChloropFopanF	1.0.	UT	1.0.
1,2-.i bromoethanF	1.0.	UT	1.0.
i bromomethanF	1.0.	UT	1.0.
1,3-.i chlorobenzFnF	1.0.	UT	1.0.
1,2-.i chlorobenzFnF	1.0.	UT	1.0.
1,4-.i chlorobenzFnF	1.0.	UT	1.0.
i chlorobromomethanF	1.0.	UT	1.0.
i chlorodifluoromethanF	1.0.	UT	1.0.
1,1-.i chloroethanF	1.0.	UT	1.0.
1,2-.i chloroethanF	1.0.	UT	1.0.
1,1-.i chloroeth. nF	1.0.	UT	1.0.
1,2-.i chloroeth. nF, TotalT	2.0.	UT	2.0.
1,2-.i chloropFopanF	1.0.	UT	1.0.
2,2-.i chloropFopanF	1.0.	UT	1.0.
1,3-.i chloropFopanF	1.0.	UT	1.0.
1,1-.i chloropFopFnF	1.0.	UT	1.0.
iF thyl eth.	10.	UT	10.
EthylbenzFnF	1.0.	UT	1.0.
HTxachlorobutadiFnF	1.0.	UT	1.0.
2-HTxanonF	10.	UT	10.
IsopFopylbenzFnF	1.0.	UT	1.0.
MTthylTnF ChloridF	5.0.	U	5.0.
4-MTthyl-2-pFntanonF (MIBK)T	10.	UT	10.
MTthyl tT t-butyl eth.	10.	UT	10.
m-XylTnF & p-XylTnF	2.0.	UT	2.0.

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

Method Blank - Batch: 680-182149l **Method: 8260Bv**
Preparatcbn: 5030Bv

Lab SamplT IT	MB 680-1) 2149/12b	n alysis Batch.	680-1) 2149.	InstTument IT	MSP
CliFnt MatTixT	WatT	P p Batch.	N/T	Lab FilT IT	pq3F1.dF
i lutionF	1.0.	Unitsb	ug/LF	Initial WFight/Volume:.	5 mLF
atT. n alyzFdF	10/06/2010 1329.			Final WFight/Volume:.	5 mLF
atT P paT dF	10/06/2010 1329.				

nalytT	sultT	QualT	LF
NaphthalTnF	5.0.	UT	5.0.
n-ButylbenzFnF	1.0.	UT	1.0.
N-P opylbenzFnF	1.0.	UT	1.0.
o-XylTnF	1.0.	UT	1.0.
p-IsopRopyltoluenF	1.0.	UT	1.0.
sbc-ButylbenzFnF	1.0.	UT	1.0.
StyT nF	1.0.	UT	1.0.
tT t-ButylbenzFnF	1.0.	UT	1.0.
1,1,2,2-TTtTachloroethanF	1.0.	UT	1.0.
1,1,1,2-TTtTachloroethanF	1.0.	UT	1.0.
TTtTachloroeth. nF	1.0.	UT	1.0.
ToluenF	1.0.	UT	1.0.
tTans-1,2-.i chloroeth. nF	1.0.	UT	1.0.
tTans-1,3-.i chloropRopFnF	1.0.	UT	1.0.
1,2,4-TTichlorobenzFnF	1.0.	UT	1.0.
1,2,3-TTichlorobenzFnF	1.0.	UT	1.0.
1,1,1-TTichloroethanF	1.0.	UT	1.0.
1,1,2-TTichloroethanF	1.0.	UT	1.0.
TTichloroeth. nF	1.0.	UT	1.0.
TTichlorofluoromethanF	1.0.	UT	1.0.
1,2,3-TTichloropRopanF	1.0.	UT	1.0.
1,2,4-TTimethylbenzFnF	1.0.	UT	1.0.
1,3,5-TTimethylbenzFnF	1.0.	UT	1.0.
Vinyl acTtatT	2.0.	UT	2.0.
Vinyl chloridF	1.0.	UT	1.0.
XylTnFs, TotalT	2.0.	UT	2.0.

SurrogatT	% . cT	ccTptancT Limitsb
4-B.omofluorobenzFnF	93F	75 - 120.
i bromofluoromethanF	90.	75 - 121)
ToluenF- dF (Surr)T	97)	75 - 120.

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

LabUControldSample/U **Method: 8260Bv**
LabUControldSampleVDUpldcateVRecovery ReportdBatch: 680-182149l **Preparatdon: 5030Bv**

LCS Lab SamplT IT	LCS 680-1) 2149/9.	n alysis Batch. 680-1) 2149.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq373.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/06/2010 1132b		Final WFight/Volume:. 5 mLF
atT P paT dF	10/06/2010 1132b		

LCST Lab SamplT IT	LCST 680-1) 2149/10.	n alysis Batch. 680-1) 2149.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq375.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/06/2010 1201)		Final WFight/Volume:. 5 mLF
atT P paT dF	10/06/2010 1201)		

		% . c.					
nalytT	LCST	LCST	LimitT	P	P LimitT	LCS QualT	LCST QualT
cTtonF	91)	7)	17 - 175T		50.		
B. nzFnF	99.	97)	77 - 119.	2b	30.		
B.omobenzFnF	93F	92b	0 - 124.	2b	30.		
B.omochloromethanF	95T	95T	10 - 150.	1)	30.		
B.omoform.	103F	101)	2 - 133F	2b	30.		
B.omomethanF	157)	151)	12 - 1) 4.	4.	50.		
2-ButanonF (MEK)T	104.	103F	33 - 157)	1)	30.		
CaTbon disulfidF	95T	94.	55 - 131)	1)	30.		
CaTbon tTtTachloridF	117)	114.	71 - 135T	3F	30.		
ChlorobenzFnF	9.	9.	5 - 11)	0.	30.		
ChlorodibromomethanF	107)	106.	75 - 133F	1)	30.		
ChloroethanF	12b	117)	40 - 1) 5T	7)	50.		
Chloroform.	100.	99.	2 - 120.	1)	30.		
ChloromethanF	107)	103F	4. - 142b	4.	50.		
2-ChlorotoluenF	9.	95T	2 - 123F	1)	30.		
4-ChlorotoluenF	9.	9.	3 - 122b	0.	30.		
cis-1,2-.i chloroeth. nF	9.	93F	9 - 134.	4.	30.		
cis-1,3-.i chloropFopFnF	107)	107)	7) - 12b	0.	30.		
1,2-.i bromo-3-ChloropFopanF	93F	92b	49 - 140.	2b	30.		
1,2-.i bromoethanF	9.	95T	0 - 121)	1)	30.		
i bromomethanF	95T	94.	7) - 119.	2b	30.		
1,3-.i chlorobenzFnF	95T	9.	7) - 125T	1)	30.		
1,2-.i chlorobenzFnF	94.	94.	79 - 124.	0.	30.		
1,4-.i chlorobenzFnF	9.	97)	1 - 122b	1)	30.		
i chlorobromomethanF	109.	108.	7) - 127)	1)	30.		
i chlorodifluoromethanF	9.	7)	34 - 154.	2b	30.		
1,1-.i chloroethanF	100.	99.	74 - 127)	1)	30.		
1,2-.i chloroethanF	9.	97)	- 132b	0.	30.		
1,1-.i chloroeth. nF	9.	94.	2 - 141)	2b	30.		
1,2-.i chloroeth. nF, TotalT	97)	94.	- 134.	3F	30.		
1,2-.i chloropFopanF	102b	100.	73 - 124.	2b	30.		
2,2-.i chloropFopanF	108.	106.	55 - 157)	2b	30.		
1,3-.i chloropFopanF	9.	9.	75 - 120.	1)	30.		

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

LabUControldSample/U **Method: 8260Bv**
LabUControldSampleVDUpldcateVRecovery ReportdBatch: 680-182149l **Preparatdon: 5030Bv**

LCS Lab SamplT IT	LCS 680-1) 2149/9.	n alysis Batch. 680-1) 2149.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq373.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/06/2010 1132b		Final WFight/Volume:. 5 mLF
atT P paT dF	10/06/2010 1132b		

LCST Lab SamplT IT	LCST 680-1) 2149/10.	n alysis Batch. 680-1) 2149.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq375.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/06/2010 1201)		Final WFight/Volume:. 5 mLF
atT P paT dF	10/06/2010 1201)		

	% . c.					
nalytT	LCST	LCST	LimitT	P	P LimitT	LCS QualT LCST QualT
1,1-.i chloropFopFnF	104.	102b	77 - 122b	1)	30.	
EthylbenzFnF	100.	99.	- 11)	1)	30.	
HTxachlorobutadiFnF	99.	100.	2 - 142b	2b	30.	
2-HTxanonF	9.	97)	34 - 1) 1)	1)	30.	
IsopFopylbenzFnF	99.	99.	2 - 121)	0.	30.	
MTthylTnF ChloridF	93F	93F	70 - 125T	0.	30.	
4-MTthyl-2-pFntanonF (MIBK)T	99.	9.	40 - 151)	1)	30.	
MTthyl tT t-butyl eth.	95T	94.	77 - 121)	1)	30.	
m-XylTnF & p-XylTnF	9.	9.	3 - 11)	0.	30.	
NaphthalTnF	123F	127)	4. - 135T	3F	30.	
n-ButylbenzFnF	11)	120.	4 - 13F	2b	30.	
N-P opylbenzFnF	97)	9.	0 - 12b	1)	30.	
o-XylTnF	108.	108.	3 - 119.	0.	30.	
p-IsopFopyltoluenF	101)	103F	3 - 139.	2b	30.	
sbc-ButylbenzFnF	101)	101)	77 - 12b	0.	30.	
StyT nF	9.	9.	2 - 122b	1)	30.	
tT t-ButylbenzFnF	9.	99.	0 - 124.	1)	30.	
1,1,2,2-TTtTachloroethanF	94.	94.	9 - 129.	0.	30.	
1,1,1,2-TTtTachloroethanF	107)	108.	1 - 12b	1)	30.	
TTtTachloroeth. nF	93F	94.	7) - 12b	1)	30.	
ToluenF	100.	9.	1 - 117)	1)	30.	
tTans-1,2-.i chloroeth. nF	97)	94.	72 - 131)	3F	30.	
tTans-1,3-.i chloropFopFnF	107)	107)	73 - 12b	0.	30.	
1,2,4-TTichlorobenzFnF	9.	101)	0 - 135T	2b	30.	
1,2,3-TTichlorobenzFnF	99.	103F	0 - 132b	5T	30.	
1,1,1-TTichloroethanF	107)	107)	7) - 127)	0.	30.	
1,1,2-TTichloroethanF	100.	9.	75 - 121)	2b	30.	
TTichloroeth. nF	9.	97)	4 - 115T	1)	30.	
TTichlorofluoromethanF	115T	113F	5T- 149.	2b	50.	
1,2,3-TTichloropFopanF	91)	91)	70 - 130.	1)	30.	
1,2,4-TTimethylbenzFnF	105T	104.	72 - 132b	0.	30.	
1,3,5-TTimethylbenzFnF	9.	99.	72 - 133F	1)	30.	
Vinyl acTtatT	105T	103F	10 - 217)	2b	30.	

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

LabU Controld Sample/U **Method: 8260Bv**
LabU Controld SampleVDUplocateVRecovery Reportd- Batch: 680-182149l **Preparatcbn: 5030Bv**

LCS Lab SamplT IT	LCS 680-1) 2149/9.	n alysis Batch. 680-1) 2149.	InstTument IT MSP
CliFnt MatTix T	WatT	P p Batch. N/T	Lab FilT IT pq373.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/06/2010 1132b		Final WFight/Volume:. 5 mLF
atT P paT dF	10/06/2010 1132b		

LCST Lab SamplT IT	LCST 680-1) 2149/10.	n alysis Batch. 680-1) 2149.	InstTument IT MSP
CliFnt MatTix T	WatT	P p Batch. N/T	Lab FilT IT pq375.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/06/2010 1201)		Final WFight/Volume:. 5 mLF
atT P paT dF	10/06/2010 1201)		

	% . c.					
nalytT	LCST	LCST	LimitT	P	P LimitT	LCS QualT LCST QualT
Vinyl chloridF	111)	109.	59 - 144.	1)	50.	
XylTnFs, TotalT	101)	101)	4 - 11)	0.	30.	

SurrogatT	LCS % . cT	LCST % . cT	ccTptancT Limitsb
4-B.omofluorobenzFnF	9.	97)	75 - 120.
i bromofluoromethanF	93F	92b	75 - 121)
ToluenF- dF (Surr)T	99.	9.	75 - 120.

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

Method Blank - Batch: 680-182239l **Method: 8260Bv**
Preparation: 5030Bv

Lab SamplT IT MB 680-1) 2239/T
CliFnt MatTrxT WatT
i lutionF 1.0.
atT. n alyzFdF 10/07/2010 1153F
atT P paT dF 10/07/2010 1153F

n alysis Batch. 680-1) 2239.
P p Batch. N/T
Unitsb ug/LF

InstTument IT MSP
Lab FilT IT pq395.dF
Initial WFight/Volume:. 5 mLF
Final WFight/Volume:. 5 mLF

nalytT	sultT	QualT	LF
cTtonF	25T	UT	25T
B. nzFnF	1.0.	UT	1.0.
B.omobenzFnF	1.0.	UT	1.0.
B.omochloromethanF	1.0.	UT	1.0.
B.omoform.	1.0.	UT	1.0.
B.omomethanF	1.0.	UT	1.0.
2-ButanonF (MEK)T	10.	UT	10.
CaTbon disulfidF	2.0.	UT	2.0.
CaTbon tTtTachloridF	1.0.	UT	1.0.
ChlorobenzFnF	1.0.	UT	1.0.
ChlorodibromomethanF	1.0.	UT	1.0.
ChloroethanF	1.0.	UT	1.0.
Chloroform.	1.0.	UT	1.0.
ChloromethanF	1.0.	UT	1.0.
2-ChlorotoluenF	1.0.	UT	1.0.
4-ChlorotoluenF	1.0.	UT	1.0.
cis-1,2-.i chloroeth. nF	1.0.	UT	1.0.
cis-1,3-.i chloropFopFnF	1.0.	UT	1.0.
1,2-.i bromo-3-ChloropFopanF	1.0.	UT	1.0.
1,2-.i bromoethanF	1.0.	UT	1.0.
i bromomethanF	1.0.	UT	1.0.
1,3-.i chlorobenzFnF	1.0.	UT	1.0.
1,2-.i chlorobenzFnF	1.0.	UT	1.0.
1,4-.i chlorobenzFnF	1.0.	UT	1.0.
i chlorobromomethanF	1.0.	UT	1.0.
i chlorodifluoromethanF	1.0.	UT	1.0.
1,1-.i chloroethanF	1.0.	UT	1.0.
1,2-.i chloroethanF	1.0.	UT	1.0.
1,1-.i chloroeth. nF	1.0.	UT	1.0.
1,2-.i chloroeth. nF, TotalT	2.0.	UT	2.0.
1,2-.i chloropFopanF	1.0.	UT	1.0.
2,2-.i chloropFopanF	1.0.	UT	1.0.
1,3-.i chloropFopanF	1.0.	UT	1.0.
1,1-.i chloropFopFnF	1.0.	UT	1.0.
iF thyl eth.	10.	UT	10.
EthylbenzFnF	1.0.	UT	1.0.
HTxachlorobutadiFnF	1.0.	UT	1.0.
2-HTxanonF	10.	UT	10.
IsopFopylbenzFnF	1.0.	UT	1.0.
MTthylTnF ChloridF	5.0.	U	5.0.
4-MTthyl-2-pFntanonF (MIBK)T	10.	UT	10.
MTthyl tT t-butyl eth.	10.	UT	10.
m-XylTnF & p-XylTnF	2.0.	UT	2.0.

Method Blank - Batch: 680-182239l **Method: 8260Bv**
Preparatcbn: 5030Bv

Lab SamplT IT	MB 680-1) 2239/T	n alysis Batch.	680-1) 2239.	InstTument IT	MSP
CliFnt MatTixT	WatT	P p Batch.	N/T	Lab FilT IT	pq395.dF
i lutionF	1.0.	Unitsb	ug/LF	Initial WFight/Volume:.	5 mLF
atT. n alyzFdF	10/07/2010 1153F			Final WFight/Volume:.	5 mLF
atT P paT dF	10/07/2010 1153F				

nalytT	sultT	QualT	LF
NaphthalTnF	5.0.	UT	5.0.
n-ButylbenzFnF	1.0.	UT	1.0.
N-P opylbenzFnF	1.0.	UT	1.0.
o-XylTnF	1.0.	UT	1.0.
p-IsopRopyltoluenF	1.0.	UT	1.0.
sbc-ButylbenzFnF	1.0.	UT	1.0.
StyT nF	1.0.	UT	1.0.
tT t-ButylbenzFnF	1.0.	UT	1.0.
1,1,2,2-TTtTachloroethanF	1.0.	UT	1.0.
1,1,1,2-TTtTachloroethanF	1.0.	UT	1.0.
TTtTachloroeth. nF	1.0.	UT	1.0.
ToluenF	1.0.	UT	1.0.
tTans-1,2-.i chloroeth. nF	1.0.	UT	1.0.
tTans-1,3-.i chloropRopFnF	1.0.	UT	1.0.
1,2,4-TTichlorobenzFnF	1.0.	UT	1.0.
1,2,3-TTichlorobenzFnF	1.0.	UT	1.0.
1,1,1-TTichloroethanF	1.0.	UT	1.0.
1,1,2-TTichloroethanF	1.0.	UT	1.0.
TTichloroeth. nF	1.0.	UT	1.0.
TTichlorofluoromethanF	1.0.	UT	1.0.
1,2,3-TTichloropRopanF	1.0.	UT	1.0.
1,2,4-TTimethylbenzFnF	1.0.	UT	1.0.
1,3,5-TTimethylbenzFnF	1.0.	UT	1.0.
Vinyl acTtatT	2.0.	UT	2.0.
Vinyl chloridF	1.0.	UT	1.0.
XylTnFs, TotalT	2.0.	UT	2.0.

SurrogatT	% . cT	ccTptancT Limitsb
4-B.omofluorobenzFnF	92b	75 - 120.
i bromofluoromethanF	90.	75 - 121)
ToluenF- dF (Surr)T	9.	75 - 120.

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

LabUControldSample/U **Method: 8260Bv**
LabUControldSampleVDUpldcateVRecovery Reportd-Batch: 680-182239l **Preparatdon: 5030Bv**

LCS Lab SamplT IT	LCS 680-1) 2239/5T	n alysis Batch. 680-1) 2239.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq3F7.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/07/2010 095T		Final WFight/Volume:. 5 mLF
atT P paT dF	10/07/2010 095T		

LCST Lab SamplT IT	LCST 680-1) 2239/T	n alysis Batch. 680-1) 2239.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq3F9.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/07/2010 1025T		Final WFight/Volume:. 5 mLF
atT P paT dF	10/07/2010 1025T		

		% . c.					
nalytT	LCST	LCST	LimitT	P	P LimitT	LCS QualT	LCST QualT
cTtonF		7)	17 - 175T	1)	50.		
B. nzFnF	9.	99.	77 - 119.	1)	30.		
B.omobenzFnF	94.	93F	0 - 124.	1)	30.		
B.omochloromethanF	9.	9.	10 - 150.	2b	30.		
B.omoform.	99.	100.	2 - 133F	0.	30.		
B.omomethanF	143F	14.	12 - 1) 4.	2b	50.		
2-ButanonF (MEK)T	100.	9.	33 - 157)	2b	30.		
CaTbon disulfidF	93F	93F	55 - 131)	1)	30.		
CaTbon tTtTachloridF	11)	117)	71 - 135T	1)	30.		
ChlorobenzFnF	95T	97)	5 - 11)	2b	30.		
ChlorodibromomethanF	104.	106.	75 - 133F	1)	30.		
ChloroethanF	124.	114.	40 - 1) 5T	9.	50.		
Chloroform.	101)	99.	2 - 120.	2b	30.		
ChloromethanF	105T	100.	4. - 142b	5T	50.		
2-ChlorotoluenF	94.	94.	2 - 123F	1)	30.		
4-ChlorotoluenF	9.	9.	3 - 122b	2b	30.		
cis-1,2-.i chloroeth. nF	93F	93F	9 - 134.	0.	30.		
cis-1,3-.i chloropFopFnF	107)	107)	7) - 12b	0.	30.		
1,2-.i bromo-3-ChloropFopanF	5T	2b	49 - 140.	4.	30.		
1,2-.i bromoethanF	95T	95T	0 - 121)	0.	30.		
i bromomethanF	94.	97)	7) - 119.	3F	30.		
1,3-.i chlorobenzFnF	94.	95T	7) - 125T	0.	30.		
1,2-.i chlorobenzFnF	93F	93F	79 - 124.	0.	30.		
1,4-.i chlorobenzFnF	9.	9.	1 - 122b	0.	30.		
i chlorobromomethanF	107)	108.	7) - 127)	1)	30.		
i chlorodifluoromethanF		7)	34 - 154.	1)	30.		
1,1-.i chloroethanF	101)	100.	74 - 127)	1)	30.		
1,2-.i chloroethanF	99.	9.	- 132b	0.	30.		
1,1-.i chloroeth. nF	95T	95T	2 - 141)	0.	30.		
1,2-.i chloroeth. nF, TotalT	9.	95T	- 134.	1)	30.		
1,2-.i chloropFopanF	101)	100.	73 - 124.	0.	30.		
2,2-.i chloropFopanF	110.	110.	55 - 157)	1)	30.		
1,3-.i chloropFopanF	94.	97)	75 - 120.	3F	30.		

LabU Controld Sample/U **Method: 8260Bv**
LabU Controld SampleVDUpldcateVRecovery Reportd- Batch: 680-182239l **Preparatdn: 5030Bv**

LCS Lab SamplT IT	LCS 680-1) 2239/5T	n alysis Batch. 680-1) 2239.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq3F7.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/07/2010 095T		Final WFight/Volume:. 5 mLF
atT P paT dF	10/07/2010 095T		

LCST Lab SamplT IT	LCST 680-1) 2239/T	n alysis Batch. 680-1) 2239.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq3F9.dF
i lutionF	1.0.	Unitsb ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/07/2010 1025T		Final WFight/Volume:. 5 mLF
atT P paT dF	10/07/2010 1025T		

		% . c.					
nalytT	LCST	LCST	LimitT	P	P LimitT	LCS QualT	LCST QualT
1,1-.i chloropFopFnF	104.	103F	77 - 122b	1)	30.		
EthylbenzFnF	9.	9.	- 11)	0.	30.		
HTxachlorobutadiFnF	101)	101)	2 - 142b	1)	30.		
2-HTxanonF	95T	94.	34 - 1) 1)	1)	30.		
IsopFopylbenzFnF	100.	99.	2 - 121)	1)	30.		
MTthylTnF ChloridF	95T	92b	70 - 125T	4.	30.		
4-MTthyl-2-pFntanonF (MIBK)T	95T	9.	40 - 151)	3F	30.		
MTthyl tT t-butyl eth.	94.	93F	77 - 121)	2b	30.		
m-XylTnF & p-XylTnF	97)	9.	3 - 11)	1)	30.		
NaphthalTnF	107)	112b	4. - 135T	4.	30.		
n-ButylbenzFnF	117)	119.	4 - 13F	2b	30.		
N-P opylbenzFnF	97)	9.	0 - 12b	1)	30.		
o-XylTnF	109.	108.	3 - 119.	1)	30.		
p-IsopFopyltoluenF	100.	102b	3 - 139.	2b	30.		
sbc-ButylbenzFnF	100.	101)	77 - 12b	2b	30.		
StyT nF	9.	97)	2 - 122b	1)	30.		
tT t-ButylbenzFnF	99.	99.	0 - 124.	0.	30.		
1,1,2,2-TTtTachloroethanF	91)	93F	9 - 129.	2b	30.		
1,1,1,2-TTtTachloroethanF	106.	107)	1 - 12b	1)	30.		
TTtTachloroeth. nF	91)	92b	7) - 12b	1)	30.		
ToluenF	99.	101)	1 - 117)	1)	30.		
tTans-1,2-.i chloroeth. nF	9.	9.	72 - 131)	1)	30.		
tTans-1,3-.i chloropFopFnF	107)	106.	73 - 12b	1)	30.		
1,2,4-TTichlorobenzFnF	93F	95T	0 - 135T	2b	30.		
1,2,3-TTichlorobenzFnF	92b	9.	0 - 132b	4.	30.		
1,1,1-TTichloroethanF	107)	108.	7) - 127)	1)	30.		
1,1,2-TTichloroethanF	9.	9.	75 - 121)	0.	30.		
TTichloroeth. nF	9.	97)	4 - 115T	2b	30.		
TTichlorofluoromethanF	117)	117)	5T- 149.	0.	50.		
1,2,3-TTichloropFopanF	91)	9.	70 - 130.	2b	30.		
1,2,4-TTimethylbenzFnF	103F	106.	72 - 132b	2b	30.		
1,3,5-TTimethylbenzFnF	9.	9.	72 - 133F	2b	30.		
Vinyl acTtatT	108.	104.	10 - 217)	4.	30.		

LabUControldSample/U **Method: 8260Bv**
LabUControldSampleVDUpldcateVRecovery Reportd- Batch: 680-182239l **Preparatdon: 5030Bv**

LCS Lab SamplT IT	LCS 680-1) 2239/5T	n alysis Batch. 680-1) 2239.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq3F7.dF
i lutionF	1.0.	UnitsB ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/07/2010 095T		Final WFight/Volume:. 5 mLF
atT P paT dF	10/07/2010 095T		

LCST Lab SamplT IT	LCST 680-1) 2239/T	n alysis Batch. 680-1) 2239.	InstTument IT MSP
CliFnt MatTixT	WatT	P p Batch. N/T	Lab FilT IT pq3F9.dF
i lutionF	1.0.	UnitsB ug/LF	Initial WFight/Volume:. 5 mLF
atT. n alyzFdF	10/07/2010 1025T		Final WFight/Volume:. 5 mLF
atT P paT dF	10/07/2010 1025T		

	% . c.					
nalytT	LCST	LCST	LimitT	P	P LimitT	LCS QualT LCST QualT
Vinyl chloridF	111)	110.	59 - 144.	1)	50.	
XylTnFs, TotalT	101)	101)	4 - 11)	0.	30.	

SurrogatT	LCS % . cT	LCST % . cT	ccTptancT LimitsB
4-B.omofluorobenzFnF	97)	97)	75 - 120.
i bromofluoromethanF	95T	93F	75 - 121)
ToluenF- dF (Surr)T	97)	99.	75 - 120.

Method Blank - Batch: 680-1827U9l **Method: 6010Cu**
Preparatobn: 3005AU
TotaldRecoverableV

Lab SamplT IT	MB 680-1) 27) 9/14-.		n alysis Batch. 680-1) 3127)	InstTument IT	ICP
CliFnt MatTixT	WatT		P p Batch. 680-1) 27) 9.	Lab FilT IT	1015101039.ch.
i lutionF	1.0.		Unitsb ug/LF	Initial WFight/Volume:.	50 mLF
atT. n alyzFdF	10/15/2010 213F			Final WFight/Volume:.	50 mLF
atT P paT dF	10/13/2010 0953F				

nalytT	sultT	QualT	LF
sbnicT	20.	UT	20.
BaTium.	10.	UT	10.
Cadmium.	5.0.	UT	5.0.
Ch.omium.	10.	UT	10.
lTonF	50.	UT	50.
LFadF	10.	UT	10.
STlTnium.	20.	UT	20.
Silver.	10.	UT	10.
Sodium.	1000.	UT	1000.

LabUControldSampleV- Batch: 680-1827U9l **Method: 6010Cu**
Preparatobn: 3005AU
TotaldRecoverableV

Lab SamplT IT	LCS 680-1) 27) 9/15-.		n alysis Batch. 680-1) 3127)	InstTument IT	ICP
CliFnt MatTixT	WatT		P p Batch. 680-1) 27) 9.	Lab FilT IT	1015101039.ch.
i lutionF	1.0.		Unitsb ug/LF	Initial WFight/Volume:.	50 mLF
atT. n alyzFdF	10/15/2010 2141)			Final WFight/Volume:.	50 mLF
atT P paT dF	10/13/2010 0953F				

nalytT	SpikT. mountT	sultT	% . c.	LimitT	QualT
sbnicT	2000.	2030.	101)	75 - 125T	
BaTium.	2000.	2010.	101)	75 - 125T	
Cadmium.	50.0.	50.4.	101)	75 - 125T	
Ch.omium.	200.	199.	99.	75 - 125T	
lTonF	1000.	1010.	101)	75 - 125T	
LFadF	500.	520.	104.	75 - 125T	
STlTnium.	2000.	2030.	101)	75 - 125T	
Silver.	50.0.	4. .4.	93F	75 - 125T	
Sodium.	5000.	4990.	100.	75 - 125T	

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

Matrix Spuke/U
Matrix SpukeVDUplocateVRecovery Reportd- Batch: 680-1827U9l

Method: 6010Cu
Preparatcbn: 8005AU
TotaldRecoverableV

MS Lab SamplT IT	0-6. 177)- 1)	n alysis Batch. 680-1) 3127)	InstTument IT ICP
CliFnt MatTixT	WatT	P p Batch. 680-1) 27) 9.	Lab FilT IT 1015101039.ch.
i lutionF	1.0.		Initial WFight/Volume:. 50 mLF
atT. n alyzFdF	10/15/2010 2202b		Final WFight/Volume:. 50 mLF
atT P paT dF	10/13/2010 0953F		

MST Lab SamplT IT	0-6. 177)- 1)	n alysis Batch. 680-1) 3127)	InstTument IT ICP
CliFnt MatTixT	WatT	P p Batch. 680-1) 27) 9.	Lab FilT IT 1015101039.ch.
i lutionF	1.0.		Initial WFight/Volume:. 50 mLF
atT. n alyzFdF	10/15/2010 2208.		Final WFight/Volume:. 50 mLF
atT P paT dF	10/13/2010 0953F		

	% . c.							
nalytT	MST	MST	LimitT	P	P	LimitT	MS QualT	MST QualT
sbnicT	108.	109.	75 - 125T	0.	20.			
BaTum.	100.	101)	75 - 125T	0.	20.			
Cadmium.	106.	108.	75 - 125T	1)	20.			
Ch.omium.	102b	103F	75 - 125T	1)	20.			
ITonF	11)	12b	75 - 125T	2b	20.		4.	4.
LFadF	106.	106.	75 - 125T	1)	20.			
STlTnium.	105T	107)	75 - 125T	1)	20.			
Silver.	94.	94.	75 - 125T	0.	20.			

Matrix Spuke/U
Matrix SpukeVDUplocateVRecovery Reportd- Batch: 680-1827U9l

Method: 6010Cu
Preparatcbn: 8005AU
TotaldRecoverableV

MS Lab SamplT IT	0-6. 177)- 1)	n alysis Batch. 680-1) 3394.	InstTument IT ICP
CliFnt MatTixT	WatT	P p Batch. 680-1) 27) 9.	Lab FilT IT 1) 27) 9. 177) .ch.
i lutionF	10.		Initial WFight/Volume:. 50 mLF
atT. n alyzFdF	10/1) /2010 2014.		Final WFight/Volume:. 50 mLF
atT P paT dF	10/13/2010 0953F		

MST Lab SamplT IT	0-6. 177)- 1)	n alysis Batch. 680-1) 3394.	InstTument IT ICP
CliFnt MatTixT	WatT	P p Batch. 680-1) 27) 9.	Lab FilT IT 1) 27) 9. 177) .ch.
i lutionF	10.		Initial WFight/Volume:. 50 mLF
atT. n alyzFdF	10/1) /2010 2019.		Final WFight/Volume:. 50 mLF
atT P paT dF	10/13/2010 0953F		

	% . c.							
nalytT	MST	MST	LimitT	P	P	LimitT	MS QualT	MST QualT
Sodium.	353F	530.	75 - 125T	3F	20.		4.	4.

Method Blank - Batch: 680-182103l **Method: 8470AU**
Preparation: 8470AU

Lab SamplT IT	MB 680-1) 2103/1-.		n alysis Batch. 680-1) 22b0.	InstTument IT	LEEMTN1)
CliFnt MatTixT	WatT		P p Batch. 680-1) 2103F	Lab FilT IT	b100710a.ch.
i lutionF	1.0.		Unitsb ug/LF	Initial WFight/Volume:.	50 mLF
atT. n alyzFdF	10/07/2010 1159.			Final WFight/Volume:.	50 mLF
atT P paT dF	10/06/2010 1220.				

nalytT	sultT	QualT	LF
MT curyT	0.20.	UT	0.20.

LabUControldSampleV- Batch: 680-182103l **Method: 8470AU**
Preparation: 8470AU

Lab SamplT IT	LCS 680-1) 2103/2-.		n alysis Batch. 680-1) 22b0.	InstTument IT	LEEMTN1)
CliFnt MatTixT	WatT		P p Batch. 680-1) 2103F	Lab FilT IT	b100710a.ch.
i lutionF	1.0.		Unitsb ug/LF	Initial WFight/Volume:.	50 mLF
atT. n alyzFdF	10/07/2010 1201)			Final WFight/Volume:.	50 mLF
atT P paT dF	10/06/2010 1220.				

nalytT	SpikT. mountT	sultT	% . c.	LimitT	QualT
MT curyT	2.50.	2.39.	9.	0 - 120.	

Matrix Spuke/U
Matrix SpukeVDUplocateVRecovery Reportd- Batch: 680-182103l **Method: 8470AU**
Preparation: 8470AU

MS Lab SamplT IT	0-6. 177)-6.		n alysis Batch. 680-1) 22b0.	InstTument IT	LEEMTN1)
CliFnt MatTixT	WatT		P p Batch. 680-1) 2103F	Lab FilT IT	b100710a.ch.
i lutionF	1.0.			Initial WFight/Volume:.	50 mLF
atT. n alyzFdF	10/07/2010 1315T			Final WFight/Volume:.	50 mLF
atT P paT dF	10/06/2010 1220.				
MST Lab SamplT IT	0-6. 177)-6.		n alysis Batch. 680-1) 22b0.	InstTument IT	LEEMTN1)
CliFnt MatTixT	WatT		P p Batch. 680-1) 2103F	Lab FilT IT	b100710a.ch.
i lutionF	1.0.			Initial WFight/Volume:.	50 mLF
atT. n alyzFdF	10/07/2010 131)			Final WFight/Volume:.	50 mLF
atT P paT dF	10/06/2010 1220.				

	% . c.						
nalytT	MST	MST	LimitT	P	P LimitT	MS QualT	MST QualT
MT curyT	93F	95T	0 - 120.	3F	20.		

CliFntT . CADF IS U.S., Inc. Job Number: 680-6177)- 1)

Method Blank - Batch: 680-182274P **Method: 90386**
Preparation: N/AU

Lab SamplT IT MB 680-1) 2274/1)
CliFnt MatTrixT WatT
i lutionF 1.0.
atT. n alyzFdF 10/07/2010 1100.
atT P paT dF N/T

n alysis Batch. 680-1) 2274.
P p Batch. N/T
Unitsb mg/LF

InstTument IT KONELAB1)
Lab FilT IT KONE11007101SO4B.xlsb
Initial WFight/Volume:. 2 mLF
Final WFight/Volume:. 2 mLF

nalytT	sultT	QualT	LF
SulfatT	5.0.	U	5.0.

LabUControldSampleV- Batch: 680-182274P **Method: 90386**
Preparation: N/AU

Lab SamplT IT LCS 680-1) 2274/2b
CliFnt MatTrixT WatT
i lutionF 1.0.
atT. n alyzFdF 10/07/2010 1100.
atT P paT dF N/T

n alysis Batch. 680-1) 2274.
P p Batch. N/T
Unitsb mg/LF

InstTument IT KONELAB1)
Lab FilT IT KONE11007101SO4B.xlsb
Initial WFight/Volume:. 2 mLF
Final WFight/Volume:. 2 mLF

nalytT	SpikT. mountT	sultT	% . c.	LimitT	QualT
SulfatT	20.0.	1) .9	94 .	75 - 125T	

Serial Number 032569

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NC000239.0018.00006

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: UNC-Chapel Hill	PROJECT NO.: ~~NC023900.0018~~	PROJECT LOCATION (STATE): NC	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX: 919-854-5448	
CLIENT NAME: Arcadis	CLIENT E-MAIL: alan.pinnix@arcadis-us.com		
CLIENT ADDRESS: 801 Corporate Center Dr. #300, Raleigh, NC 27607			
COMPANY CONTRACTING THIS WORK (if applicable)			

PAGE 1 OF 1

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs	REQUIRED ANALYSIS: RCRA Metals Fe, Mg	REQUIRED ANALYSIS: Sulfate	REMARKS
								PRESERVATIVE: HCl	PRESERVATIVE: HNO3	PRESERVATIVE: None	
								NUMBER OF CONTAINERS SUBMITTED			
9-30-10	1230	MW-1 (09302010)	G	X				3	1	1	
9-30-10	1115	MW-2 (09302010)	G	X				3	1	1	
9-29-10	1645	MW-3 (09292010)	G	X				3	1	1	
9-29-10	1430	MW-14 (09292010)	G	X				3	1	1	
9-30-10	1330	MW-38 (09302010)	G	X				3	1	1	
9-30-10	1015	MW-39 (09302010)	G	X				3	1	1	
		Trip Blank	G	X				2			
		Temp Blank									

JDF 9-30-2010

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9-30-10	1600						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth Daughtry	10/1/10	0941	YES ○ NO ○		680-61778	Temp 1.8

TAL8240-680 (1207)

Login Samcle Reded Chedk Listc

Client: ARCADIS U.S., Inc.T

JA Number: 680-61778-1A

Login Number: c177c

List SourVe: TestAmerVa Sa vannahc

Creator: Daughtcy, Bedhc

List Number: 1u

QuestioU	/ F/ NAc	Commed
Radc activTCy eitTer was not measured or, iTmeasured, isT ahor belowTw T ackg. un dc	N/AT	
TAe cooler'Ts cusT dy seal, iTp esent, isT intaTct.T	TAueT	
TAe cooler or samples dcnot appeahto Tave been comp miTsed or T ampered wC .T	TAueT	
Samples were receiTved on ice.T	TAueT	
Cooler TemperaTure isT accep ahle.T	TAueT	
Cooler TemperaTure isT recorTded.T	TAueT	
COC isT p esent.T	TAueT	
COC isT fgled out in ink and leg. le.T	TAueT	
COC isT fgled out wC all pertinent infgm ah n.T	TAueT	
Is tTe F.eld Sampler'Ts name p esent on COC?N	FalseT	
TAere ahe no dcscrepancies betTween tTe sample IDs on tTe contaTmersT and T e COC.T	TAueT	
Samples ahe receiTved wC n HNTdcng TAme.T	TAueT	
Sample contaTmersT Tave leg. le l ahel s.T	TAueT	
ContaTmersT ahe not broTken or leakung.T	TAueT	
Sample collection dahe/Fmes ahe p vCded.T	TAueT	
App p ahe sample contaTmersT ahe used.T	TAueT	
Sample bottles ahe completely fgled.T	TAueT	
Sample PSeserTvah n VeriTgedc	TAueT	
TAere isT suffgcient vC. fg all requesTed analyses, incl. any requesTed T MS/MSDsT	TAueT	
VOA sample vCals dcnot T ave Teadspace or bubble isT <6mm (1/4") in T dcameter.T	TAueT	
If necessahy, sTaff Tave been infgme d ofTany sT T l d time or quick TAT T needsT	TAueT	
MultipT asTc samples ahe not p esent.T	N/AT	
Samples dcnot re quire splitting or comp sT ng.T	N/AT	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-61853-1

Job Description: UNC Airport Road, Chapel Hill

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
10/29/2010 4:44 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
10/29/2010
Revision: 1

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

CommDn:
No additig.al cgomments. g

i pDU
All samples were received in goo. cg. tigo. within temperat ure requTements.g

GC/MS VOA U
No analytical or quality issges were ngted.g

MMa ls U
No analytical or quality issges were ngted.g

GMh:ra l ChdmiU ry U
No analytical or quality issges were ngted.g

VOA PrepU U
No analytical or quality issges were ngted.g

METHOD SUMMARY:

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
VolaTil) O2gaTc Compou. ds (GC/MS)	T2L SAY2	SWM4M8.2A0 B2	
Purg2 aTd T2ap2	T2L SAY2		SWM4M5030B2
M2 als (ICP)	T2L SAY2	SWM4M60 10C)	
PR paTaTo., To.al . covN abl) or . i ssolvNd M2 als2	T2L SAY2		SWM4M3005M
M2 cury (CV2)	T2L SAY2	SWM4M7470.	
PR paTaTo., M2 curyc	T2L SAY2		SWM4M7470.
SulfaT , Turbidime. ic)	T2L SAY2	SWM4M903T	

Lab References:

T2L SAY = T2s2 merica SavaT ah.

Method References:

SWM4M= "T2s2M2 hods For EvaluaTng Solid Was2 , Physical/Ch.m ical M2 hods", Thi)d Editio., NovNmber 19. . d Its . UpdaT s.)

METHOD / ANALcST SdMMARM

Client: ARCADIS U.S., Inc.T JA Number: 680-61853-1A

MethodM	AnalystM	Analyst ID:
SW846 8260B4	L0nier, CT I ynT	CL0
SW846 6010CT	BlTnd, B4 nT	BCB4
W846 7470Ab	Eaton, Cliffb	Eb
W846 9038b	Ross, Jonb	JRb

SUMPLU SUMMUR Y2

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Lab Sa: ple IDV	Client Sa: ple IDV	Client Matrix2	Date/Time : Sa: pledb	Date/Time : ReVeivedb
680-61853-1b	MW-1b	Waterb	10/04/2010 1338b	10/05/2010 0938b
680-61853-2b	MW-2b	Waterb	10/04/2010 1415b	10/05/2010 0938b
680-61853-3b	MW-3b	Waterb	10/04/2010 1300b	10/05/2010 0938b
680-61853-4M	MW-38b	Waterb	10/04/2010 1600b	10/05/2010 0938b
680-61853-5b	MW-39.	Waterb	10/04/2010 1200b	10/05/2010 0938b
680-61853-6b	MW-14M	Waterb	10/04/2010 1500b	10/05/2010 0938b
680-61853-7b	Trip Blank	Waterb	10/04/2010 0000b	10/05/2010 0938b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:d **MW-1d**

Lab Sampe ID:b 680-61853-1b Date Sampled: 10/04/2010 1338b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182508b Instrument ID:b MSP 2b
Preparation:b 5030Bb Lab File ID:b p0810.d
Dilution:b 50b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/08/2010 1308b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/08/2010 1308b

Analyteb	Result (ug/L)b	Qualifierb	RL0
Acetoneb	1300b	Ub	1300b
Benzeneb	910b		50b
Bromobenzeneb	50b	Ub	50b
Bromoch oromethaneb	50b	Ub	50b
Bromoformb	50b	Ub	50b
Bromomethaneb	50b	Ub	50b
2-Butanone (MEK)b	500b	Ub	500b
arbon disulfideb	100b	Ub	100b
arbon tetrac h orideb	50b	Ub	50b
h orobenzeneb	50b	Ub	50b
h orodibromomethaneb	50b	Ub	50b
h oroethaneb	50b	Ub	50b
h oroformb	4400b		50b
h oromethaneb	50b	Ub	50b
2-Cb orotolueneb	50b	Ub	50b
4-Cb orotolueneb	50b	Ub	50b
cis-1,2-Dich oroetheneb	50b	Ub	50b
cis-1,3-Dich oropropeneb	50b	Ub	50b
1,2-Dibromo-3-Cb oropropaneb	50b	Ub	50b
1,2-Dibromoethaneb	50b	Ub	50b
Dibromomethaneb	50b	Ub	50b
1,3-Dich orobenzeneb	50b	Ub	50b
1,2-Dich orobenzeneb	50b	Ub	50b
1,4-Dich orobenzeneb	50b	Ub	50b
Dich orobromomethaneb	50b	Ub	50b
Dich orodifluoromethaneb	50b	Ub	50b
1,1-Dich oroethaneb	57b		50b
1,2-Dich oroethaneb	430b		50b
1,1-Dich oroetheneb	50b	Ub	50b
1,2-Dich oroethene, Totalb	100b	Ub	100b
1,2-Dich oropropaneb	50b	Ub	50b
2,2-Dich oropropaneb	50b	Ub	50b
1,3-Dich oropropaneb	50b	Ub	50b
1,1-Dich oropropeneb	50b	Ub	50b
Diethyl etherb	5300b	E.	500b
Ethylbenzeneb	50b	Ub	50b
Hexach orobutadieneb	50b	Ub	50b
2-Hexanoneb	500b	Ub	500b
Isopropylbenzeneb	50b	Ub	50b
Methylene Cb orideb	680b		250b
4-Methyl-2-pentanone (MIBK)b	500b	Ub	500b
Methyl tert-butyl etherb	500b	Ub	500b
m-Xylene & p-Xyleneb	100b	Ub	100b
Naphthaleneb	250b	Ub	250b
n-Butylbenzeneb	50b	Ub	50b
N-Propylbenzeneb	50b	Ub	50b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-1T**

Lab Sampe ID:b 680-61853-1b Date Sampled: 10/04/2010 1338b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182508b Instrument ID:b M5P 2b
Preparation:b 5030Bb Lab File ID:b p0810.d
Dilution:b 50b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/08/2010 1308b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/08/2010 1308b

Analyteb	Result (ug/L)b	Qualifierb	RL0
o-Xyleneb	50b	Ub	50b
p-Isopropyltolueneb	50b	Ub	50b
sec-Butylbenzeneb	50b	Ub	50b
tyreneb	50b	Ub	50b
tert-Butylbenzeneb	50b	Ub	50b
1,1,2,2-Tetrach oroethaneb	570b		50b
1,1,1,2-Tetrach oroethaneb	50b	Ub	50b
Tetrach oroetheneb	50b	Ub	50b
Tolueneb	50b	Ub	50b
trans-1,2-Dich oroetheneb	50b	Ub	50b
trans-1,3-Dich oropropeneb	50b	Ub	50b
1,2,4-Trich orobenzeneb	50b	Ub	50b
1,2,3-Trich orobenzeneb	50b	Ub	50b
1,1,1-Trich oroethaneb	50b	Ub	50b
1,1,2-Trich oroethaneb	50b	Ub	50b
Trich oroetheneb	160b		50b
Trich orofluoromethaneb	50b	Ub	50b
1,2,3-Trich oropropaneb	50b	Ub	50b
1,2,4-Trimethylbenzeneb	50b	Ub	50b
1,3,5-Trimethylbenzeneb	50b	Ub	50b
Vinyl acetateb	100b	Ub	100b
Vinyl ch orideb	50b	Ub	50b
Xylenes, Totalb	100b	Ub	100b

urrogateb	%Recb	Qualifierb	Acceptance L0mitsb
4-Bromofluorobenzeneb	96b		75 - 120b
Dibromofluoromethaneb	98b		75 - 121b
Toluene-d8 (Surr)	101b		75 - 120b

Client Sample ID:T **MW-2T**

Lab Sampe ID:b 680-61853-2b Date Sampled: 10/04/2010 1415b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182508b Instrument ID:b MSP 2b
Preparation:b 5030Bb Lab File ID:b p0812.d
Dilution:b 100b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/08/2010 1337b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/08/2010 1337b

Analyteb	Result (ug/L)b	Qualifierb	RL0
Acetoneb	2500b	Ub	2500b
Benzeneb	7200b		100b
Bromobenzeneb	100b	Ub	100b
Bromoch oromethaneb	100b	Ub	100b
Bromoformb	100b	Ub	100b
Bromomethaneb	100b	Ub	100b
2-Butanone (MEK)b	1000b	Ub	1000b
arbon disulfideb	200b	Ub	200b
arbon tetrac h orideb	100b	Ub	100b
h orobenzeneb	250b		100b
h orodibromomethaneb	100b	Ub	100b
h oroethaneb	100b	Ub	100b
h oroformb	1000b		100b
h oromethaneb	100b	Ub	100b
2-Cb orotolueneb	100b	Ub	100b
4-Cb orotolueneb	100b	Ub	100b
cis-1,2-Dich oroetheneb	100b	Ub	100b
cis-1,3-Dich oropropeneb	100b	Ub	100b
1,2-Dibromo-3-Cb oropropaneb	100b	Ub	100b
1,2-Dibromoethaneb	100b	Ub	100b
Dibromomethaneb	100b	Ub	100b
1,3-Dich orobenzeneb	100b	Ub	100b
1,2-Dich orobenzeneb	100b	Ub	100b
1,4-Dich orobenzeneb	100b	Ub	100b
Dich orobromomethaneb	100b	Ub	100b
Dich orodifluoromethaneb	100b	Ub	100b
1,1-Dich oroethaneb	100b	Ub	100b
1,2-Dich oroethaneb	1100b		100b
1,1-Dich oroetheneb	100b	Ub	100b
1,2-Dich oroethene, Totalb	200b	Ub	200b
1,2-Dich oropropaneb	100b	Ub	100b
2,2-Dich oropropaneb	100b	Ub	100b
1,3-Dich oropropaneb	100b	Ub	100b
1,1-Dich oropropeneb	100b	Ub	100b
Diethyl etherb	16000b	E.	1000b
Ethylbenzeneb	360b		100b
Hexach orobutadieneb	100b	Ub	100b
2-Hexanoneb	1000b	Ub	1000b
Isopropylbenzeneb	100b	Ub	100b
Methylene Cb orideb	890b		500b
4-Methyl-2-pentanone (MIBK)b	1000b	Ub	1000b
Methyl tert-butyl etherb	1000b	Ub	1000b
m-Xylene & p-Xyleneb	370b		200b
Naphthaleneb	500b	Ub	500b
n-Butylbenzeneb	100b	Ub	100b
N-Propylbenzeneb	100b	Ub	100b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-2T**

Lab Sampe ID:b 680-61853-2b Date Sampled: 10/04/2010 1415b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b	8260Bb	Analysis Batch: 680-182508b		Instrument ID:b	MSP 2b
Preparation:b	5030Bb			Lab File ID:b	p0812.d
Dilution:b	100b			Initial Weight/Volume:b	5 mL0
Date Analyzed:b	10/08/2010 1337b			Final Weight/Volume:b	5 mL0
Date Prepared:b	10/08/2010 1337b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
o-Xyleneb	700b		100b
p-Isopropyltolueneb	100b	Ub	100b
sec-Butylbenzeneb	100b	Ub	100b
tyreneb	100b	Ub	100b
tert-Butylbenzeneb	100b	Ub	100b
1,1,2,2-Tetrach oroethaneb	100b	Ub	100b
1,1,1,2-Tetrach oroethaneb	100b	Ub	100b
Tetrach oroetheneb	100b	Ub	100b
Tolueneb	100b	Ub	100b
trans-1,2-Dich oroetheneb	100b	Ub	100b
trans-1,3-Dich oropropeneb	100b	Ub	100b
1,2,4-Trich orobenzeneb	100b	Ub	100b
1,2,3-Trich orobenzeneb	100b	Ub	100b
1,1,1-Trich oroethaneb	100b	Ub	100b
1,1,2-Trich oroethaneb	100b	Ub	100b
Trich oroetheneb	140b		100b
Trich orofluoromethaneb	100b	Ub	100b
1,2,3-Trich oropropaneb	100b	Ub	100b
1,2,4-Trimethylbenzeneb	100b	Ub	100b
1,3,5-Trimethylbenzeneb	100b	Ub	100b
Vinyl acetateb	200b	Ub	200b
Vinyl ch orideb	100b	Ub	100b
Xylenes, Totalb	1100b		200b

urrogateb	%Recb	Qualifierb	Acceptance L0mitsb
4-Bromofluorobenzeneb	94c		75 - 120b
Dibromofluoromethaneb	96b		75 - 121b
Toluene-d8 (Surr)	100b		75 - 120b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-3T**

Lab Sampe ID:b 680-61853-3b Date Sampled: 10/04/2010 1300b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182239. Instrument ID:b M5Pb
Preparation:b 5030Bb Lab File ID:b p0797.d
Dilution:b 1.0b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/07/2010 1815b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/07/2010 1815b

Analyteb	Result (ug/L)b	Qualifierb	RL0
Acetoneb	25b	Ub	25b
Benzeneb	1.0b	Ub	1.0b
Bromobenzeneb	1.0b	Ub	1.0b
Bromoch oromethaneb	1.0b	Ub	1.0b
Bromoformb	1.0b	Ub	1.0b
Bromomethaneb	1.0b	Ub	1.0b
2-Butanone (MEK)b	10b	Ub	10b
arbon disulfideb	2.0b	Ub	2.0b
arbon tetrac h orideb	1.0b	Ub	1.0b
h orobenzeneb	1.0b	Ub	1.0b
h orodibromomethaneb	1.0b	Ub	1.0b
h oroethaneb	1.0b	Ub	1.0b
h oroformb	1.0b	Ub	1.0b
h oromethaneb	1.0b	Ub	1.0b
2-Cb orotolueneb	1.0b	Ub	1.0b
4-Cb orotolueneb	1.0b	Ub	1.0b
cis-1,2-Dich oroetheneb	1.0b	Ub	1.0b
cis-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2-Dibromo-3-Cb oropropaneb	1.0b	Ub	1.0b
1,2-Dibromoethaneb	1.0b	Ub	1.0b
Dibromomethaneb	1.0b	Ub	1.0b
1,3-Dich orobenzeneb	1.0b	Ub	1.0b
1,2-Dich orobenzeneb	1.0b	Ub	1.0b
1,4-Dich orobenzeneb	1.0b	Ub	1.0b
Dich orobromomethaneb	1.0b	Ub	1.0b
Dich orodifluoromethaneb	1.0b	Ub	1.0b
1,1-Dich oroethaneb	1.0b	Ub	1.0b
1,2-Dich oroethaneb	1.0b	Ub	1.0b
1,1-Dich oroetheneb	1.0b	Ub	1.0b
1,2-Dich oroethene, Totalb	2.0b	Ub	2.0b
1,2-Dich oropropaneb	1.0b	Ub	1.0b
2,2-Dich oropropaneb	1.0b	Ub	1.0b
1,3-Dich oropropaneb	1.0b	Ub	1.0b
1,1-Dich oropropeneb	1.0b	Ub	1.0b
Diethyl etherb	10b	Ub	10b
Ethylbenzeneb	1.0b	Ub	1.0b
Hexach orobutadieneb	1.0b	Ub	1.0b
2-Hexanoneb	10b	Ub	10b
Isopropylbenzeneb	1.0b	Ub	1.0b
Methylene Cb orideb	5.0b	Ub	5.0b
4-Methyl-2-pentanone (MIBK)b	10b	Ub	10b
Methyl tert-butyl etherb	10b	Ub	10b
m-Xylene & p-Xyleneb	2.0b	Ub	2.0b
Naphthaleneb	5.0b	Ub	5.0b
n-Butylbenzeneb	1.0b	Ub	1.0b
N-Propylbenzeneb	1.0b	Ub	1.0b

Client Sample ID:T **MW-3T**

Lab Sampe ID:b 680-61853-3b Date Sampled: 10/04/2010 1300b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b	8260Bb	Analysis Batch: 680-182239.	Instrument ID:b	MSPb	
Preparation:b	5030Bb		Lab File ID:b	p0797.d	
Dilution:b	1.0b		Initial Weight/Volume:b	5 mL0	
Date Analyzed:b	10/07/2010 1815b		Final Weight/Volume:b	5 mL0	
Date Prepared:b	10/07/2010 1815b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
o-Xyleneb	1.0b	Ub	1.0b
p-Isopropyltolueneb	1.0b	Ub	1.0b
sec-Butylbenzeneb	1.0b	Ub	1.0b
tyreneb	1.0b	Ub	1.0b
tert-Butylbenzeneb	1.0b	Ub	1.0b
1,1,2,2-Tetrach oroethaneb	1.0b	Ub	1.0b
1,1,1,2-Tetrach oroethaneb	1.0b	Ub	1.0b
Tetrach oroetheneb	1.0b	Ub	1.0b
Tolueneb	1.0b	Ub	1.0b
trans-1,2-Dich oroetheneb	1.0b	Ub	1.0b
trans-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2,4-Trich orobenzeneb	1.0b	Ub	1.0b
1,2,3-Trich orobenzeneb	1.0b	Ub	1.0b
1,1,1-Trich oroethaneb	1.0b	Ub	1.0b
1,1,2-Trich oroethaneb	1.0b	Ub	1.0b
Trich oroetheneb	1.0b	Ub	1.0b
Trich orofluoromethaneb	1.0b	Ub	1.0b
1,2,3-Trich oropropaneb	1.0b	Ub	1.0b
1,2,4-Trimethylbenzeneb	1.0b	Ub	1.0b
1,3,5-Trimethylbenzeneb	1.0b	Ub	1.0b
Vinyl acetateb	2.0b	Ub	2.0b
Vinyl ch orideb	1.0b	Ub	1.0b
Xylenes, Totalb	2.0b	Ub	2.0b

urrogateb	%Recb	Qualifierb	Acceptance L0mitsb
4-Bromofluorobenzeneb	94c		75 - 120b
Dibromofluoromethaneb	88b		75 - 121b
Toluene-d8 (Surr)	96b		75 - 120b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-38T**

Lab Sampe ID:b 680-61853-4c Date Sampled: 10/04/2010 1600b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182404c Instrument ID:b MSPb
Preparation:b 5030Bb Lab File ID:b p0809.d
Dilution:b 1.0b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/08/2010 1253b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/08/2010 1253b

Analyteb	Result (ug/L)b	Qualifierb	RL0
Acetoneb	25b	Ub	25b
Benzeneb	1.0b	Ub	1.0b
Bromobenzeneb	1.0b	Ub	1.0b
Bromoch oromethaneb	1.0b	Ub	1.0b
Bromoformb	1.0b	Ub	1.0b
Bromomethaneb	1.0b	Ub	1.0b
2-Butanone (MEK)b	10b	Ub	10b
arbon disulfideb	2.0b	Ub	2.0b
arbon tetrac h orideb	1.0b	Ub	1.0b
h orobenzeneb	1.5b		1.0b
h orodibromomethaneb	1.0b	Ub	1.0b
h oroethaneb	1.0b	Ub	1.0b
h oroformb	1.0b	Ub	1.0b
h oromethaneb	1.0b	Ub	1.0b
2-Cb orotolueneb	1.0b	Ub	1.0b
4-Cb orotolueneb	1.0b	Ub	1.0b
cis-1,2-Dich oroetheneb	1.0b	Ub	1.0b
cis-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2-Dibromo-3-Cb oropropaneb	1.0b	Ub	1.0b
1,2-Dibromoethaneb	1.0b	Ub	1.0b
Dibromomethaneb	1.0b	Ub	1.0b
1,3-Dich orobenzeneb	1.0b	Ub	1.0b
1,2-Dich orobenzeneb	1.0b	Ub	1.0b
1,4-Dich orobenzeneb	1.0b	Ub	1.0b
Dich orobromomethaneb	1.0b	Ub	1.0b
Dich orodifluoromethaneb	1.0b	Ub	1.0b
1,1-Dich oroethaneb	1.0b	Ub	1.0b
1,2-Dich oroethaneb	8.7b		1.0b
1,1-Dich oroetheneb	1.0b	Ub	1.0b
1,2-Dich oroethene, Totalb	2.0b	Ub	2.0b
1,2-Dich oropropaneb	1.0b	Ub	1.0b
2,2-Dich oropropaneb	1.0b	Ub	1.0b
1,3-Dich oropropaneb	1.0b	Ub	1.0b
1,1-Dich oropropeneb	1.0b	Ub	1.0b
Diethyl etherb	140b	E *b	10b
Ethylbenzeneb	1.0b	Ub	1.0b
Hexach orobutadieneb	1.0b	Ub	1.0b
2-Hexanoneb	10b	Ub	10b
Isopropylbenzeneb	1.0b	Ub	1.0b
Methylene Cb orideb	5.0b	Ub	5.0b
4-Methyl-2-pentanone (MIBK)b	10b	Ub	10b
Methyl tert-butyl etherb	10b	Ub	10b
m-Xylene & p-Xyleneb	2.0b	Ub	2.0b
Naphthaleneb	5.0b	Ub	5.0b
n-Butylbenzeneb	1.0b	Ub	1.0b
N-Propylbenzeneb	1.0b	Ub	1.0b

Client Sample ID:T **MW-38T**

Lab Sampe ID:b 680-61853-4c Date Sampled: 10/04/2010 1600b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182404c Instrument ID:b MSPb
Preparation:b 5030Bb Lab File ID:b p0809.d
Dilution:b 1.0b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/08/2010 1253b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/08/2010 1253b

Analyteb	Result (ug/L)b	Qualifierb	RL0
o-Xyleneb	1.0b	Ub	1.0b
p-Isopropyltolueneb	1.0b	Ub	1.0b
sec-Butylbenzeneb	1.0b	Ub	1.0b
tyreneb	1.0b	Ub	1.0b
tert-Butylbenzeneb	1.0b	Ub	1.0b
1,1,2,2-Tetrach oroethaneb	1.0b	Ub	1.0b
1,1,1,2-Tetrach oroethaneb	1.0b	Ub	1.0b
Tetrach oroetheneb	1.0b	Ub	1.0b
Tolueneb	1.0b	Ub	1.0b
trans-1,2-Dich oroetheneb	1.0b	Ub	1.0b
trans-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2,4-Trich orobenzeneb	1.0b	Ub	1.0b
1,2,3-Trich orobenzeneb	1.0b	Ub	1.0b
1,1,1-Trich oroethaneb	1.0b	Ub	1.0b
1,1,2-Trich oroethaneb	1.0b	Ub	1.0b
Trich oroetheneb	1.0b	Ub	1.0b
Trich orofluoromethaneb	1.0b	Ub	1.0b
1,2,3-Trich oropropaneb	1.0b	Ub	1.0b
1,2,4-Trimethylbenzeneb	1.0b	Ub	1.0b
1,3,5-Trimethylbenzeneb	1.0b	Ub	1.0b
Vinyl acetateb	2.0b	Ub	2.0b
Vinyl ch orideb	1.0b	Ub	1.0b
Xylenes, Totalb	2.0b	Ub	2.0b

urrogateb	%Recb	Qualifierb	Acceptance L0mitsb
4-Bromofluorobenzeneb	90b		75 - 120b
Dibromofluoromethaneb	89.		75 - 121b
Toluene-d8 (Surr)	95b		75 - 120b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-39T**

Lab Sampe ID:b 680-61853-5b Date Sampled: 10/04/2010 1200b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b	8260Bb	Analysis Batch: 680-182404c		Instrument ID:b	M5Pb
Preparation:b	5030Bb			Lab File ID:b	p0811.d
Dilution:b	1.0b			Initial Weight/Volume:b	5 mL0
Date Analyzed:b	10/08/2010 1323b			Final Weight/Volume:b	5 mL0
Date Prepared:b	10/08/2010 1323b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Acetoneb	25b	Ub	25b
Benzeneb	1.0b	Ub	1.0b
Bromobenzeneb	1.0b	Ub	1.0b
Bromoch oromethaneb	1.0b	Ub	1.0b
Bromoformb	1.0b	Ub	1.0b
Bromomethaneb	1.0b	Ub	1.0b
2-Butanone (MEK)b	10b	Ub	10b
arbon disulfideb	2.0b	Ub	2.0b
arbon tetrac h orideb	1.0b	Ub	1.0b
h orobenzeneb	1.0b	Ub	1.0b
h orodibromomethaneb	1.0b	Ub	1.0b
h oroethaneb	1.0b	Ub	1.0b
h oroformb	1.0b	Ub	1.0b
h oromethaneb	1.0b	Ub	1.0b
2-Cb orotolueneb	1.0b	Ub	1.0b
4-Cb orotolueneb	1.0b	Ub	1.0b
cis-1,2-Dich oroetheneb	1.0b	Ub	1.0b
cis-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2-Dibromo-3-Cb oropropaneb	1.0b	Ub	1.0b
1,2-Dibromoethaneb	1.0b	Ub	1.0b
Dibromomethaneb	1.0b	Ub	1.0b
1,3-Dich orobenzeneb	1.0b	Ub	1.0b
1,2-Dich orobenzeneb	1.0b	Ub	1.0b
1,4-Dich orobenzeneb	1.0b	Ub	1.0b
Dich orobromomethaneb	1.0b	Ub	1.0b
Dich orodifluoromethaneb	1.0b	Ub	1.0b
1,1-Dich oroethaneb	1.0b	Ub	1.0b
1,2-Dich oroethaneb	1.0b	Ub	1.0b
1,1-Dich oroetheneb	1.0b	Ub	1.0b
1,2-Dich oroethene, Totalb	2.0b	Ub	2.0b
1,2-Dich oropropaneb	1.0b	Ub	1.0b
2,2-Dich oropropaneb	1.0b	Ub	1.0b
1,3-Dich oropropaneb	1.0b	Ub	1.0b
1,1-Dich oropropeneb	1.0b	Ub	1.0b
Diethyl etherb	10b	U *b	10b
Ethylbenzeneb	1.0b	Ub	1.0b
Hexach orobutadieneb	1.0b	Ub	1.0b
2-Hexanoneb	10b	Ub	10b
Isopropylbenzeneb	1.0b	Ub	1.0b
Methylene Cb orideb	5.0b	Ub	5.0b
4-Methyl-2-pentanone (MIBK)b	10b	Ub	10b
Methyl tert-butyl etherb	10b	Ub	10b
m-Xylene & p-Xyleneb	2.0b	Ub	2.0b
Naphthaleneb	5.0b	Ub	5.0b
n-Butylbenzeneb	1.0b	Ub	1.0b
N-Propylbenzeneb	1.0b	Ub	1.0b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-39T**

Lab Sampe ID:b 680-61853-5b Date Sampled: 10/04/2010 1200b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182404c Instrument ID:b MSPb
Preparation:b 5030Bb Lab File ID:b p0811.d
Dilution:b 1.0b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/08/2010 1323b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/08/2010 1323b

Analyteb	Result (ug/L)b	Qualifierb	RL0
o-Xyleneb	1.0b	Ub	1.0b
p-Isopropyltolueneb	1.0b	Ub	1.0b
sec-Butylbenzeneb	1.0b	Ub	1.0b
tyreneb	1.0b	Ub	1.0b
tert-Butylbenzeneb	1.0b	Ub	1.0b
1,1,2,2-Tetrach oroethaneb	1.0b	Ub	1.0b
1,1,1,2-Tetrach oroethaneb	1.0b	Ub	1.0b
Tetrach oroetheneb	1.0b	Ub	1.0b
Tolueneb	1.0b	Ub	1.0b
trans-1,2-Dich oroetheneb	1.0b	Ub	1.0b
trans-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2,4-Trich orobenzeneb	1.0b	Ub	1.0b
1,2,3-Trich orobenzeneb	1.0b	Ub	1.0b
1,1,1-Trich oroethaneb	1.0b	Ub	1.0b
1,1,2-Trich oroethaneb	1.0b	Ub	1.0b
Trich oroetheneb	1.0b	Ub	1.0b
Trich orofluoromethaneb	1.0b	Ub	1.0b
1,2,3-Trich oropropaneb	1.0b	Ub	1.0b
1,2,4-Trimethylbenzeneb	1.0b	Ub	1.0b
1,3,5-Trimethylbenzeneb	1.0b	Ub	1.0b
Vinyl acetateb	2.0b	Ub	2.0b
Vinyl ch orideb	1.0b	Ub	1.0b
Xylenes, Totalb	2.0b	Ub	2.0b

urrogateb	%Recb	Qualifierb	Acceptance L0mitsb
4-Bromofluorobenzeneb	89.		75 - 120b
Dibromofluoromethaneb	89.		75 - 121b
Toluene-d8 (Surr)	96b		75 - 120b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-14**

Lab Sampe ID:b 680-61853-6b Date Sampled: 10/04/2010 1500b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182404c Instrument ID:b MSPb
Preparation:b 5030Bb Lab File ID:b p0813.d
Dilution:b 1.0b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/08/2010 1352b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/08/2010 1352b

Analyteb	Result (ug/L)b	Qualifierb	RL0
Acetoneb	25b	Ub	25b
Benzeneb	34c		1.0b
Bromobenzeneb	1.0b	Ub	1.0b
Bromoch oromethaneb	1.0b	Ub	1.0b
Bromoformb	1.0b	Ub	1.0b
Bromomethaneb	1.0b	Ub	1.0b
2-Butanone (MEK)b	10b	Ub	10b
arbon disulfideb	2.0b	Ub	2.0b
arbon tetrac h orideb	1.0b	Ub	1.0b
h orobenzeneb	1.0b	Ub	1.0b
h orodibromomethaneb	1.0b	Ub	1.0b
h oroethaneb	1.0b	Ub	1.0b
h oroformb	1.0b	Ub	1.0b
h oromethaneb	1.0b	Ub	1.0b
2-Cb orotolueneb	1.0b	Ub	1.0b
4-Cb orotolueneb	1.0b	Ub	1.0b
cis-1,2-Dich oroetheneb	1.0b	Ub	1.0b
cis-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2-Dibromo-3-Cb oropropaneb	1.0b	Ub	1.0b
1,2-Dibromoethaneb	1.0b	Ub	1.0b
Dibromomethaneb	1.0b	Ub	1.0b
1,3-Dich orobenzeneb	1.0b	Ub	1.0b
1,2-Dich orobenzeneb	1.0b	Ub	1.0b
1,4-Dich orobenzeneb	1.0b	Ub	1.0b
Dich orobromomethaneb	1.0b	Ub	1.0b
Dich orodifluoromethaneb	1.0b	Ub	1.0b
1,1-Dich oroethaneb	1.0b	Ub	1.0b
1,2-Dich oroethaneb	12b		1.0b
1,1-Dich oroetheneb	1.0b	Ub	1.0b
1,2-Dich oroethene, Totalb	2.0b	Ub	2.0b
1,2-Dich oropropaneb	1.0b	Ub	1.0b
2,2-Dich oropropaneb	1.0b	Ub	1.0b
1,3-Dich oropropaneb	1.0b	Ub	1.0b
1,1-Dich oropropeneb	1.0b	Ub	1.0b
Diethyl etherb	570b	E *b	10b
Ethylbenzeneb	1.0b	Ub	1.0b
Hexach orobutadieneb	1.0b	Ub	1.0b
2-Hexanoneb	10b	Ub	10b
Isopropylbenzeneb	1.0b	Ub	1.0b
Methylene Cb orideb	5.0b	Ub	5.0b
4-Methyl-2-pentanone (MIBK)b	10b	Ub	10b
Methyl tert-butyl etherb	10b	Ub	10b
m-Xylene & p-Xyleneb	2.0b	Ub	2.0b
Naphthaleneb	5.0b	Ub	5.0b
n-Butylbenzeneb	1.0b	Ub	1.0b
N-Propylbenzeneb	1.0b	Ub	1.0b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-14**

Lab Sampe ID:b 680-61853-6b Date Sampled: 10/04/2010 1500b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b	8260Bb	Analysis Batch: 680-182404c		Instrument ID:b	M5Pb
Preparation:b	5030Bb			Lab File ID:b	p0813.d
Dilution:b	1.0b			Initial Weight/Volume:b	5 mL0
Date Analyzed:b	10/08/2010 1352b			Final Weight/Volume:b	5 mL0
Date Prepared:b	10/08/2010 1352b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
o-Xyleneb	1.0b	Ub	1.0b
p-Isopropyltolueneb	1.0b	Ub	1.0b
sec-Butylbenzeneb	1.0b	Ub	1.0b
tyreneb	1.0b	Ub	1.0b
tert-Butylbenzeneb	1.0b	Ub	1.0b
1,1,2,2-Tetrach oroethaneb	1.0b	Ub	1.0b
1,1,1,2-Tetrach oroethaneb	1.0b	Ub	1.0b
Tetrach oroetheneb	1.0b	Ub	1.0b
Tolueneb	1.0b	Ub	1.0b
trans-1,2-Dich oroetheneb	1.0b	Ub	1.0b
trans-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2,4-Trich orobenzeneb	1.0b	Ub	1.0b
1,2,3-Trich orobenzeneb	1.0b	Ub	1.0b
1,1,1-Trich oroethaneb	1.0b	Ub	1.0b
1,1,2-Trich oroethaneb	1.0b	Ub	1.0b
Trich oroetheneb	2.9.		1.0b
Trich orofluoromethaneb	1.0b	Ub	1.0b
1,2,3-Trich oropropaneb	1.0b	Ub	1.0b
1,2,4-Trimethylbenzeneb	1.0b	Ub	1.0b
1,3,5-Trimethylbenzeneb	1.0b	Ub	1.0b
Vinyl acetateb	2.0b	Ub	2.0b
Vinyl ch orideb	1.0b	Ub	1.0b
Xylenes, Totalb	2.0b	Ub	2.0b

urrogateb	%Recb	Qualifierb	Acceptance L0mitsb
4-Bromofluorobenzeneb	91b		75 - 120b
Dibromofluoromethaneb	92b		75 - 121b
Toluene-d8 (Surr)	97b		75 - 120b

Client Sample ID: **Trip BlankT**

Lab Sampe ID:b 680-61853-7b Date Sampled: 10/04/2010 0000b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b	8260Bb	Analysis Batch: 680-182239.		Instrument ID:b	MSPb
Preparation:b	5030Bb			Lab File ID:b	p0791.d
Dilution:b	1.0b			Initial Weight/Volume:b	5 mL0
Date Analyzed:b	10/07/2010 1647b			Final Weight/Volume:b	5 mL0
Date Prepared:b	10/07/2010 1647b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Acetoneb	25b	Ub	25b
Benzeneb	1.0b	Ub	1.0b
Bromobenzeneb	1.0b	Ub	1.0b
Bromoch oromethaneb	1.0b	Ub	1.0b
Bromoformb	1.0b	Ub	1.0b
Bromomethaneb	1.0b	Ub	1.0b
2-Butanone (MEK)b	10b	Ub	10b
arbon disulfideb	2.0b	Ub	2.0b
arbon tetrac h orideb	1.0b	Ub	1.0b
h orobenzeneb	1.0b	Ub	1.0b
h orodibromomethaneb	1.0b	Ub	1.0b
h oroethaneb	1.0b	Ub	1.0b
h oroformb	1.0b	Ub	1.0b
h oromethaneb	1.0b	Ub	1.0b
2-Cb orotolueneb	1.0b	Ub	1.0b
4-Cb orotolueneb	1.0b	Ub	1.0b
cis-1,2-Dich oroetheneb	1.0b	Ub	1.0b
cis-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2-Dibromo-3-Cb oropropaneb	1.0b	Ub	1.0b
1,2-Dibromoethaneb	1.0b	Ub	1.0b
Dibromomethaneb	1.0b	Ub	1.0b
1,3-Dich orobenzeneb	1.0b	Ub	1.0b
1,2-Dich orobenzeneb	1.0b	Ub	1.0b
1,4-Dich orobenzeneb	1.0b	Ub	1.0b
Dich orobromomethaneb	1.0b	Ub	1.0b
Dich orodifluoromethaneb	1.0b	Ub	1.0b
1,1-Dich oroethaneb	1.0b	Ub	1.0b
1,2-Dich oroethaneb	1.0b	Ub	1.0b
1,1-Dich oroetheneb	1.0b	Ub	1.0b
1,2-Dich oroethene, Totalb	2.0b	Ub	2.0b
1,2-Dich oropropaneb	1.0b	Ub	1.0b
2,2-Dich oropropaneb	1.0b	Ub	1.0b
1,3-Dich oropropaneb	1.0b	Ub	1.0b
1,1-Dich oropropeneb	1.0b	Ub	1.0b
Diethyl etherb	10b	Ub	10b
Ethylbenzeneb	1.0b	Ub	1.0b
Hexach orobutadieneb	1.0b	Ub	1.0b
2-Hexanoneb	10b	Ub	10b
Isopropylbenzeneb	1.0b	Ub	1.0b
Methylene Cb orideb	5.0b	Ub	5.0b
4-Methyl-2-pentanone (MIBK)b	10b	Ub	10b
Methyl tert-butyl etherb	10b	Ub	10b
m-Xylene & p-Xyleneb	2.0b	Ub	2.0b
Naphthaleneb	5.0b	Ub	5.0b
n-Butylbenzeneb	1.0b	Ub	1.0b
N-Propylbenzeneb	1.0b	Ub	1.0b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID: **Trip BlankT**

Lab Sampe ID:b 680-61853-7b Date Sampled: 10/04/2010 0000b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

Method:b 8260Bb Analysis Batch: 680-182239. Instrument ID:b MSPb
Preparation:b 5030Bb Lab File ID:b p0791.d
Dilution:b 1.0b Initial Weight/Volume:b 5 mL0
Date Analyzed:b 10/07/2010 1647b Final Weight/Volume:b 5 mL0
Date Prepared:b 10/07/2010 1647b

Analyteb	Result (ug/L)b	Qualifierb	RL0
o-Xyleneb	1.0b	Ub	1.0b
p-Isopropyltolueneb	1.0b	Ub	1.0b
sec-Butylbenzeneb	1.0b	Ub	1.0b
tyreneb	1.0b	Ub	1.0b
tert-Butylbenzeneb	1.0b	Ub	1.0b
1,1,2,2-Tetrach oroethaneb	1.0b	Ub	1.0b
1,1,1,2-Tetrach oroethaneb	1.0b	Ub	1.0b
Tetrach oroetheneb	1.0b	Ub	1.0b
Tolueneb	1.0b	Ub	1.0b
trans-1,2-Dich oroetheneb	1.0b	Ub	1.0b
trans-1,3-Dich oropropeneb	1.0b	Ub	1.0b
1,2,4-Trich orobenzeneb	1.0b	Ub	1.0b
1,2,3-Trich orobenzeneb	1.0b	Ub	1.0b
1,1,1-Trich oroethaneb	1.0b	Ub	1.0b
1,1,2-Trich oroethaneb	1.0b	Ub	1.0b
Trich oroetheneb	1.0b	Ub	1.0b
Trich orofluoromethaneb	1.0b	Ub	1.0b
1,2,3-Trich oropropaneb	1.0b	Ub	1.0b
1,2,4-Trimethylbenzeneb	1.0b	Ub	1.0b
1,3,5-Trimethylbenzeneb	1.0b	Ub	1.0b
Vinyl acetateb	2.0b	Ub	2.0b
Vinyl ch orideb	1.0b	Ub	1.0b
Xylenes, Totalb	2.0b	Ub	2.0b

urrogateb	%Recb	Qualifierb	Acceptance L0mitsb
4-Bromofluorobenzeneb	93b		75 - 120b
Dibromofluoromethaneb	91b		75 - 121b
Toluene-d8 (Surr)	96b		75 - 120b

Client Sample ID:T **MW-1T**

Lab Sampe ID:b 680-61853-1b Date Sampled: 10/04/2010 1338b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

6010C Metals (ICP)-Total Recoverable:eT

Method:b	6010Cb	Analysis Batch: 680-183127b		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	1015101039.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/15/2010 2250b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Arsenicb	20b	Ub	20b
Bariumb	33b		10b
admiumb	5.0b	Ub	5.0b
hromiumb	10b	Ub	10b
Ironb	8200b		50b
Lead	10b	Ub	10b
eleniumb	20b	Ub	20b
verb	10b	Ub	10b

Method:b	6010Cb	Analysis Batch: 680-183394c		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	18276961778.chrb
Dilution:b	10b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/18/2010 2030b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
odiumb	270000b		10000b

7470A Mercury (CVAA)T

Method:b	7470Ab	Analysis Batch: 680-182841b		Instrument ID:b	LEEMAN1b
Preparation:b	7470Ab	Prep Batch: 680-182342b		Lab File ID:	101 210.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/13/2010 1248b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/08/2010 1022b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Mercury	0.20b	Ub	0.20b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-2T**

Lab Sampe ID:b 680-61853-2b Date Sampled: 10/04/2010 1415b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

6010C Metals (ICP)-Total Recoverable:eT

Method:b	6010Cb	Analysis Batch: 680-183127b		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	1015101039.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/15/2010 2256b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Arsenicb	20b	Ub	20b
Bariumb	21		b0
admiumb	5.0b	Ub	5.0b
hromiumb	10b	Ub	10b
Ironb	6000b		50b
Lead	10	Ub	10b
eleniumb	20b	Ub	20b
verb	10	Ub	10b
odiumb	67000b		1000b

7470A Mercury (CVAA)T

Method:b	7470Ab	Analysis Batch: 680-182841b		Instrument ID:b	LEEMAN1b
Preparation:b	7470Ab	Prep Batch: 680-182342b		Lab File ID:	101 210.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/13/2010 1251b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/08/2010 1022b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Mercury	0.20b	Ub	0.20b

Client Sample ID:T **MW-3T**

Lab Sampe ID:b 680-61853-3b Date Sampled: 10/04/2010 1300b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

6010C Metals (ICP)-Total Recoverable:eT

Method:b	6010Cb	Analysis Batch: 680-183127b		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	1015101039.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/15/2010 2301b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Arsenicb	20b	Ub	20b
Bariumb	240		b0
admiumb	5.0b	Ub	5.0b
hromiumb	170b		10b
Ironb	1000b		50b
Lead	10b	Ub	10b
eleniumb	20b	Ub	20b
verb	10b	Ub	10b

Method:b	6010Cb	Analysis Batch: 680-183394c		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	18276961778.chrb
Dilution:b	10b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/18/2010 2035b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
odiumb	76000b		10000b

7470A Mercury (CVAA)T

Method:b	7470Ab	Analysis Batch: 680-182841b		Instrument ID:b	LEEMAN1b
Preparation:b	7470Ab	Prep Batch: 680-182342b		Lab File ID:	101 210.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/13/2010 1254c			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/08/2010 1022b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Mercury	0.20b	Ub	0.20b

Client Sample ID:T **MW-38T**

Lab Sampe ID:b 680-61853-4c Date Sampled: 10/04/2010 1600b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

6010C Metals (ICP)-Total Recoverable:eT

Method:b	6010Cb	Analysis Batch: 680-183127b		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	1015101039.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/15/2010 2306b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Arsenicb	20b	Ub	20b
Bariumb	59.		10b
admiumb	5.0b	Ub	5.0b
hromiumb	18b		10b
Ironb	16000b		50b
Lead	10	Ub	10b
eleniumb	20b	Ub	20b
verb	10	Ub	10b
odiumb	41000b		1000b

7470A Mercury (CVAA)T

Method:b	7470Ab	Analysis Batch: 680-182841b		Instrument ID:b	LEEMAN1b
Preparation:b	7470Ab	Prep Batch: 680-182342b		Lab File ID:	101 210.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/13/2010 1257b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/08/2010 1022b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Mercury	0.20b	Ub	0.20b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-39T**

Lab Sampe ID:b 680-61853-5b Date Sampled: 10/04/2010 1200b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

6010C Metals (ICP)-Total Recoverable:eT

Method:b	6010Cb	Analysis Batch: 680-183127b		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	1015101039.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/15/2010 2312b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Arsenicb	20b	Ub	20b
Bariumb	69.		10b
admiumb	5.0b	Ub	5.0b
hromiumb	10b	Ub	10b
Ironb	71b		50b
Lead	10	Ub	10b
eleniumb	20b	Ub	20b
verb	10	Ub	10b
odiumb	23000b		1000b

7470A Mercury (CVAA)T

Method:b	7470Ab	Analysis Batch: 680-182841b		Instrument ID:b	LEEMAN1b
Preparation:b	7470Ab	Prep Batch: 680-182342b		Lab File ID:	101 210.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/13/2010 1307b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/08/2010 1022b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Mercury	0.20b	Ub	0.20b

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Client Sample ID:T **MW-14**

Lab Sampe ID:b 680-61853-6b Date Sampled: 10/04/2010 1500b
ent Matrix:b Waterb Date Received: 10/05/2010 0938b

6010C Metals (ICP)-Total Recoverable:eT

Method:b	6010Cb	Analysis Batch: 680-183127b		Instrument ID:b	ICPDb
Preparation:b	3005Ab	Prep Batch: 680-182769.		Lab File ID:b	1015101039.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/15/2010 2317b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/13/2010 0953b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Arsenicb	20b	Ub	20b
Bariumb	31b		10b
admiumb	5.0b	Ub	5.0b
hromiumb	10b	Ub	10b
Ironb	140		50
Lead	10	Ub	10b
eleniumb	20b	Ub	20b
verb	10	Ub	10b
odiumb	19000b		1000b

7470A Mercury (CVAA)T

Method:b	7470Ab	Analysis Batch: 680-182841b		Instrument ID:b	LEEMAN1b
Preparation:b	7470Ab	Prep Batch: 680-182342b		Lab File ID:	101 210.chrb
Dilution:b	1.0b			Initial Weight/Volume:b	50 mL0
Date Analyzed:b	10/13/2010 1310b			Final Weight/Volume:b	50 mL0
Date Prepared:b	10/08/2010 1022b				

Analyteb	Result (ug/L)b	Qualifierb	RL0
Mercury	0.20b	Ub	0.20b

General ChemistryT

Client Sample ID:T **MW-1T**

Lab Sampe ID:b 680-61853-1b Date Sampled: 10/04/2010 1338b

ent Matrix:b Waterb Date Received: 10/05/2010 0938b

Analyteb	Resultb	Qualb	Unitsb	RL0	Dilb	Method
ulfateb	260b		mg/L0	50b	10b	9038b

Analysis Batch: 680-183035b Date Analyzed: 10/14/2010 1737

General ChemistryT

Client Sample ID:T **MW-2T**

Lab Sampe ID:b 680-61853-2b Date Sampled: 10/04/2010 1415b

ent Matrix:b Waterb Date Received: 10/05/2010 0938b

Analyteb	Resultb	Qualb	Unitsb	RL0	Dilb	Method
ulfateb	280b		mg/L0	50b	10b	9038b

Analysis Batch: 680-183035b Date Analyzed: 10/14/2010 1735

General ChemistryT

Client Sample ID:T **MW-3T**

Lab Sampe ID:b 680-61853-3b Date Sampled: 10/04/2010 1300b

ent Matrix:b Waterb Date Received: 10/05/2010 0938b

Analyteb	Resultb	Qualb	Unitsb	RL0	Dilb	Method
ulfateb	57b		mg/L0	10b	2.0b	9038b

Analysis Batch: 680-183035b Date Analyzed: 10/14/2010 1716

General ChemistryT

Client Sample ID:T **MW-38T**

Lab Sampe ID:b 680-61853-4c Date Sampled: 10/04/2010 1600b

ent Matrix:b Waterb Date Received: 10/05/2010 0938b

Analyteb	Resultb	Qualb	Unitsb	RL0	Dilb	Method
ulfateb	27b		mg/L0	5.0b	1.0b	9038b

Analysis Batch: 680-183035b Date Analyzed: 10/14/2010 1708

General ChemistryT

Client Sample ID:T **MW-39T**

Lab Sampe ID:b 680-61853-5b Date Sampled: 10/04/2010 1200b

ent Matrix:b Waterb Date Received: 10/05/2010 0938b

Analyteb	Resultb	Qualb	Unitsb	RL0	Dilb	Method
ulfateb	12b		mg/L0	5.0b	1.0b	9038b

Analysis Batch: 680-183035b Date Analyzed: 10/14/2010 1708

General ChemistryT

Client Sample ID:T **MW-14**

Lab Sampe ID:b 680-61853-6b Date Sampled: 10/04/2010 1500b

ent Matrix:b Waterb Date Received: 10/05/2010 0938b

Analyteb	Resultb	Qualb	Unitsb	RL0	Dilb	Method
ulfateb	21b		mg/L0	5.0b	1.0b	9038b

Analysis Batch: 680-183035b Date Analyzed: 10/14/2010 1708

D T R PORT N U LIFa RSh

ent: ARCADIS U.S., Inc.b Job Number: 680-61853-1b

Lab Sectionp	u alifierM	Descriptionp
G /MN VOAb		
	Ub	IndFcateb the ana.yte wa. ana.yzed for but not detected.b
		L* or L* D e xceedF the control limitb
	E4	Rebult exceeded ca. ration range.b
		RPD of the L* and L* D e xceedF the control limitb
Meta.		
	Ub	IndFcateb the ana.yte wa. ana.yzed for but not detected.b
Genera. Chemibtryl		
	Ub	IndFcateb the ana.yte wa. ana.yzed for but not detected.b

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

MeVhod Bv nk - Bv ch: 680-1822u9l **MeVhod: 8260Bv**
Prepuru on: 5060Bv

Lab Sampl) ID) MB 680-1) 2239/F
Cli) Mabix J Wab
il u.io. 1.0.
ab . alyzUd 10/07/2010 1153T
ab P pab d 10/07/2010 1153T

alysis Batch. 680-1) 2239c
P p Batch. N/F
Units) ug/LR

Ins)bume. ID) MSP
Lab Fil) ID) pq395.d
Initial WMgh./Volume:. 5 mLR
Fina) WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
c o.	25	U)	25M
B zU	1.0	U	)1.0.
B.omobe. zU	1.0.	U	)1.0.
B.omochlorome.hab	1.0.	U	)1.0.
B.omoform.	1.0.	U	)1.0.
B.omome.hab	1.0.	U	)1.0.
2-Bu.abo. (MEK)N	10.	U)	10.
Catbo. disulfid	2.0.	U)	2.0.
Carbo. . achlorid	1.0.	U	)1.0.
Chlorobe. zU	1.0.	U	)1.0.
Chlorodibromome.hab	1.0.	U	)1.0.
Chloroe.hab	1.0.	U	)1.0.
Chloroform.	1.0.	U	)1.0.
Chlorome.hab	1.0.	U	)1.0.
2-Chloro.olue.	1.0.	U	)1.0.
4-Chloro.olue.	1.0.	U	)1.0.
cis-1,2-.ic hloroe.h.	1.0.	U	)1.0.
cis-1,3-.ic hlorop2opp2	1.0.	U	)1.0.
1,2-.i bromo-3-Chlorop2opab	1.0.	U	)1.0.
1,2-.i bromoe.hab	1.0.	U	)1.0.
i bromome.hab	1.0.	U	)1.0.
1,3-.ic hlorobe. zU	1.0.	U	)1.0.
1,2-.ic hlorobe. zU	1.0.	U	)1.0.
1,4-.ic hlorobe. zU	1.0.	U	)1.0.
ic hlorobromome.hab	1.0.	U	)1.0.
ic hlorodifluorome.hab	1.0.	U	)1.0.
1,1-.ic hloroe.hab	1.0.	U	)1.0.
1,2-.ic hloroe.hab	1.0.	U	)1.0.
1,1-.ic hloroe.h.	1.0.	U	)1.0.
1,2-.ic hloroe.h. , To.al)	2.0.	U)	2.0.
1,2-.ic hlorop2opab	1.0.	U	)1.0.
2,2-.ic hlorop2opab	1.0.	U	)1.0.
1,3-.ic hlorop2opab	1.0.	U	)1.0.
1,1-.ic hlorop2opp2	1.0.	U	)1.0.
i hyl e h.	10.	U)	10.
Effhylbe. zU	1.0.	U	)1.0.
Hbxachlorobu.adi)	1.0.	U	)1.0.
2-H xa o.	10.	U)	10.
Isop2opylbe. zU	1.0.	U	)1.0.
MNhyl) Chlorid	5.0.	U)	5.0.
4-MNhyl-2-p2 abo. (MIBK)N	10.	U)	10.
MNhyl . -bu.yl e.h.	10.	U)	10.
m-Xyl) & p-Xyl)	2.0.	U)	2.0.

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1) 53-1)

MeVhod Bv nk - Bv ch: 680-1822u9l **MeVhod: 8260Bv**
Prepuru on: 5060Bv

Lab Sampl) ID) MB 680-1) 2239/F
Cli) Mabix J Wab
il u.io. 1.0.
ab . alyzUd 10/07/2010 1153T
ab P pab d 10/07/2010 1153T

alysis Babch. 680-1) 2239c
P p Babch. N/F
Units)b ug/LR

Ins)bume. ID) MSP
Lab Fil) ID) pq395.d
Initial WMgh./Volume:. 5 mLR
Fin)al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
Naph.hal)	5.0.	U)	5.0.
-Bu.ylbe. zU	1.0.	U	1.0.
N-P opylbe. zU	1.0.	U	1.0.
o-Xyl)	1.0.	U	1.0.
p-Isop2opylt)lue.	1.0.	U	1.0.
sbc-Bu.ylbe. zU	1.0.	U	1.0.
St)yS	1.0.	U	1.0.
-Bu.ylbe. zU	1.0.	U	1.0.
1,1,2,2-Tb achloroe.hab	1.0.	U	1.0.
1,1,1,2-Tb achloroe.hab	1.0.	U	1.0.
Tb achloroe.h.	1.0.	U	1.0.
Tolue.	1.0.	U	1.0.
abs-1,2-.ic hloroe.h.	1.0.	U	1.0.
abs-1,3-.ic hlorop2op2	1.0.	U	1.0.
1,2,4-Tbichlorobe. zU	1.0.	U	1.0.
1,2,3-Tbichlorobe. zU	1.0.	U	1.0.
1,1,1-Tbichloroe.hab	1.0.	U	1.0.
1,1,2-Tbichloroe.hab	1.0.	U	1.0.
Tbichloroe.h.	1.0.	U	1.0.
Tbichlorofluorome.hab	1.0.	U	1.0.
1,2,3-Tbichlorop2opab	1.0.	U	1.0.
1,2,4-Tbime.hylbe. zU	1.0.	U	1.0.
1,3,5-Tbime.hylbe. zU	1.0.	U	1.0.
Vin)yl ac) ab	2.0.	U)	2.0.
Vin)yl chlorid	1.0.	U	1.0.
Xyl) s, To.al)	2.0.	U)	2.0.

Surrogab	% . c)	cc) p2abc) Limit)sb
4-B.omofluorobe. zU	92b	75 - 120.
i bromofluorome.hab	90.	75 - 121)
Tolue. - d (Surr)N	9c	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

TCLPuSPLPED LeVchc eVBv nk - Bv ch: 680-1822u9l **MeVhod: 8260Bv**
Prepuru on: 5060Bv

Lab Sampl) ID)	LB 680-1) 2145/7-.		alysis Batch.	680-1) 2239c	
Cli) Mabix	Wab		P p Batch.	N/F	
il u.io.	20.		Units)	ug/LR	
ab . alyzUd	10/07/2010 1223T				
ab P pab d	10/07/2010 1223T				
ab LRach. d	10/06/2010 1)0 7b		LRachab Batch.	680-1) 2145M	

Ins)bume. ID)	MSP				
Lab Fil) ID)	p0773.d				
Initial WMgh./Volume:	5	mLR			
Fin)al WMgh./Volume:	5	mLR			

alyS	sult)	QualR)	LR
B. zU	20.	U)	20.
2-Bu.abo. (MEK)N	200.	U)	200.
Catbo. . achlorid	20.	U)	20.
Chlorobe. zU	20.	U)	20.
Chloroform.	20.	U)	20.
1,2-.ic hloroe.hab	20.	U)	20.
1,1-.ic hloroe.h.	20.	U)	20.
Tb achloroe.h.	20.	U)	20.
Tbichloroe.h.	20.	U)	20.
Viny)l chlorid	20.	U)	20.

Surrogab	% . c)	cc) p2abc) Limit)sb
4-B.omofluorobe. zU	93T	75 - 120.
i bromofluorome.hab		75 - 121)
Tolue. - d (Surr)N	9c	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-1822u9l **Prepuru on: 5060Bv**

LCS Lab Sampl) ID)	LCS 680-1) 2239/5M	alysis Babch. 680-1) 2239c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq3T7.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/07/2010 095M		Fin$al WMgh./Volume:. 5 mLR
ab P pab d	10/07/2010 095M		

LCSD)Lab Sampl) ID)	LCSD)680-1) 2239/F	alysis Babch. 680-1) 2239c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq3T9.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/07/2010 1025M		Fin$al WMgh./Volume:. 5 mLR
ab P pab d	10/07/2010 1025M		

	% . c.)						
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
c) o.		7b	17 - 175M	1)	50.		
B. zU	9c	99c	77 - 119c	1)	30.		
B.omobe. zU	94c	93T	0 - 124c	1)	30.		
B.omochlorome.hab	9c	9c	10 - 150.	2b	30.		
B.omoform.	99c	100.	2 - 133T	0.	30.		
B.omome.hab	143T	14c	12 - 1) 4c	2b	50.		
2-Bu.abo. (MEK)N	100.	9c	33 - 157b	2b	30.		
Catbo. disulfid	93T	93T	55 - 131)	1)	30.		
Catbo. . achlorid	11)	117b	71 - 135M	1)	30.		
Chlorobe. zU	95M	97b	5 - 11)	2b	30.		
Chlorodibromome.hab	104c	106.	75 - 133T	1)	30.		
Chloroe.hab	124c	114c	40 - 1) 5M	9c	50.		
Chloroform.	101)	99c	2 - 120.	2b	30.		
Chlorome.hab	105M	100.	4c- 142b	5M	50.		
2-Chloro.olue.	94c	94c	2 - 123T	1)	30.		
4-Chloro.olue.	9c	9c	3 - 122b	2b	30.		
cis-1,2-.ic hloroe.h.	93T	93T	9 - 134c	0.	30.		
cis-1,3-.ic hlorop2opp2	107b	107b	7b- 12b	0.	30.		
1,2-.i bromo-3-Chlorop2opab	5M	2b	49 - 140.	4c	30.		
1,2-.i bromoe.hab	95M	95M	0 - 121)	0.	30.		
i bromome.hab	94c	97b	7b- 119c	3T	30.		
1,3-.ic hlorobe. zU	94c	95M	7b- 125M	0.	30.		
1,2-.ic hlorobe. zU	93T	93T	79 - 124c	0.	30.		
1,4-.ic hlorobe. zU	9c	9c	1 - 122b	0.	30.		
ic hlorobromome.hab	107b	108.	7b- 127b	1)	30.		
ic hlorodifluorome.hab		7b	34 - 154c	1)	30.		
1,1-.ic hloroe.hab	101)	100.	74 - 127b	1)	30.		
1,2-.ic hloroe.hab	99c	9c	- 132b	0.	30.		
1,1-.ic hloroe.h.	95M	95M	2 - 141)	0.	30.		
1,2-.ic hloroe.h. , To.al)	9c	95M	- 134c	1)	30.		
1,2-.ic hlorop2opab	101)	100.	73 - 124c	0.	30.		
2,2-.ic hlorop2opab	110.	110.	55 - 157b	1)	30.		
1,3-.ic hlorop2opab	94c	97b	75 - 120.	3T	30.		

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1) 53-1)

LUbluConurouSVmpue/U **MeVhod: 8260Bv**
LUbluConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-1822u9l **Prepuru on: 5060Bv**

LCS Lab Sampl) ID) LCS 680-1) 2239/5M alysis Babch. 680-1) 2239c In$bume. ID) MSP
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq3T7.d
il u.io. 1.0. Units$b ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/07/2010 095M Fina$al WMgh./Volume:. 5 mLR
ab P pab d 10/07/2010 095M

LCSD)Lab Sampl) ID) LCSD)680-1) 2239/F alysis Babch. 680-1) 2239c In$bume. ID) MSP
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq3T9.d
il u.io. 1.0. Units$b ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/07/2010 1025M Fina$al WMgh./Volume:. 5 mLR
ab P pab d 10/07/2010 1025M

	% . c.)						
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
1,1-.ic hlorop2opp2	104c	103T	77 - 122b	1)	30.		
Effhylbe. zU	9c	9c	- 11)	0.	30.		
Hbxachlorobu.adi)	101)	101)	2 - 142b	1)	30.		
2-Hbxabo.	95M	94c	34 - 1) 1)	1)	30.		
Isop2opylbe. zU	100.	99c	2 - 121)	1)	30.		
MNhyl) Chlorid	95M	92b	70 - 125M	4c	30.		
4-MNhyl-2-p2 abo. (MIBK)N	95M	9c	40 - 151)	3T	30.		
MNhyl . -bu.yl e.h.	94c	93T	77 - 121)	2b	30.		
m-Xyl) & p-Xyl)	97b	9c	3 - 11)	1)	30.		
Naph.hal)	107b	112b	4c- 135M	4c	30.		
-Bu.ylbe. zU	117b	119c	4 - 13T	2b	30.		
N-P opylbe. zU	97b	9c	0 - 12b	1)	30.		
o-Xyl)	109c	108.	3 - 119c	1)	30.		
p-Isop2opylto)lue.	100.	102b	3 - 139c	2b	30.		
sbc-Bu.ylbe. zU	100.	101)	77 - 12b	2b	30.		
StyS	9c	97b	2 - 122b	1)	30.		
-Bu.ylbe. zU	99c	99c	0 - 124c	0.	30.		
1,1,2,2-Tb achloroe.hab	91)	93T	9 - 129c	2b	30.		
1,1,1,2-Tb achloroe.hab	106.	107b	1 - 12b	1)	30.		
Tb achloroe.h.	91)	92b	7b- 12b	1)	30.		
Tolue.	99c	101)	1 - 117b	1)	30.		
abs-1,2-.ic hloroe.h.	9c	9c	72 - 131)	1)	30.		
abs-1,3-.ic hlorop2opp2	107b	106.	73 - 12b	1)	30.		
1,2,4-Tbichlorobe. zU	93T	95M	0 - 135M	2b	30.		
1,2,3-Tbichlorobe. zU	92b	9c	0 - 132b	4c	30.		
1,1,1-Tbichloroe.hab	107b	108.	7b- 127b	1)	30.		
1,1,2-Tbichloroe.hab	9c	9c	75 - 121)	0.	30.		
Tbichloroe.h.	9c	97b	4 - 115M	2b	30.		
Tbichlorofluorome.hab	117b	117b	5M- 149c	0.	50.		
1,2,3-Tbichlorop2opab	91)	9c	70 - 130.	2b	30.		
1,2,4-Tbime.hylbe. zU	103T	106.	72 - 132b	2b	30.		
1,3,5-Tbime.hylbe. zU	9c	9c	72 - 133T	2b	30.		
Vinyl ac) ab	108.	104c	10 - 217b	4c	30.		

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-1822u9l **Prepuru on: 5060Bv**

LCS Lab Sampl) ID)	LCS 680-1) 2239/5M	alysis Babch. 680-1) 2239c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq3T7.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/07/2010 095M		Fin$al WMgh./Volume:. 5 mLR
ab P pab d	10/07/2010 095M		

LCSD)Lab Sampl) ID)	LCSD)680-1) 2239/F	alysis Babch. 680-1) 2239c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq3T9.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/07/2010 1025M		Fin$al WMgh./Volume:. 5 mLR
ab P pab d	10/07/2010 1025M		

alyS	LCS)	% . c.) LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
Vin$yl chlorid	111)	110.	59 - 144c	1)	50.		
Xyl) s, To.al)	101)	101)	4 - 11)	0.	30.		

Surrogab	LCS % . c)	LCSD)% . c)	cc) p2abc) Limit$b
4-B.omofluorobe. zU	97b	97b	75 - 120.
i bromofluorome.hab	95M	93T	75 - 121)
Tolue. - d (Surr)N	97b	99c	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

MeVhod Bv nk - Bv ch: 680-182404 **MeVhod: 8260Bv**
Prepuru on: 5060Bv

Lab Sampl) ID) MB 680-1) 2404/7b
Cli) Mabix J Wab
il u.io. 1.0.
ab . alyzUd 10/08/2010 1224c
ab P pab d 10/08/2010 1224c

alysis Batch. 680-1) 2404c
P p Batch. N/F
Units)b ug/LR

Ins)bume. ID) MSP
Lab Fil) ID) pq411.d
Initial WMgh./Volume:. 5 mLR
Fin)al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
c o.	25	U)	25M
B zU	1.0	U	1.0.
B.omobe. zU	1.0.	U	1.0.
B.omochlorome.hab	1.0.	U	1.0.
B.omoform.	1.0.	U	1.0.
B.omome.hab	1.0.	U	1.0.
2-Bu.abo. (MEK)N	10.	U)	10.
Catbo. disulfid	2.0.	U)	2.0.
Carbo. . achlorid	1.0.	U	1.0.
Chlorobe. zU	1.0.	U	1.0.
Chlorodibromome.hab	1.0.	U	1.0.
Chloroe.hab	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chlorome.hab	1.0.	U	1.0.
2-Chloro.olue.	1.0.	U	1.0.
4-Chloro.olue.	1.0.	U	1.0.
cis-1,2-.ic hloroe.h.	1.0.	U	1.0.
cis-1,3-.ic hlorop2opp2	1.0.	U	1.0.
1,2-.i bromo-3-Chlorop2opab	1.0.	U	1.0.
1,2-.i bromoe.hab	1.0.	U	1.0.
i bromome.hab	1.0.	U	1.0.
1,3-.ic hlorobe. zU	1.0.	U	1.0.
1,2-.ic hlorobe. zU	1.0.	U	1.0.
1,4-.ic hlorobe. zU	1.0.	U	1.0.
ic hlorobromome.hab	1.0.	U	1.0.
ic hlorodifluorome.hab	1.0.	U	1.0.
1,1-.ic hloroe.hab	1.0.	U	1.0.
1,2-.ic hloroe.hab	1.0.	U	1.0.
1,1-.ic hloroe.h.	1.0.	U	1.0.
1,2-.ic hloroe.h. , To.al)	2.0.	U)	2.0.
1,2-.ic hlorop2opab	1.0.	U	1.0.
2,2-.ic hlorop2opab	1.0.	U	1.0.
1,3-.ic hlorop2opab	1.0.	U	1.0.
1,1-.ic hlorop2opp2	1.0.	U	1.0.
i hyl e h.	10.	U)	10.
EFhylbe. zU	1.0.	U	1.0.
Hbxachlorobu.adi)	1.0.	U	1.0.
2-H xa o.	10.	U)	10.
Isop2opylbe. zU	1.0.	U	1.0.
MNhyl) Chlorid	5.0.	U)	5.0.
4-MNhyl-2-p2 abo. (MIBK)N	10.	U)	10.
MNhyl . -bu.yl e.h.	10.	U)	10.
m-Xyl) & p-Xyl)	2.0.	U)	2.0.

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1) 53-1)

MeVhod Bv nk - Bv ch: 680-182404 **MeVhod: 8260Bv**
Prepuru on: 5060Bv

Lab Sampl) ID) MB 680-1) 2404/7b
Cli) Mabix J Wab
il u.io. 1.0.
ab . alyzUd 10/08/2010 1224c
ab P pab d 10/08/2010 1224c

alysis Batch. 680-1) 2404c
P p Batch. N/F
Units) ug/LR

Ins)bume. ID) MSP
Lab Fil) ID) pq411.d
Initial WMgh./Volume:. 5 mLR
Fin)al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
Naph.hal)	5.0.	U)	5.0.
-Bu.ylbe. zU	1.0.	U	1.0.
N-P opylbe. zU	1.0.	U	1.0.
o-Xyl)	1.0.	U	1.0.
p-Isop2opylt)olue.	1.0.	U	1.0.
sbc-Bu.ylbe. zU	1.0.	U	1.0.
St)yS	1.0.	U	1.0.
-Bu.ylbe. zU	1.0.	U	1.0.
1,1,2,2-Tb achloroe.hab	1.0.	U	1.0.
1,1,1,2-Tb achloroe.hab	1.0.	U	1.0.
Tb achloroe.h.	1.0.	U	1.0.
Tolue.	1.0.	U	1.0.
abs-1,2-.ic hloroe.h.	1.0.	U	1.0.
abs-1,3-.ic hlorop2op2	1.0.	U	1.0.
1,2,4-Tbichlorobe. zU	1.0.	U	1.0.
1,2,3-Tbichlorobe. zU	1.0.	U	1.0.
1,1,1-Tbichloroe.hab	1.0.	U	1.0.
1,1,2-Tbichloroe.hab	1.0.	U	1.0.
Tbichloroe.h.	1.0.	U	1.0.
Tbichlorofluorome.hab	1.0.	U	1.0.
1,2,3-Tbichlorop2opab	1.0.	U	1.0.
1,2,4-Tbime.hylbe. zU	1.0.	U	1.0.
1,3,5-Tbime.hylbe. zU	1.0.	U	1.0.
Viny)l ac) ab	2.0.	U)	2.0.
Viny)l chlorid	1.0.	U	1.0.
Xyl) s, To.al)	2.0.	U)	2.0.

Surrogab	% . c)	cc) p2abc) Limit)sb
4-B.omofluorobe. zU	91)	75 - 120.
i bromofluorome.hab	90.	75 - 121)
Tolue. - d (Surr)N	97b	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-182404 **Prepuru on: 5060Bv**

LCS Lab Sampl) ID)	LCS 680-1) 2404/4c	alysis Babch. 680-1) 2404c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq403.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/08/2010 1015M		Fina) WMgh./Volume:. 5 mLR
ab P pab d	10/08/2010 1015M		

LCSD)Lab Sampl) ID)	LCSD)680-1) 2404/5M	alysis Babch. 680-1) 2404c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq405.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/08/2010 105M		Fina) WMgh./Volume:. 5 mLR
ab P pab d	10/08/2010 105M		

	% . c.)						
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
c) o.	5M	1)	17 - 175M	5M	50.		
B. zU	9c	9c	77 - 119c	0.	30.		
B.omobe. zU	93T	90.	0 - 124c	3T	30.		
B.omochlorome.hab	95M	97b	10 - 150.	2b	30.		
B.omoform.	97b	9c	2 - 133T	1)	30.		
B.omome.hab	147b	1) 2b	12 - 1) 4c	10.	50.		
2-Bu.abo. (MEK)N	95M	9c	33 - 157b	0.	30.		
Catbo. disulfid	9c	95M	55 - 131)	2b	30.		
Catbo. . achlorid	11)	11)	71 - 135M	0.	30.		
Chlorobe. zU	97b	9c	5 - 11)	1)	30.		
Chlorodibromome.hab	103T	102b	75 - 133T	1)	30.		
Chloroe.hab	12b	137b	40 - 1) 5M	7b	50.		
Chloroform.	99c	9c	2 - 120.	1)	30.		
Chlorome.hab	109c	110.	4c- 142b	0.	50.		
2-Chloro.olue.	94c	92b	2 - 123T	2b	30.		
4-Chloro.olue.	94c	93T	3 - 122b	1)	30.		
cis-1,2-.ic hloroe.h.	95M	93T	9 - 134c	2b	30.		
cis-1,3-.ic hlorop2bp2	104c	105M	7b- 12b	2b	30.		
1,2-.i bromo-3-Chlorop2bpab	7b	7b	49 - 140.	3T	30.		
1,2-.i bromoe.hab	9c	92b	0 - 121)	3T	30.		
i bromome.hab	94c	94c	7b- 119c	0.	30.		
1,3-.ic hlorobe. zU	92b	90.	7b- 125M	2b	30.		
1,2-.ic hlorobe. zU	92b	9c	79 - 124c	3T	30.		
1,4-.ic hlorobe. zU	93T	92b	1 - 122b	2b	30.		
ic hlorobromome.hab	106.	106.	7b- 127b	1)	30.		
ic hlorodifluorome.hab	9c	9c	34 - 154c	2b	30.		
1,1-.ic hloroe.hab	99c	100.	74 - 127b	2b	30.		
1,2-.ic hloroe.hab	95M	9c	- 132b	1)	30.		
1,1-.ic hloroe.h.	97b	9c	2 - 141)	1)	30.		
1,2-.ic hloroe.h. , To.al)	9c	95M	- 134c	2b	30.		
1,2-.ic hlorop2bpab	100.	100.	73 - 124c	0.	30.		
2,2-.ic hlorop2bpab	111)	113T	55 - 157b	2b	30.		
1,3-.ic hlorop2bpab	92b	92b	75 - 120.	0.	30.		

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-182404 **Prepuru on: 5060Bv**

LCS Lab Sampl) ID) LCS 680-1) 2404/4c alysis Babch. 680-1) 2404c In$bume. ID) MSP
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq403.d
il u.io. 1.0. Units$b ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 1015M Fina) WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 1015M

LCSD)Lab Sampl) ID) LCSD)680-1) 2404/5M alysis Babch. 680-1) 2404c In$bume. ID) MSP
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq405.d
il u.io. 1.0. Units$b ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 105M Fina) WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 105M

	% . c.)						
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
1,1-.ic hlorop2opp2	102b	102b	77 - 122b	0.	30.		
i) hyl e.h.	101)	0.	70 - 130.	200.	30.		U *b
Eh ylbe. zU	100.	9c	- 11)	2b	30.		
Hbxachlorobu.adi)	93T	9c	2 - 142b	4c	30.		
2-Hbxabo.	92b	91)	34 - 1) 1)	0.	30.		
Isop2opylbe. zU	99c	97b	2 - 121)	3T	30.		
MNhyl) Chlorid	95M	95M	70 - 125M	0.	30.		
4-MNhyl-2-p2 abo. (MIBK)N	91)	92b	40 - 151)	1)	30.		
MNhyl . -bu.yl e.h.	95M	93T	77 - 121)	2b	30.		
m-Xyl) & p-Xyl)	9c	97b	3 - 11)	1)	30.		
Naph.hal)	102b	97b	4c- 135M	5M	30.		
-Bu.ylbe. zU	115M	110.	4 - 13T	4c	30.		
N-P opylbe. zU	9c	94c	0 - 12b	2b	30.		
o-Xyl)	109c	106.	3 - 119c	3T	30.		
p-Isop2opylt)lue.	9c	95M	3 - 139c	3T	30.		
sbc-Bu.ylbe. zU	9c	94c	77 - 12b	4c	30.		
StyS	97b	97b	2 - 122b	0.	30.		
-Bu.ylbe. zU	97b	93T	0 - 124c	3T	30.		
1,1,2,2-Tb achloroe.hab	906.		9 - 129c	2b	30.		
1,1,1,2-Tb achloroe.hab	106.	104c	1 - 12b	2b	30.		
Tb achloroe.h.	93T	91)	7b- 12b	1)	30.		
Tolue.	9c	9c	1 - 117b	0.	30.		
abs-1,2-.ic hloroe.h.	9c	97b	72 - 131)	1)	30.		
abs-1,3-.ic hlorop2opp2	102b	104c	73 - 12b	2b	30.		
1,2,4-Tbichlorobe. zU	7b	2b	0 - 135M	5M	30.		
1,2,3-Tbichlorobe. zU		0.	0 - 132b	7b	30.		
1,1,1-Tbichloroe.hab	106.	107b	7b- 127b	1)	30.		
1,1,2-Tbichloroe.hab	95M	93T	75 - 121)	3T	30.		
Tbichloroe.h.	95M	95M	4 - 115M	1)	30.		
Tbichlorofluorome.hab	119c	120.	5M- 149c	0.	50.		
1,2,3-Tbichlorop2opab		4c	70 - 130.	2b	30.		
1,2,4-Tbime.hylbe. zU	101)	101)	72 - 132b	1)	30.		
1,3,5-Tbime.hylbe. zU	97b	94c	72 - 133T	2b	30.		

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-182404 **Prepuru on: 5060Bv**

LCS Lab Sampl) ID)	LCS 680-1) 2404/4c	alysis Babch. 680-1) 2404c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq403.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/08/2010 1015M		Fin$al WMgh./Volume:. 5 mLR
ab P pab d	10/08/2010 1015M		

LCSD)Lab Sampl) ID)	LCSD)680-1) 2404/5M	alysis Babch. 680-1) 2404c	In$bume. ID) MSP
Cli) MabixJ	Wab	P p Babch. N/F	Lab Fil) ID) pq405.d
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 5 mLR
ab . alyzUd	10/08/2010 105M		Fin$al WMgh./Volume:. 5 mLR
ab P pab d	10/08/2010 105M		

	% . c.)					
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual) LCSD)Qual)
Vin$yl ac) ab	108.	106.	10 - 217b	3T	30.	
Vin$yl chlorid	117b	114c	59 - 144c	3T	50.	
Xyl) s, To.al)	102b	100.	4 - 11)	1)	30.	

Surrogab	LCS % . c)	LCSD)% . c)	cc) p2abc) Limit$b
4-B.omofluorobe. zU	94c	94c	75 - 120.
i bromofluorome.hab	92b	92b	75 - 121)
Tolue. - d (Surr)N	9c	9c	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1) 53-1)

MeVhod Bv nk - Bv ch: 680-1825086 **MeVhod: 8260Bv**
Prepuru on: 5060Bv

Lab Sampl) ID) MB 680-1) 2508/23T
Cli) Mabix J Wab
il u.io. 1.0.
ab . alyzUd 10/08/2010 1209c
ab P pab d 10/08/2010 1209c

alysis Batch. 680-1) 2508.
P p Batch. N/F
Units)b ug/LR

Ins)bume. ID) MSP2b
Lab Fil) ID) pq410.d
Initial WMgh./Volume:. 5 mLR
Fina)al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
c o.	25	U)	25M
B zU	1.0	U	1.0.
B.omobe. zU	1.0.	U	1.0.
B.omochlorome.hab	1.0.	U	1.0.
B.omoform.	1.0.	U	1.0.
B.omome.hab	1.0.	U	1.0.
2-Bu.abo. (MEK)N	10.	U)	10.
Catbo. disulfid	2.0.	U)	2.0.
Carbo. . achlorid	1.0.	U	1.0.
Chlorobe. zU	1.0.	U	1.0.
Chlorodibromome.hab	1.0.	U	1.0.
Chloroe.hab	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chlorome.hab	1.0.	U	1.0.
2-Chloro.olue.	1.0.	U	1.0.
4-Chloro.olue.	1.0.	U	1.0.
cis-1,2-.ic hloroe.h.	1.0.	U	1.0.
cis-1,3-.ic hlorop2opp2	1.0.	U	1.0.
1,2-.i bromo-3-Chlorop2opab	1.0.	U	1.0.
1,2-.i bromoe.hab	1.0.	U	1.0.
i bromome.hab	1.0.	U	1.0.
1,3-.ic hlorobe. zU	1.0.	U	1.0.
1,2-.ic hlorobe. zU	1.0.	U	1.0.
1,4-.ic hlorobe. zU	1.0.	U	1.0.
ic hlorobromome.hab	1.0.	U	1.0.
ic hlorodifluorome.hab	1.0.	U	1.0.
1,1-.ic hloroe.hab	1.0.	U	1.0.
1,2-.ic hloroe.hab	1.0.	U	1.0.
1,1-.ic hloroe.h.	1.0.	U	1.0.
1,2-.ic hloroe.h. , To.al)	2.0.	U)	2.0.
1,2-.ic hlorop2opab	1.0.	U	1.0.
2,2-.ic hlorop2opab	1.0.	U	1.0.
1,3-.ic hlorop2opab	1.0.	U	1.0.
1,1-.ic hlorop2opp2	1.0.	U	1.0.
i hyl e h.	10.	U)	10.
EFhylbe. zU	1.0.	U	1.0.
Hbxachlorobu.adi)	1.0.	U	1.0.
2-H xa o.	10.	U)	10.
Isop2opylbe. zU	1.0.	U	1.0.
MNhyl) Chlorid	5.0.	U)	5.0.
4-MNhyl-2-p2 abo. (MIBK)N	10.	U)	10.
MNhyl . -bu.yl e.h.	10.	U)	10.
m-Xyl) & p-Xyl)	2.0.	U)	2.0.

MeVhod Bv nk - Bv ch: 680-1825086 **MeVhod: 8260Bv**
Prepuru on: 5060Bv

Lab Sampl) ID) MB 680-1) 2508/23T
Cli) Mabix J Wab
il u.io. 1.0.
ab . alyzUd 10/08/2010 1209c
ab P pab d 10/08/2010 1209c

alysis Batch. 680-1) 2508.
P p Batch. N/F
Units) ug/LR

Ins)bume. ID) MSP2b
Lab Fil) ID) pq410.d
Initial WMgh./Volume:. 5 mLR
Fin)al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
Naph.hal)	5.0.	U)	5.0.
-Bu.ylbe. zU	1.0.	U	1.0.
N-P opylbe. zU	1.0.	U	1.0.
o-Xyl)	1.0.	U	1.0.
p-Isop2opylt)olue.	1.0.	U	1.0.
sbc-Bu.ylbe. zU	1.0.	U	1.0.
St)yS	1.0.	U	1.0.
-Bu.ylbe. zU	1.0.	U	1.0.
1,1,2,2-Tb achloroe.hab	1.0.	U	1.0.
1,1,1,2-Tb achloroe.hab	1.0.	U	1.0.
Tb achloroe.h.	1.0.	U	1.0.
Tolue.	1.0.	U	1.0.
abs-1,2-.ic hloroe.h.	1.0.	U	1.0.
abs-1,3-.ic hlorop2op2	1.0.	U	1.0.
1,2,4-Tbichlorobe. zU	1.0.	U	1.0.
1,2,3-Tbichlorobe. zU	1.0.	U	1.0.
1,1,1-Tbichloroe.hab	1.0.	U	1.0.
1,1,2-Tbichloroe.hab	1.0.	U	1.0.
Tbichloroe.h.	1.0.	U	1.0.
Tbichlorofluorome.hab	1.0.	U	1.0.
1,2,3-Tbichlorop2opab	1.0.	U	1.0.
1,2,4-Tbime.hylbe. zU	1.0.	U	1.0.
1,3,5-Tbime.hylbe. zU	1.0.	U	1.0.
Vin)yl ac) ab	2.0.	U)	2.0.
Vin)yl chlorid	1.0.	U	1.0.
Xyl) s, To.al)	2.0.	U)	2.0.

Surrogab	% . c)	cc) p2abc) Limit)sb
4-B.omofluorobe. zU	94c	75 - 120.
i bromofluorome.hab	95M	75 - 121)
Tolue. - d (Surr)N	9c	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-1825086 **Prepuru on: 5060Bv**

LCS Lab Sampl) ID) LCS 680-1) 2508/20. alysis Babch. 680-1) 2508. Insbume. ID) MSP2b
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq402.d
il u.io. 1.0. Unitsb ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 1000. Finb WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 1000.

LCSD)Lab Sampl) ID) LCSD)680-1) 2508/21) alysis Babch. 680-1) 2508. Insbume. ID) MSP2b
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq404.d
il u.io. 1.0. Unitsb ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 1029c Finb WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 1029c

		% . c.)				
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual) LCSD)Qual)
c) o.		5M	17 - 175M	3T	50.	
B. zU	103T	103T	77 - 119c	0.	30.	
B.omobe. zU	92b	94c	0 - 124c	2b	30.	
B.omochlorome.hab	93T	9c	10 - 150.	3T	30.	
B.omoform.	101)	103T	2 - 133T	2b	30.	
B.omome.hab	9c		12 - 1) 4c	24c	50.	
2-Bu.abo. (MEK)N	9c	9c	33 - 157b	0.	30.	
Catbo. disulfid	90.	9c	55 - 131)	1)	30.	
Catbo. . achlorid	105M	103T	71 - 135M	2b	30.	
Chlorobe. zU	97b	99c	5 - 11)	2b	30.	
Chlorodibromome.hab	9c	9c	75 - 133T	1)	30.	
Chloroe.hab	90.	101)	40 - 1) 5M	11)	50.	
Chloroform.	9c	99c	2 - 120.	1)	30.	
Chlorome.hab	7b	1)	4c- 142b	4c	50.	
2-Chloro.olue.	93T	94c	2 - 123T	1)	30.	
4-Chloro.olue.	94c	9c	3 - 122b	3T	30.	
cis-1,2-.ic hloroe.h.	9c	99c	9 - 134c	1)	30.	
cis-1,3-.ic hlorop2bp2	109c	109c	7b- 12b	1)	30.	
1,2-.i bromo-3-Chlorop2bpab	1)	3T	49 - 140.	3T	30.	
1,2-.i bromoe.hab	100.	99c	0 - 121)	1)	30.	
i bromome.hab	102b	101)	7b- 119c	0.	30.	
1,3-.ic hlorobe. zU	9c	90.	7b- 125M	1)	30.	
1,2-.ic hlorobe. zU	92b	93T	79 - 124c	1)	30.	
1,4-.ic hlorobe. zU		90.	1 - 122b	2b	30.	
ic hlorobromome.hab	111)	110.	7b- 127b	0.	30.	
ic hlorodifluorome.hab	9c		34 - 154c	3T	30.	
1,1-.ic hloroe.hab	97b	9c	74 - 127b	1)	30.	
1,2-.ic hloroe.hab	102b	102b	- 132b	0.	30.	
1,1-.ic hloroe.h.	94c	92b	2 - 141)	2b	30.	
1,2-.ic hloroe.h. , To.al)	97b	99c	- 134c	2b	30.	
1,2-.ic hlorop2bpab	104c	105M	73 - 124c	1)	30.	
2,2-.ic hlorop2bpab	112b	111)	55 - 157b	1)	30.	
1,3-.ic hlorop2bpab	100.	9c	75 - 120.	1)	30.	

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-1825086 **Prepuru on: 5060Bv**

LCS Lab Sampl) ID) LCS 680-1) 2508/20. alysis Babch. 680-1) 2508. Insbume. ID) MSP2b
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq402.d
il u.io. 1.0. Unitsb ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 1000. Finl WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 1000.

LCSD)Lab Sampl) ID) LCSD)680-1) 2508/21) alysis Babch. 680-1) 2508. Insbume. ID) MSP2b
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq404.d
il u.io. 1.0. Unitsb ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 1029c Finl WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 1029c

alyS	LCS)	% . c.) LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
1,1-.ic hlorop2opp2	110.	109c	77 - 122b	2b	30.		
Effhylbe. zU	95M	9c	- 11)	3T	30.		
Hbxachlorobu.adi)	97b	97b	2 - 142b	1)	30.		
2-Hbxabo.	108.	108.	34 - 1) 1)	0.	30.		
Isop2opylbe. zU	95M	97b	2 - 121)	2b	30.		
MNhyl) Chlorid			70 - 125M	0.	30.		
4-MNhyl-2-p2 abo. (MIBK)N	104c	101)	40 - 151)	3T	30.		
MNhyl . -bu.yl e.h.	9c	9c	77 - 121)	0.	30.		
m-Xyl) & p-Xyl)	94c	9c	3 - 11)	2b	30.		
Naph.hal)	9c	100.	4c- 135M	2b	30.		
-Bu.ylbe. zU	9c	9c	4 - 13T	2b	30.		
N-P opylbe. zU	97b	9c	0 - 12b	1)	30.		
o-Xyl)	9c	9c	3 - 119c	1)	30.		
p-Isop2opylto)lue.	93T	94c	3 - 139c	1)	30.		
sbc-Bu.ylbe. zU	9c	94c	77 - 12b	2b	30.		
StyS	94c	94c	2 - 122b	1)	30.		
-Bu.ylbe. zU	95M	9c	0 - 124c	1)	30.		
1,1,2,2-Tb achloroe.hab	104c	103T	9 - 129c	1)	30.		
1,1,1,2-Tb achloroe.hab	104c	103T	1 - 12b	1)	30.		
Tb achloroe.h.	100.	101)	7b- 12b	0.	30.		
Tolue.	9c	95M	1 - 117b	1)	30.		
abs-1,2-.ic hloroe.h.	97b	100.	72 - 131)	3T	30.		
abs-1,3-.ic hlorop2opp2	103T	104c	73 - 12b	1)	30.		
1,2,4-Tbichlorobe. zU	90.	92b	0 - 135M	2b	30.		
1,2,3-Tbichlorobe. zU	90.	92b	0 - 132b	2b	30.		
1,1,1-Tbichloroe.hab	111)	111)	7b- 127b	0.	30.		
1,1,2-Tbichloroe.hab	101)	100.	75 - 121)	0.	30.		
Tbichloroe.h.	101)	101)	4 - 115M	0.	30.		
Tbichlorofluorome.hab	104c	101)	5M- 149c	4c	50.		
1,2,3-Tbichlorop2opab	97b	100.	70 - 130.	3T	30.		
1,2,4-Tbime.hylbe. zU	93T	95M	72 - 132b	2b	30.		
1,3,5-Tbime.hylbe. zU	93T	95M	72 - 133T	2b	30.		
Vinyl ac) ab	111)	108.	10 - 217b	3T	30.		

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

LUblU ConurouSVmpue/U **MeVhod: 8260Bv**
LUblU ConurouSVmpueVDUpucv eVRecovery Reporu- Bv ch: 680-1825086 **Prepuru on: 5060Bv**

LCS Lab Sampl) ID) LCS 680-1) 2508/20. alysis Babch. 680-1) 2508. In$bume. ID) MSP2b
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq402.d
il u.io. 1.0. Units$b ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 1000. Fina) al WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 1000.

LCSD)Lab Sampl) ID) LCSD)680-1) 2508/21) alysis Babch. 680-1) 2508. In$bume. ID) MSP2b
Cli) MabixJ Wab P p Babch. N/F Lab Fil) ID) pq404.d
il u.io. 1.0. Units$b ug/LR Initial WMgh./Volume:. 5 mLR
ab . alyzUd 10/08/2010 1029c Fina) al WMgh./Volume:. 5 mLR
ab P pab d 10/08/2010 1029c

	% . c.)						
alyS	LCS)	LCSD)	Limit)	P	P Limit)	LCS Qual)	LCSD)Qual)
Viny)l chlorid	99c	101)	59 - 144c	2b	50.		
Xyl) s, To.al)	95M	9c	4 - 11)	2b	30.		

Surrogab	LCS % . c)	LCSD)% . c)	cc) p2abc) Limit$b
4-B.omofluorobe. zU	93T	94c	75 - 120.
i bromofluorome.hab	9c	97b	75 - 121)
Tolue. - d (Surr)N	95M	95M	75 - 120.

Cli) . CADIS U.S., Inc.) Job Number: 680-61.1) 53-1)

MeVhod Bv nk - Bv ch: 680-182769l **MeVhod: 6010Cu**
Prepuru on: u005AV
Tou RecoverubleV

Lab Sampl) ID)	MB 680-1) 27b9/14-.	alysis Batch. 680-1) 3127b	Ins bume. ID) ICP
Cli) MabixJ	Wab	P p Batch. 680-1) 27b9c	Lab Fil) ID) 1015101039.ch.
il u.io.	1.0.	Units sb ug/LR	Initial WMgh./Volume:. 50 mLR
ab . alyzUd	10/15/2010 213T		Fina al WMgh./Volume:. 50 mLR
ab P pab d	10/13/2010 0953T		

alyS	sult)	QualR)	LR
sb ic)	20.	U)	20.
Babium.	10.	U)	10.
Cadmium.	5.0.	U)	5.0.
Ch.omium.	10.	U)	10.
Iro.	50.	U)	50.
LRad	10.	U)	10.
S) l) i um.	20.	U)	20.
Silvb	10.	U)	10.
Sodium.	1000.	U)	1000.

LUbolConurouSVmpueV- Bv ch: 680-182769l **MeVhod: 6010Cu**
Prepuru on: u005AV
Tou RecoverubleV

Lab Sampl) ID)	LCS 680-1) 27b9/15-.	alysis Batch. 680-1) 3127b	Ins rume. ID) ICP
Cli) MabixJ	Wab	P p Batch. 680-1) 27b9c	Lab Fil) ID) 1015101039.ch.
il u.io.	1.0.	Units sb ug/LR	Initial WMgh./Volume:. 50 mLR
ab . alyzUd	10/15/2010 2141)		Fina al WMgh./Volume:. 50 mLR
ab P pab d	10/13/2010 0953T		

alyS	Spike . mou.	sult)	% . c.)	Limit)	Qual)
sb ic)	2000.	2030.	101)	75 - 125M	
Babium.	2000.	2010.	101)	75 - 125M	
Cadmium.	50.0.	50.4c	101)	75 - 125M	
Ch.omium.	200.	199c	99c	75 - 125M	
I)o.	1000.	1010.	101)	75 - 125M	
LRad	500.	520.	104c	75 - 125M	
S) l) i um.	2000.	2030.	101)	75 - 125M	
Silvb	50.0.	4c.4c	93T	75 - 125M	
Sodium.	5000.	4990.	100.	75 - 125M	

Cli) . CADIS U.S., Inc.) Job Number: 680-61) 53-1)

Me\hod Bv nk - Bv ch: 680-182u42u **Me\hod: 7470AV**
Prepuru on: 7470AV

Lab Sampl) ID)	MB 680-1) 2342/1-.	alysis Batch. 680-1) 2b41)	In$bume. ID) LEEMNN1)
Cli) MabixJ	Wab	P p Batch. 680-1) 2342b	Lab Fil) ID) b101210.ch.
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 50 mLR
ab . alyzUd	10/13/2010 1233T		Fin$al WMgh./Volume:. 50 mLR
ab P pab d	10/08/2010 1022b		

alyS	sult)	QualR)	LR
MN curyS	0.20.	U)	0.20.

LUbolConurouSVmpueV- Bv ch: 680-182u42u **Me\hod: 7470AV**
Prepuru on: 7470AV

Lab Sampl) ID)	LCS 680-1) 2342/2-.	alysis Batch. 680-1) 2b41)	In$bume. ID) LEEMNN1)
Cli) MabixJ	Wab	P p Batch. 680-1) 2342b	Lab Fil) ID) b101210.ch.
il u.io.	1.0.	Units$b ug/LR	Initial WMgh./Volume:. 50 mLR
ab . alyzUd	10/13/2010 123T		Fin$al WMgh./Volume:. 50 mLR
ab P pab d	10/08/2010 1022b		

alyS	Spike . mou.	sult)	% . c.)	Limit)	Qual)
MN curyS	2.50.	2.17b	7b	0 - 120.	

Me hod Bv nk - Bv ch: 680-186065l **Me hod: 90686**
Prepuru on: N/AV

Lab Sampl) ID) MB 680-1) 3035/13T
Cli) MabixJ Wab
il u.io. 1.0.
ab . alyzUd 10/14/2010 173T
a e P pa d N/F

alysis Batch. 680-1) 3035M
P p Batch. N/F
Units)b mg/LR

Ins)bume. ID) KONELRB1)
Lab Fil) ID) KONE11014101SO4.xlsb
Initial WMgh./Volume:. 2 mLR
Fin)al WMgh./Volume:. 2 mLR

alyS	sult)	QualR)	LR
Sulfab	5.0.	U)	5.0.

LUblC Con rouSVmp e - Bv ch: 680-186065l **Me hod: 90686**
Prepuru on: N/AV

Lab Sampl) ID) LCS 680-1) 3035/14c
Cli) MabixJ Wab
il u.io. 1.0.
ab . alyzUd 10/14/2010 1739c
a e P pa d N/F

alysis Batch. 680-1) 3035M
P p Batch. N/F
Units)b mg/LR

Ins)bume. ID) KONELRB1)
Lab Fil) ID) KONE11014101SO4.xlsb
Initial WMgh./Volume:. 2 mLR
Fin)al WMgh./Volume:. 2 mLR

alyS	Spike . mou.	sult)	% . c.)	Limit)	Qual)
Sulfab	20.0.	19.)	9c	75 - 125M	

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Alan Pinnix	Site Contact: Alan Pinnix	Date: 10/4/10	COC No:
ARCADIS	Tel/Fax: 919-854-1282	Lab Contact: Kathy Smith	Carrier: Fed Ex	1 of 1 COCs
801 Corporate Center Drive, Suite 300	Analysis Turnaround Time			Job No.
Raleigh, NC 27607	Calendar (C) or Work Days (W)			
919-854-1282	TAT if different from Below			SDG No.
919-854-5448	■ 2 weeks			
Project Name: UNC Airport Road	☐ 1 week			
Site: Chapel Hill, NC	☐ 2 days			
P O # NC000239.0018.00006	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (METHOD 8260)	RCRA Metals (6010)	Iron	Sodium	Sulfate	Sample Specific Notes:
MW-1	10/4/10	1338	GW	GW	5		X	X	X	X	X	
MW-2		1415	GW	GW	5		X	X	X	X	X	
MW-3		1300	GW	GW	5		X	X	X	X	X	
MW-38		1600	GW	GW	4		X	X	X	X	X	2 Vocs only.
MW-39		1200	GW	GW	5		X	X	X	X	X	
MW-14		1500	GW	GW	5		X	X	X	X	X	
Trip Blank	10/4/10	~			2		X					

Page 52 of 53

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
TEMPERATURE 0.4

680-61853

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: David Swanley	ARCADIS	10/4/10, 1700	Received by:	TA	10/5/10 09:38
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Samcle ReTeT CheTk Listc

ent: ARCADIS U.S., Inc.b

Job Number: 680-61853-1b

Login Number: c185c

List SourVe: cesteAmerVa Sa vannahc

Creator: KL kl/ghter, MarVyL

List Number: 1u

QuestioU	/ F/ NA/	CommeT
Radcoactivity either was not measured or, if measured, is at or below b ackgroundc	NbAb	
he cooler's custody seaT, if present, is intact.b	rueb	
he cooler or samp es do not appear to have been compromised or b tampered wpth.b	rueb	
amp es were receibved on ice.b	rueb	
ooler b emperature is accepta le.b	rueb	
ooler b emperature is recorded.b	rueb	
Ocibs present.b	rueb	
Ocibs fb ed out in ink and legU e.b	rueb	
Ocibs fb ed out wpth aT pertinent information.b	rueb	
Is the F5eld Samp er's name present on CbDc ?U	NbAb	
here are no dscrepancies between the samp e IDs on the conta Tners and b the CbDc.b	rueb	
amp es are receibved wpthin Holdbng b me.b	rueb	
amp e conta Tners have legU e labells.b	rueb	
ont a Tners are not broken or leakUng.b	rueb	
amp e collection datebtimes are provSded.b	rueb	
Appropriate samp e conta Tners are used.b	rueb	
amp e bottles are comp etely fb ed.b	rueb	
amp e Preservation Verifbedc	rueb	
here is sufbcient vol. for aT requested anaTyses, incl. any requested b Mc MdD sT	rueb	
VOA samp e vsaTs do not have headspace or bub le is <6mm (1b4") in b dameter.b	rueb	
If necessary, staff have been informed of any short holdb time or quick bAb b needsT	rueb	
Multiphas Tc samp es are not present.b	NbAb	
amp es do not require sp tting or compos Tting.	bl Ab	b

ANALYTICAL REPORT

Job Number: 680-62026-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
10/29/2010 4:43 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
10/29/2010

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

CommentsU
No additig.al cgomments. g

ceipt U
All samples were received in goo. cgo. tigo. within temperat ure requbrements.g

GC/MS VOA U
Metho. (s) 8260B: The following samples were diluted due to the abundance of non-target analytes: MW-1 (680-62026-1), MW-2 M (680-62026-2). Elevated reporting limits (RLs) are provided.M

No other analytical or quality issues were noted.M

Metals U
No analytical or quality issues were noted.M

General Chemistry U
No analytical or quality issues were noted.M

VOA Prep U
No analytical or quality issues were noted.M

METHOD SUMMARY:

CliFntT. CADF IS U.S., Inc. Job Number: 680-6202M1F

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatil, O, anic, . om. ou.ds (GC/MS),	TAL SAV,	SWF4U8.2M0 B,	
Pur. and T,ap,	TAL SAV,		SW, 4, 5030B,
M, tals (ICP),	TAL SAV,	SW, 4, 60 10.	
P, pa,atio. Ext,actabl, M, tals,	TAL SAV,		SM 3030.
M, ury (CVAA),	TAL SAV,	SW, 4, 7470A,	
P, pa,atio. M, ury,	TAL SAV,		SW, 4, 7470A,
Sulfat, Turbidimet,ic,	TAL SAV,	SW, 4, 903,	

Lab References:

TAL SAV = T, stAmerica Savannah,

Method References:

SM = "Standa,d M, thods For Th, Examinatio. Of Wat, And Wast, wat, ",

SW, 4, = "T, st M, thods For Evaluating,Solid Wast, Physical/Ch,m ical M, thods", Thi,d Editio. Nov,mber 19, And Its . Updat, s.,

METHOD / ANALcST STMMARM

Client: ARCADIS U.S., Inc., Job Num, er: 680-62026-b

MethodM	AnalystM	Analyst ID:
SW846 8260b	earden, Robert,	R,
SW846 60b0C,	land, , rian,	C,
SW846 , 4A0A,	Eaton, Cli,	CEc
SW846 9038b	Rob , Jon,	JR,

SUMPLU SUMMUR Y2

Client: ARCADIS U.S., Inc., Job Num, er: 680-62026-b

Lab Sa: ple IDV	Client Sa: ple IDV	Client Matrix2	Date/Time : Sa: pledb	Date/Time : ReVeivedb
680-62026-b	MW-b	Ground WaterI	0/08/20b0 , 4, 5U	0/09/20b0 , 006b
680-62026-2I	MW-2I	Ground WaterI	0/08/2010 1630I	0/09/2010 1006I
680-62026-3I	MW-3I	Ground WaterI	0/08/2010 1550I	0/09/2010 1006I
680-62026-4I	MW-38I	Ground WaterI	0/08/2010 1345I	0/09/2010 1006I
680-62026-5I	MW-39I	Ground WaterI	0/08/2010 1500I	0/09/2010 1006I

Client: ARCADIS U.S., Inc.I Job Number: 680-62026-1I

Client Sample ID:T **MW-1T**

Lab Sample ID:I 680-62026-1I Sampled: 10/08/2010 1415M
Client MaTrix:I Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183245M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0621.dM
ilution:M 100M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/18/2010 1726M Final Weight/Volume:M 5 mLM
Prepared:M 10/18/2010 1726M

AnalyteM	Result (ug/L)M	QualifierM	RLM
AcetoneM	2500M	UM	2500M
BenzeneM	800M		100M
BromobenzeneM	100M	UM	100M
BromochloromethaneM	100M	UM	100M
BromoformM	100M	UM	100M
BromomethaneM	100M	U *M	100M
2-Butanone (MEK)M	1000M	UM	1000M
Carbon disulfideM	200M	UM	200M
Carbon tetrachlorideM	100M	UM	100M
ChlorobenzeneM	100M	UM	100M
ChlorodibromomethaneM	100M	UM	100M
ChloroethaneM	100M	UM	100M
ChloroformM	4500M		100M
ChloromethaneM	100M	UM	100M
2-ChlorotolueneM	100M	UM	100M
4-ChlorotolueneM	100M	UM	100M
cis-1,2-DichloroetheneM	100M	UM	100M
cis-1,3-DichloropropeneM	100M	UM	100M
1,2-Dibromo-3-ChloropropaneM	100M	UM	100M
1,2-DibromoethaneM	100M	UM	100M
ibromomethaneM	100M	UM	100M
1,3-DichlorobenzeneM	100M	UM	100M
1,2-DichlorobenzeneM	100M	UM	100M
1,4-DichlorobenzeneM	100M	UM	100M
ichlorobromomethaneM	100M	UM	100M
ichlorodifluoromethaneM	100M	UM	100M
1,1-DichloroethaneM	100M	UM	100M
1,2-DichloroethaneM	490M		100M
1,1-DichloroetheneM	100M	UM	100M
1,2-Dichloroethene, TotalM	200M	UM	200M
1,2-DichloropropaneM	100M	UM	100M
2,2-DichloropropaneM	100M	UM	100M
1,3-DichloropropaneM	100M	UM	100M
1,1-DichloropropeneM	100M	UM	100M
iethyl etherM	5000M		1000M
EthylbenzeneM	100M	UM	100M
HexachlorobutadieneM	100M	UM	100M
2-HexanoneM	1000M	UM	1000M
IsopropylbenzeneM	100M	UM	100M
hylene ChlorideM	720M		500
4-Methyl-2-pentanone (MIBK)M	1000M	UM	1000M
hyl tert-butyl etherM	1000M	UM	1000
m-Xylene & p-XyleneM	200M	UM	200M
NaphthaleneM	500M	UM	500M
n-ButylbenzeneM	100M	UM	100M
N-Propylbenzene	100M	UM	100M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-1T**

Lab Sample ID:M 680-62026-1M Sampled: 10/08/2010 1415M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183245M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0621.dM
ilution:M 100M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/18/2010 1726M Final Weight/Volume:M 5 mLM
Prepared:M 10/18/2010 1726M

AnalyteM	Result (ug/L)M	QualifierM	RLM
o-XyleneM	100M	UM	100M
p-IsopropyltolueneM	100M	UM	100M
sec-ButylbenzeneM	100M	UM	100M
StyreneM	100M	UM	100M
rt-ButylbenzeneM	100M	UM	100M
1,1,2,2-TetrachloroethaneM	620M		100M
1,1,1,2-TetrachloroethaneM	100M	UM	100M
TetrachloroetheneM	100M	UM	100M
TolueneM	100M	UM	100M
rans-1,2-DichloroetheneM	100M	UM	100M
rans-1,3-DichloropropeneM	100M	UM	100M
1,2,4-TrichlorobenzeneM	100M	UM	100M
1,2,3-TrichlorobenzeneM	100M	UM	100M
1,1,1-TrichloroethaneM	100M	UM	100M
1,1,2-TrichloroethaneM	100M	UM	100M
TrichloroetheneM	140M		100M
TrichlorofluoromethaneM	100M	UM	100M
1,2,3-TrichloropropaneM	100M	UM	100M
1,2,4-TrimethylbenzeneM	100M	UM	100M
1,3,5-TrimethylbenzeneM	100M	UM	100M
Vinyl acetateM	200M	UM	200M
Vinyl chlorideM	100M	UM	100M
Xylenes, TotalM	200M	UM	200M

SurrogateM	%RecM	QualifierM	Acceptance LimitsM
4-BromofluorobenzeneM	102M		75 - 120M
ibromofluoromethaneM	94M		75 - 121M
Toluene-d8 (Surr)	111M		75 - 120M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-2T**

Lab Sample ID:M 680-62026-2M Sampled: 10/08/2010 1630M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183245M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0619.dM
ilution:M 200M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/18/2010 1658M Final Weight/Volume:M 5 mLM
Prepared:M 10/18/2010 1658M

AnalyteM	Result (ug/L)M	QualifierM	RLM
AcetoneM	5000M	UM	5000M
BenzeneM	7600M		200M
BromobenzeneM	200M	UM	200M
BromochloromethaneM	200M	UM	200M
BromoformM	200M	UM	200M
BromomethaneM	200M	U *M	200M
2-Butanone (MEK)M	2000M	UM	2000M
Carbon disulfideM	400M	UM	400M
Carbon tetrachlorideM	200M	UM	200M
ChlorobenzeneM	220M		200M
ChlorodibromomethaneM	200M	UM	200M
ChloroethaneM	200M	UM	200M
ChloroformM	1100M		200M
ChloromethaneM	200M	UM	200M
2-ChlorotolueneM	200M	UM	200M
4-ChlorotolueneM	200M	UM	200M
cis-1,2-DichloroetheneM	200M	UM	200M
cis-1,3-DichloropropeneM	200M	UM	200M
1,2-Dibromo-3-ChloropropaneM	200M	UM	200M
1,2-DibromoethaneM	200M	UM	200M
ibromomethaneM	200M	UM	200M
1,3-DichlorobenzeneM	200M	UM	200M
1,2-DichlorobenzeneM	200M	UM	200M
1,4-DichlorobenzeneM	200M	UM	200M
ichlorobromomethaneM	200M	UM	200M
ichlorodifluoromethaneM	200M	UM	200M
1,1-DichloroethaneM	200M	UM	200M
1,2-DichloroethaneM	1400M		200M
1,1-DichloroetheneM	200M	UM	200M
1,2-Dichloroethene, TotalM	400M	UM	400M
1,2-DichloropropaneM	200M	UM	200M
2,2-DichloropropaneM	200M	UM	200M
1,3-DichloropropaneM	200M	UM	200M
1,1-DichloropropeneM	200M	UM	200M
iethyl etherM	14000M		2000M
EthylbenzeneM	410M		200M
HexachlorobutadieneM	200M	UM	200M
2-HexanoneM	2000M	UM	2000M
IsopropylbenzeneM	200M	UM	200M
hylene ChlorideM	1300M		1000
4-Methyl-2-pentanone (MIBK)M	2000M	UM	2000M
hyl tert-butyl etherM	2000M	UM	2000
m-Xylene & p-XyleneM	430M		400M
NaphthaleneM	1000M	UM	1000M
n-ButylbenzeneM	200M	UM	200M
N-Propylbenzene	200M	UM	200M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-2T**

Lab Sample ID:M 680-62026-2M Sampled: 10/08/2010 1630M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183245M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0619.dM
ilution:M 200M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/18/2010 1658M Final Weight/Volume:M 5 mLM
Prepared:M 10/18/2010 1658M

AnalyteM	Result (ug/L)M	QualifierM	RLM
o-XyleneM	570M		200M
p-IsopropyltolueneM	200M	UM	200M
sec-ButylbenzeneM	200M	UM	200M
StyreneM	200M	UM	200M
rt-ButylbenzeneM	200M	UM	200M
1,1,2,2-TetrachloroethaneM	200M	UM	200M
1,1,1,2-TetrachloroethaneM	200M	UM	200M
TetrachloroetheneM	200M	UM	200M
TolueneM	200M	UM	200M
rans-1,2-DichloroetheneM	200M	UM	200M
rans-1,3-DichloropropeneM	200M	UM	200M
1,2,4-TrichlorobenzeneM	200M	UM	200M
1,2,3-TrichlorobenzeneM	200M	UM	200M
1,1,1-TrichloroethaneM	200M	UM	200M
1,1,2-TrichloroethaneM	200M	UM	200M
TrichloroetheneM	200M	UM	200M
TrichlorofluoromethaneM	200M	UM	200M
1,2,3-TrichloropropaneM	200M	UM	200M
1,2,4-TrimethylbenzeneM	200M	UM	200M
1,3,5-TrimethylbenzeneM	200M	UM	200M
Vinyl acetateM	400M	UM	400M
Vinyl chlorideM	200M	UM	200M
Xylenes, TotalM	1000M		400M

SurrogateM	%RecM	QualifierM	Acceptance LimitsM
4-BromofluorobenzeneM	102M		75 - 120M
ibromofluoromethaneM	94M		75 - 121M
Toluene-d8 (Surr)	110M		75 - 120M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-3T**

Lab Sample ID:M 680-62026-3M Sampled: 10/08/2010 1550M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183229M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0581.dM
ilution:M 1.0M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/15/2010 1545M Final Weight/Volume:M 5 mLM
Prepared:M 10/15/2010 1545M

AnalyteM	Result (ug/L)M	QualifierM	RLM
AcetoneM	25M	UM	25M
BenzeneM	1.0M	UM	1.0M
BromobenzeneM	1.0M	UM	1.0M
BromochloromethaneM	1.0M	UM	1.0M
BromoformM	1.0M	UM	1.0M
BromomethaneM	1.0M	UM	1.0M
2-Butanone (MEK)M	10M	UM	10M
Carbon disulfideM	2.0M	UM	2.0M
Carbon tetrachlorideM	1.0M	UM	1.0M
ChlorobenzeneM	1.0M	UM	1.0M
ChlorodibromomethaneM	1.0M	UM	1.0M
ChloroethaneM	1.0M	UM	1.0M
ChloroformM	1.0M	UM	1.0M
ChloromethaneM	1.0M	UM	1.0M
2-ChlorotolueneM	1.0M	UM	1.0M
4-ChlorotolueneM	1.0M	UM	1.0M
cis-1,2-DichloroetheneM	1.0M	UM	1.0M
cis-1,3-DichloropropeneM	1.0M	UM	1.0M
1,2-Dibromo-3-ChloropropaneM	1.0M	UM	1.0M
1,2-DibromoethaneM	1.0M	UM	1.0M
ibromomethaneM	1.0M	UM	1.0M
1,3-DichlorobenzeneM	1.0M	UM	1.0M
1,2-DichlorobenzeneM	1.0M	UM	1.0M
1,4-DichlorobenzeneM	1.0M	UM	1.0M
ichlorobromomethaneM	1.0M	UM	1.0M
ichlorodifluoromethaneM	1.0M	UM	1.0M
1,1-DichloroethaneM	1.0M	UM	1.0M
1,2-DichloroethaneM	1.0M	UM	1.0M
1,1-DichloroetheneM	1.0M	UM	1.0M
1,2-Dichloroethene, TotalM	2.0M	UM	2.0M
1,2-DichloropropaneM	1.0M	UM	1.0M
2,2-DichloropropaneM	1.0M	UM	1.0M
1,3-DichloropropaneM	1.0M	UM	1.0M
1,1-DichloropropeneM	1.0M	UM	1.0M
iethyl etherM	10M	UM	10M
EthylbenzeneM	1.0M	UM	1.0M
HexachlorobutadieneM	1.0M	UM	1.0M
2-HexanoneM	10M	UM	10M
IsopropylbenzeneM	1.0M	UM	1.0M
hylene ChlorideM	5.0M	UM	5.0
4-Methyl-2-pentanone (MIBK)M	10M	UM	10M
hyl tert-butyl etherM	10M	UM	10
m-Xylene & p-XyleneM	2.0M	UM	2.0M
NaphthaleneM	5.0M	UM	5.0M
n-ButylbenzeneM	1.0M	UM	1.0M
N-Propylbenzene	1.0M	UM	1.0M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-3T**

Lab Sample ID:M 680-62026-3M Sampled: 10/08/2010 1550M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183229M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0581.dM
ilution:M 1.0M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/15/2010 1545M Final Weight/Volume:M 5 mLM
Prepared:M 10/15/2010 1545M

AnalyteM	Result (ug/L)M	QualifierM	RLM
o-XyleneM	1.0M	UM	1.0M
p-IsopropyltolueneM	1.0M	UM	1.0M
sec-ButylbenzeneM	1.0M	UM	1.0M
StyreneM	1.0M	UM	1.0M
rt-ButylbenzeneM	1.0M	UM	1.0M
1,1,2,2-TetrachloroethaneM	1.0M	UM	1.0M
1,1,1,2-TetrachloroethaneM	1.0M	UM	1.0M
TetrachloroetheneM	1.0M	UM	1.0M
TolueneM	1.0M	UM	1.0M
rans-1,2-DichloroetheneM	1.0M	UM	1.0M
rans-1,3-DichloropropeneM	1.0M	UM	1.0M
1,2,4-TrichlorobenzeneM	1.0M	UM	1.0M
1,2,3-TrichlorobenzeneM	1.0M	UM	1.0M
1,1,1-TrichloroethaneM	1.0M	UM	1.0M
1,1,2-TrichloroethaneM	1.0M	UM	1.0M
TrichloroetheneM	1.0M	UM	1.0M
TrichlorofluoromethaneM	1.0M	UM	1.0M
1,2,3-TrichloropropaneM	1.0M	UM	1.0M
1,2,4-TrimethylbenzeneM	1.0M	UM	1.0M
1,3,5-TrimethylbenzeneM	1.0M	UM	1.0M
Vinyl acetateM	2.0M	UM	2.0M
Vinyl chlorideM	1.0M	UM	1.0M
Xylenes, TotalM	2.0M	UM	2.0M

SurrogateM	%RecM	QualifierM	Acceptance LimitsM
4-BromofluorobenzeneM	97M		75 - 120M
ibromofluoromethaneM	93M		75 - 121M
Toluene-d8 (Surr)	114M		75 - 120M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-38T**

Lab Sample ID:M 680-62026-4M Sampled: 10/08/2010 1345M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183229M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0583.dM
ilution:M 1.0M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/15/2010 1614M Final Weight/Volume:M 5 mLM
Prepared:M 10/15/2010 1614M

AnalyteM	Result (ug/L)M	QualifierM	RLM
AcetoneM	25M	UM	25M
BenzeneM	1.0M	UM	1.0M
BromobenzeneM	1.0M	UM	1.0M
BromochloromethaneM	1.0M	UM	1.0M
BromoformM	1.0M	UM	1.0M
BromomethaneM	1.0M	UM	1.0M
2-Butanone (MEK)M	10M	UM	10M
Carbon disulfideM	2.0M	UM	2.0M
Carbon tetrachlorideM	1.0M	UM	1.0M
ChlorobenzeneM	2.1M		1.0M
ChlorodibromomethaneM	1.0M	UM	1.0M
ChloroethaneM	1.0M	UM	1.0M
ChloroformM	1.0M	UM	1.0M
ChloromethaneM	1.0M	UM	1.0M
2-ChlorotolueneM	1.0M	UM	1.0M
4-ChlorotolueneM	1.0M	UM	1.0M
cis-1,2-DichloroetheneM	1.0M	UM	1.0M
cis-1,3-DichloropropeneM	1.0M	UM	1.0M
1,2-Dibromo-3-ChloropropaneM	1.0M	UM	1.0M
1,2-DibromoethaneM	1.0M	UM	1.0M
ibromomethaneM	1.0M	UM	1.0M
1,3-DichlorobenzeneM	1.0M	UM	1.0M
1,2-DichlorobenzeneM	1.0M	UM	1.0M
1,4-DichlorobenzeneM	1.0M	UM	1.0M
ichlorobromomethaneM	1.0M	UM	1.0M
ichlorodifluoromethaneM	1.0M	UM	1.0M
1,1-DichloroethaneM	1.0M	UM	1.0M
1,2-DichloroethaneM	21M		1.0M
1,1-DichloroetheneM	1.0M	UM	1.0M
1,2-Dichloroethene, TotalM	2.0M	UM	2.0M
1,2-DichloropropaneM	1.0M	UM	1.0M
2,2-DichloropropaneM	1.0M	UM	1.0M
1,3-DichloropropaneM	1.0M	UM	1.0M
1,1-DichloropropeneM	1.0M	UM	1.0M
iethyl etherM	390M	EM	10M
EthylbenzeneM	1.0M	UM	1.0M
HexachlorobutadieneM	1.0M	UM	1.0M
2-HexanoneM	10M	UM	10M
IsopropylbenzeneM	1.0M	UM	1.0M
hylene ChlorideM	5.0M	UM	5.0
4-Methyl-2-pentanone (MIBK)M	10M	UM	10M
hyl tert-butyl etherM	10M	UM	10
m-Xylene & p-XyleneM	2.0M	UM	2.0M
NaphthaleneM	5.0M	UM	5.0M
n-ButylbenzeneM	1.0M	UM	1.0M
N-Propylbenzene	1.0M	UM	1.0M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-38T**

Lab Sample ID:M 680-62026-4M Sampled: 10/08/2010 1345M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183229M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0583.dM
ilution:M 1.0M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/15/2010 1614M Final Weight/Volume:M 5 mLM
Prepared:M 10/15/2010 1614M

AnalyteM	Result (ug/L)M	QualifierM	RLM
o-XyleneM	1.0M	UM	1.0M
p-IsopropyltolueneM	1.0M	UM	1.0M
sec-ButylbenzeneM	1.0M	UM	1.0M
StyreneM	1.0M	UM	1.0M
rt-ButylbenzeneM	1.0M	UM	1.0M
1,1,2,2-TetrachloroethaneM	1.0M	UM	1.0M
1,1,1,2-TetrachloroethaneM	1.0M	UM	1.0M
TetrachloroetheneM	1.0M	UM	1.0M
TolueneM	1.0M	UM	1.0M
rans-1,2-DichloroetheneM	1.0M	UM	1.0M
rans-1,3-DichloropropeneM	1.0M	UM	1.0M
1,2,4-TrichlorobenzeneM	1.0M	UM	1.0M
1,2,3-TrichlorobenzeneM	1.0M	UM	1.0M
1,1,1-TrichloroethaneM	1.0M	UM	1.0M
1,1,2-TrichloroethaneM	1.0M	UM	1.0M
TrichloroetheneM	1.0M	UM	1.0M
TrichlorofluoromethaneM	1.0M	UM	1.0M
1,2,3-TrichloropropaneM	1.0M	UM	1.0M
1,2,4-TrimethylbenzeneM	1.0M	UM	1.0M
1,3,5-TrimethylbenzeneM	1.0M	UM	1.0M
Vinyl acetateM	2.0M	UM	2.0M
Vinyl chlorideM	1.0M	UM	1.0M
Xylenes, TotalM	2.0M	UM	2.0M

SurrogateM	%RecM	QualifierM	Acceptance LimitsM
4-BromofluorobenzeneM	99M		75 - 120M
ibromofluoromethaneM	96M		75 - 121M
Toluene-d8 (Surr)	112M		75 - 120M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-39T**

Lab Sample ID:M 680-62026-5M Sampled: 10/08/2010 1500M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183229M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0585.dM
ilution:M 1.0M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/15/2010 1643M Final Weight/Volume:M 5 mLM
Prepared:M 10/15/2010 1643M

AnalyteM	Result (ug/L)M	QualifierM	RLM
AcetoneM	25M	UM	25M
BenzeneM	1.0M	UM	1.0M
BromobenzeneM	1.0M	UM	1.0M
BromochloromethaneM	1.0M	UM	1.0M
BromoformM	1.0M	UM	1.0M
BromomethaneM	1.0M	UM	1.0M
2-Butanone (MEK)M	10M	UM	10M
Carbon disulfideM	2.0M	UM	2.0M
Carbon tetrachlorideM	1.0M	UM	1.0M
ChlorobenzeneM	1.0M	UM	1.0M
ChlorodibromomethaneM	1.0M	UM	1.0M
ChloroethaneM	1.0M	UM	1.0M
ChloroformM	1.0M	UM	1.0M
ChloromethaneM	1.0M	UM	1.0M
2-ChlorotolueneM	1.0M	UM	1.0M
4-ChlorotolueneM	1.0M	UM	1.0M
cis-1,2-DichloroetheneM	1.0M	UM	1.0M
cis-1,3-DichloropropeneM	1.0M	UM	1.0M
1,2-Dibromo-3-ChloropropaneM	1.0M	UM	1.0M
1,2-DibromoethaneM	1.0M	UM	1.0M
ibromomethaneM	1.0M	UM	1.0M
1,3-DichlorobenzeneM	1.0M	UM	1.0M
1,2-DichlorobenzeneM	1.0M	UM	1.0M
1,4-DichlorobenzeneM	1.0M	UM	1.0M
ichlorobromomethaneM	1.0M	UM	1.0M
ichlorodifluoromethaneM	1.0M	UM	1.0M
1,1-DichloroethaneM	1.0M	UM	1.0M
1,2-DichloroethaneM	1.0M	UM	1.0M
1,1-DichloroetheneM	1.0M	UM	1.0M
1,2-Dichloroethene, TotalM	2.0M	UM	2.0M
1,2-DichloropropaneM	1.0M	UM	1.0M
2,2-DichloropropaneM	1.0M	UM	1.0M
1,3-DichloropropaneM	1.0M	UM	1.0M
1,1-DichloropropeneM	1.0M	UM	1.0M
iethyl etherM	10M	UM	10M
EthylbenzeneM	1.0M	UM	1.0M
HexachlorobutadieneM	1.0M	UM	1.0M
2-HexanoneM	10M	UM	10M
IsopropylbenzeneM	1.0M	UM	1.0M
hylene ChlorideM	5.0M	UM	5.0
4-Methyl-2-pentanone (MIBK)M	10M	UM	10M
hyl tert-butyl etherM	10M	UM	10
m-Xylene & p-XyleneM	2.0M	UM	2.0M
NaphthaleneM	5.0M	UM	5.0M
n-ButylbenzeneM	1.0M	UM	1.0M
N-Propylbenzene	1.0M	UM	1.0M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-39T**

Lab Sample ID:M 680-62026-5M Sampled: 10/08/2010 1500M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

8260B Volatile Organic Compounds (GC/MS)

thod:M 8260BM Analysis Batch: 680-183229M Instrument ID:M SOM
Preparation:M 5030B Lab File ID:M o0585.dM
ilution:M 1.0M Initial Weight/Volume:M 5 mLM
Analyzed:M 10/15/2010 1643M Final Weight/Volume:M 5 mLM
Prepared:M 10/15/2010 1643M

AnalyteM	Result (ug/L)M	QualifierM	RLM
o-XyleneM	1.0M	UM	1.0M
p-IsopropyltolueneM	1.0M	UM	1.0M
sec-ButylbenzeneM	1.0M	UM	1.0M
StyreneM	1.0M	UM	1.0M
rt-ButylbenzeneM	1.0M	UM	1.0M
1,1,2,2-TetrachloroethaneM	1.0M	UM	1.0M
1,1,1,2-TetrachloroethaneM	1.0M	UM	1.0M
TetrachloroetheneM	1.0M	UM	1.0M
TolueneM	1.0M	UM	1.0M
rans-1,2-DichloroetheneM	1.0M	UM	1.0M
rans-1,3-DichloropropeneM	1.0M	UM	1.0M
1,2,4-TrichlorobenzeneM	1.0M	UM	1.0M
1,2,3-TrichlorobenzeneM	1.0M	UM	1.0M
1,1,1-TrichloroethaneM	1.0M	UM	1.0M
1,1,2-TrichloroethaneM	1.0M	UM	1.0M
TrichloroetheneM	1.0M	UM	1.0M
TrichlorofluoromethaneM	1.0M	UM	1.0M
1,2,3-TrichloropropaneM	1.0M	UM	1.0M
1,2,4-TrimethylbenzeneM	1.0M	UM	1.0M
1,3,5-TrimethylbenzeneM	1.0M	UM	1.0M
Vinyl acetateM	2.0M	UM	2.0M
Vinyl chlorideM	1.0M	UM	1.0M
Xylenes, TotalM	2.0M	UM	2.0M

SurrogateM	%RecM	QualifierM	Acceptance LimitsM
4-BromofluorobenzeneM	98M		75 - 120M
ibromofluoromethaneM	93M		75 - 121M
Toluene-d8 (Surr)	113M		75 - 120M

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-1T**

Lab Sample ID:M 680-62026-1M Sampled: 10/08/2010 1415M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

6010C Metals (ICP)

thod:M	6010CM	Analysis Batch: 680-182792M	Instrument ID:M	ICPDM
Preparation:M	3030CM	Prep Batch: 680-182513M	Lab File ID:M	1012101012105.chrM
ilution:M	1.0M		Initial Weight/Volume:M	50 mLM
Analyzed:M	10/12/2010 2142M		Final Weight/Volume:M	50 mLM
Prepared:M	10/11/2010 1148M			

AnalyteM	Result (ug/L)M	QualifierM	RLM
ArsenicM	20M	UM	20M
BariumM	50M	UM	50M
CadmiumM	5.0M	UM	5.0M
ChromiumM	10M	UM	10M
IronM	6100M		100M
LeadM	10M	UM	10M
SeleniumM	20M	UM	20M
Silver	10M	UM	10M

hod:M	6010CM	Analysis Batch: 680-184533M	Instrument ID:M	Varian ICPM
Preparation:M	3030CM	Prep Batch: 680-182513M	Lab File ID:M	E10282010.csvM
ilution:M	10M		Initial Weight/Volume:M	50 mLM
Analyzed:M	10/28/2010 1430M		Final Weight/Volume:M	50 mLM
Prepared:M	10/11/2010 1148M			

AnalyteM	Result (ug/L)M	QualifierM	RLM
SodiumM	270000M		10000M

7470A Mercury (CVAA)

thod:M	7470AM	Analysis Batch: 680-182841M	Instrument ID:M	LEEMAN1M
Preparation:M	7470AM	Prep Batch: 680-182651M	Lab File ID:M	b101210.chrM
ilution:M	1.0M		Initial Weight/Volume:M	50 mLM
Analyzed:M	10/13/2010 1403M		Final Weight/Volume:M	50 mLM
Prepared:M	10/12/2010 1047M			

AnalyteM	Result (ug/L)M	QualifierM	RLM
rcury	0.20M	UM	0.20

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-2T**

Lab Sample ID:M 680-62026-2M Sampled: 10/08/2010 1630M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

6010C Metals (ICP)

thod:M	6010CM	Analysis Batch: 680-182792M		Instrument ID:M	ICPDM
Preparation:M	3030CM	Prep Batch: 680-182513M		Lab File ID:M	1012101012105.chrM
ilution:M	1.0M			Initial Weight/Volume:M	50 mLM
Analyzed:M	10/12/2010 2208M			Final Weight/Volume:M	50 mLM
Prepared:M	10/11/2010 1148M				

AnalyteM	Result (ug/L)M	QualifierM	RLM
ArsenicM	20M	UM	20M
BariumM	50M	UM	50M
CadmiumM	5.0M	UM	5.0M
ChromiumM	10M	UM	10M
IronM	7600M		100M
LeadM	10M	UM	10M
SeleniumM	20M	UM	20M
SilverM	10M	UM	10M
SodiumM	65000M		1000M

7470A Mercury (CVAA)

thod:M	7470AM	Analysis Batch: 680-182841M		Instrument ID:M	LEEMAN1M
Preparation:M	7470AM	Prep Batch: 680-182651M		Lab File ID:M	b101210.chrM
ilution:M	1.0M			Initial Weight/Volume:M	50 mLM
Analyzed:M	10/13/2010 1406M			Final Weight/Volume:M	50 mLM
Prepared:M	10/12/2010 1047M				

AnalyteM	Result (ug/L)M	QualifierM	RLM
rcury	0.20M	UM	0.20

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-3T**

Lab Sample ID:M 680-62026-3M Sampled: 10/08/2010 1550M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

6010C Metals (ICP)

thod:M	6010CM	Analysis Batch: 680-182792M	Instrument ID:M	ICPDM
Preparation:M	3030CM	Prep Batch: 680-182513M	Lab File ID:M	1012101012105.chrM
ilution:M	1.0M		Initial Weight/Volume:M	50 mLM
Analyzed:M	10/12/2010 2213M		Final Weight/Volume:M	50 mLM
Prepared:M	10/11/2010 1148M			

AnalyteM	Result (ug/L)M	QualifierM	RLM
ArsenicM	20M	UM	20M
BariumM	250M		50M
CadmiumM	5.0M	UM	5.0M
ChromiumM	140M		10M
IronM	300M		100M
LeadM	10M	UM	10M
SeleniumM	20M	UM	20M
Silver	10M	UM	10M

hod:M	6010CM	Analysis Batch: 680-184533M	Instrument ID:M	Varian ICPM
Preparation:M	3030CM	Prep Batch: 680-182513M	Lab File ID:M	E10282010.csvM
ilution:M	10M		Initial Weight/Volume:M	50 mLM
Analyzed:M	10/28/2010 1444M		Final Weight/Volume:M	50 mLM
Prepared:M	10/11/2010 1148M			

AnalyteM	Result (ug/L)M	QualifierM	RLM
SodiumM	80000M		10000M

7470A Mercury (CVAA)

thod:M	7470AM	Analysis Batch: 680-182841M	Instrument ID:M	LEEMAN1M
Preparation:M	7470AM	Prep Batch: 680-182651M	Lab File ID:M	b101210.chrM
ilution:M	1.0M		Initial Weight/Volume:M	50 mLM
Analyzed:M	10/13/2010 1409M		Final Weight/Volume:M	50 mLM
Prepared:M	10/12/2010 1047M			

AnalyteM	Result (ug/L)M	QualifierM	RLM
rcury	0.20M	UM	0.20

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-38T**

Lab Sample ID:M 680-62026-4M Sampled: 10/08/2010 1345M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

6010C Metals (ICP)

thod:M	6010CM	Analysis Batch: 680-182792M		Instrument ID:M	ICPDM
Preparation:M	3030CM	Prep Batch: 680-182513M		Lab File ID:M	1012101012105.chrM
ilution:M	1.0M			Initial Weight/Volume:M	50 mLM
Analyzed:M	10/12/2010 2229M			Final Weight/Volume:M	50 mLM
Prepared:M	10/11/2010 1148M				

AnalyteM	Result (ug/L)M	QualifierM	RLM
ArsenicM	20M	UM	20M
BariumM	50M	UM	50M
CadmiumM	5.0M	UM	5.0M
ChromiumM	10M	UM	10M
IronM	260M		100M
LeadM	10M	UM	10M
SeleniumM	20M	UM	20M
SilverM	10M	UM	10M
SodiumM	42000M		1000M

7470A Mercury (CVAA)

thod:M	7470AM	Analysis Batch: 680-182841M		Instrument ID:M	LEEMAN1M
Preparation:M	7470AM	Prep Batch: 680-182651M		Lab File ID:M	b101210.chrM
ilution:M	1.0M			Initial Weight/Volume:M	50 mLM
Analyzed:M	10/13/2010 1418M			Final Weight/Volume:M	50 mLM
Prepared:M	10/12/2010 1047M				

AnalyteM	Result (ug/L)M	QualifierM	RLM
rcury	0.20M	UM	0.20

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Client Sample ID:T **MW-39T**

Lab Sample ID:M 680-62026-5M Sampled: 10/08/2010 1500M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

6010C Metals (ICP)

thod:M	6010CM	Analysis Batch: 680-182792M		Instrument ID:M	ICPDM
Preparation:M	3030CM	Prep Batch: 680-182513M		Lab File ID:M	1012101012105.chrM
ilution:M	1.0M			Initial Weight/Volume:M	50 mLM
Analyzed:M	10/12/2010 2235M			Final Weight/Volume:M	50 mLM
Prepared:M	10/11/2010 1148M				

AnalyteM	Result (ug/L)M	QualifierM	RLM
ArsenicM	20M	UM	20M
BariumM	63M		50M
CadmiumM	5.0M	UM	5.0M
ChromiumM	10M	UM	10M
IronM	100M	UM	100M
LeadM	10M	UM	10M
SeleniumM	20M	UM	20M
SilverM	10M	UM	10M
SodiumM	23000M		1000M

7470A Mercury (CVAA)

thod:M	7470AM	Analysis Batch: 680-182841M		Instrument ID:M	LEEMAN1M
Preparation:M	7470AM	Prep Batch: 680-182651M		Lab File ID:M	b101210.chrM
ilution:M	1.0M			Initial Weight/Volume:M	50 mLM
Analyzed:M	10/13/2010 1422M			Final Weight/Volume:M	50 mLM
Prepared:M	10/12/2010 1047M				

AnalyteM	Result (ug/L)M	QualifierM	RLM
rcury	0.20M	UM	0.20

General ChemistryT

Client Sample ID:T **MW-1T**

Lab Sample ID:M 680-62026-1M Sampled: 10/08/2010 1415M

Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

AnalyteM	ResultM	QualM	UnitsM	RLM	il	hodM
SulfateM	290M		mg/LM	100M	20M	9038M

Analysis Batch: 680-183526M Analyzed: 10/20/2010 1239

General ChemistryT

Client Sample ID:T **MW-2T**

Lab Sample ID:M 680-62026-2M Sampled: 10/08/2010 1630M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

AnalyteM	ResultM	QualM	UnitsM	RLM	il	hodM
SulfateM	270M		mg/LM	100M	20M	9038M

Analysis Batch: 680-183526M Analyzed: 10/20/2010 1239

General ChemistryT

Client Sample ID:T **MW-3T**

Lab Sample ID:M 680-62026-3M Sampled: 10/08/2010 1550M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

AnalyteM	ResultM	QualM	UnitsM	RLM	il	hodM
SulfateM	53M		mg/LM	10M	2.0M	9038M

Analysis Batch: 680-183526M Analyzed: 10/20/2010 1239

General ChemistryT

Client Sample ID:T **MW-38T**

Lab Sample ID:M 680-62026-4M Sampled: 10/08/2010 1345M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

AnalyteM	ResultM	QualM	UnitsM	RLM	il	hodM
SulfateM	26M		mg/LM	5.0M	1.0M	9038M

Analysis Batch: 680-183526M Analyzed: 10/20/2010 1231

General ChemistryT

Client Sample ID:T **MW-39T**

Lab Sample ID:M 680-62026-5M Sampled: 10/08/2010 1500M
Client Matrix:M Ground WaterM Received: 10/09/2010 1006M

AnalyteM	ResultM	QualM	UnitsM	RLM	il	hodM
SulfateM	14M		mg/LM	5.0M	1.0M	9038M

Analysis Batch: 680-183526M Analyzed: 10/20/2010 1231

D T R PORT N U LIFa RSh

Client: ARCADIS U.S., Inc.M Job Number: 680-62026-1M

Lab Sectionp	u alifierM	Descriptionp
GC/MS VOAM		
	UM	IndicaT s thM T analyT was analyzI d for but not dT cteMd.M
	*I	LCS or LCSD ekceeds thM T control limitsM T
	EI	ResMult ekceeds thM T calibraTon rangI.M
	*I	RPI o f thM T LCS and LCSD ekceeds thM T control limitsM T
MT alsT		
	UM	IndicaT s thM T analyT was analyzI d for but not dT cteMd.M
	4I	MS, MSD: ThT analyT presM Tnt in thM T ori ginal sample is 4 M imesMgreaM Tr thM an thM T m aTrix spikI concentr aTon; thM T reM fore, M control limitsM are not applicable.M
GTher al ChTmi sTryT		
	UM	IndicaT s thM T analyT was analyzI d for but not dT cteMd.M

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

MeVhod Bv nk - Bv ch: 680-183T9I **MeVhod: 8660Bv**
Prepuru on: 5030Bv

LFb S, mpl, I,	MB 680-1, 3229/11,	An, lysis BMchM	680-1, 3229M	Inst,ume.t I,	MSOM
li, t MTt,ixT	W, t,	p BMchMN/A,		LFb FiI, I,	oq349.dM
ilutio.	1.0.	Units:.	ug/LF	Initi, l W, ight/Volume:.	5 mLF
t, An, lyzFdM	10/15/2010 1215M			Fin, l W, ight/Volume:.	5 mLF
t, . pF dM	10/15/2010 1215M				

A, lyt,	su lt,	Qu. l,	LF
A, to.	25M	U	25M
BM zF	1.0.	U	1.0.
BMdmobe. zF	1.0.	U	1.0.
BMdmo. hloromethM	1.0.	U	1.0.
BMdmoform.	1.0.	U	1.0.
BMdmomethM	1.0.	U	1.0.
2-But, o. (MEK)I	10.	U	10.
bo. disulfidM	2.0.	U	2.0.
bo. t, t, hloridM	1.0.	U	1.0.
hlorobe. zF	1.0.	U	1.0.
hlorodibromomethM	1.0.	U	1.0.
hloroethM	1.0.	U	1.0.
hloroform.	1.0.	U	1.0.
hloromethM	1.0.	U	1.0.
2-. hlorotolue.	1.0.	U	1.0.
4-. hlorotolue.	1.0.	U	1.0.
i s-1,2-. ichloroethM	1.0.	U	1.0.
i s-1,3-. ichloropFopF	1.0.	U	1.0.
1,2-. ibromo-3-. hloropFopF	1.0.	U	1.0.
1,2-. ibromoethM	1.0.	U	1.0.
ibromomethM	1.0.	U	1.0.
1,3-. ichlorobe. zF	1.0.	U	1.0.
1,2-. ichlorobe. zF	1.0.	U	1.0.
1,4-. ichlorobe. zF	1.0.	U	1.0.
ichlorobromomethM	1.0.	U	1.0.
ichlorodifluoromethM	1.0.	U	1.0.
1,1-. ichloroethM	1.0.	U	1.0.
1,2-. ichloroethM	1.0.	U	1.0.
1,1-. ichloroethM	1.0.	U	1.0.
1,2-. ichloroethM Tot, l,	2.0.	U	2.0.
1,2-. ichloropFopF	1.0.	U	1.0.
2M2-. ichloropFopF	1.0.	U	1.0.
1,3-. ichloropFopF	1.0.	U	1.0.
1,1-. ichloropFopF	1.0.	U	1.0.
i, thyl ethM	10.	U	10.
Ethylbe. zF	1.0.	U	1.0.
HI xT hlorobut,d i,	1.0.	U	1.0.
2-HI xT o.	10.	U	10.
IsopFopylbe. zF	1.0.	U	1.0.
MTthyl, . hloridM	5.0.	U	5.0.
4-MTthyl-2-pF t, o. (MIBK)I	10.	U	10.
MTthyl t, t-butyl ethM	10.	U	10.
m-Xyl, & p-Xyl,	2.0.	U	2.0.

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

MeVhod Bv nk - Bv ch: 680-183T9I

MeVhod: 8660Bv
Prepuru on: 5030Bv

LFb S, mpl, I,	MB 680-1, 3229/11,	An, lysis BMchM	680-1, 3229M	Inst,ume.t I,	MSOM
li, t MTt,ixT	W, t,	p BMchMN/A,		LFb FiI, I,	oq349.dM
ilutio.	1.0.	Units:.	ug/LF	Initi, I W, ight/Volume:.	5 mLF
t, An, lyzFdM	10/15/2010 1215M			Fin, I W, ight/Volume:.	5 mLF
t, . pF dM	10/15/2010 1215M				

A, lyt,	su lt,	Qu. I,	LF
N. phthM,	5.0.	U	5.0.
-Butylbe. zF	1.0.	U	1.0.
N-. opylbe. zF	1.0.	U	1.0.
o-Xyl,	1.0.	U	1.0.
p-IsopRopyltolue.	1.0.	U	1.0.
se. -Butylbe. zF	1.0.	U	1.0.
StyT	1.0.	U	1.0.
t, t-Butylbe. zF	1.0.	U	1.0.
1,1,2M2-TI t, hloroethM	1.0.	U	1.0.
1,1,1,2-TI t, hloroethM	1.0.	U	1.0.
TI t, hloroethM	1.0.	U	1.0.
Tolue.	1.0.	U	1.0.
t, s-1,2-. ichloroethM	1.0.	U	1.0.
t, s-1,3-. ichloropRopF	1.0.	U	1.0.
1,2M4-TIichlorobe. zF	1.0.	U	1.0.
1,2,3-TIichlorobe. zF	1.0.	U	1.0.
1,1,1-TIichloroethM	1.0.	U	1.0.
1,1,2-TIichloroethM	1.0.	U	1.0.
TIichloroethM	1.0.	U	1.0.
TIichlorofluoromethM	1.0.	U	1.0.
1,2,3-TIichloropRopF	1.0.	U	1.0.
1,2M4-TImethylbe. zF	1.0.	U	1.0.
1,3,5-TImethylbe. zF	1.0.	U	1.0.
Vinyl . t, t,	2.0.	U	2.0.
Vinyl . hloridM	1.0.	U	1.0.
Xyl, es. Tot, l,	2.0.	U	2.0.

Surrog t,	% .	Acc, pt, Limits.
4-BMbmofluorobe. zF	100.	75 - 120.
ibromofluoromethM	9M	75 - 121,
Tolue. - dM(Surr)I	109M	75 - 120.

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

LUbVConurouSVmpue/V **MeVhod: 8660Bv**
LUbVConurouSVmpueVDVpucv eVRecovery Reporu- Bv ch: 680-183T9I **Prepuru on: 5030Bv**

LFS LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	LFS 680-1, 3229/9M W, t, 1.0. 10/15/2010 1049M 10/15/2010 1049M	An, lysis BMchM 680-1, 3229M p BMchMN/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq343.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF

LFS, LFb S, mpl, I, li, t MTt ixT ilutio. t, An, lyzFdM t, . pF dM	LFS, 680-1, 3229/12M W, t, 1.0. 10/15/2010 2003, 10/15/2010 2003,	An, lysis BMchM 680-1, 3229M p BMch: N/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq351.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF

A, lyt,	% . ., LFS,	LFS,	Limit,		Limit,	LFS Qu I,	LFS, Qu I,
A, to.	122M	112M	17 - 175M		50.		
BM zF	101,	110.	77 - 119M		30.		
BMdmobe. zF	103,	104I	0 - 124I	1,	30.		
BMdmo. hloromethM	109M	105M	10 - 150.	4I	30.		
BMdmoform.	91,	7I	2 - 133,	4I	30.		
BMdmomethM	108.	111,	12 - 1, 4I	3,	50.		
2-But, o. (MEK)I	107I	106.	33 - 157I	1,	30.		
bo. disulfidM	11,	111,	55 - 131,	5M	30.		
bo. t, t, hloridM	107I	111,	71 - 135M	4I	30.		
hlorobe. zF	99M	9M	5 - 11,	1,	30.		
hlorodibromomethM	110.	105M	75 - 133,	4I	30.		
hloroethM	145M	1, 4I	40 - 1, 5M	12M	50.		
hloroform.	101,	9M	2 - 120.	4I	30.		
hloromethM	123,	125M	4I - 142M	2M	50.		
2-. hlorotolue.	108.	109M	2 - 123,	1,	30.		
4-. hlorotolue.	1108.	109M	3 - 122M	1,	30.		
is-1,2-. ichloroethM	102M	9M	9 - 134I	4I	30.		
is-1,3-. ichloropFopF	109M	109M	7I - 12M	0.	30.		
1,2-. ibromo-3-. hloropFopF	105M	103,	49 - 140.	2M	30.		
1,2-. ibromoethM	102M	110.	0 - 121,	7I	30.		
ibromomethM	102M	112M	7I - 119M	9M	30.		
1,3-. ichlorobe. zF	105M	107I	7I - 125M	2M	30.		
1,2-. ichlorobe. zF	104I	108.	79 - 124I	3,	30.		
1,4-. ichlorobe. zF	104I	106.	1 - 122M	2M	30.		
ichlorobromomethM	105M	115M	7I - 127I	9M	30.		
ichlorodifluoromethM	137I	123,	34 - 154I	11,	30.		
1,1-. ichloroethM	102M	101,	74 - 127I	1,	30.		
1,2-. ichloroethM	102M	115M	- 132M	12M	30.		
1,1-. ichloroethM	11,	107I	2 - 141,		30.		
1,2-. ichloroethM Tot, I,	103,	99M	- 134I	4I	30.		
1,2-. ichloropFopF	103,	113,	73 - 124I	9M	30.		
2M-. ichloropFopF	11,	9M	55 - 157I	2M	30.		
1,3-. ichloropFopF	103,	114I	75 - 120.	10.	30.		

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

LUbVConurouSVmpue/V **MeVhod: 8660Bv**
LUbVConurouSVmpueVDVpucv eVRecovery Reporu- Bv ch: 680-183T9I **Prepuru on: 5030Bv**

LFS LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	LFS 680-1, 3229/9M W, t, 1.0. 10/15/2010 1049M 10/15/2010 1049M	An, lysis BMchM 680-1, 3229M p BMchMN/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq343.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF

LFS, LFb S, mpl, I, li, t MTt ixT ilutio. t, An, lyzFdM t, . pF dM	LFS, 680-1, 3229/12M W, t, 1.0. 10/15/2010 2003, 10/15/2010 2003,	An, lysis BMchM 680-1, 3229M p BMch: N/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq351.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF

A, lyt,	% . ., LFS,	LFS,	Limit,		Limit,	LFS Qu I,	LFS, Qu I,
1,1-. ichloropFopF	107I	113,	77 - 122M		30.		
Ethylbe. zF	108.	107I	- 11,	1,	30.		
HI xT hlorobut,d i,	104I	97I	2 - 142M		30.		
2-HI xT o.	114I	121,	34 - 1, 1,		30.		
IsopFopylbe. zF	92M	93,	2 - 121,	1,	30.		
MTthyl, . hloridM	105M	9M	70 - 125M		30.		
4-MTthyl-2-pF t, o. (MIBK)I	112M	125M	40 - 151	,11 ,	30.		
MTthyl t, t-butyl ethM	102M	97I	77 - 121,	5M	30.		
m-Xyl, & p-Xyl,	106.	106.	3 - 11,	0.	30.		
N. phthM,	97I	95M	4I - 135M	3,	30.		
-Butylbe. zF	106.	104I	4 - 13,	2M	30.		
N-. opylbe. zF	112M	111,	0 - 12M	1,	30.		
o-Xyl,	105M	107I	3 - 119M	2M	30.		
p-IsopFopyltolue.	102M	104I	3 - 139M	2M	30.		
se. -Butylbe. zF	112M	114I	77 - 12M	2M	30.		
StyT		9M	2 - 122M	1,	30.		
t, t-Butylbe. zF	94I	94I	0 - 124I	0.	30.		
1,1,2M2-TI t, hloroethM	103,	106.	9 - 129M	3,	30.		
1,1,1,2-TI t, hloroethM	103,	100.	1 - 12M	2M	30.		
TI t, hloroethM	99M	92M	7I - 12M	7I	30.		
Tolue.	107I	11,	1 - 117I		30.		
t, s-1,2-. ichloroethM	104I	101,	72 - 131,	3,	30.		
t, s-1,3-. ichloropFopF	112M	113,	73 - 12M	1,	30.		
1,2M4-TIichlorobe. zF	7I	2M	0 - 135M		30.		
1,2,3-TIichlorobe. zF	91,		0 - 132M	4I	30.		
1,1,1-TIichloroethM	106.	109M	7I - 127I	3,	30.		
1,1,2-TIichloroethM	104I	111,	75 - 121,	7I	30.		
TIichloroethM	9M	101,	4 - 115M	5M	30.		
TIichlorofluoromethM	121,	12M	5M- 149M		50.		
1,2,3-TIichloropFopF	105M	109M	70 - 130.	4I	30.		
1,2M4-TImethylbe. zF	9M	97I	72 - 132M	1,	30.		
1,3,5-TImethylbe. zF	102M	104I	72 - 133,	2M	30.		
Vinyl . t, t,	120.	9M	10 - 217I	23,	30.		

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

LUbVConurouSVmpue/V **MeVhod: 8660Bv**
LUbVConurouSVmpueVDVpucv eVRecovery Reporu- Bv ch: 680-183T9I **Prepuru on: 5030Bv**

LFS LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	LFS 680-1, 3229/9M W, t, 1.0. 10/15/2010 1049M 10/15/2010 1049M	An, lysis BMchM 680-1, 3229M p BMchMN/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq343.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF

LFS, LFb S, mpl, I, li, t MTt ixT ilutio. t, An, lyzFdM t, . pF dM	LFS, 680-1, 3229/12M W, t, 1.0. 10/15/2010 2003, 10/15/2010 2003,	An, lysis BMchM 680-1, 3229M p BMch: N/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq351.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF

A, lyt,	LFS,	% . ., LFS,	Limit,		Limit,	LFS Qu l,	LFS, Qu l,
Vinyl . hloridM	121,	119M	59 - 144I	2M	50.		
Xyl, es. Tot, l,	106.	106.	4 - 11,	1,	30.		

Surrog t,	LFS % .	LFS, % .	Acc, pt, Limits.
4-BMomofluorobe. zF	105M	104I	75 - 120.
ibromofluoromethM	102M	95M	75 - 121,
Tolue. - dM(Surr)I	106.	112M	75 - 120.

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

MeVhod Bv nk - Bv ch: 680-183T45I

MeVhod: 8660Bv
Prepuru on: 5030Bv

LFb S, mpl, I,	MB 680-1, 3245/9M	An, lysis BMchM	680-1, 3245M	Inst,ume.t I,	MSOM
li, t MTt,ixT	W, t,	p BMchMN/A,		LFb FiI, I,	oq3, 3.dM
ilutio.	1.0.	Units:.	ug/LF	Initi, l W, ight/Volume:.	5 mLF
t, An, lyzFdM	10/1, /2010 1212M			Fin, l W, ight/Volume:.	5 mLF
t, . pF dM	10/1, /2010 1212M				

A, lyt,	su lt,	Qu. l,	LF
A, to.	25M	U	25M
BM zF	1.0.	U	1.0.
BMdmobe. zF	1.0.	U	1.0.
BMdmo. hloromethM	1.0.	U	1.0.
BMdmoform.	1.0.	U	1.0.
BMdmomethM	1.0.	U	1.0.
2-But, o. (MEK)I	10.	U	10.
bo. disulfidM	2.0.	U	2.0.
bo. t, t, hloridM	1.0.	U	1.0.
hlorobe. zF	1.0.	U	1.0.
hlorodibromomethM	1.0.	U	1.0.
hloroethM	1.0.	U	1.0.
hloroform.	1.0.	U	1.0.
hloromethM	1.0.	U	1.0.
2-. hlorotolue.	1.0.	U	1.0.
4-. hlorotolue.	1.0.	U	1.0.
i s-1,2-. ichloroethM	1.0.	U	1.0.
i s-1,3-. ichloropFopF	1.0.	U	1.0.
1,2-. ibromo-3-. hloropFopF	1.0.	U	1.0.
1,2-. ibromoethM	1.0.	U	1.0.
ibromomethM	1.0.	U	1.0.
1,3-. ichlorobe. zF	1.0.	U	1.0.
1,2-. ichlorobe. zF	1.0.	U	1.0.
1,4-. ichlorobe. zF	1.0.	U	1.0.
ichlorobromomethM	1.0.	U	1.0.
ichlorodifluoromethM	1.0.	U	1.0.
1,1-. ichloroethM	1.0.	U	1.0.
1,2-. ichloroethM	1.0.	U	1.0.
1,1-. ichloroethM	1.0.	U	1.0.
1,2-. ichloroethM Tot, l,	2.0.	U	2.0.
1,2-. ichloropFopF	1.0.	U	1.0.
2M2-. ichloropFopF	1.0.	U	1.0.
1,3-. ichloropFopF	1.0.	U	1.0.
1,1-. ichloropFopF	1.0.	U	1.0.
i, thyl ethM	10.	U	10.
Ethylbe. zF	1.0.	U	1.0.
HI xT hlorobut,d i,	1.0.	U	1.0.
2-HI xT o.	10.	U	10.
IsopFopylbe. zF	1.0.	U	1.0.
MTthyl, . hloridM	5.0.	U	5.0.
4-MTthyl-2-pF t, o. (MIBK)I	10.	U	10.
MTthyl t, t-butyl ethM	10.	U	10.
m-Xyl, & p-Xyl,	2.0.	U	2.0.

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

MeVhod Bv nk - Bv ch: 680-183T45l **MeVhod: 8660Bv**
Prepuru on: 5030Bv

LFb S, mpl, I,	MB 680-1, 3245/9M	An, lysis BMchM	680-1, 3245M	Inst,ume.t I,	MSOM
li, t MTt,ixT	W, t,	p BMchMN/A,		LFb FiI, I,	oq3, 3.dM
ilutio.	1.0.	Units:.	ug/LF	Initi, I W, ight/Volume:.	5 mLF
t, An, lyzFdM	10/1, /2010 1212M			Fin, I W, ight/Volume:.	5 mLF
t, . pF dM	10/1, /2010 1212M				

A, lyt,	su lt,	Qu. I,	LF
N. phthM,	5.0.	U	5.0.
-Butylbe. zF	1.0.	U	1.0.
N-. opylbe. zF	1.0.	U	1.0.
o-Xyl,	1.0.	U	1.0.
p-IsopFopyltolue.	1.0.	U	1.0.
se. -Butylbe. zF	1.0.	U	1.0.
StyT	1.0.	U	1.0.
t, t-Butylbe. zF	1.0.	U	1.0.
1,1,2M2-TI t, hloroethM	1.0.	U	1.0.
1,1,1,2-TI t, hloroethM	1.0.	U	1.0.
TI t, hloroethM	1.0.	U	1.0.
Tolue.	1.0.	U	1.0.
t, s-1,2-. ichloroethM	1.0.	U	1.0.
t, s-1,3-. ichloropFopF	1.0.	U	1.0.
1,2M4-TIichlorobe. zF	1.0.	U	1.0.
1,2,3-TIichlorobe. zF	1.0.	U	1.0.
1,1,1-TIichloroethM	1.0.	U	1.0.
1,1,2-TIichloroethM	1.0.	U	1.0.
TIichloroethM	1.0.	U	1.0.
TIichlorofluoromethM	1.0.	U	1.0.
1,2,3-TIichloropFopF	1.0.	U	1.0.
1,2M4-TImethylbe. zF	1.0.	U	1.0.
1,3,5-TImethylbe. zF	1.0.	U	1.0.
Vinyl . t, t,	2.0.	U	2.0.
Vinyl . hloridM	1.0.	U	1.0.
Xyl, es. Tot, l,	2.0.	U	2.0.

Surrog t,	% .	Acc, pt, Limits.
4-BMbmofluorobe. zF	101,	75 - 120.
ibromofluoromethM	95M	75 - 121,
Tolue. - dM(Surr)l	110.	75 - 120.

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

LUbVConurouSVmpue/V **MeVhod: 8660Bv**
LUbVConurouSVmpueVDVpucv eVRecovery Reporu- Bv ch: 680-183T45I **Prepuru on: 5030Bv**

LFS LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	LFS 680-1, 3245/4I W, t, 1.0. 10/1, /2010 1019M 10/1, /2010 1019M	An, lysis BMchM 680-1, 3245M p BMchMN/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq355.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF	
LFS, LFb S, mpl, I, li, t MTt ixT ilutio. t, An, lyzFdM t, . pF dM	LFS, 680-1, 3245/5M W, t, 1.0. 10/1, /2010 1047I 10/1, /2010 1047I	An, lysis BMchM 680-1, 3245M p BMch: N/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq357.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF	

A, lyt,	% . ., LFS,	LFS,	Limit,		Limit,	LFS Qu I,	LFS, Qu I,
A, to.	119M	108.	17 - 175M	9M	50.		
BM zF	104I	103,	77 - 119M	1,	30.		
BMdmobe. zF	106.	106.	0 - 124I	0.	30.		
BMdmo. hloromethM	107I	109M	10 - 150.	2M	30.		
BMdmoform.	91,	94I	2 - 133,	3,	30.		
BMdmomethM	109M	19M	12 - 1, 4I	5M	50.		*I
2-But, o. (MEK)I	107I	103,	33 - 157I	4I	30.		
bo. disulfidM	11,	113,	55 - 131,	2M	30.		
bo. t, t, hloridM	110.	109M	71 - 135M	1,	30.		
hlorobe. zF	99M	102M	5 - 11,	2M	30.		
hlorodibromomethM	110.	110.	75 - 133,	0.	30.		
hloroethM	12M	15M	40 - 1, 5M	22M	50.		
hloroform.	101,	103,	2 - 120.	2M	30.		
hloromethM	120.	124I	4I - 142M	3,	50.		
2-. hlorotolue.	107I	110.	2 - 123,	2M	30.		
4-. hlorotolue.	107I	110.	3 - 122M	2M	30.		
is-1,2-. ichloroethM	101,	103,	9 - 134I	2M	30.		
is-1,3-. ichloropFopF	113,	109M	7I - 12M	3,	30.		
1,2-. ibromo-3-. hloropFopF	103,	109M	49 - 140.	5M	30.		
1,2-. ibromoethM	108.	104I	0 - 121,	3,	30.		
ibromomethM	105M	104I	7I - 119M	2M	30.		
1,3-. ichlorobe. zF	105M	108.	7I - 125M	2M	30.		
1,2-. ichlorobe. zF	105M	106.	79 - 124I	1,	30.		
1,4-. ichlorobe. zF	103,	108.	1 - 122M	4I	30.		
ichlorobromomethM	111,	106.	7I - 127I	4I	30.		
ichlorodifluoromethM	139M	142M	34 - 154I	2M	30.		
1,1-. ichloroethM	103,	104I	74 - 127I	1,	30.		
1,2-. ichloroethM	104I	102M	- 132M	2M	30.		
1,1-. ichloroethM	11,	110.	2 - 141,		30.		
1,2-. ichloroethM Tot, I,	103,	104I	- 134I	1,	30.		
1,2-. ichloropFopF	103,	101,	73 - 124I	2M	30.		
2M-. ichloropFopF	121,	122M	55 - 157I	1,	30.		
1,3-. ichloropFopF	107I	103,	75 - 120.	4I	30.		

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

LUbVConurouSVmpue/V **MeVhod: 8660Bv**
LUbVConurouSVmpueVDVpucv eVRecovery Reporu- Bv ch: 680-183T45I **Prepuru on: 5030Bv**

LFS LFb S, mpl, I,	LFS 680-1, 3245/4I	An, lysis BMchM 680-1, 3245M	Inst,ume.t I, MSOM
li, t MTt,ixT	W, t,	p BMchMN/A,	LFb FiI, I, oq355.dM
ilutio.	1.0.	Units:. ug/LF	Initi, l W, ight/Volume:. 5 mLF
t, An, lyzFdM	10/1, /2010 1019M		Fin, l W, ight/Volume:. 5 mLF
t, . pF dM	10/1, /2010 1019M		

LFS, LFb S, mpl, I,	LFS, 680-1, 3245/5M	An, lysis BMchM 680-1, 3245M	Inst,ume.t I, MSOM
li, t MTt ixT	W, t,	p BMch: N/A,	LFb FiI, I, oq357.dM
ilutio.	1.0.	Units:. ug/LF	Initi, l W, ight/Volume:. 5 mLF
t, An, lyzFdM	10/1, /2010 1047I		Fin, l W, ight/Volume:. 5 mLF
t, . pF dM	10/1, /2010 1047I		

	% . .,					
A, lyt,	LFS,	LFS,	Limit,		Limit,	LFS Qu I, LFS, Qu I,
1,1-. ichloropFopF	108.	109M	77 - 122M	0.	30.	
i, thyl ethM	0.	0.	70 - 130.	N.	3 0.	U U
Ethylbe. zF	107I	107I	- 11,	0.	30.	
HI xT hlorobut,d i,	104I	105M	2 - 142M	1,	30.	
2-HI xT o.	11,	11,	34 - 1, 1,	0.	30.	
IsopFopylbe. zF	93,	94I	2 - 121,	2M	30.	
MTthyl, . hloridM	104I	104I	70 - 125M	0.	30.	
4-MTthyl-2-pF t, o. (MIBK)I	111,	109M	40 - 151,	2M	30.	
MTthyl t, t-butyl ethM	103,	104I	77 - 121,	0.	30.	
m-Xyl, & p-Xyl,	105M	107I	3 - 11,	2M	30.	
N. phthM,	97I	100.	4I - 135M	3,	30.	
-Butylbe. zF	105M	107I	4 - 13,	2M	30.	
N-. opylbe. zF	111,	113,	0 - 12M	2M	30.	
o-Xyl,	106.	110.	3 - 119M	4I	30.	
p-IsopFopyltolue.	101,	103,	3 - 139M	2M	30.	
se. -Butylbe. zF	110.	113,	77 - 12M	3,	30.	
StyT	7I	90.	2 - 122M	3,	30.	
t, t-Butylbe. zF	94I	95M	0 - 124I	1,	30.	
1,1,2M2-TI t, hloroethM	103,	104I	9 - 129M	1,	30.	
1,1,1,2-TI t, hloroethM	103,	104I	1 - 12M	1,	30.	
TI t, hloroethM	99M	104I	7I - 12M	5M	30.	
Tolue.	106.	106.	1 - 117I	0.	30.	
t, s-1,2-. ichloroethM	104I	104I	72 - 131,	0.	30.	
t, s-1,3-. ichloropFopF	114I	113,	73 - 12M	1,	30.	
1,2M4-TIichlorobe. zF	9M	92M	0 - 135M	3,	30.	
1,2,3-TIichlorobe. zF	93,	95M	0 - 132M	2M	30.	
1,1,1-TIichloroethM	107I	106.	7I - 127I	1,	30.	
1,1,2-TIichloroethM	101,	103,	75 - 121,	2M	30.	
TIichloroethM	100.	100.	4 - 115M	0.	30.	
TIichlorofluoromethM	121,	102M	5M- 149M	17I	50.	
1,2,3-TIichloropFopF	105M	106.	70 - 130.	1,	30.	
1,2M4-TIimethylbe. zF	9M	9M	72 - 132M	2M	30.	
1,3,5-TIimethylbe. zF	102M	105M	72 - 133,	3,	30.	

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

LUbVConurouSVmpue/V **MeVhod: 8660Bv**
LUbVConurouSVmpueVDVpucv eVRecovery Reporu- Bv ch: 680-183T45I **Prepuru on: 5030Bv**

LFS LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	LFS 680-1, 3245/4I W, t, 1.0. 10/1, /2010 1019M 10/1, /2010 1019M	An, lysis BMchM 680-1, 3245M p BMchMN/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq355.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF
LFS, LFb S, mpl, I, li, t MTt ixT ilutio. t, An, lyzFdM t, . pF dM	LFS, 680-1, 3245/5M W, t, 1.0. 10/1, /2010 1047I 10/1, /2010 1047I	An, lysis BMchM 680-1, 3245M p BMch: N/A, Units:. ug/LF	Inst,ume.t I, MSOM LFb FiI, I, oq357.dM Initi, l W, ight/Volume:. 5 mLF Fin, l W, ight/Volume:. 5 mLF

A, lyt,	% . ., LFS,	LFS,	Limit,		Limit,	LFS Qu l,	LFS, Qu l,
Vinyl . t t,	172M	1 9M	10 - 217I	2M	30.		
Vinyl . hloridM	11,	11,	59 - 144I	0.	50.		
Xyl, es. Tot, l,	105M	108.	4 - 11,	2M	30.		

Surrog t,	LFS % .	LFS, % .	Acc, pt, Limits.
4-BMomofluorobe. zF	105M	108.	75 - 120.
ibromofluoromethM	103,	103,	75 - 121,
Tolue. - dM(Surr)I	107I	107I	75 - 120.

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

MeVhod Bv nk - Bv ch: 680-1865 13T **MeVhod: 6010Cu**
Prepuru on: 3030Cu

LFb S, mpl, I,	MB 680-1, 2513/1-A,	An, lysis BMchM 680-1, 2792M		Inst,ume.t I,	IC,
li, t MTt,ixT	W, t,	p BMchM 680-1, 2513,		LFb Fil, I,	1012101012105.chM
ilutio.	1.0.	Units:. ug/LF		Initi, l W, ight/Volume:.	50 mLF
t, An, lyzFdM	10/12/2010 2131,			Fin, l W, ight/Volume:.	50 mLF
t, . pF dM	10/11/2010 114I				

A, lyt,	su lt,	Qu. l,	LF
A,se.ic,	20.	U	20.
BMium.	50.	U	50.
d mium.	5.0.	U	5.0.
hMdmium.	10.	U	10.
I,o.	100.	U	100.
LF dM	10.	U	10.
S, l, i um.	20.	U	20.
Silvl	10.	U	10.
Sodium.	1000.	U	1000.

LUbVConurouSVmpueV- Bv ch: 680-1865 13T **MeVhod: 6010Cu**
Prepuru on: 3030Cu

LFb S, mpl, I,	LRS 680-1, 2513/2-A,	An, lysis BMchM 680-1, 2792M		Inst,ume.t I,	IC,
li, t MTt,ixT	W, t,	p BMchM 680-1, 2513,		LFb Fil, I,	1012101012105.chM
ilutio.	1.0.	Units:. ug/LF		Initi, l W, ight/Volume:.	50 mLF
t, An, lyzFdM	10/12/2010 213,			Fin, l W, ight/Volume:.	50 mLF
t, . pF dM	10/11/2010 114I				

A, lyt,	Spike Amou.t,	su lt,	% . .,	Limit,	Qu. l,
A,se.ic,	2000.	2000.	100.	75 - 125M	
BMium.	2000.	2070.	104I	75 - 125M	
d mium.	50.0.	50.4I	101,	75 - 125M	
hMdmium.	200.	204I	102M	75 - 125M	
I,o.	1000.	9M	99M	75 - 125M	
LF dM	500.	510.	102M	75 - 125M	
S, l, i um.	2000.	2050.	102M	75 - 125M	
Silvl	50.0.	4I .5M	97I	75 - 125M	
Sodium.	5000.	4I 20.	9M	75 - 125M	

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

Mv rix Spuke/V **MeVhod: 6010Cu**
Mv rix SpukeVDVpucv eVRecovery Reporu- Bv ch: 680-1865 13T **Prepuru on: 3030Cu**

MS LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	0-6. 202M1, W, t, 1.0. 10/12/2010 215M 10/11/2010 114I	An, lysis BMchM 680-1, 2792M p BMchM 680-1, 2513,	Inst,ume.t I, LFb Fil, I, Initi, l W, ight/Volume:. Fin, l W, ight/Volume:.	IC, 1012101012105.chM 50 mLF 50 mLF
MS, LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	0-6. 202M1, W, t, 1.0. 10/12/2010 2203, 10/11/2010 114I	An, lysis BMchM 680-1, 2792M p BMchM 680-1, 2513,	Inst,ume.t I, LFb Fil, I, Initi, l W, ight/Volume:. Fin, l W, ight/Volume:.	IC, 1012101012105.chM 50 mLF 50 mLF

A, lyt,	MS,	% . ., MS,	Limit,		Limit,	MS Qu. l,	MS, Qu. l,
A,se.ic,	107I	109M	75 - 125M	2M	20.		
BMium.	103,	105M	75 - 125M	2M	20.		
d mium.	104I	106.	75 - 125M	2M	20.		
hMmium.	104I	106.	75 - 125M	2M	20.		
I,o.		5M	75 - 125M	0.	20.	4I	4I
LF dM	103,	105M	75 - 125M	3,	20.		
S, I, i um.	107I	109M	75 - 125M	2M	20.		
SilvI	99M	100.	75 - 125M	2M	20.		

Mv rix Spuke/V **MeVhod: 6010Cu**
Mv rix SpukeVDVpucv eVRecovery Reporu- Bv ch: 680-1865 13T **Prepuru on: 3030Cu**

MS LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	0-6. 202M1, W, t, 10. 10/2M2010 1435M 10/11/2010 114I	An, lysis BMchM 680-1, 4533, p BMchM 680-1, 2513,	Inst,ume.t I, LFb Fil, I, Initi, l W, ight/Volume:. Fin, l W, ight/Volume:.	VMi, IC, E102M2010.csvI 50 mLF 50 mLF
MS, LFb S, mpl, I, li, t MTt,ixT ilutio. t, An, lyzFdM t, . pF dM	0-6. 202M1, W, t, 10. 10/2M2010 1439M 10/11/2010 114I	An, lysis BMchM 680-1, 4533, p BMchM 680-1, 2513,	Inst,ume.t I, LFb Fil, I, Initi, l W, ight/Volume:. Fin, l W, ight/Volume:.	VMi, IC, E102M2010.csvI 50 mLF 50 mLF

A, lyt,	MS,	% . ., MS,	Limit,		Limit,	MS Qu. l,	MS, Qu. l,
Sodium.	-115M	-64I	75 - 125M	1,	20.	4I	4I

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

MeVhod BVnk - BVch: 680-1866516 **MeVhod: 7470AV**
Prepuru on: 7470AV

LFb S, mpl, I,	MB 680-1, 2M51/1-A,	An, lysis BMchM 680-1, 2M41,	Inst,ume.t I, LEEMAN1,
li, t MTt,ixT	W, t,	p BMchM 680-1, 2M51,	LFb Fil, I, b101210.chM
ilutio.	1.0.	Units:. ug/LF	Initi, l W, ight/Volume:. 50 mLF
t, An, lyzFdM	10/13/2010 1357I		Fin, l W, ight/Volume:. 50 mLF
t, . pF dM	10/12/2010 1047I		

A, lyt,	su lt,	Qu. l,	LF
MT uryT	0.20.	U	0.20.

LUbVConurouSVmpueV BVch: 680-1866516 **MeVhod: 7470AV**
Prepuru on: 7470AV

LFb S, mpl, I,	LFS 680-1, 2M51/2-A,	An, lysis BMchM 680-1, 2M41,	Inst,ume.t I, LEEMAN1,
li, t MTt,ixT	W, t,	p BMchM 680-1, 2M51,	LFb Fil, I, b101210.chM
ilutio.	1.0.	Units:. ug/LF	Initi, l W, ight/Volume:. 50 mLF
t, An, lyzFdM	10/13/2010 1400.		Fin, l W, ight/Volume:. 50 mLF
t, . pF dM	10/12/2010 1047I		

A, lyt,	Spike Amou.t,	su lt,	% . .,	Limit,	Qu. l,
MT uryT	2.50.	2.11,	5M	0 - 120.	

Mv rix Spuke/V **MeVhod: 7470AV**
Mv rix SpukeVDVpucv eVRecovery Reporu- BVch: 680-1866516 **Prepuru on: 7470AV**

MS LFb S, mpl, I,	0-6. 202M-5M	An, lysis BMchM 680-1, 2M41,	Inst,ume.t I, LEEMAN1,
li, t MTt,ixT	W, t,	p BMchM 680-1, 2M51,	LFb Fil, I, b101210.chM
ilutio.	1.0.		Initi, l W, ight/Volume:. 50 mLF
t, An, lyzFdM	10/13/2010 1424I		Fin, l W, ight/Volume:. 50 mLF
t, . pF dM	10/12/2010 1047I		
MS, LFb S, mpl, I,	0-6. 202M-5M	An, lysis BMchM 680-1, 2M41,	Inst,ume.t I, LEEMAN1,
li, t MTt,ixT	W, t,	p BMchM 680-1, 2M51,	LFb Fil, I, b101210.chM
ilutio.	1.0.		Initi, l W, ight/Volume:. 50 mLF
t, An, lyzFdM	10/13/2010 142M		Fin, l W, ight/Volume:. 50 mLF
t, . pF dM	10/12/2010 1047I		

			% . .,				
A, lyt,	MS,	MS,	Limit,		Limit,	MS Qu. l,	MS, Qu. l,
MT uryT	4I		0 - 120.	3,	20.		

li, t, A, A, IS U.S., Inc., Job Number: 680-6202M1,

MeVhod Bv nk - Bv ch: 680-183526T **MeVhod: 80386**
Prepuru on: N/AV

LFb S, mpl, I,	MB 680-1, 352M1,	An, lysis BMchM 680-1, 352M	Inst,ume.t I, KONELAB1,
li, t MTt,ixT	W, t,	p BMchMN/A,	LFb Fil, I, KONE11020101SO4B.xls.
ilutio.	1.0.	Units:. mg/LF	Initi, l W, ight/Volume:. 2 mLF
t, An, lyzFdM	10/20/2010 113,		Fin, l W, ight/Volume:. 2 mLF
t, . pF dM	N/A,		

A, lyt,	su lt,	Qu. l,	LF
Sulfl t,	5.0.	U	5.0.

LUbVConurouSVmpueV Bv ch: 680-183526T **MeVhod: 80386**
Prepuru on: N/AV

LFb S, mpl, I,	LFS 680-1, 352M2M	An, lysis BMchM 680-1, 352M	Inst,ume.t I, KONELAB1,
li, t MTt,ixT	W, t,	p BMchMN/A,	LFb Fil, I, KONE11020101SO4B.xls.
ilutio.	1.0.	Units:. mg/LF	Initi, l W, ight/Volume:. 2 mLF
t, An, lyzFdM	10/20/2010 113,		Fin, l W, ight/Volume:. 2 mLF
t, . pF dM	N/A,		

A, lyt,	Spike Amou.t,	su lt,	% . .,	Limit,	Qu. l,
Sulfl t,	20.0.	1, .5M	92M	75 - 125M	

DVpucv eV Bv ch: 680-183526T **MeVhod: 80386**
Prepuru on: N/AV

LFb S, mpl, I,	0-6. 202M4I	An, lysis BMchM 680-1, 352M	Inst,ume.t I, KONELAB1,
li, t MTt,ixT	W, t,	p BMchMN/A,	LFb Fil, I, KONE11020101SO4B.xls.
ilutio.	1.0.	Units:. mg/LF	Initi, l W, ight/Volume:. 2 mLF
t, An, lyzFdM	10/20/2010 1231,		Fin, l W, ight/Volume:. 2 mLF
t, . pF dM	N/A,		

A, lyt,	S, mpl, . su lt/Qu. l,	su lt,		Limit,	Qu. l,
Sulfl t,	2M	2M2M	7I	30.	

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmericc
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Alan Pinnix	Site Contact: Alan Pinnix	Date: 10/8/10	COC No:
ARCADIS	Tel/Fax: 919-854-1282	Lab Contact: Kathy Smith	Carrier: Fed Ex	1 of 1 COCs
801 Corporate Center Drive, Suite 300	Analysis Turnaround Time			Job No.
Raleigh, NC 27607	Calendar (C) or Work Days (W)			
919-854-1282	TAT if different from Below			SDG No.
919-854-5448	■ 2 weeks			
Project Name: UNC Airport Road	☐ 1 week			
Site: Chapel Hill, NC	☐ 2 days			
P O # NC000239.0018.00006	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (METHOD 8260)	RCRA Metals (6010)	Iron (6010)	Sodium (6010)	Sulfate (9038)	Sample Specific Notes:
MW-1	10/8/10	1415	GW	GW			X	X	X	X	X	
MW-2		1630	GW	GW			X	X	X	X	X	
MW-3		1550	GW	GW			X	X	X	X	X	
MW-38		1345	GW	GW			X	X	X	X	X	
MW-39		1500	GW	GW			X	X	X	X	X	
~~MW-14~~ D2	~~X~~ D2		~~GW~~	~~GW~~			~~X~~	~~X~~	~~X~~	X	X	D2

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Temp
2.1

Relinquished by: Daniel Swanley	Company: ARCADIS	Date/Time: 10/8/10, 1700	Received by: Bertha Daughtry	Company: TA SAV	Date/Time: 10-9-10 C 1000
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

680-62026

Login Samcle ReTeT CheTk Listc

Client: ARCADIS U.S., Inc.M

Job Number: 680-62026-1M

Login Number: c 0T

List SourVe: cesteAmerVa Sa vannahc

Creator: Daughtcy, BeTnc

List Number: 1/

QuestioU	cF/1NAM	CommeT
RadioactivitMeitMr was not measuredMor, if measuredM is ahor below M backgroundc	rueM	
cooler 's custTody sTal, if presTnt, i s intact.M	rueM	
cooler or samplesMdo not appAar to MavCbeen com promisTd or M ampAeld witMM	rueM	
SamplesMwCre receivCd on ice.M	rueM	
Cooler Mm pAt ahure is acceptMable.M	rueM	
Cooler Mm pAt ahure is recordcd.M	rueM	
COC is presTnt.M	rueM	
COC is filleMout in ink and legMble.M	rueM	
COC is filleMout witMall pAtinent in formahon.M	rueM	
Is tM MieldSampler's name presTnt on C OC?1	N/Ay	
There are no discrepancies between the sample IDs on the containers and y the COC.y	Truey	
Samples are received within Holdingy Time.y	Truey	
Sample containers have leg.ble labels.y	Truey	
Containers are not broken or leakingy.y	Truey	
Sample collection date/times are provided.y	Truey	
Appropriate sample containers are used.y	Truey	
Sample bottles are completely filled.y	Truey	
Sample Preservation Verifiedy	N/Ay	
There is sufficient vol. for all requested analyses, incl. any requested y MS/MSDsy	Truey	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in y meter.y	Truey	
If necessary, staff have been informed of any short hold time or quick TAT y eedsy	Truey	
Multiphasic samples are not present.y	Truey	
Samples do not require splittingy or compositingy.y	Truey	

ANALYTICAL REPORT

Job Number: 680-62283-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
10/29/2010 4:43 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
10/29/2010

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

Job Narrativ/
680-62283-1e

Commen:
No additional comments. M

eceipt e
All samples were received in good condition wityn temperature requirements.y

GC/MS VOA
Metyod(s) 826y A full list spike was utilized for this method. The laboratory's SOP allo.s f or four analytes to recover outside criteria for / this method when a full list spike is utilized. The LCS/LCSD associated with batch 184244 had one analyte outside control limits; / therefore, re-extraction/re-analysis was not performed. These results have been repbrted and qualified./

Method(s) 8260B: A full list spike was utilized for this method. The laboratory's SOP allo.s f or 4 analytes to recover outside criteria for / this method when a full list spike is utilized. The LCS/LCSD associated with batch 184306 had 1 analytes outside control limits; therefore, / re-extraction/re-analysis was not performed. These results have been repbrted and qualified./

No other analytical or quality issues were noted./

Metals e
No analytical or quality issues were noted./

General Chemistry e
No analytical or quality issues were noted./

VOA Prep e
No analytical or quality issues were noted./

METHOD SUMMARY:

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatile Organic Compounds (GC/MS)	L SAV M	SWM4M8260B	
Purge and Trap	L SAV M		SWM4M5030BM
Metals (ICP)	L SAV M	SWM4M6010C	
Prep, parallel dig., Extractable Metals	L SAV M		SM 3030C)
Mercury (CVAA)	L SAV M	SWM4M7470A	
Prep, parallel dig., Mercury	L SAV M		SWM4M7470A
Sulfate, Turbidimetric)	L SAV M	SWM4M903U	

Lab References:

L SAV = . sMmerica SavaMah/

Method References:

SM = "Standard Methods For . h/ Exami/ and/o. Of WaM . d WasMwaM ",)

SWM4M= "/ sMMethods For Evaluating Solid WasM, Physical/Ch/mical Methods", . hi/d Edi/io., Nov/mber 1 9/ . d Its . UpdaMs.)

METHOD / ANALcST SUMMARM

Cl/ent: ARCADIS U.S., Inc.y JMd N umber: 680-62283-M

M: thodM	AnalystM	Analyst ID:
SW846 8260BI	Soy l/ , Eleiny	ESy
SW846 60M0Cy	Bl/ d, Briy	BCBI
SW846 7470Ay	V. squez, Ju/	JV.
SW846 9038M	RMss, JM	JRM

Se MPLe SUMMeR Y2

Cl/ent: ARCADIS U.S., Inc.y JM N umber: 680-62283-M

Lab Sa: ple lDe	Client Sa: ple lDe	Client Matrix2	Date/Time : Sa: pledb	Date/Time : ReVeivedb
680-62283-M	MW-M	Watery	0/b8/20M0 y3, 5l	0/b9/20M0 0934A
680-62283-2M	MW-2M	Watery	0/b8/20M0 y2M5l	0/b9/20M0 0934A
680-62283-3,	MW-3,	Watery	0/b8/20M0 y350M	0/b9/20M0 0934A
680-62283-4A	MW-38M	Watery	0/b8/20M0 y 5l	0/b9/20M0 0934A
680-62283-5l	MW-39I	Watery	0/b8/20M0 y 35l	0/b9/20M0 0934A
680-62283-6y	MW-M4A	Watery	0/b8/20M0 y045l	0/b9/20M0 0934A
680-62283-7TBU	Trip Bla. k	Watery	0/b8/20M0 0000M	0/b9/20M0 0934A

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-1T

Lab Sample ID:M 680-62283-M Date Sampled: y0/M8/20M0 y3, 5U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M 8260BM Anaalysis Batch: 680-M84306y Instrument ID:M MSO2M
PreparationyM 5030BM Lab FAle ID:M 0M8.dI
DilutionyM 50M Initiaal Weight/VAlume:M 5 mL0
Date Anaalyzed:M 0/27/20M0 y459S FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/27/20M0 y459S

Anaalytey	Result (ug/L)I	Qual/fiery	RL0
Acetoney	300M	UM	300M
Benzeney	720M		50M
Bromobenzeney	50M	UM	50M
Bromochl/romet habey	50M	UM	50M
Bromoformy	50M	UM	50M
Bromomethabey	50M	UM	50M
2-Butab e (MEK)I	500M	UM	500M
Carbon dIsulfidey	00M	UM	00M
Carbon tetrachl/riydey	50M	UM	50M
Chl/robenzeney	50M	UM	50M
Chl/roydIbromomethabey	50M	UM	50M
Chl/roet habey	50M	UM	50M
Chl/roformy	4900M		50M
Chl/romet habey	50M	U *y	50M
2-Chl/rotoylueney	50M	UM	50M
4-Chl/rotoylueney	50M	UM	50M
cisy-M,2-Dichl/roet heney	50M	UM	50M
cisy-M,3-Dichl/roypropeney	50M	UM	50M
,2-Dibromoy3-Chl/roypropabey	50M	UM	50M
,2-Dibromoethabey	50M	UM	50M
Dibromomethabey	50M	UM	50M
,3-Dichl/robenzeney	50M	UM	50M
,2-Dichl/robenzeney	50M	UM	50M
,4-Dichl/robenzeney	50M	UM	50M
Dichl/robromomet habey	50M	UM	50M
Dichl/roydIflu/romet habey	50M	UM	50M
,y-Dichl/roet habey	50M	UM	50M
,2-Dichl/roet habey	550M		50M
,y-Dichl/roet heney	50M	UM	50M
,2-Dichl/roet hene, Total/	00M	UM	00M
,2-Dichl/roypropabey	50M	UM	50M
2,2-Dichl/roypropabey	50M	UM	50M
,3-Dichl/roypropabey	50M	UM	50M
,y-Dichl/roypropeney	50M	UM	50M
Diethyl ethery	3900M		500M
Ethylbenzeney	50M	UM	50M
Hexachl/rob utadIeney	50M	UM	50M
2-Hexab ey	500M	UM	500M
IsMpropylbenzeney	50M	UM	50M
Methylene Chl/riydey	540M		250M
4-Methyl-2-pentab e (MIBK)I	500M	UM	500M
Methyl tert-butyl ethery	500M	UM	500M
m-Xylene & p-Xyleney	00M	UM	00M
Naphthaleney	250M	UM	250M
-Butylbenzeney	50M	UM	50M
N-Propylbenzeney	50M	UM	50M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-1T

Lab Sample ID:M 680-62283-M Date Sampled: y0/M8/20M0 y3, 5U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM d:M 8260BM Analysis Batch: 680-M84306y Instrument ID:M MSO2M
PreparationyM 5030BM Lab FAle ID:M 0M8.dI
DilutionyM 50M Initial Weight/VAlume:M 5 mL0
Date Analyzed:M 0/27/20M0 y459S FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/27/20M0 y459S

Analytey	Result (ug/L)I	Qual/fiery	RL0
-Xyleney	50M	UM	50M
p-IsMpropylytoluene	50M	UM	50M
sec-Butylbenzeney	50M	UM	50M
Styreney	50M	UM	50M
tert-Butylbenzeney	50M	UM	50M
,y,2,2-Tetrachl/roet habey	620M		50M
,y,y,2-Tetrachl/roet habey	50M	UM	50M
Tetrachl/roet heney	50M	UM	50M
Toluene	50M	UM	50M
trabs-M2-Dichl/roet heney	50M	UM	50M
trabs-M3-Dichl/roypropeney	50M	UM	50M
,2,4-Trichl/robenzeney	88M		50M
,2,3-Trichl/robenzeney	50M	UM	50M
,y,y-Trichl/roet habey	50M	UM	50M
,y,2-Trichl/roet habey	50M	UM	50M
Trichl/roet heney	50M		50M
Trichl/rof lu/romet habey	50M	UM	50M
,2,3-Trichl/roypropabey	50M	UM	50M
,2,4-Trimethylbenzeney	50M	UM	50M
,3,5-Trimethylbenzeney	50M	UM	50M
VAyl acetatey	00M	UM	00M
VAyl chl/riydey	50M	UM	50M
Xylenes, Total/	00M	UM	00M

Surrogatey	%Recy	Qual/fiery	Acceptabce L0mitsM
4-Bromoflu/robenzeney	00M		75 - y20M
Dibromoflu/romet habey	85U		75 - y2M
Toluene-d8 (Surr)I	09S		75 - y20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-2T

Lab Sample ID:M 680-62283-2M Date Sampled: y0/M8/20M0 y2M5U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M 8260BM Anaalysis Batch: 680-M84306y Instrument ID:M MSO2M
Preparationy:M 5030BM Lab FAle ID:M 0M4.dI
Dilutiony:M 200M Initiaal Weight/VAlume:M 5 mL0
Date Anaalyzed:M 0/27/20M0 y52M FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/27/20M0 y52M

Anaalytey	Result (ug/L)I	Qual/fiery	RL0
Acetoney	5000M	UM	5000M
Benzeney	7M00M		200M
Bromobenzeney	200M	UM	200M
Bromochl/romet habey	200M	UM	200M
Bromoformy	200M	UM	200M
Bromomethabey	200M	UM	200M
2-Butab e (MEK)I	2000M	UM	2000M
Carbon dIsulfidey	400M	UM	400M
Carbon tetrachl/riydey	200M	UM	200M
Chl/robenzeney	2M0M		200M
Chl/roydIbromomethabey	200M	UM	200M
Chl/roet habey	200M	UM	200M
Chl/roformy	920M		200M
Chl/romet habey	200M	U *y	200M
2-Chl/rotoylueney	200M	UM	200M
4-Chl/rotoylueney	200M	UM	200M
cisy-M,2-Dichl/roet heney	200M	UM	200M
cisy-M,3-Dichl/roypropeney	200M	UM	200M
,2-Dibromoy-3-Chl/roypropabey	200M	UM	200M
,2-Dibromoethabey	200M	UM	200M
Dibromomethabey	200M	UM	200M
,3-Dichl/robenzeney	200M	UM	200M
,2-Dichl/robenzeney	200M	UM	200M
,4-Dichl/robenzeney	200M	UM	200M
Dichl/robromomet habey	200M	UM	200M
Dichl/roydIflu/romet habey	200M	UM	200M
,y-Dichl/roet habey	200M	UM	200M
,2-Dichl/roet habey	600M		200M
,y-Dichl/roet heney	200M	UM	200M
,2-Dichl/roet hene, Total/	400M	UM	400M
,2-Dichl/roypropabey	200M	UM	200M
2,2-Dichl/roypropabey	200M	UM	200M
,3-Dichl/roypropabey	200M	UM	200M
,y-Dichl/roypropeney	200M	UM	200M
Diethyl ethery	3000M		2000M
Ethylbenzeney	370M		200M
Hexachl/rob utadIeney	200M	UM	200M
2-Hexab ey	2000M	UM	2000M
IsMpropylbenzeney	200M	UM	200M
Methylene Chl/riydey	000M		000M
4-Methyl-2-pentab e (MIBK)I	2000M	UM	2000M
Methyl tert-butyl ethery	2000M	UM	2000M
m-Xylene & p-Xyleney	400M	UM	400M
Naphthaleney	000M	UM	000M
-Butylbenzeney	200M	UM	200M
N-Propylbenzeney	200M	UM	200M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-2T

Lab Sample ID:M 680-62283-2M Date Sampled: y0/M8/20M0 y2M5U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M 8260BM Anaylsis Batch: 680-M84306y Instrument ID:M MSO2M
Preparationy:M 5030BM Lab FAle ID:M 0M4.dI
Dilutiony:M 200M Initiay Weight/VAlume:M 5 mL0
Date Anaylyzed:M 0/27/20M0 y52M FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/27/20M0 y52M

Anaylytey	Result (ug/L)I	Qual/fiery	RL0
-Xyleney	470M		200M
p-IsMpropyltoluey	200M	UM	200M
sec-Butylbenzeney	200M	UM	200M
Styreney	200M	UM	200M
tert-Butylbenzeney	200M	UM	200M
,y,2,2-Tetrachl/roet habey	200M	UM	200M
,y,y,2-Tetrachl/roet habey	200M	UM	200M
Tetrachl/roet heney	200M	UM	200M
Toluey	200M	UM	200M
trabs-M2-Dichl/roet heney	200M	UM	200M
trabs-M3-Dichl/roypropeney	200M	UM	200M
,2,4-Trichl/robenzeney	350M		200M
,2,3-Trichl/robenzeney	200M	UM	200M
,y,y-Trichl/roet habey	200M	UM	200M
,y,2-Trichl/roet habey	200M	UM	200M
Trichl/roet heney	620M		200M
Trichl/rof lu/romet habey	200M	UM	200M
,2,3-Trichl/roypropabey	200M	UM	200M
,2,4-Trimethylbenzeney	200M	UM	200M
,3,5-Trimethylbenzeney	200M	UM	200M
VAyl acetatey	400M	UM	400M
VAyl chl/riydey	200M	UM	200M
Xylenes, Total/	860M		400M

Surrogatey	%Recy	Qual/fiery	Acceptabce L0mitsM
4-Bromoflu/robenzeney	0M		75 - y20M
Dibromoflu/romet habey	85U		75 - y2M
Toluene-d8 (Surr)I	09S		75 - y20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-3e

Lab Sample ID:M 680-62283-3, Date Sampled: y0/M8/20M0 y350M
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M	8260BM	Anaysis Batch: 680-M84244U		Instrument ID:M	MSO2M
Preparationy:M	5030BM			Lab FAle ID:M	0994.dI
Dilutiony:M	.0M			Initiay Weight/VAlume:M	5 mL0
Date Anaysed:M	0/26/20M0 y7M2M			FAal Weight/VAlume:M	5 mL0
Date Prepared:M	0/26/20M0 y7M2M				

Anaytey	Result (ug/L)I	Qual/fiery	RL0
Acetoney	25U	UM	25U
Benzeney	.0M	UM	.0M
Bromobenzeney	.0M	UM	.0M
Bromochl/romet habey	.0M	UM	.0M
Bromoformy	.0M	UM	.0M
Bromomethabey	.0M	UM	.0M
2-Butab e (MEK)I	0M	UM	0M
Carbon dIsulfidey	2.0M	UM	2.0M
Carbon tetrachl/riydey	.0M	UM	.0M
Chl/robenzeney	.0M	UM	.0M
Chl/roydIbromomethabey	.0M	UM	.0M
Chl/roet habey	.0M	UM	.0M
Chl/roformy	.0M	UM	.0M
Chl/romet habey	.0M	U *y	.0M
2-Chl/rotoyueney	.0M	UM	.0M
4-Chl/rotoyueney	.0M	UM	.0M
cisy-M,2-Dichl/roet heney	.0M	UM	.0M
cisy-M,3-Dichl/roypropeney	.0M	UM	.0M
,2-Dibromoy-3-Chl/roypropabey	.0M	UM	.0M
,2-Dibromoethabey	.0M	UM	.0M
Dibromomethabey	.0M	UM	.0M
,3-Dichl/robenzeney	.0M	UM	.0M
,2-Dichl/robenzeney	.0M	UM	.0M
,4-Dichl/robenzeney	.0M	UM	.0M
Dichl/robromomet habey	.0M	UM	.0M
Dichl/roydIflu/romet habey	.0M	UM	.0M
,y-Dichl/roet habey	.0M	UM	.0M
,2-Dichl/roet habey	.0M	UM	.0M
,y-Dichl/roet heney	.0M	UM	.0M
,2-Dichl/roet hene, Total/	2.0M	UM	2.0M
,2-Dichloropropaney	.0M	UM	.0M
2,2-Dichl/roypropabey	.0M	UM	.0M
,3-Dichloropropaney	.0M	UM	.0M
,y-Dichl/roypropeney	.0M	UM	.0M
Diethyl ethery	0M	UM	0M
Ethylbenzeney	.0M	UM	.0M
Hexachl/rob utadIeney	.0M	UM	.0M
2-Hexa ney	0M	UM	0M
IsMpropylbenzeney	.0M	UM	.0M
Methylene Chl/riydey	5.0M	UM	5.0M
4-Methyl-2-pentab e (MIBK)I	0M	UM	0M
Methyl tert-butyl ethery	0M	UM	0M
m-Xylene & p-Xyleney	2.0M	UM	2.0M
Naphthaleney	5.0M	UM	5.0M
-Butylbenzeney	.0M	UM	.0M
N-Propylbenzeney	.0M	UM	.0M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-3e

Lab Sample ID:M 680-62283-3, Date Sampled: y0/M8/20M0 y350M
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M	8260BM	Anaylsis Batch: 680-M84244U		Instrument ID:M	MSO2M
Preparationy M	5030BM			Lab FAle ID:M	0994.dI
Dilutiony M	.0M			Initial Weight/VAlume:M	5 mL0
Date Anaylyzed:M	0/26/20M0 y7M2M			FAal Weight/VAlume:M	5 mL0
Date Prepared:M	0/26/20M0 y7M2M				

Anaylytey	Result (ug/L)I	Qual/fiery	RL0
-Xyleney	.0M	UM	.0M
p-IsMpropylytoluene	.0M	UM	.0M
sec-Butylbenzeney	.0M	UM	.0M
Styreney	.0M	UM	.0M
tert-Butylbenzeney	.0M	UM	.0M
,y,2,2-Tetrachl/roet habey	.0M	UM	.0M
,y,y,2-Tetrachl/roet habey	.0M	UM	.0M
Tetrachl/roet heney	.0M	UM	.0M
Toluene	.0M	UM	.0M
trabs-M2-Dichl/roet heney	.0M	UM	.0M
trabs-M3-Dichl/roypropeney	.0M	UM	.0M
,2,4-Trichl/robenzeney	.0M	UM	.0M
,2,3-Trichl/robenzeney	.0M	UM	.0M
,y,y-Trichl/roet habey	.0M	UM	.0M
,y,2-Trichl/roet habey	.0M	UM	.0M
Trichl/roet heney	.0M	UM	.0M
Trichl/rof lu/romet habey	.0M	UM	.0M
,2,3-Trichl/roypropabey	.0M	UM	.0M
,2,4-Trimethylbenzeney	.0M	UM	.0M
,3,5-Trimethylbenzeney	.0M	UM	.0M
VAyl acetatey	2.0M	UM	2.0M
VAyl chl/riydey	.0M	UM	.0M
Xylenes, Total/	2.0M	UM	2.0M

Surrogatey	%Recy	Qual/fiery	Acceptabce L0mitsM
4-Bromoflu/robenzeney	95U		75 - y20M
Dibromoflu/romet habey	87M		75 - y2M
Toluene-d8 (Surr)I	0M		75 - y20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-38T

Lab Sample ID:M 680-62283-4U Date Sampled: y0/M8/20M0 y 5U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M 8260BM Anaysis Batch: 680-M84244U Instrument ID:M MSO2M
Preparationy:M 5030BM Lab FAle ID:M 0996.dI
Dilutiony:M .0M Initiay Weight/VAlume:M 5 mL0
Date Anaysed:M 0/26/20M0 y74U FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/26/20M0 y74U

Anaytey	Result (ug/L)I	Qual/fiery	RL0
Acetoney	25U	UM	25U
Benzeney	.0M	UM	.0M
Bromobenzeney	.0M	UM	.0M
Bromochl/romet habey	.0M	UM	.0M
Bromoformy	.0M	UM	.0M
Bromomethabey	.0M	UM	.0M
2-Butab e (MEK)I	0M	UM	0M
Carbon dIsulfidey	2.0M	UM	2.0M
Carbon tetrachl/riydey	.0M	UM	.0M
Chl/robenzeney	.0M	UM	.0M
Chl/roydIbromomethabey	.0M	UM	.0M
Chl/roet habey	.0M	UM	.0M
Chl/roformy	.0M	UM	.0M
Chl/romet habey	.0M	U *y	.0M
2-Chl/rotoyIueney	.0M	UM	.0M
4-Chl/rotoyIueney	.0M	UM	.0M
cisy-M,2-Dichl/roet heney	.0M	UM	.0M
cisy-M,3-Dichl/roypropeney	.0M	UM	.0M
,2-Dibromoy-3-Chl/roypropabey	.0M	UM	.0M
,2-Dibromoethabey	.0M	UM	.0M
Dibromomethabey	.0M	UM	.0M
,3-Dichl/robenzeney	.0M	UM	.0M
,2-Dichl/robenzeney	.0M	UM	.0M
,4-Dichl/robenzeney	.0M	UM	.0M
Dichl/robromomet habey	.0M	UM	.0M
Dichl/roydIflu/romet habey	.0M	UM	.0M
,y-Dichl/roet habey	.0M	UM	.0M
,2-Dichl/roet habey	22M		.0M
,y-Dichl/roet heney	.0M	UM	.0M
,2-Dichl/roet hene, Total/	2.0M	UM	2.0M
,2-Dichloropropaney	.0M	UM	.0M
2,2-Dichl/roypropabey	.0M	UM	.0M
,3-Dichloropropaney	.0M	UM	.0M
,y-Dichl/roypropeney	.0M	UM	.0M
Diethyl ethery	491S		0M
Ethylbenzeney	.0M	UM	.0M
Hexachl/rob utadIeney	.0M	UM	.0M
2-Hexa ney	0M	UM	0M
IsMpropylbenzeney	.0M	UM	.0M
Methylene Chl/riydey	5.0M	UM	5.0M
4-Methyl-2-pentab e (MIBK)I	0M	UM	0M
Methyl tert-butyl ethery	0M	UM	0M
m-Xylene & p-Xyleney	2.0M	UM	2.0M
Naphthaleney	5.0M	UM	5.0M
-Butylbenzeney	.0M	UM	.0M
N-Propylbenzeney	.0M	UM	.0M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-38T

Lab Sample ID:M 680-62283-4U Date Sampled: y0/M8/20M0 y 5U
Cl/ent Matrix:M Watery Date Received: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M 8260BM Analysis Batch: 680-M84244U Instrument ID:M MSO2M
PreparationyM 5030BM Lab FAle ID:M 0996.dI
DilutionyM .0M Initial Weight/VAlume:M 5 mL0
Date AnalyzedyM:M 0/26/20M0 y74U FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/26/20M0 y74U

Analytey	Result (ug/L)I	Qual/fiery	RL0
-Xyleney	.0M	UM	.0M
p-IsMpropylytoluene	.0M	UM	.0M
sec-Butylbenzeney	.0M	UM	.0M
Styreney	.0M	UM	.0M
tert-Butylbenzeney	.0M	UM	.0M
,y,2,2-Tetrachl/roet habey	.0M	UM	.0M
,y,y,2-Tetrachl/roet habey	.0M	UM	.0M
Tetrachl/roet heney	.0M	UM	.0M
Toluene	.0M	UM	.0M
trabs-M2-Dichl/roet heney	.0M	UM	.0M
trabs-M3-Dichl/roypropeney	.0M	UM	.0M
,2,4-Trichl/robenzeney	.0M	UM	.0M
,2,3-Trichl/robenzeney	.0M	UM	.0M
,y,y-Trichl/roet habey	.0M	UM	.0M
,y,2-Trichl/roet habey	.0M	UM	.0M
Trichl/roet heney	.0M	UM	.0M
Trichl/rof lu/romet habey	.0M	UM	.0M
,2,3-Trichl/roypropabey	.0M	UM	.0M
,2,4-Trimethylbenzeney	.0M	UM	.0M
,3,5-Trimethylbenzeney	.0M	UM	.0M
VAyl acetatey	2.0M	UM	2.0M
VAyl chl/riydey	.0M	UM	.0M
Xylenes, Total/	2.0M	UM	2.0M

Surrogatey	%Recy	Qual/fiery	Acceptabce L0mitsM
4-Bromoflu/robenzeney	99S		75 - y20M
Dibromoflu/romet habey	86y		75 - y2M
Toluene-d8 (Surr)I			75 - y20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-39e

Lab Sample ID:M 680-62283-5U Date Sampled: y0/M8/20M0 y 35U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M	8260BM	AnaJysis Batch: 680-M84244U		Instrument ID:M	MSO2M
PreparationyM	5030BM			Lab FAle ID:M	0998.dI
DilutionyM	.0M			Initial Weight/VAlume:M	5 mL0
Date AnaJyzed:M	0/26/20M0 y8M0M			FAal Weight/VAlume:M	5 mL0
Date Prepared:M	0/26/20M0 y8M0M				

AnaJytey	Result (ug/L)I	Qual/fiery	RL0
Acetoney	25U	UM	25U
Benzeney	.0M	UM	.0M
Bromobenzeney	.0M	UM	.0M
Bromochl/romet habey	.0M	UM	.0M
Bromoformy	.0M	UM	.0M
Bromomethabey	.0M	UM	.0M
2-Butab e (MEK)I	0M	UM	0M
Carbon dIsulfidey	2.0M	UM	2.0M
Carbon tetrachl/riydey	.0M	UM	.0M
Chl/robenzeney	.0M	UM	.0M
Chl/roydIbromomethabey	.0M	UM	.0M
Chl/roet habey	.0M	UM	.0M
Chl/roformy	.0M	UM	.0M
Chl/romet habey	.0M	U *y	.0M
2-Chl/rotoyJueney	.0M	UM	.0M
4-Chl/rotoyJueney	.0M	UM	.0M
cisy-M,2-Dichl/roet heney	.0M	UM	.0M
cisy-M,3-Dichl/roypropeney	.0M	UM	.0M
,2-Dibromoy3-Chl/roypropabey	.0M	UM	.0M
,2-Dibromoethabey	.0M	UM	.0M
Dibromomethabey	.0M	UM	.0M
,3-Dichl/robenzeney	.0M	UM	.0M
,2-Dichl/robenzeney	.0M	UM	.0M
,4-Dichl/robenzeney	.0M	UM	.0M
Dichl/robromomet habey	.0M	UM	.0M
Dichl/roydIflu/romet habey	.0M	UM	.0M
,y-Dichl/roet habey	.0M	UM	.0M
,2-Dichl/roet habey	.0M	UM	.0M
,y-Dichl/roet heney	.0M	UM	.0M
,2-Dichl/roet hene, Total/	2.0M	UM	2.0M
,2-Dichloropropaney	.0M	UM	.0M
2,2-Dichl/roypropabey	.0M	UM	.0M
,3-Dichloropropaney	.0M	UM	.0M
,y-Dichl/roypropeney	.0M	UM	.0M
Diethyl ethery	0M	UM	0M
Ethylbenzeney	.0M	UM	.0M
Hexachl/rob utadIeney	.0M	UM	.0M
2-Hexa ney	0M	UM	0M
IsMpropylbenzeney	.0M	UM	.0M
Methylene Chl/riydey	5.0M	UM	5.0M
4-Methyl-2-pentab e (MIBK)I	0M	UM	0M
Methyl tert-butyl ethery	0M	UM	0M
m-Xylene & p-Xyleney	2.0M	UM	2.0M
Naphthaleney	5.0M	UM	5.0M
-Butylbenzeney	.0M	UM	.0M
N-Propylbenzeney	.0M	UM	.0M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-39e

Lab Sample ID:M 680-62283-5U Date Sampled: y0/M8/20M0 y 35U
Cl/ent Matrix:M Watery Date Received: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M 8260BM Analysis Batch: 680-M84244U Instrument ID:M MSO2M
Preparationy:M 5030BM Lab FAle ID:M 0998.dI
Dilutiony:M .0M Initial Weight/VAlume:M 5 mL0
Date Analyzed:M 0/26/20M0 y8M0M FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/26/20M0 y8M0M

Analytey	Result (ug/L)I	Qual/fiery	RL0
-Xyleney	.0M	UM	.0M
p-IsMpropylytoluene	.0M	UM	.0M
sec-Butylbenzeney	.0M	UM	.0M
Styreney	.0M	UM	.0M
tert-Butylbenzeney	.0M	UM	.0M
,y,2,2-Tetrachl/roet habey	.0M	UM	.0M
,y,y,2-Tetrachl/roet habey	.0M	UM	.0M
Tetrachl/roet heney	.0M	UM	.0M
Toluene	.0M	UM	.0M
trabs-M2-Dichl/roet heney	.0M	UM	.0M
trabs-M3-Dichl/roypropeney	.0M	UM	.0M
,2,4-Trichl/robenzeney	.0M	UM	.0M
,2,3-Trichl/robenzeney	.0M	UM	.0M
,y,y-Trichl/roet habey	.0M	UM	.0M
,y,2-Trichl/roet habey	.0M	UM	.0M
Trichl/roet heney	.0M	UM	.0M
Trichl/rof lu/romet habey	.0M	UM	.0M
,2,3-Trichl/roypropabey	.0M	UM	.0M
,2,4-Trimethylbenzeney	.0M	UM	.0M
,3,5-Trimethylbenzeney	.0M	UM	.0M
VAyl acetatey	2.0M	UM	2.0M
VAyl chl/riydey	.0M	UM	.0M
Xylenes, Total/	2.0M	UM	2.0M

Surrogatey	%Recy	Qual/fiery	Acceptabce L0mitsM
4-Bromoflu/robenzeney	97M		75 - y20M
Dibromoflu/romet habey	85U		75 - y2M
Toluene-d8 (Surr)I	2M		75 - y20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-14

Lab Sample ID:M 680-62283-6y Date Sampled: y0/M8/20M0 y045U
Cl/ent Matrix:M Watery Date Received: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M 8260BM Anaalysis Batch: 680-M84440M Instrument ID:M MSO2M
Preparationy:M 5030BM Lab FAle ID:M 027.dI
Dilutiony:M 20M Initiaal Weight/VAlume:M 5 mL0
Date Anaalyzed:M 0/28/20M0 y408M FAal Weight/VAlume:M 5 mL0
Date Prepared:M 0/28/20M0 y408M

Anaalytey	Result (ug/L)I	Qual/fiery	RL0
Acetoney	500M	UM	500M
Benzeney	38		2M0
Bromobenzeney	20M	UM	20M
Bromochl/romet habey	20M	UM	20M
Bromoformy	20M	UM	20M
Bromomethabey	20M	UM	20M
2-Butab e (MEK)I	200M	UM	200M
Carbon dIsulfidey	40M	UM	40M
Carbon tetrachl/riydey	20M	UM	20M
Chl/robenzeney	20M	UM	20M
Chl/roydIbromomethabey	20M	UM	20M
Chl/roet habey	20M	UM	20M
Chl/roformy	20M	UM	20M
Chl/romet habey	20M	UM	20M
2-Chl/rotoyIueney	20M	UM	20M
4-Chl/rotoyIueney	20M	UM	20M
cisy-M,2-Dichl/roet heney	20M	UM	20M
cisy-M,3-Dichl/roypropeney	20M	UM	20M
,2-Dibromoy-3-Chl/roypropabey	20M	UM	20M
,2-Dibromoethabey	20M	UM	20M
Dibromomethabey	20M	UM	20M
,3-Dichl/robenzeney	20M	UM	20M
,2-Dichl/robenzeney	20M	UM	20M
,4-Dichl/robenzeney	20M	UM	20M
Dichl/robromomet habey	20M	UM	20M
Dichl/roydIflu/romet habey	20M	UM	20M
,y-Dichl/roet habey	20M	UM	20M
,2-Dichl/roet habey	20M	UM	20M
,y-Dichl/roet heney	20M	UM	20M
,2-Dichl/roet hene, Total/	40M	UM	40M
,2-Dichl/roypropabey	20M	UM	20M
2,2-Dichl/roypropabey	20M	UM	20M
,3-Dichl/roypropabey	20M	UM	20M
,y-Dichl/roypropeney	20M	UM	20M
Diethyl ethery	770M		200M
Ethylbenzeney	20M	UM	20M
Hexachl/rob utadIeney	20M	UM	20M
2-Hexab ey	200M	UM	200M
IsMpropylbenzeney	20M	UM	20M
Methylene Chl/riydey	00M	UM	00M
4-Methyl-2-pentab e (MIBK)I	200M	UM	200M
Methyl tert-butyl ethery	200M	UM	200M
m-Xylene & p-Xyleney	40M	UM	40M
Naphthaleney	00M	UM	00M
-Butylbenzeney	20M	UM	20M
N-Propylbenzeney	20M	UM	20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-14

Lab Sample ID:M 680-62283-6y Date Sampled: y0/M8/20M0 y045U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M	8260BM	Anaylsis Batch: 680-M84440M		Instrument ID:M	MSO2M
Preparationy:M	5030BM			Lab FAle ID:M	027.dI
Dilutiony:M	20M			Initial Weight/VAlume:M	5 mL0
Date Anaylyzed:M	0/28/20M0 y408M			FAal Weight/VAlume:M	5 mL0
Date Prepared:M	0/28/20M0 y408M				

Anaylytey	Result (ug/L)I	Qual/fiery	RL0
-Xyleney	20M	UM	20M
p-IsMpropyltoluey	20M	UM	20M
sec-Butylbenzeney	20M	UM	20M
Styreney	20M	UM	20M
tert-Butylbenzeney	20M	UM	20M
,y,2,2-Tetrachl/roet habey	20M	UM	20M
,y,y,2-Tetrachl/roet habey	20M	UM	20M
Tetrachl/roet heney	20M	UM	20M
Toluey	20M	UM	20M
trabs-M2-Dichl/roet heney	20M	UM	20M
trabs-M3-Dichl/roypropeney	20M	UM	20M
,2,4-Trichl/robenzeney	20M	UM	20M
,2,3-Trichl/robenzeney	20M	UM	20M
,y,y-Trichl/roet habey	20M	UM	20M
,y,2-Trichl/roet habey	20M	UM	20M
Trichl/roet heney	20M	UM	20M
Trichl/rof lu/romet habey	20M	UM	20M
,2,3-Trichl/roypropabey	20M	UM	20M
,2,4-Trimethylbenzeney	20M	UM	20M
,3,5-Trimethylbenzeney	20M	UM	20M
VAyl acetatey	40M	UM	40M
VAyl chl/riydey	20M	UM	20M
Xylenes, Total/	40M	UM	40M

Surrogatey	%Recy	Qual/fiery	Acceptabce L0mitsM
4-Bromoflu/robenzeney	98M		75 - y20M
Dibromoflu/romet habey	86y		75 - y2M
Toluene-d8 (Surr)I	06y		75 - y20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T Trip Blanke

Lab Sample ID:M 680-62283-7TBM Date Sampled: y0/M8/20M0 0000M
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M	8260BM	Anaysis Batch: 680-M84440M		Instrument ID:M	MSO2M
Preparation:M	5030BM			Lab FAle ID:M	026.dI
Dilution:M	.0M			Initial Weight/VAlume:M	5 mL0
Date Anaylzed:M	0/28/20M0 y346y			FAal Weight/VAlume:M	5 mL0
Date Prepared:M	0/28/20M0 y346y				

Anaylte	Result (ug/L)I	Qual/fiery	RL0
Acetone	25U	UM	25U
Benzene	.0M	UM	.0M
Bromobenzene	.0M	UM	.0M
Bromochl/romet habe	.0M	UM	.0M
Bromoform	.0M	UM	.0M
Bromomethabe	.0M	UM	.0M
2-Butab e (MEK)I	0M	UM	0M
Carbon dIsulfide	2.0M	UM	2.0M
Carbon tetrachl/ride	.0M	UM	.0M
Chl/robenzene	.0M	UM	.0M
Chl/rodIbromomethabe	.0M	UM	.0M
Chl/roet habe	.0M	UM	.0M
Chl/roform	.0M	UM	.0M
Chl/romet habe	.0M	UM	.0M
2-Chl/rotoluene	.0M	UM	.0M
4-Chl/rotoluene	.0M	UM	.0M
cis-M,2-Dichl/roet hene	.0M	UM	.0M
cis-M,3-Dichl/ropropene	.0M	UM	.0M
,2-Dibromo-3-Chl/ropropabe	.0M	UM	.0M
,2-Dibromoethabe	.0M	UM	.0M
Dibromomethabe	.0M	UM	.0M
,3-Dichl/robenzene	.0M	UM	.0M
,2-Dichl/robenzene	.0M	UM	.0M
,4-Dichl/robenzene	.0M	UM	.0M
Dichl/robromomet habe	.0M	UM	.0M
Dichl/rodIflu/romet habe	.0M	UM	.0M
,y-Dichl/roet habe	.0M	UM	.0M
,2-Dichl/roet habe	.0M	UM	.0M
,y-Dichl/roet hene	.0M	UM	.0M
,2-Dichl/roet hene, Total/	2.0M	UM	2.0M
,2-Dichloropropane	.0M	UM	.0M
2,2-Dichl/ropropabe	.0M	UM	.0M
,3-Dichloropropane	.0M	UM	.0M
,y-Dichl/ropropene	.0M	UM	.0M
Diethyl ethe	0M	UM	0M
Ethylbenzene	.0M	UM	.0M
Hexachl/rob utadIene	.0M	UM	.0M
2-Hexa ne	0M	UM	0M
IsM propylbenzene	.0M	UM	.0M
Methylene Chl/ride	5.0M	UM	5.0M
4-Methyl-2-pentab e (MIBK)I	0M	UM	0M
Methyl tert-butyl ethe	0M	UM	0M
m-Xylene & p-Xylene	2.0M	UM	2.0M
Naphthalene	5.0M	UM	5.0M
-Butylbenzene	.0M	UM	.0M
N-Propylbenzene	.0M	UM	.0M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T **Trip Blanke**

Lab Sample ID:M 680-62283-7TBM Date Sampled: y0/M8/20M0 0000M
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

8260B Volatile Organic Compounds (GC/MS)e

MethM0d:M	8260BM	Anaylsis Batch: 680-M84440M		Instrument ID:M	MSO2M
Preparationy M	5030BM			Lab FAle ID:M	026.dI
Dilutiony M	.0M			Initial Weight/VAlume:M	5 mL0
Date Anaylyzed:M	0/28/20M0 y346y			FAal Weight/VAlume:M	5 mL0
Date Prepared:M	0/28/20M0 y346y				

Anaylytey	Result (ug/L)I	Qual/fiery	RL0
-Xyleney	.0M	UM	.0M
p-IsMpropyltoluene	.0M	UM	.0M
sec-Butylbenzeney	.0M	UM	.0M
Styreney	.0M	UM	.0M
tert-Butylbenzeney	.0M	UM	.0M
,y,2,2-Tetrachl/roet habey	.0M	UM	.0M
,y,y,2-Tetrachl/roet habey	.0M	UM	.0M
Tetrachl/roet heney	.0M	UM	.0M
Toluene	.0M	UM	.0M
trabs-M2-Dichl/roet heney	.0M	UM	.0M
trabs-M3-Dichl/roypropeney	.0M	UM	.0M
,2,4-Trichl/robenzeney	.0M	UM	.0M
,2,3-Trichl/robenzeney	.0M	UM	.0M
,y,y-Trichl/roet habey	.0M	UM	.0M
,y,2-Trichl/roet habey	.0M	UM	.0M
Trichl/roet heney	.0M	UM	.0M
Trichl/rof lu/romet habey	.0M	UM	.0M
,2,3-Trichl/roypropabey	.0M	UM	.0M
,2,4-Trimethylbenzeney	.0M	UM	.0M
,3,5-Trimethylbenzeney	.0M	UM	.0M
VAyl acetatey	2.0M	UM	2.0M
VAyl chl/riydey	.0M	UM	.0M
Xylenes, Total/	2.0M	UM	2.0M

Surrogatey	%Recy	Qual/fiery	Acceptabce L0mitsM
4-Bromoflu/robenzeney	96y		75 - y20M
Dibromoflu/romet habey	89S		75 - y2M
Toluene-d8 (Surr)I	0M		75 - y20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-1T

Lab Sample ID:M 680-62283-M Date Sampled: y0/M8/20M0 y3, 5U
Cl/ent Matrix:M Watery Date Received: y0/M9 /20M0 0934U

6010C Metals (ICP)e

MethM0d:M	60M0Cy	AyalysM Batch: 680-M84233,		InsMrument ID:M	VariaMbIC PM
PreparationyM	3030Cy	Prep Batch: 680-M83426y		Lab FAle ID:M	Ey02620M0.csvJ
DilMutionyM	.0M			InitiMl WeigMht/VAlume:M	50 mL0
Date AnMlyzed:M	0/26/20M0 y8M8,			FAal WeigMht/VAlume:M	50 mL0
Date Prepared:M	0/M9 /20M0 y6y8M				

AnMlytey	Result (ug/L)I	Qual/fiery	RL0
SilMvery	0M	UM	0M
Arsenicy	20M	UM	20M
BariMmy	50M	UM	50M
CadmiMmy	5.0M	UM	5.0M
ChromiMmy	0M	UM	0M
Irony	4700M		00M
LeadI	0M	UM	0M
SeleniMmy	20M	UM	20M

MethM0d:M	60M0Cy	AyalysM Batch: 680-M84233,		InsMrument ID:M	VariaMbIC PM
PreparationyM	3030Cy	Prep Batch: 680-M83426y		Lab FAle ID:M	Ey02620M0.csvJ
DilMutionyM	0M			InitiMl WeigMht/VAlume:M	50 mL0
Date AnMlyzed:M	0/26/20M0 y825U			FAal WeigMht/VAlume:M	50 mL0
Date Prepared:M	0/M9 /20M0 y6y8M				

AnMlytey	Result (ug/L)I	Qual/fiery	RL0
SodMlumy	3, 0000M		0000M

7470A Mercury (CVAA)e

MethM0d:M	7470Ay	AyalysM Batch: 680-M84540M		InsMrument ID:M	LEEMANy
PreparationyM	7470Ay	Prep Batch: 680-M840M7M		Lab FAle ID:M	by028M0b.chry
DilMutionyM	.0M			InitiMl WeigMht/VAlume:M	50 mL0
Date AnMlyzed:M	0/28/20M0 y3, 8M			FAal WeigMht/VAlume:M	50 mL0
Date Prepared:M	0/25/20M0 y537M				

AnMlytey	Result (ug/L)I	Qual/fiery	RL0
MercuryM	0.20M	UM	0.20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-2T

Lab Sample ID:M 680-62283-2M Date Sampled: y0/M8/20M0 y2M5U
Cl/ent Matrix:M Watery Date Received: y0/M9 /20M0 0934U

6010C Metals (ICP)e

MethM0d:M	60M0Cy	AyalysM Batch: 680-M84233,		InsMrument ID:M	VariabIC PM
PreparationyM	3030Cy	Prep Batch: 680-M83426y		Lab FAle ID:M	Ey02620M0.csvJ
DilMutionyM	.0M			InitiMl WeiMght/VAlume:M	50 mL0
Date AnMlyzed:M	0/26/20M0 y838M			FAal WeiMght/VAlume:M	50 mL0
Date Prepared:M	0/M9 /20M0 y6y8M				

AnMlytey	Result (ug/L)I	Qual/fiery	RL0
Silvery	0	UM	0M
Arsenicy	20M	UM	20M
Bariumy	50M	UM	50M
CadmiMumy	5.0M	UM	5.0M
Chromiumy	0M	UM	0M
Irony	8200M		00M
SodMlumy	65000M		000M
LeadI	0	UM	0M
Seleniumy	20M	UM	20M

7470A Mercury (CVAA)e

MethM0d:M	7470Ay	AyalysM Batch: 680-M84540M		InsMrument ID:M	LEEMANy
PreparationyM	7470Ay	Prep Batch: 680-M840M7M		Lab FAle ID:M	by028M0b.chry
DilMutionyM	.0M			InitiMl WeiMght/VAlume:M	50 mL0
Date AnMlyzed:M	0/28/20M0 y32M			FAal WeiMght/VAlume:M	50 mL0
Date Prepared:M	0/25/20M0 y537M				

AnMlytey	Result (ug/L)I	Qual/fiery	RL0
MercuryM	0.20M	UM	0.20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-3e

Lab Sample ID:M 680-62283-3, Date Sampled: y0/M8/20M0 y350M
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

6010C Metals (ICP)e

MethM0d:M	60M0Cy	AyalysM Batch: 680-M84233,		Instrument ID:M	VariabIC PM
PreparationyM	3030Cy	Prep Batch: 680-M83426y		Lab FAe ID:M	Ey02620M0.csvJ
DilyutionyM	.0M			Initial Weight/VAlume:M	50 mL0
Date AnyalyzedM	0/26/20M0 y854U			FAal Weight/VAlume:M	50 mL0
Date PreparedM	0/M9 /20M0 y6y8M				

Anyalytey	Result (ug/L)I	Qual/fiery	RL0
Silvery	0	UM	0M
Arsenicy	20M	UM	20M
Bariyumy	230M		50M
Cadmiyumy	5.0M	UM	5.0M
Chromiyumy	33,		0M
Irony	0		00M
Soydlumy	88000M		000M
LeadI	0	UM	0M
Seleniumy	20M	UM	20M

7470A Mercury (CVAA)e

MethM0d:M	7470Ay	AyalysM Batch: 680-M84540M		Instrument ID:M	LEEMANy
PreparationyM	7470Ay	Prep Batch: 680-M840M7M		Lab FAe ID:M	by028M0b.chry
DilyutionyM	.0M			Initial Weight/VAlume:M	50 mL0
Date AnyalyzedM	0/28/20M0 y324U			FAal Weight/VAlume:M	50 mL0
Date PreparedM	0/25/20M0 y537M				

Anyalytey	Result (ug/L)I	Qual/fiery	RL0
MercuryM	0.20M	UM	0.20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-38T

Lab Sample ID:M 680-62283-4U Date Sampled: y0/M8/20M0 y 5U
Cl/ent Matrix:M Watery Date Received: y0/M9 /20M0 0934U

6010C Metals (ICP)e

MethM0d:M	60M0Cy	AyalysM Batch: 680-M84233,		InsTrument ID:M	VariabIC PM
PreparationyM	3030Cy	Prep Batch: 680-M83426y		Lab FAe ID:M	Ey02620M0.csvJ
DilyutionyM	.0M			Initial Weight/VAlume:M	50 mL0
Date AnsalyzedM	0/26/20M0 y858M			FAal Weight/VAlume:M	50 mL0
Date Prepared:M	0/M9 /20M0 y6y8M				

Ansalytey	Result (ug/L)I	Qual/fiery	RL0
Silvery	0	UM	0M
Arsenicy	20M	UM	20M
Bariumy	50M	UM	50M
Cadmiyumy	5.0M	UM	5.0M
Chromiumy	0M	UM	0M
Iron	40M		00M
SodyIumy	43000M		000M
LeadI	0	UM	0M
Seleniumy	20M	UM	20M

7470A Mercury (CVAA)e

MethM0d:M	7470Ay	AyalysM Batch: 680-M84540M		InsTrument ID:M	LEEMANy
PreparationyM	7470Ay	Prep Batch: 680-M840M7M		Lab FAe ID:M	by028M0b.chry
DilyutionyM	.0M			Initial Weight/VAlume:M	50 mL0
Date AnsalyzedM	0/28/20M0 y327M			FAal Weight/VAlume:M	50 mL0
Date Prepared:M	0/25/20M0 y537M				

Ansalytey	Result (ug/L)I	Qual/fiery	RL0
MercuryM	0.20M	UM	0.20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-39e

Lab Sample ID:M 680-62283-5U Date Sampled: y0/M8/20M0 y 35U
Cl/ent Matrix:M Watery Date Receiyed: y0/M9 /20M0 0934U

6010C Metals (ICP)e

MethM0d:M	60M0Cy	AyalysM Batch: 680-M84233,		InsTrument ID:M	VariabIC PM
PreparationyM	3030Cy	Prep Batch: 680-M83426y		Lab FAle ID:M	Ey02620M0.csvJ
DilyutionyM	.0M			Initial Weight/VAlume:M	50 mL0
Date AnyalyzedM	0/26/20M0 y9 02M			FAal Weight/VAlume:M	50 mL0
Date PreparedM	0/M9 /20M0 y6y8M				

Anyalytey	Result (ug/L)I	Qual/fiery	RL0
Silvery	0	UM	0M
Arsenicy	20M	UM	20M
Bariumy	65U		50M
Cadmiyumy	5.0M	UM	5.0M
Chromiumy	0M	UM	0M
Irony	00	UM	00M
SoydumyM	2M000M		000M
LeadI	0	UM	0M
Seleniumy	20M	UM	20M

7470A Mercury (CVAA)e

MethM0d:M	7470Ay	AyalysM Batch: 680-M84540M		InsTrument ID:M	LEEMANy
PreparationyM	7470Ay	Prep Batch: 680-M840M7M		Lab FAle ID:M	by028M0b.chry
DilyutionyM	.0M			Initial Weight/VAlume:M	50 mL0
Date AnyalyzedM	0/28/20M0 y330M			FAal Weight/VAlume:M	50 mL0
Date PreparedM	0/25/20M0 y537M				

Anyalytey	Result (ug/L)I	Qual/fiery	RL0
MercuryM	0.20M	UM	0.20M

Cl/ent: ARCADIS U.S., Inc.y JM0 N umber: 680-62283-M

Client Sample ID:T MW-14

Lab Sample ID:M 680-62283-6y Date Sampled: y0/M8/20M0 y045U
Cl/ent Matrix:M Watery Date Received: y0/M9 /20M0 0934U

6010C Metals (ICP)e

MethM0d:M	60M0Cy	AyalysM Batch: 680-M84233,		InsMrument ID:M	VariabIC PM
PreparationyM	3030Cy	Prep Batch: 680-M83426y		Lab FAle ID:M	Ey02620M0.csvJ
DilMutionyM	.0M			InitiMl WeiMht/VAlume:M	50 mL0
Date AnMlyzed:M	0/26/20M0 y9 06y			FAal WeiMht/VAlume:M	50 mL0
Date Prepared:M	0/M9 /20M0 y6y8M				

AnMlytey	Result (ug/L)I	Qual/fiery	RL0
Silvery	0	UM	0M
Arsenicy	20M	UM	20M
Bariumy	50M	UM	50M
CadmiMumy	5.0M	UM	5.0M
Chromiumy	0M	UM	0M
Iron	50M		00M
SoMlumy	9 000M		000M
LeadI	0	UM	0M
Seleniumy	20M	UM	20M

7470A Mercury (CVAA)e

MethM0d:M	7470Ay	AyalysM Batch: 680-M84540M		InsMrument ID:M	LEEMANy
PreparationyM	7470Ay	Prep Batch: 680-M840M7M		Lab FAle ID:M	by028M0b.chry
DilMutionyM	.0M			InitiMl WeiMht/VAlume:M	50 mL0
Date AnMlyzed:M	0/28/20M0 y333,			FAal WeiMht/VAlume:M	50 mL0
Date Prepared:M	0/25/20M0 y538M				

AnMlytey	Result (ug/L)I	Qual/fiery	RL0
MercuryM	0.20M	UM	0.20M

General Chemistry

Client Sample ID: **MW-1**

Lab Sample ID: 680-62283-1 Date Sampled: 06/30/2010 0935
Client Matrix: Water Date Received: 07/01/2010 0934

Analyte	Result	Qual	Units	RL	Dil	Method
Sulfate	3,000		mg/L	100	200	9038

Analysis Batch: 680-84334 Date Analyzed: 07/27/2010 0945

General Chemistry

Client Sample ID: MW-2

Lab Sample ID: 680-62283-2
Client Matrix: Water

Date Sampled: 06/30/2010 1245
Date Received: 07/01/2010 0934

Analyte	Result	Qual	Units	RL	Dil	Method
Sulfate	270		mg/L	100	20	9038

Analysis Batch: 680-84334 Date Analyzed: 07/27/2010 1945

General Chemistry

Client Sample ID: **MW-3**

Lab Sample ID: 680-62283-3

Client Matrix: Water

Date Sampled: 06/18/2020 0350

Date Received: 06/19/2020 0934

Analyte	Result	Qual	Units	RL	Dil	Method
Sulfate	6		mg/L	25	5.0	9038

Analysis Batch: 680-84334 Date Analyzed: 06/27/2020 0946

General Chemistry

Client Sample ID: MW-38

Lab Sample ID: 680-62283-4
Client Matrix: Water

Date Sampled: 06/30/2020 0945
Date Received: 07/01/2020 0934

Analyte	Result	Qual	Units	RL	Dil Fac	Method
Sulfate	26		mg/L	5.0	1.0	9038

Analysis Batch: 680-84334 Date Analyzed: 07/02/2020 0944

General Chemistry

Client Sample ID: **MW-39e**

Lab Sample ID: 680-62283-5

Client Matrix: Water

Date Sampled: 06/18/2020 0735

Date Received: 06/19/2020 0934

Analyte	Result	Qual	Units	RL	Dil	Method
Sulfate	2		mg/L	5.0	1.0	9038

Analysis Batch: 680-634334 Date Analyzed: 06/27/2020 0911

General Chemistry

Client Sample ID: MW-14

Lab Sample ID: 680-62283-6

Client Matrix: Water

Date Sampled: 06/18/2020 0945

Date Received: 06/19/2020 0934

Analyte	Result	Qual	Units	RL	Dil	Method
Sulfate	2		mg/L	5.0	1.0	9038

Analysis Batch: 680-84334 Date Analyzed: 06/27/2020 0939

D T R PORT N e LIFa RSh

Cl/ent: ARCADIS U.S., Inc.y JM/d N umber: 680-62283-M

Lab Sectionp	u alifierM	Descriptionp
GC/RS VOAy		
	UM	Ind/Matey the a. alyte wa. a. alyzed f r b ut not detected.y
		LCS or LCSD exceedMthe controly/mity
etal/		
	UM	Ind/Matey the a. alyte wa. a. alyzed f r b ut not detected.y
	4.	S, y SD: The a. alyte preyent in the orig/v al yample iy 4 y timey greater tha. t he matrix ypFe concentrationy therefr re, y controly/mity are not appl/cable.y
General Chemiytryl		
	UM	Ind/Matey the a. alyte wa. a. alyzed f r b ut not detected.y

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod Bv nk - Bv ch: 680-1841441 **MeVhod: 8660Bv**
Prep6ru on: 5030Bv

Lab Sampl) ID) B 680-184244/18.
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1145B
ab P pab dI 10/2M2010 1145B

alysis Batch. 680-184244U
P p Batch: N/F
Unl)sb ug/LR

Ins$bume. ID) SO2M
Lab Fil) ID) oqy7F.dI
Inl)ial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
c o.	25	U)	25B
B zU	1.0	U)	1.0.
B.omobe. zU	1.0.	U)	1.0.
B.omochlorome.hab	1.0.	U)	1.0.
B.omoform.	1.0.	U)	1.0.
B.omome.hab	1.0.	U)	1.0.
2-Bu a o. (MEK)I	10.	U)	10.
Catbo. disulfidI	2.0.	U)	2.0.
Carbo. . achloridI	1.0.	U)	1.0.
Chlorobe. zU	1.0.	U)	1.0.
Chlorodibromome.hab	1.0.	U)	1.0.
Chloroe.hab	1.0.	U)	1.0.
Chloroform.	1.0.	U)	1.0.
Chlorome.hab	1.0.	U)	1.0.
2-Chloro.olue.	1.0.	U)	1.0.
4-Chloro.olue.	1.0.	U)	1.0.
cis-1,2-. ichloroe.h.	1.0.	U)	1.0.
cis-1,3-. ichlorop2opp2	1.0.	U)	1.0.
1,2-. ibromo-3-Chlorop2opab	1.0.	U)	1.0.
1,2-. ibromoe.hab	1.0.	U)	1.0.
ibromome.hab	1.0.	U)	1.0.
1,3-. ichlorobe. zU	1.0.	U)	1.0.
1,2-. ichlorobe. zU	1.0.	U)	1.0.
1,4-. ichlorobe. zU	1.0.	U)	1.0.
ichlorobromome.hab	1.0.	U)	1.0.
ichlorodifluorome.hab	1.0.	U)	1.0.
1,1-. ichloroe.hab	1.0.	U)	1.0.
1,2-. ichloroe.hab	1.0.	U)	1.0.
1,1-. ichloroe.h.	1.0.	U)	1.0.
1,2-. ichloroe.h. , To.al)	2.0.	U)	2.0.
1,2-. ichlorop2opab	1.0.	U)	1.0.
2,2-. ichlorop2opab	1.0.	U)	1.0.
1,3-. ichlorop2opab	1.0.	U)	1.0.
1,1-. ichlorop2opp2	1.0.	U)	1.0.
i hyl e h.	10.	U)	10.
E.hylbe. zU	1.0.	U)	1.0.
HI xachlorobu.adi/	1.0.	U)	1.0.
2-H xa o.	10.	U)	10.
Isop2opylbe. zU	1.0.	U)	1.0.
hyl) ChloridI	5.0.	U)	5.0.
4-. hyl-2-p2 abo. (MIBK)I	10.	U)	10.
hyl . -bu yl e.h.	10.	U)	10.
m-Xyl) & p-Xyl)	2.0.	U)	2.0.

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod Bv nk - Bv ch: 680-1841441 **MeVhod: 8660Bv**
Prep6ru on: 5030Bv

Lab Sampl) ID) B 680-184244/18.
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1145B
ab P pab dI 10/2M2010 1145B

alysis Batch. 680-184244U
P p Batch: N/F
Uni)/sb ug/LR

Ins)bume. ID) SO2M
Lab Fil) ID) oqy7F.dI
Ini)ial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
Naph.hal)	5.0.	U)	5.0.
-Bu.ylbe. zU	1.0.	U)	1.0.
N-P opylbe. zU	1.0.	U)	1.0.
o-Xyl)	1.0.	U)	1.0.
p-Isop2opylt)olue.	1.0.	U)	1.0.
sbc-Bu.ylbe. zU	1.0.	U)	1.0.
Sty)S	1.0.	U)	1.0.
-Bu.ylbe. zU	1.0.	U)	1.0.
1,1,2,2-Ty achloroe.hab	1.0.	U)	1.0.
1,1,1,2-Ty achloroe.hab	1.0.	U)	1.0.
Ty achloroe.h.	1.0.	U)	1.0.
Tolue.	1.0.	U)	1.0.
abs-1,2-. ichloroe.h.	1.0.	U)	1.0.
abs-1,3-. ichlorop2opp2	1.0.	U)	1.0.
1,2,4-Ty ichlorobe. zU	1.0.	U)	1.0.
1,2,3-Ty ichlorobe. zU	1.0.	U)	1.0.
1,1,1-Ty ichloroe.hab	1.0.	U)	1.0.
1,1,2-Ty ichloroe.hab	1.0.	U)	1.0.
Ty ichloroe.h.	1.0.	U)	1.0.
Ty ichlorofluorome.hab	1.0.	U)	1.0.
1,2,3-Ty ichlorop2opab	1.0.	U)	1.0.
1,2,4-Ty ime.hylbe. zU	1.0.	U)	1.0.
1,3,5-Ty ime.hylbe. zU	1.0.	U)	1.0.
Vi/ yl ac) ab	2.0.	U)	2.0.
Vi/ yl chloridI	1.0.	U)	1.0.
Xyl) s, To.al)	2.0.	U)	2.0.

Surrogab	% . c)	cc) p2abc) Limi/sb
4-B.omofluorobe. zU	9y	75 - 120.
ibromofluorome.hab	90.	75 - 121.
Tolue. - dI (Surr)I	111.	75 - 120.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-1841441 **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID) LCS 680-184244/15B alysis Babch. 680-184244U In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq470.dI
ilu.io. 1.0. Uny/sb ug/LR In/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/2M/2010 1019y Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/2M/2010 1019y

LCSD)Lab Sampl) ID) LCSD)680-184244/16. alysis Babch. 680-184244U In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq472.dI
ilu.io. 1.0. Uny/sb ug/LR In/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/2M/2010 1047F Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/2M/2010 1047F

	% . c.)						
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual)	LCSD)Qual)
c) o.	125B	12M	17 - 175B	2M	50.		
B. zU	107F	105B	77 - 119y	2M	30.		
B.omobe. zU	93U	94U	0 - 1 24U	1.	30.		
B.omochlorome.hab	108.	109y	10 - 150.	1.	30.		
B.omoform.	3U	4U	2 - 133U	1.	30.		
B.omome.hab	113U	131.	12 - 184U	15B	50.		
2-Bu.abo. (MEK)I	117F	109y	33 - 157F	7F	30.		
Catbo. disulfidI	94U	97F	55 - 131.	3U	30.		
Catbo. . achloridI	110.	111.	71 - 135B	1.	30.		
Chlorobe. zU	94U	95B	5 - 116.	0.	30.		
Chlorodibromome.hab	102M	102M	75 - 133U	0.	30.		
Chloroe.hab	108.	127F	40 - 165B	16.	50.		
Chloroform.	103U	101.	2 - 120.	1.	30.		
Chlorome.hab	151.	142M	4U- 1 42M		50.	*y	
2-Chloro.olue.	100.	101.	2 - 123U	1.	30.		
4-Chloro.olue.	105B	108.	3 - 122M	3U	30.		
cis-1,2-. ichloroe.h.	9y	97F	9 - 134U	1.	30.		
cis-1,3-. ichlorop2opp2	115B	114U	7F- 1 2M	1.	30.		
1,2-. ibromo-3-Chlorop2opab	105B	106.	49 - 140.	1.	30.		
1,2-. ibromoe.hab	109y	108.	0 - 1 21.	1.	30.		
ibromome.hab	114U	111.	7F- 11 9y	2M	30.		
1,3-. ichlorobe. zU	101.	102M	7F- 1 25B	1.	30.		
1,2-. ichlorobe. zU	104U	103U	79 - 124U	1.	30.		
1,4-. ichlorobe. zU	104U	104U	1 - 1 22M	0.	30.		
ichlorobromome.hab	115B	112M	7F- 1 27F	2M	30.		
ichlorodifluorome.hab	127F	135B	34 - 154U		30.		
1,1-. ichloroe.hab	97F	99y	74 - 127F	2M	30.		
1,2-. ichloroe.hab	122M	117F	- 1 32M	4U	30.		
1,1-. ichloroe.h.	113U	116.	2 - 141.	3U	30.		
1,2-. ichloroe.h. , To.al)	9y	9y	- 1 34U	2M	30.		
1,2-. ichlorop2opab	111.	111.	73 - 124U	0.	30.		
2,2-. ichlorop2opab	110.	109y	55 - 157F	0.	30.		
1,3-. ichlorop2opab	112M	111.	75 - 120.	1.	30.		

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-1841441 **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID) LCS 680-184244/15B alysis Babch. 680-184244U In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq470.dI
ilu.io. 1.0. Uny/sb ug/LR Inj/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/2M/2010 1019y Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/2M/2010 1019y

LCSD)Lab Sampl) ID) LCSD)680-184244/16. alysis Babch. 680-184244U In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq472.dI
ilu.io. 1.0. Uny/sb ug/LR Inj/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/2M/2010 1047F Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/2M/2010 1047F

	% . c.)						
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual)	LCSD)Qual)
1,1-. ichlorop2opp2	118.	118.	77 - 122M	0.	30.		
E.hylbe. zU	103U	105B	- 116.	2M	30.		
HI xachlorobu.adi/	99y	9y	2 - 142M	1.	30.		
2-HI xabo.	155B	14U	34 - 161.		30.		
Isop2opylbe. zU	92M	94U	2 - 121.	2M	30.		
hyl) Chloridl	97F	9y	70 - 125B	1.	30.		
4-. hyl-2-p2 abo. (MIBK)I	12M	120.	40 - 151.	5B	30.		
hyl . -bu.yl e.h.	90.	9y	77 - 121.	1.	30.		
m-Xyl) & p-Xyl)	102M	104U	3 - 118.	1.	30.		
Naph.hal)	99y	103U	4U- 1 35B	4U	30.		
-Bu.ylbe. zU	108.	108.	4 - 13U	0.	30.		
N-P opylbe. zU	110.	112M	0 - 1 2M	2M	30.		
o-Xyl)	102M	104U	3 - 119y	1.	30.		
p-Isop2opylt)plue.	103U	104U	3 - 139y	1.	30.		
sbc-Bu.ylbe. zU	109y	112M	77 - 12M	3U	30.		
StyS	5B	5B	2 - 122M	1.	30.		
-Bu.ylbe. zU	111.	113U	0 - 1 24U	2M	30.		
1,1,2,2-Ty achloroe.hab	106.	104U	9 - 129y	1.	30.		
1,1,1,2-Ty achloroe.hab	9y	99y	1 - 1 2M	1.	30.		
Ty achloroe.h.	90.	91.	7F- 1 2M	2M	30.		
Tolue.	106.	104U	1 - 11 7F	2M	30.		
abs-1,2-. ichloroe.h.	97F	99y	72 - 131.	2M	30.		
abs-1,3-. ichlorop2opp2	121.	117F	73 - 12M	4U	30.		
1,2,4-Tyichlorobe. zU	102M	101.	0 - 1 35B	1.	30.		
1,2,3-Tyichlorobe. zU	112M	113U	0 - 1 32M	1.	30.		
1,1,1-Tyichloroe.hab	112M	111.	7F- 1 27F	1.	30.		
1,1,2-Tyichloroe.hab	112M	107F	75 - 121.	5B	30.		
Tyichloroe.h.	102M	102M	4 - 115B	0.	30.		
Tyichlorofluorome.hab	117F	120.	5B- 1 49y	3U	50.		
1,2,3-Tyichlorop2opab	105B	104U	70 - 130.	0.	30.		
1,2,4-Tyime.hylbe. zU	115B	114U	72 - 132M	1.	30.		
1,3,5-Tyime.hylbe. zU	111.	113U	72 - 133U	2M	30.		
Vi/ yl ac) ab	105B	101.	10 - 217F	4U	30.		

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-1841441 **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID)	LCS 680-184244/15B	alysis Babch. 680-184244U	In$bume. ID) SO2M
Cli/ . abixM	Wab	P p Babch. N/F	Lab Fil) ID) oq470.dI
ilu.io.	1.0.	Uny/sb ug/LR	In/ial WMgh./Volume:. 5 mLR
ab . alyzUdI	10/2M/2010 1019y		Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI	10/2M/2010 1019y		

LCSD)Lab Sampl) ID)	LCSD)680-184244/16.	alysis Babch. 680-184244U	In$bume. ID) SO2M
Cli/ . abixM	Wab	P p Babch. N/F	Lab Fil) ID) oq472.dI
ilu.io.	1.0.	Uny/sb ug/LR	In/ial WMgh./Volume:. 5 mLR
ab . alyzUdI	10/2M/2010 1047F		Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI	10/2M/2010 1047F		

	% . c.)					
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual) LCSD)Qual)
Vi/ yl chloridI	103U	109y	59 - 144U		50.	
Xyl) s, To.al)	102M	104U	4 - 118.	1.	30.	

Surrogab	LCS % . c)	LCSD)% . c)	cc) p2abc) Limi/sb
4-B.omofluorobe. zU e	102M	101.	75 - 120.
ibromofluorome.hab	92M	95B	75 - 121.
Tolue. - dI (Surr)I	105B	103U	75 - 120.

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod Bv nk - Bv ch: 680-184306T **MeVhod: 8660Bv**
Prep6ru on: 5030Bv

Lab Sampl) ID) B 680-184306/F
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/27/2010 1143U
ab P pab dI 10/27/2010 1143U

alysis Batch. 680-184306.
P p Batch. N/F
Unl)sb ug/LR

Ins$bume. ID) SO2M
Lab Fil) ID) oqy .dI
Inl)ial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
c o.	25	U)	25B
B zU	1.0	U)	1.0.
B.omobe. zU	1.0.	U)	1.0.
B.omochlorome.hab	1.0.	U)	1.0.
B.omoform.	1.0.	U)	1.0.
B.omome.hab	1.0.	U)	1.0.
2-Bu a o. (MEK)I	10.	U)	10.
Catbo. disulfidI	2.0.	U)	2.0.
Carbo. . achloridI	1.0.	U)	1.0.
Chlorobe. zU	1.0.	U)	1.0.
Chlorodibromome.hab	1.0.	U)	1.0.
Chloroe.hab	1.0.	U)	1.0.
Chloroform.	1.0.	U)	1.0.
Chlorome.hab	1.0.	U)	1.0.
2-Chloro.olue.	1.0.	U)	1.0.
4-Chloro.olue.	1.0.	U)	1.0.
cis-1,2-. ichloroe.h.	1.0.	U)	1.0.
cis-1,3-. ichlorop2opp2	1.0.	U)	1.0.
1,2-. ibromo-3-Chlorop2opab	1.0.	U)	1.0.
1,2-. ibromoe.hab	1.0.	U)	1.0.
ibromome.hab	1.0.	U)	1.0.
1,3-. ichlorobe. zU	1.0.	U)	1.0.
1,2-. ichlorobe. zU	1.0.	U)	1.0.
1,4-. ichlorobe. zU	1.0.	U)	1.0.
ichlorobromome.hab	1.0.	U)	1.0.
ichlorodifluorome.hab	1.0.	U)	1.0.
1,1-. ichloroe.hab	1.0.	U)	1.0.
1,2-. ichloroe.hab	1.0.	U)	1.0.
1,1-. ichloroe.h.	1.0.	U)	1.0.
1,2-. ichloroe.h. , To.al)	2.0.	U)	2.0.
1,2-. ichlorop2opab	1.0.	U)	1.0.
2,2-. ichlorop2opab	1.0.	U)	1.0.
1,3-. ichlorop2opab	1.0.	U)	1.0.
1,1-. ichlorop2opp2	1.0.	U)	1.0.
i hyl e h.	10.	U)	10.
E.hylbe. zU	1.0.	U)	1.0.
HI xachlorobu.adi/	1.0.	U)	1.0.
2-H xa o.	10.	U)	10.
Isop2opylbe. zU	1.0.	U)	1.0.
hyl) ChloridI	5.0.	U)	5.0.
4-. hyl-2-p2 abo. (MIBK)I	10.	U)	10.
hyl . -bu yl e.h.	10.	U)	10.
m-Xyl) & p-Xyl)	2.0.	U)	2.0.

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod Bv nk - Bv ch: 680-184306T **MeVhod: 8660Bv**
Prep6ru on: 5030Bv

Lab Sampl) ID) B 680-184306/F
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/27/2010 1143U
ab P pab dI 10/27/2010 1143U

alysis Batch. 680-184306.
P p Batch. N/F
Uni)/sb ug/LR

Ins$bume. ID) SO2M
Lab Fil) ID) oqy .dI
Ini)ial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
Naph.hal)	5.0.	U)	5.0.
-Bu.ylbe. zU	1.0.	U)	1.0.
N-P opylbe. zU	1.0.	U)	1.0.
o-Xyl)	1.0.	U)	1.0.
p-Isop2opylto)lue.	1.0.	U)	1.0.
sbc-Bu.ylbe. zU	1.0.	U)	1.0.
Sty)S	1.0.	U)	1.0.
-Bu.ylbe. zU	1.0.	U)	1.0.
1,1,2,2-Ty achloroe.hab	1.0.	U)	1.0.
1,1,1,2-Ty achloroe.hab	1.0.	U)	1.0.
Ty achloroe.h.	1.0.	U)	1.0.
Tolue.	1.0.	U)	1.0.
abs-1,2-. ichloroe.h.	1.0.	U)	1.0.
abs-1,3-. ichlorop2opp2	1.0.	U)	1.0.
1,2,4-Tyichlorobe. zU	1.0.	U)	1.0.
1,2,3-Tyichlorobe. zU	1.0.	U)	1.0.
1,1,1-Tyichloroe.hab	1.0.	U)	1.0.
1,1,2-Tyichloroe.hab	1.0.	U)	1.0.
Tyichloroe.h.	1.0.	U)	1.0.
Tyichlorofluorome.hab	1.0.	U)	1.0.
1,2,3-Tyichlorop2opab	1.0.	U)	1.0.
1,2,4-Tyime.hylbe. zU	1.0.	U)	1.0.
1,3,5-Tyime.hylbe. zU	1.0.	U)	1.0.
Vi/ yl ac) ab	2.0.	U)	2.0.
Vi/ yl chloridI	1.0.	U)	1.0.
Xyl) s, To.al)	2.0.	U)	2.0.

Surrogab	% . c)	cc) p2abc) Limi/sb
4-B.omofluorobe. zU	97F	75 - 120.
ibromofluorome.hab	90.	75 - 121.
Toluе. - dI (Surr)I	108.	75 - 120.

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-184306T **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID) LCS 680-184306/5B alysis Babch. 680-184306. In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq4U2.dI
ilu.io. 1.0. Uny/sb ug/LR Inj/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/27/2010 1018. Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/27/2010 1018.

LCSD)Lab Sampl) ID) LCSD)680-184306/F alysis Babch. 680-184306. In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq4U4.dI
ilu.io. 1.0. Uny/sb ug/LR Inj/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/27/2010 104U Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/27/2010 104U

	% . c.)						
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual)	LCSD)Qual)
c) o.	110.	115B	17 - 175B	4U	50.		
B. zU	109y	107F	77 - 119y	2M	30.		
B.omobe. zU	95B	9y	0 - 1 24U	1.	30.		
B.omochlorome.hab	106.	107F	10 - 150.	2M	30.		
B.omoform.	77F	1.	2 - 133U	5B	30.		
B.omome.hab	106.	119y	12 - 184U	12M	50.		
2-Bu.abo. (MEK)I	104U	105B	33 - 157F	1.	30.		
Cabbo. disulfidI	103U	105B	55 - 131.	1.	30.		
Cabbo. . achloridI	114U	112M	71 - 135B	1.	30.		
Chlorobe. zU	93U	9y	5 - 116.	2M	30.		
Chlorodibromome.hab	9y	103U	75 - 133U		30.		
Chloroe.hab	124U	119y	40 - 165B	4U	50.		
Chloroform.	101.	100.	2 - 120.	2M	30.		
Chlorome.hab	151.	151.	4U- 1 42M	0.	50.	*y	*y
2-Chloro.olue.	102M	105B	2 - 123U	3U	30.		
4-Chloro.olue.	105B	104U	3 - 122M	1.	30.		
cis-1,2-. ichloroe.h.	101.	9y	9 - 134U	3U	30.		
cis-1,3-. ichlorop2opp2	115B	116.	7F- 1 2M	0.	30.		
1,2-. ibromo-3-Chlorop2opab	9y	105B	49 - 140.	9y	30.		
1,2-. ibromoe.hab	102M	105B	0 - 1 21.	3U	30.		
ibromome.hab	108.	110.	7F- 11 9y	1.	30.		
1,3-. ichlorobe. zU	100.	102M	7F- 1 25B	2M	30.		
1,2-. ichlorobe. zU	102M	104U	79 - 124U	2M	30.		
1,4-. ichlorobe. zU	103U	104U	1 - 1 22M	1.	30.		
ichlorobromome.hab	112M	113U	7F- 1 27F	1.	30.		
ichlorodifluorome.hab	131.	13U	34 - 154U	3U	30.		
1,1-. ichloroe.hab	101.	99y	74 - 127F	2M	30.		
1,2-. ichloroe.hab	116.	115B	- 1 32M	1.	30.		
1,1-. ichloroe.h.	103U	103U	2 - 141.	0.	30.		
1,2-. ichloroe.h. , To.al)	101.	9y	- 1 34U	3U	30.		
1,2-. ichlorop2opab	110.	109y	73 - 124U	1.	30.		
2,2-. ichlorop2opab	118.	114U	55 - 157F	4U	30.		
1,3-. ichlorop2opab	106.	108.	75 - 120.	2M	30.		

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-184306T **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID) LCS 680-184306/5B alysis Babch. 680-184306. In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq4U2.dI
ilu.io. 1.0. Uny/sb ug/LR Iny/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/27/2010 1018. Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/27/2010 1018.

LCSD)Lab Sampl) ID) LCSD)680-184306/F alysis Babch. 680-184306. In$bume. ID) SO2M
Cli/ . abixM Wab P p Babch. N/F Lab Fil) ID) oq4U4.dI
ilu.io. 1.0. Uny/sb ug/LR Iny/ial WMgh./Volume:. 5 mLR
ab . alyzUdI 10/27/2010 104U Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI 10/27/2010 104U

	% . c.)						
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual)	LCSD)Qual)
1,1-. ichlorop2opp2	119y	116.	77 - 122M	2M	30.		
E.hylbe. zU	104U	105B	- 116.	0.	30.		
HI xachlorobu.adi/	106.	105B	2 - 142M	1.	30.		
2-HI xabo.	114U	120.	34 - 161.	5B	30.		
Isop2opylbe. zU	918.	92M	2 - 121.	1.	30.		
hyl) Chloridl	100.	97F	70 - 125B	3U	30.		
4-. hyl-2-p2 abo. (MIBK)I	118.	121.	40 - 151.	3U	30.		
hyl . -bu.yl e.h.	101.	99y	77 - 121.	2M	30.		
m-Xyl) & p-Xyl)	102M	102M	3 - 118.	0.	30.		
Naph.hal)	94U	103U	4U- 1 35B		30.		
-Bu.ylbe. zU	113U	112M	4 - 13U	1.	30.		
N-P opylbe. zU	109y	111.	0 - 1 2M	2M	30.		
o-Xyl)	102M	103U	3 - 119y	0.	30.		
p-Isop2opylto)lue.	105B	106.	3 - 139y	1.	30.		
sbc-Bu.ylbe. zU	114U	115B	77 - 12M	1.	30.		
StyS	5B		2 - 122M	3U	30.		
-Bu.ylbe. zU	110.	112M	0 - 1 24U	2M	30.		
1,1,2,2-Ty achloroe.hab	100.	102M	9 - 129y	3U	30.		
1,1,1,2-Ty achloroe.hab	95B	9y	1 - 1 2M	3U	30.		
Ty achloroe.h.	90.	92M	7F- 1 2M	3U	30.		
Tolue.	109y	106.	1 - 11 7F	2M	30.		
abs-1,2-. ichloroe.h.	101.	97F	72 - 131.	4U	30.		
abs-1,3-. ichlorop2opp2	116.	117F	73 - 12M	0.	30.		
1,2,4-Tyichlorobe. zU	99y	102M	0 - 1 35B	3U	30.		
1,2,3-Tyichlorobe. zU	106.	112M	0 - 1 32M		30.		
1,1,1-Tyichloroe.hab	115B	111.	7F- 1 27F	4U	30.		
1,1,2-Tyichloroe.hab	104U	107F	75 - 121.	3U	30.		
Tyichloroe.h.	9y	102M	4 - 115B	4U	30.		
Tyichlorofluorome.hab	120.	121.	5B- 1 49y	1.	50.		
1,2,3-Tyichlorop2opab	97F	106.	70 - 130.	9y	30.		
1,2,4-Tyime.hylbe. zU	112M	113U	72 - 132M	1.	30.		
1,3,5-Tyime.hylbe. zU	113U	112M	72 - 133U	0.	30.		
Vi/ yl ac) ab	122M	120.	10 - 217F	2M	30.		

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-184306T **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID)	LCS 680-184306/5B	alysis Babch. 680-184306.	In$bume. ID) SO2M
Cli/ . abixM	Wab	P p Babch. N/F	Lab Fil) ID) oq4U2.dI
ilu.io.	1.0.	Uny/sb ug/LR	Iny/ial WMgh./Volume:. 5 mLR
ab . alyzUdI	10/27/2010 1018.		Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI	10/27/2010 1018.		

LCSD)Lab Sampl) ID)	LCSD)680-184306/F	alysis Babch. 680-184306.	In$bume. ID) SO2M
Cli/ . abixM	Wab	P p Babch. N/F	Lab Fil) ID) oq4U4.dI
ilu.io.	1.0.	Uny/sb ug/LR	Iny/ial WMgh./Volume:. 5 mLR
ab . alyzUdI	10/27/2010 104U		Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI	10/27/2010 104U		

alyS	% . c.) LCS)	LCSD)	Limi/	P	P	Limi/	LCS Qual)	LCSD)Qual)
Vi/ yl chloridI	121.	123U	59 - 144U	2M	50.			
Xyl) s, To.al)	102M	103U	4 - 118.	0.	30.			

Surrogab	LCS % . c)	LCSD)% . c)	cc) p2abc) Limi/sb
4-B.omofluorobe. zU e	102M	104U	75 - 120.
ibromofluorome.hab	9y	97F	75 - 121.
Tolue. - dI (Surr)I	107F	105B	75 - 120.

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod Bv nk - Bv ch: 680-1844406 **MeVhod: 8660Bv**
Prep6ru on: 5030Bv

Lab Sampl) ID) B 680-184440/9y
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1323U
ab P pab dI 10/2M2010 1323U

alysis Batch. 680-184440.
P p Batch. N/F
Unl/sb ug/LR

Ins$bume. ID) SO2M
Lab Fil) ID) oqy97.dI
Inl/ial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
c o.	25	U)	25B
B zU	1.0	U)	1.0.
B.omobe. zU	1.0.	U)	1.0.
B.omochlorome.hab	1.0.	U)	1.0.
B.omoform.	1.0.	U)	1.0.
B.omome.hab	1.0.	U)	1.0.
2-Bu a o. (MEK)I	10.	U)	10.
Catbo. disulfidI	2.0.	U)	2.0.
Carbo. . achloridI	1.0.	U)	1.0.
Chlorobe. zU	1.0.	U)	1.0.
Chlorodibromome.hab	1.0.	U)	1.0.
Chloroe.hab	1.0.	U)	1.0.
Chloroform.	1.0.	U)	1.0.
Chlorome.hab	1.0.	U)	1.0.
2-Chloro.olue.	1.0.	U)	1.0.
4-Chloro.olue.	1.0.	U)	1.0.
cis-1,2-. ichloroe.h.	1.0.	U)	1.0.
cis-1,3-. ichlorop2opp2	1.0.	U)	1.0.
1,2-. ibromo-3-Chlorop2opab	1.0.	U)	1.0.
1,2-. ibromoe.hab	1.0.	U)	1.0.
ibromome.hab	1.0.	U)	1.0.
1,3-. ichlorobe. zU	1.0.	U)	1.0.
1,2-. ichlorobe. zU	1.0.	U)	1.0.
1,4-. ichlorobe. zU	1.0.	U)	1.0.
ichlorobromome.hab	1.0.	U)	1.0.
ichlorodifluorome.hab	1.0.	U)	1.0.
1,1-. ichloroe.hab	1.0.	U)	1.0.
1,2-. ichloroe.hab	1.0.	U)	1.0.
1,1-. ichloroe.h.	1.0.	U)	1.0.
1,2-. ichloroe.h. , To.al)	2.0.	U)	2.0.
1,2-. ichlorop2opab	1.0.	U)	1.0.
2,2-. ichlorop2opab	1.0.	U)	1.0.
1,3-. ichlorop2opab	1.0.	U)	1.0.
1,1-. ichlorop2opp2	1.0.	U)	1.0.
i hyl e h.	10.	U)	10.
E.hylbe. zU	1.0.	U)	1.0.
HI xachlorobu.adi/	1.0.	U)	1.0.
2-H xa o.	10.	U)	10.
Isop2opylbe. zU	1.0.	U)	1.0.
hyl) ChloridI	5.0.	U)	5.0.
4-. hyl-2-p2 abo. (MIBK)I	10.	U)	10.
hyl . -bu yl e.h.	10.	U)	10.
m-Xyl) & p-Xyl)	2.0.	U)	2.0.

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod Bv nk - Bv ch: 680-1844406 **MeVhod: 8660Bv**
Prep6ru on: 5030Bv

Lab Sampl) ID) B 680-184440/9y
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1323U
ab P pab dI 10/2M2010 1323U

alysis Batch. 680-184440.
P p Batch. N/F
Uni)/sb ug/LR

Ins$bume. ID) SO2M
Lab Fil) ID) oqy97.dI
Ini)ial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

alyS	sult)	QualR)	LR
Naph.hal)	5.0.	U)	5.0.
-Bu.ylbe. zU	1.0.	U)	1.0.
N-P opylbe. zU	1.0.	U)	1.0.
o-Xyl)	1.0.	U)	1.0.
p-Isop2opylt)olue.	1.0.	U)	1.0.
sbc-Bu.ylbe. zU	1.0.	U)	1.0.
Sty)S	1.0.	U)	1.0.
-Bu.ylbe. zU	1.0.	U)	1.0.
1,1,2,2-Ty achloroe.hab	1.0.	U)	1.0.
1,1,1,2-Ty achloroe.hab	1.0.	U)	1.0.
Ty achloroe.h.	1.0.	U)	1.0.
Tolue.	1.0.	U)	1.0.
abs-1,2-. ichloroe.h.	1.0.	U)	1.0.
abs-1,3-. ichlorop2opp2	1.0.	U)	1.0.
1,2,4-Tyichlorobe. zU	1.0.	U)	1.0.
1,2,3-Tyichlorobe. zU	1.0.	U)	1.0.
1,1,1-Tyichloroe.hab	1.0.	U)	1.0.
1,1,2-Tyichloroe.hab	1.0.	U)	1.0.
Tyichloroe.h.	1.0.	U)	1.0.
Tyichlorofluorome.hab	1.0.	U)	1.0.
1,2,3-Tyichlorop2opab	1.0.	U)	1.0.
1,2,4-Tyime.hylbe. zU	1.0.	U)	1.0.
1,3,5-Tyime.hylbe. zU	1.0.	U)	1.0.
Vi/ yl ac) ab	2.0.	U)	2.0.
Vi/ yl chloridI	1.0.	U)	1.0.
Xyl) s, To.al)	2.0.	U)	2.0.

Surrogab	% . c)	cc) p2abc) Limi/sb
4-B.omofluorobe. zU	99y	75 - 120.
ibromofluorome.hab	9y	75 - 121.
Tolue. - dI (Surr)I	108.	75 - 120.

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-1844406 **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID)	LCS 680-184440/F	alysis Babch.	680-184440.	In$bume. ID)	SO2M
Cli/ . abixM	Wab	P p Babch.	N/F	Lab Fil) ID)	oq492.dI
ilu.io.	1.0.	Uny/sb	ug/LR	In/vial WMgh./Volume:.	5 mLR
ab . alyzUdI	10/2M/2010 1115B			Fi/ al WMgh./Volume:.	5 mLR
ab P pab dI	10/2M/2010 1115B				

LCSD)Lab Sampl) ID)	LCSD)680-184440/7F	alysis Babch.	680-184440.	In$bume. ID)	SO2M
Cli/ . abixM	Wab	P p Babch.	N/F	Lab Fil) ID)	oq493.dI
ilu.io.	1.0.	Uny/sb	ug/LR	In/vial WMgh./Volume:.	5 mLR
ab . alyzUdI	10/2M/2010 1137F			Fi/ al WMgh./Volume:.	5 mLR
ab P pab dI	10/2M/2010 1137F				

	% . c.)						
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual)	LCSD)Qual)
c) o.	103U	104U	17 - 175B	1.	50.		
B. zU	106.	105B	77 - 119y	1.	30.		
B.omobe. zU	95B	95B	0 - 1 24U	1.	30.		
B.omochlorome.hab	102M	102M	10 - 150.	1.	30.		
B.omoform.	4U	2M	2 - 133U	3U	30.		
B.omome.hab	108.	120.	12 - 184U	10.	50.		
2-Bu.abo. (MEK)I	104U	100.	33 - 157F	4U	30.		
Cabbo. disulfidI	90.	9y	55 - 1316.		30.		
Cabbo. . achloridI	106.	106.	71 - 135B	0.	30.		
Chlorobe. zU	95B	94U	5 - 116.	1.	30.		
Chlorodibromome.hab	107F	102M	75 - 133U	4U	30.		
Chloroe.hab	107F	102M	40 - 165B	4U	50.		
Chloroform.	93U	93U	2 - 120.	0.	30.		
Chlorome.hab	134U	139y	4U- 1 42M	3U	50.		
2-Chloro.olue.	102M	102M	2 - 123U	0.	30.		
4-Chloro.olue.	104U	103U	3 - 122M	1.	30.		
cis-1,2-. ichloroe.h.	916.	91.	9 - 134U	0.	30.		
cis-1,3-. ichlorop2opp2	117F	115B	7F- 1 2M	2M	30.		
1,2-. ibromo-3-Chlorop2opab	104U	103U	49 - 140.	1.	30.		
1,2-. ibromoe.hab	107F	102M	0 - 1 21.	4U	30.		
ibromome.hab	113U	107F	7F- 11 9y		30.		
1,3-. ichlorobe. zU	101.	100.	7F- 1 25B	1.	30.		
1,2-. ichlorobe. zU	105B	100.	79 - 124U	4U	30.		
1,4-. ichlorobe. zU	105B	101.	1 - 1 22M	3U	30.		
ichlorobromome.hab	113U	111.	7F- 1 27F	2M	30.		
ichlorodifluorome.hab	113U	122M	34 - 154U		30.		
1,1-. ichloroe.hab	94U	95B	74 - 127F	1.	30.		
1,2-. ichloroe.hab	117F	112M	- 1 32M	4U	30.		
1,1-. ichloroe.h.	906.	95B	2 - 141.	5B	30.		
1,2-. ichloroe.h. , To.al)	91.	91.	- 1 34U	1.	30.		
1,2-. ichlorop2opab	113U	108.	73 - 124U	5B	30.		
2,2-. ichlorop2opab	103U	111.	55 - 157F	7F	30.		
1,3-. ichlorop2opab	111.	108.	75 - 120.	2M	30.		

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-1844406 **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID) LCS 680-184440/F
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1115B
ab P pab dI 10/2M2010 1115B

alysis Babch. 680-184440.
P p Babch. N/F
Uny/sb ug/LR

In$bume. ID) SO2M
Lab Fil) ID) oq492.dI
In/vial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

LCSD)Lab Sampl) ID) LCSD)680-184440/7F
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1137F
ab P pab dI 10/2M2010 1137F

alysis Babch. 680-184440.
P p Babch. N/F
Uny/sb ug/LR

In$bume. ID) SO2M
Lab Fil) ID) oq493.dI
In/vial WMgh./Volume:. 5 mLR
Fi/ al WMgh./Volume:. 5 mLR

	% . c.)						
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual)	LCSD)Qual)
1,1-. ichlorop2opp2	114U	111.	77 - 122M	2M	30.		
E.hylbe. zU	104U	102M	- 116.	1.	30.		
HI xachlorobu.adi/	100.	9y	2 - 142M	4U	30.		
2-HI xabo.	125B	119y	34 - 161.	5B	30.		
Isop2opylbe. zU	908.	9y	2 - 121.	1.	30.		
hyl) ChloridI	92M	94U	70 - 125B	2M	30.		
4-. hyl-2-p2 abo. (MIBK)I	12M	120.	40 - 151.	5B	30.		
hyl . -bu.yl e.h.	9y	99y	77 - 121.	1.	30.		
m-Xyl) & p-Xyl)	101.	101.	3 - 118.	0.	30.		
Naph.hal)	104U	100.	4U- 1 35B	5B	30.		
-Bu.ylbe. zU	110.	108.	4 - 13U	2M	30.		
N-P opylbe. zU	105B	107F	0 - 1 2M	1.	30.		
o-Xyl)	100.	100.	3 - 119y	1.	30.		
p-Isop2opylto)lue.	104U	102M	3 - 139y	2M	30.		
sbc-Bu.ylbe. zU	112M	111.	77 - 12M	1.	30.		
StyS		5B	2 - 122M	1.	30.		
-Bu.ylbe. zU	110.	105B	0 - 1 24U	5B	30.		
1,1,2,2-Ty achloroe.hab	107F	104U	9 - 129y	3U	30.		
1,1,1,2-Ty achloroe.hab	100.	99y	1 - 1 2M	1.	30.		
Ty achloroe.h.	92M	90.	7F- 1 2M	2M	30.		
Tolue.	104U	104U	1 - 11 7F	0.	30.		
abs-1,2-. ichloroe.h.	90.	92M	72 - 131.	2M	30.		
abs-1,3-. ichlorop2opp2	121.	117F	73 - 12M	3U	30.		
1,2,4-Tyichlorobe. zU	101.	9y	0 - 1 35B	3U	30.		
1,2,3-Tyichlorobe. zU	114U	108.	0 - 1 32M		30.		
1,1,1-Tyichloroe.hab	109y	106.	7F- 1 27F	2M	30.		
1,1,2-Tyichloroe.hab	111.	108.	75 - 121.	3U	30.		
Tyichloroe.h.	9y	94U	4 - 115B	4U	30.		
Tyichlorofluorome.hab	110.	114U	5B- 1 49y	3U	50.		
1,2,3-Tyichlorop2opab	104U	103U	70 - 130.	1.	30.		
1,2,4-Tyime.hylbe. zU	115B	109y	72 - 132M	5B	30.		
1,3,5-Tyime.hylbe. zU	113U	112M	72 - 133U	1.	30.		
Vi/ yl ac) ab	118.	121.	10 - 217F	3U	30.		

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

LUb Con rouSVmp e/V **Me hod: 8660Bv**
LUbVConurouSVmp6eVDVp6cv eVRecovery Reporu- Bv ch: 680-1844406 **Prep6ru on: 5030Bv**

LCS Lab Sampl) ID)	LCS 680-184440/F	alysis Babch. 680-184440.	In$bume. ID) SO2M
Cli/ . abixM	Wab	P p Babch. N/F	Lab Fil) ID) oq492.dI
ilu.io.	1.0.	Uny/sb ug/LR	In/ial WMgh./Volume:. 5 mLR
ab . alyzUdI	10/2M/2010 1115B		Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI	10/2M/2010 1115B		

LCSD)Lab Sampl) ID)	LCSD)680-184440/7F	alysis Babch. 680-184440.	In$bume. ID) SO2M
Cli/ . abixM	Wab	P p Babch. N/F	Lab Fil) ID) oq493.dI
ilu.io.	1.0.	Uny/sb ug/LR	In/ial WMgh./Volume:. 5 mLR
ab . alyzUdI	10/2M/2010 1137F		Fi/ al WMgh./Volume:. 5 mLR
ab P pab dI	10/2M/2010 1137F		

		% . c.)				
alyS	LCS)	LCSD)	Limi/	P	P Limi/	LCS Qual) LCSD)Qual)
Vi/ yl chloridI	107F	113U	59 - 144U		50.	
Xyl) s, To.al)	101.	100.	4 - 118.	0.	30.	

Surrogab	LCS % . c)	LCSD)% . c)	cc) p2abc) Limi/sb
4-B.omofluorobe. zU e	103U	99y	75 - 120.
ibromofluorome.hab	908.	9y	75 - 121.
Tolue. - dI (Surr)I	104U	102M	75 - 120.

MeVhod Bv nk - Bv ch: 680-183416T **MeVhod: 6010Cu**
Prep6ru on: 3030Cu

Lab Sampl) ID) B 680-18342M7-.
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1805B
ab P pab dI 10/19/2010 1618.

alysis Batch. 680-184233U
P p Batch. 680-18342M
Uni)/sb ug/LR

In$bume. ID) Vabiab ICP
Lab Fil) ID) E102M2010.csv/
Ini)ial WMgh./Volume:. 50 mLR
Fi/ al WMgh./Volume:. 50 mLR

alyS	sult)	QualR)	LR
Silv/	10.	U)	10.
sb ic)	20.	U)	20.
Babium.	50.	U)	50.
Cadmium.	5.0.	U)	5.0.
Ch.omium.	10.	U)	10.
I)o.	100.	U)	100.
Sodium.	1000.	U)	1000.
LRadI	10.	U)	10.
S) l) ium.	20.	U)	20.

LUbVConurouSVmp6eV- Bv ch: 680-183416T **MeVhod: 6010Cu**
Prep6ru on: 3030Cu

Lab Sampl) ID) LCS 680-18342M/F-.
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1809y
ab P pab dI 10/19/2010 1618.

alysis Batch. 680-184233U
P p Batch. 680-18342M
Uni)/sb ug/LR

In$bume. ID) Vabiab ICP
Lab Fil) ID) E102M2010.csv/
Ini)ial WMgh./Volume:. 50 mLR
Fi/ al WMgh./Volume:. 50 mLR

alyS	Spike . mou.	sult)	% . c.)	Limi/	Qual)
Silv/	50.0.	44.18.		75 - 125B	
sb ic)	2000.	2050.	103U	75 - 125B	
Babium.	2000.	2040.	102M	75 - 125B	
Cadmium.	50.0.	52.2M	104U	75 - 125B	
Ch.omium.	200.	204U	102M	75 - 125B	
I)o.	1000.	1020.	102M	75 - 125B	
Sodium.	5000.	4U0.	97F	75 - 125B	
LRadI	500.	508.	102M	75 - 125B	
S) l) ium.	2000.	2030.	101.	75 - 125B	

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

Mv rixVSp6ke/V **MeVhod: 6010Cu**
Mv rixVSp6keVDVp6cv eVRecovery Reporu- Bv ch: 680-183416T **Prep6ru on: 3030Cu**

S Lab Sampl) ID)	0-6. 22M3-1.	alysis Batch. 680-184233U	Ins$bume. ID) Vabiab ICP
Cli/ . abixM	Wab	P p Babch. 680-18342M	Lab Fil) ID) E102M2010.csv/
ilu.io.	1.0.		Inj)ial WMgh./Volume:. 50 mLR
ab . alyzUdI	10/2M2010 1817F		Fi/ al WMgh./Volume:. 50 mLR
ab P pab dI	10/19/2010 1618.		

SD)Lab Sampl) ID)	0-6. 22M3-1.	alysis Batch. 680-184233U	Ins$bume. ID) Vabiab ICP
Cli/ . abixM	Wab	P p Babch. 680-18342M	Lab Fil) ID) E102M2010.csv/
ilu.io.	1.0.		Inj)ial WMgh./Volume:. 50 mLR
ab . alyzUdI	10/2M2010 1821.		Fi/ al WMgh./Volume:. 50 mLR
ab P pab dI	10/19/2010 1618.		

	% . c.)						
alyS	S)	SD)	Limi/	P	P Limi/	S Qual)	SD)Qual)
Silv/	92M	90.	75 - 125B	2M	20.		
sb ic)	110.	107F	75 - 125B	2M	20.		
Babium.	101.	100.	75 - 125B	2M	20.		
Cadmium.	103U	101.	75 - 125B	2M	20.		
Ch.omium.	101.	99y	75 - 125B	2M	20.		
I)o.		1.	75 - 125B	1.	20.	4U	4U
LRadI	99y	97F	75 - 125B	3U	20.		
S) I) ium.	109y	107F	75 - 125B	2M	20.		

Mv rixVSp6ke/V **MeVhod: 6010Cu**
Mv rixVSp6keVDVp6cv eVRecovery Reporu- Bv ch: 680-183416T **Prep6ru on: 3030Cu**

S Lab Sampl) ID)	0-6. 22M3-1.	alysis Batch. 680-184233U	Ins$bume. ID) Vabiab ICP
Cli/ . abixM	Wab	P p Babch. 680-18342M	Lab Fil) ID) E102M2010.csv/
ilu.io.	10.		Inj)ial WMgh./Volume:. 50 mLR
ab . alyzUdI	10/2M2010 1829y		Fi/ al WMgh./Volume:. 50 mLR
ab P pab dI	10/19/2010 1618.		

SD)Lab Sampl) ID)	0-6. 22M3-1.	alysis Batch. 680-184233U	Ins$bume. ID) Vabiab ICP
Cli/ . abixM	Wab	P p Babch. 680-18342M	Lab Fil) ID) E102M2010.csv/
ilu.io.	10.		Inj)ial WMgh./Volume:. 50 mLR
ab . alyzUdI	10/2M2010 1833U		Fi/ al WMgh./Volume:. 50 mLR
ab P pab dI	10/19/2010 1618.		

	% . c.)						
alyS	S)	SD)	Limi/	P	P Limi/	S Qual)	SD)Qual)
Sodium.	123U	2M	75 - 125B	1.	20.	4U	4U

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod Bv nk - Bv ch: 680-184017U **MeVhod: 7470AV**
Prep6ru on: 7470AV

Lab Sampl) ID) B 680-184017/1-.
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1207F
ab P pab dI 10/25/2010 1537F

alysis Batch. 680-184540.
P p Batch. 680-184017F
Uni)sb ug/LR

Ins$bume. ID) LEE. N1.
Lab Fil) ID) b102M10b .ch.
Ini)ial WMgh./Volume:. 50 mLR
Fi/ al WMgh./Volume:. 50 mLR

alyS	sult)	QualR)	LR
curyS	0.20.	U)	0.20.

LUbVConurouSVmp6eV- Bv ch: 680-184017U **MeVhod: 7470AV**
Prep6ru on: 7470AV

Lab Sampl) ID) LCS 680-184017/2-.
Cli/ . abixM Wab
ilu.io. 1.0.
ab . alyzUdI 10/2M2010 1211.
ab P pab dI 10/25/2010 1537F

alysis Batch. 680-184540.
P p Batch. 680-184017F
Uni)sb ug/LR

Ins$bume. ID) LEE. N1.
Lab Fil) ID) b102M10b .ch.
Ini)ial WMgh./Volume:. 50 mLR
Fi/ al WMgh./Volume:. 50 mLR

alyS	Spike . mou.	sult)	% . c.)	Limi/	Qual)
curyS	2.50.	2.72M	109y	0 - 1 20.	

Cli/ . CADIS U.S., Inc.) Job Number: 680-622M3-1.

MeVhod BVv nk - BVv ch: 680-1843341 **MeVhod: 80386**
Prep6ru on: N/AV

Lab Sampl) ID) B 680-184334/1. alysis Batch. 680-184334U Ins\bume. ID) KONELRB1.
Cli/ . abixM Wab P p Batch. N/F Lab Fil) ID) KONE11027101SO4C.xlsb
ilu.io. 1.0. Uni)/sb mg/LR Ini)ial WMgh./Volume:. 2 mLR
ab . alyzUdI 10/27/2010 1903U Fi/ al WMgh./Volume:. 2 mLR
a e P pa dI N/F

alyS	sult)	QualR)	LR
Sulfab	5.0.	U)	5.0.

LUbVConurouSVmp6eV BVv ch: 680-1843341 **MeVhod: 80386**
Prep6ru on: N/AV

Lab Sampl) ID) LCS 680-184334/2M alysis Batch. 680-184334U Ins\bume. ID) KONELRB1.
Cli/ . abixM Wab P p Batch. N/F Lab Fil) ID) KONE11027101SO4C.xlsb
ilu.io. 1.0. Uni)/sb mg/LR Ini)ial WMgh./Volume:. 2 mLR
ab . alyzUdI 10/27/2010 1903U Fi/ al WMgh./Volume:. 2 mLR
a e P pa dI N/F

alyS	Spike . mou.	sult)	% . c.)	Limi/	Qual)
Sulfab	20.0.	1. .5B	92M	75 - 125B	

DVp6cv eV BVv ch: 680-1843341 **MeVhod: 80386**
Prep6ru on: N/AV

Lab Sampl) ID) 0-6. 22M3-5B alysis Batch. 680-184334U Ins\bume. ID) KONELRB1.
Cli/ . abixM Wab P p Batch. N/F Lab Fil) ID) KONE11027101SO4C.xlsb
ilu.io. 1.0. Uni)/sb mg/LR Ini)ial WMgh./Volume:. 2 mLR
ab . alyzUdI 10/27/2010 1911. Fi/ al WMgh./Volume:. 2 mLR
a e P pa dI N/F

alyS	Sampl) . sult)/Qual)	sult)	P	Limi/	Qual)
Sulfab	12M	12.2M	3U	30.	

Savannah
5102 LaRoche Avenue

Savannah, GA 31404
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Alan Pinnix	Site Contact: Alan Pinnix	Date: 10/18/10	COC No:
ARCADIS	Tel/Fax: 919-854-1282	Lab Contact: Kathy Smith	Carrier: Fed Ex	1 of 1 COCs
801 Corporate Center Drive, Suite 300	Analysis Turnaround Time			Job No.
Raleigh, NC 27607	Calendar (C) or Work Days (W) _____			
919-854-1282	TAT if different from Below _____			SDG No.
919-854-5448	■ 2 weeks			
Project Name: UNC Airport Road	☐ 1 week			
Site: Chapel Hill, NC	☐ 2 days			
P O # NC000239.0018.00006	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (METHOD 8260B)	RCRA Metals (6010C)	Iron (6010C)	Sodium (6010C)	Sulfate (9038)	Sample Specific Notes:
MW-1	10/18/10	1315	GW	GW	5	N	X	X	X	X	X	
MW-2	10/18/10	1215	GW	GW	5	N	X	X	X	X	X	
MW-3	10/18/10	1356	GW	GW	5	N	X	X	X	X	X	
MW-38	10/18/10	1115	GW	GW	5	N	X	X	X	X	X	
MW-39	10/18/10	1135	GW	GW	5	N	X	X	X	X	X	
MW-14	10/18/10	1045	GW	GW	5	N	X	X	X	X	X	
Trip Blank	10/18/10	~		W	2		X					

Page 52 of 53

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

680-62283 1.6

Relinquished by: [signature]	Company: ARCADIS	Date/Time: 10/18/10, 1700	Received by: [signature]	Company: TA SV	Date/Time: 10/19/10 0934
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Samcle ReTeT CheTk Listc

Cl/ent: ARCADIS U.S., Inc.y JM N umber: 680-62283-M

Login Number: c 83T **List SourVe: TestAmerVa Sa vannahc**
Creator: Coe er, Keatoe
List Number: c

Questioe	/ F/ NAc	CommeT
RadM c ctiySy either wps not meysured or, if meysured, is yt or bel/ w y byckgroy/ dc	NyAy	
he cooler's custody seyl, if present, is intyct.y	ruey	
he cooler or sTmples dcnot y ppeyr to hbve been compromised or y tympered wdh.y	ruey	
Symples were receiyed on ice.y	ruey	
Cooler yemperyture is y ycceptyble.y	ruey	
Cooler yemperyture is recorded.y	ruey	
COC is present.y	ruey	
COC is fblled oyt in ink y d legUble.y	ruey	
COC is fblled oyt wdh yll pertinent infbrmy tion.y	ruey	
Is the F5eld Sympler's nyme present on COC?U	NyAy	
here yre no dcscrep cie s between the sTmple IDs on the conty er s y d y the COC.y	ruey	
Symples yre receiyed wdhb H. ldc g y me.y	ruey	
Symple conty er s hbve legUble l/ bels.y	ruey	
Conty er s yre not broken or leykUg.y	ruey	
Symple coyection dcteytimes yre proySded.y	ruey	
Approyriyte sTmple conty er s yre used.y	ruey	
Symple bottles yre completely fblled.y	ruey	
Symple PreservSion Verifbcdc	ruey	
here is sufficient vSl. fbr y ll requested y lyses, incl. y y requested y MSyMSDsT	ruey	
VOA sTmple vSls dcnot hbve heydsp ce or bubble is <6mm (M4") in y dc meter.y	ruey	
If necessTry, styff hbve been infbrme d ofy y shbrt hbld time or qu/ck yAy y ee dsT	ruey	
Multiyhbs Tc sTmples yre not present.y	NyAy	
Symples dcnot re qu/re spl/ttingy or comp sTting.	yN Ay	y

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-62923-1

Job Description: UNC Airport Road

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, NC 27607-5073

Attention: Mr. Alan Pinnix

Approved for release.
Kathryn Smith
Project Manager I
11/19/2010 2:11 PM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com
11/19/2010

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

Comments
No additional comments. /

Receipt
All samples were received in good condition within temperature requirements./

GC/MS VOA
Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 186027 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. LCS associated with batch 186094 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCSD associated with batch 186055 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

METHOD SUMMARY:

Cli5nt5ARCADIS U.S., Inc.5 Job Number: 680-62923-15

Description:	Lab Location:	Method:	Preparation Method:
Matrix: Water:			
Volatil5 O2ganic Compounds (GC5MS)	TAL SAV2	SWJ4, 8.2M B2	
Purg2 and T2ap2	TAL SAV2		SWJ4, 5030B2

Lab References:

TAL SAV = T2stAmerica Savannah.

Method References:

SWJ4, = "T2st M2thods For Evaluating Solid Wast5, Physical5Chemical M2thods", Thi5d Edition, NovTmber 19C And Its . Updat5s.5

METHOD / ANALcST SUMMARM

Client: ARCADIS U.S., Inc.y JM N umber: 680-62923-1S

M: thodM	AnalystM	Analyst ID:
Sy 846 8260Bb	Beyrden, RMerty	RB,
SW846 8260Bb	r, Carolynb	CLb

T: stAmLrica Savannahc

SM PLE SU2 R Y2

Client: ARCADIS U.S., Inc.b Job Number: 680-62923-1b

Lab Sa: ple lDe	Client Sa: ple lDe	Client : atrix2	Date/Time : Sa: pledb	Date/Time : ReVeivedb
680-62923-1b	SW-3b	Waterb	11/02/2010 1000b	11/06/2010 1034,
680-62923-2b	SW-2b	Waterb	11/02/2010 1010b	11/06/2010 1034,
680-62923-3b	SW-4,	Waterb	11/02/2010 1100b	11/06/2010 1034,
680-62923-4,	SW-5c	Waterb	11/02/2010 1105c	11/06/2010 1034,
680-62923-5c	SW-6b	Waterb	11/02/2010 1130b	11/06/2010 1034,
680-62923-6l	MW-36l	Waterl	11/02/2010 1409b	11/06/2010 1034,
680-62923-7l	MW-4l	Waterl	11/02/2010 1410l	11/06/2010 1034l
680-62923-8l	MW-30l	Waterl	11/02/2010 1500l	11/06/2010 1034l
680-62923-9l	MW-31l	Waterl	11/02/2010 1501l	11/06/2010 1034l
680-62923-10l	MW-5l	Waterl	11/02/2010 1515l	11/06/2010 1034l
680-62923-11l	MW-32l	Waterl	11/02/2010 1550l	11/06/2010 1034l
680-62923-12l	MW-35l	Waterl	11/02/2010 1555l	11/06/2010 1034l
680-62923-13l	MW-33l	Waterl	11/02/2010 1636l	11/06/2010 1034l
680-62923-14l	MW-25l	Waterl	11/03/2010 1015l	11/06/2010 1034l
680-62923-15l	MW-26l	Waterl	11/03/2010 1120l	11/06/2010 1034l
680-62923-16l	MW-11l	Waterl	11/03/2010 1140l	11/06/2010 1034l
680-62923-17l	MW-9l	Waterl	11/03/2010 1335l	11/06/2010 1034l
680-62923-18l	MW-6l	Waterl	11/03/2010 1425l	11/06/2010 1034l
680-62923-19l	MW-7l	Waterl	11/03/2010 1435l	11/06/2010 1034l
680-62923-20l	SRW-1l	Waterl	11/03/2010 1600l	11/06/2010 1034l
680-62923-21l	SRW-2l	Waterl	11/03/2010 1610l	11/06/2010 1034l
680-62923-22l	SRW-3l	Waterl	11/03/2010 1620l	11/06/2010 1034l
680-62923-23l	DRW-1l	Waterl	11/03/2010 1630l	11/06/2010 1034l
680-62923-24l	DRW-2l	Waterl	11/03/2010 1640l	11/06/2010 1034l
680-62923-25l	DRW-3l	Waterl	11/03/2010 1650l	11/06/2010 1034l
680-62923-26l	MW-12l	Waterl	11/04/2010 0920l	11/06/2010 1034l
680-62923-27l	MW-22l	Waterl	11/04/2010 1000l	11/06/2010 1034l
680-62923-28l	MW-2l	Waterl	11/04/2010 1055l	11/06/2010 1034l
680-62923-29l	MW-15l	Waterl	11/04/2010 0911l	11/06/2010 1034l
680-62923-30l	MW-1l	Waterl	11/04/2010 1155l	11/06/2010 1034l
680-62923-31l	DUP-1l	Waterl	11/04/2010 0000l	11/06/2010 1034l
680-62923-32l	MW-28l	Waterl	11/04/2010 1403l	11/06/2010 1034l
680-62923-33l	MW-3l	Waterl	11/04/2010 1412l	11/06/2010 1034l
680-62923-34l	MW-14l	Waterl	11/05/2010 0830l	11/06/2010 1034l
680-62923-35l	MW-23l	Waterl	11/05/2010 1235l	11/06/2010 1034l
680-62923-36l	MW-17l	Waterl	11/05/2010 1350l	11/06/2010 1034l
680-62923-37l	VER-1l	Waterl	11/05/2010 1045l	11/06/2010 1034l
680-62923-38l	VER-2l	Waterl	11/05/2010 1100l	11/06/2010 1034l
680-62923-39l	VER-3l	Waterl	11/05/2010 1115l	11/06/2010 1034l
680-62923-40l	VER-4l	Waterl	11/05/2010 1130l	11/06/2010 1034l
680-62923-41l	MW-16l	Waterl	11/05/2010 1540l	11/06/2010 1034l
680-62923-42l	Trip Blankl	Waterl	11/05/2010 0000l	11/06/2010 1034l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client SMmple ID:T SW-3M

L2b Sl mp e ID:l 680-62923-1l Dl Sl mpT d: 11/02/b010 1000l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o1526.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1231l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1231l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-3M**

L2b Sl mp e ID:l 680-62923-1l Dl Sl mpT d: 11/02/b010 1000l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o1526.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1231l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1231l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthba enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	101l		75 - 121l
Toluene-d8 (Surr)l	102l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-2M**

L2b Sl mp e ID:l 680-62923-2l Dl Sl mpT d: 11/02/b010 1010l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o1528.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1259l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1259l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-2M**

L2b Sl mp e ID:l 680-62923-2l Dl Sl mpT d: 11/02/b010 1010l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o1528.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1259l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1259l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	87l		75 - 120l
Dibromofluoromethabel	7l		75 - 121l
Toluene-d8 (Surr)l	103l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-4M**

L2b Sl mp e ID:l 680-62923-3l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1100l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1328l
Dl PreþTreb:l 11/12/b010 1328l

Anl ysis Bl ch: 680-185994b

Instrument ID:l MSO2l
L2b File ID:l o1530.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-4M**

L2b Sl mp e ID:l 680-62923-3l Dl Sl mpT d: 11/02/b010 1100l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o1530.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1328l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1328l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthba enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	8l		75 - 121l
Toluene-d8 (Surr)l	101l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-5M**

L2b Sl mp e ID:l 680-62923-4b Dl Sl mpT d: 11/02/b010 1105l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o154b d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1619l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1619l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-5M**

L2b Sl mp e ID:l 680-62923-4b Dl Sl mpT d: 11/02/b010 1105l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o154b d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1619l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1619l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthba enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	84b		75 - 120l
Dibromofluoromethabel	5l		75 - 121l
Toluene-d8 (Surr)l	100l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-6M**

L2b Sl mp e ID:l 680-62923-5l Dl Sl mpT d: 11/02/b010 1130l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186273l Instrument ID:l MSOl
PreþTrl ion:l 5030Bl L2b File ID:l o1706.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/16/b010 13 40l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/16/b010 13 40l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SW-6M**

L2b Sl mp e ID:l 680-62923-5l Dl Sl mpT d: 11/02/b010 1130l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186273l Instrument ID:l MSOl
PreþTrl ion:l 5030Bl L2b File ID:l o1706.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/16/b010 13 40l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/16/b010 13 40l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel			75 - 120l
Dibromofluoromethabel			75 - 121l
Toluene-d8 (Surr)l	1l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-36M

L2b Sl mp e ID: 680-62923-6l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1 409l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1736l
Dl PreþTreb:l 11/13/b010 1736l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1581.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-36M

L2b Sl mp e ID: 680-62923-6l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1 409l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1736l
Dl PreþTreb:l 11/13/b010 1736l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1581.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	61l		10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	89l		75 - 121l
Toluene-d8 (Surr)l	4b		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-4M

L2b Sl mp e ID: 680-62923-7l Dl Sl mpT d: 11/02/b010 1 410l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o1538.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1522l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1522l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-4M

L2b Sl mp e ID: 680-62923-7l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1 410l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1522l
Dl PreþTreb:l 11/12/b010 1522l

Anl ysis Bl ch: 680-185994b

Instrument ID:l MSO2l
L2b File ID:l o1538.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthba enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	7l		75 - 121l
Toluene-d8 (Surr)l	101l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-30M

L2b Sl mp e ID: 680-62923-8l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1500l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1550l
Dl PreþTreb:l 11/12/b010 1550l

Anl ysis Bl ch: 680-185994b

Instrument ID:l MSO2l
L2b File ID:l o1540.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-30M

L2b Sl mp e ID: 680-62923-8l Dl Sl mpT d: 11/02/b010 1500l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-185994b Instrument ID:l MSO2l
PreþTrl ion:l 5030Bl L2b File ID:l o1540.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1550l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1550l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthba enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	8l		75 - 121l
Toluene-d8 (Surr)l	103l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-31

L2b Sl mp e ID: 680-62923-9l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1501l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1513l
Dl PreþTreb:l 11/13/b010 1513l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1571.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l		10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-31

L2b Sl mp e ID: 680-62923-9l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1501l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1513l
Dl PreþTreb:l 11/13/b010 1513l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1571.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	87l		75 - 120l
Dibromofluoromethabel	0l		75 - 121l
Toluene-d8 (Surr)l	3l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-5M

L2b Sl mp e ID: 680-62923-10l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1515l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 15 41l
Dl PreþTreb:l 11/13/b010 15 41l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1573.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-5M

L2b Sl mp e ID: 680-62923-10l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1515l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 15 41l
Dl PreþTreb:l 11/13/b010 15 41l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1573.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	87l		75 - 120l
Dibromofluoromethabel	88l		75 - 121l
Toluene-d8 (Surr)l	3l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-32M

L2b Sl mp e ID: 680-62923-11l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1550l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1610l
Dl PreþTreb:l 11/13/b010 1610l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1575.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-32M

L2b Sl mp e ID: 680-62923-11l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1550l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1610l
Dl PreþTreb:l 11/13/b010 1610l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1575.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	1l		75 - 120l
Dibromofluoromethabel	1l		75 - 121l
Toluene-d8 (Surr)l	4b		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-35M

L2b Sl mp e ID: 680-62923-12l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1555l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1916l
Dl PreþTreb:l 11/13/b010 1916l

Anl ysis Bl ch: 680-186057l

Instrument ID:l MSO2l
L2b File ID:l o1588.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-35M

L2b Sl mp e ID: 680-62923-12l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1555l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1916l
Dl PreþTreb:l 11/13/b010 1916l

Anl ysis Bl ch: 680-186057l

Instrument ID:l MSO2l
L2b File ID:l o1588.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	86l		75 - 120l
Dibromofluoromethabel	7l		75 - 121l
Toluene-d8 (Surr)l	104b		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-33M

L2b Sl mp e ID: 680-62923-13l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1636l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1639l
Dl PreþTreb:l 11/13/b010 1639l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1577.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-33M

L2b Sl mp e ID: 680-62923-13l
Client MA rix:l rl

Dl Sl mpT d: 11/02/b010 1636l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1639l
Dl PreþTreb:l 11/13/b010 1639l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1577.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	88l		75 - 121l
Toluene-d8 (Surr)l	5l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-25M

L2b Sl mp e ID: 680-62923-14b Dl Sl mpT d: 11/03/b010 1015l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186055l Instrument ID:l MSOl
PreþTrl ion:l 5030Bl L2b File ID:l o1579.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 1707l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 1707l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-25M

L2b Sl mp e ID: 680-62923-14b Dl Sl mpT d: 11/03/b010 1015l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186055l Instrument ID:l MSOl
PreþTrl ion:l 5030Bl L2b File ID:l o1579.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 1707l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 1707l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	0l		75 - 120l
Dibromofluoromethabel			75 - 121l
Toluene-d8 (Surr)l	5l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-26M

L2b Sl mp e ID: 680-62923-15l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1120l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 180 4b
Dl PreþTreb:l 11/13/b010 180 4b

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1583.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-26M

L2b Sl mp e ID: 680-62923-15l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1120l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 180 4b
Dl PreþTreb:l 11/13/b010 180 4b

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1583.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	1l		75 - 121l
Toluene-d8 (Surr)l	5l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-11

L2b Sl mp e ID: 680-62923-16l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 11 40l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1833l
Dl PreþTreb:l 11/13/b010 1833l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1585.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	U *l	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	3.2l		1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	00l	El	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-11

L2b Sl mp e ID: 680-62923-16l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 11 40l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1833l
Dl PreþTreb:l 11/13/b010 1833l

Anl ysis Bl ch: 680-186055l

Instrument ID:l MSOl
L2b File ID:l o1585.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	3l		75 - 120l
Dibromofluoromethabel	1l		75 - 121l
Toluene-d8 (Surr)l	5l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-11

L2b Sl mp e ID: 680-62923-16l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 11 40l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 5.0l
Dl Anl yzbd:l 11/14/b010 1 400l
Dl PreþTreb:l 11/14/b010 1 400l

Anl ysis Bl ch: 680-186147l

Run TypTl DL2

Instrument ID:l MSOl
L2b File ID:l o1597.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	5.0l	Ul	5.0l
1,1,1-Trichloroethabel	5.0l	Ul	5.0l
1,1,2,2-Tetrl chloroethabel	5.0l	Ul	5.0l
1,1,2-Trichloroethabel	5.0l	Ul	5.0l
1,1-Dichloroethabel	5.0l	Ul	5.0l
1,1-Dichloroethbnel	5.0l	Ul	5.0l
1,1-DichloropropTnel	5.0l	Ul	5.0l
1,2,3-Trichlorobenzbnel	5.0l	Ul	5.0l
1,2,3-TrichloropropTnel	5.0l	Ul	5.0l
1,2,4-Trichlorobenzbnel	5.0l	Ul	5.0l
1,2,4-Trimethylbenzbnel	5.0l	Ul	5.0l
1,2-Dibromo-3-ChloropropTnel	5.0l	Ul	5.0l
1,2-Dibromoethabel	5.0l	Ul	5.0l
1,2-Dichlorobenzbnel	5.0l	Ul	5.0l
1,2-Dichloroethabel	5.0l	Ul	5.0l
1,2-Dichloroethbne, Totl	10l	Ul	10l
1,2-DichloropropTnel	5.0l	Ul	5.0l
1,3,5-Trimethylbenzbnel	5.0l	Ul	5.0l
1,3-Dichlorobenzbnel	5.0l	Ul	5.0l
1,3-DichloropropTnel	5.0l	Ul	5.0l
1,4-Dichlorobenzbnel	5.0l	Ul	5.0l
,2-Dic hloropropTnel	5.0l	Ul	5.0l
-But nonel	50l	Ul	50l
-C hlorotoluenel	5.0l	Ul	5.0l
-He x nonel	50l	Ul	50l
4-Chlorotoluenel	5.0l	Ul	5.0l
4-MA hyl-2-pTntl nonel	50l	Ul	50l
Acetonel	130l	Ul	130l
Benzbnel	5.0l	Ul	5.0l
Bromobenzbnel	5.0l	Ul	5.0l
Bromochloromethabel	5.0l	Ul	5.0l
Bromodichloromethabel	5.0l	Ul	5.0l
Bromoforml	5.0l	Ul	5.0l
Bromomethabel	5.0l	Ul	5.0l
Cl rbon disulfid,	10l	Ul	10l
Cl rbon tetrl chlorid,	5.0l	Ul	5.0l
Chlorobenzbnel	5.0l	Ul	5.0l
Chloroethanel	5.0l	Ul	5.0l
Chloroforml	5.0l	Ul	5.0l
Chloromethabel	5.0l	Ul	5.0l
cis-1,2-Dichloroethbnel	5.0l	Ul	5.0l
cis-1,3-DichloropropTnel	5.0l	Ul	5.0l
Dibromochloromethabel	5.0l	Ul	5.0l
Dibromomethabel	5.0l	Ul	5.0l
Dichlorodifluoromethabel	5.0l	Ul	5.0l
Diethyl etherl	100l		50l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-11

L2b Sl mp e ID: 680-62923-16l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 11 40l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 5.0l
Dl Anl yzbd:l 11/14/b010 1 400l
Dl PreþTreb:l 11/14/b010 1 400l

Anl ysis Bl ch: 680-186147l

Run TypTl DL2

Instrument ID:l MSOl
L2b File ID:l o1597.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	5.0l	Ul	5.0l
Hek2chlorobutl dienel	5.0l	Ul	5.0l
Isopropylbenzbnel	5.0l	Ul	5.0l
MA hyl tert-butyl ethbrl	50l	Ul	50l
MA hy ene Chlorid,	5l	Ul	5l
m-Xy ene & p-Xy enel	10l	Ul	10l
N phtha enel	5l	Ul	5l
n-Butylbenzbnel	5.0l	Ul	5.0l
N-Propylbenzbnel	5.0l	Ul	5.0l
o-Xy enel	5.0l	Ul	5.0l
p-Isopropy toluenel	5.0l	Ul	5.0l
sec-Butylbenzbnel	5.0l	Ul	5.0l
Stlyrenel	5.0l	Ul	5.0l
rt-Butlylbenzbnel	5.0l	Ul	5.0l
Tetrl chloroethbnel	5.0l	Ul	5.0l
Toluenel	5.0l	Ul	5.0l
rl ns-1,2-Dichloroethbnel	5.0l	Ul	5.0l
rl ns-1,3-DichloropropTnel	5.0l	Ul	5.0l
Trichloroethbnel	5.0l	Ul	5.0l
Trichlorofluoromethabel	5.0l	Ul	5.0l
Vinyl l cetl	10l	Ul	10l
Vinyl chlorid,	5.0l	Ul	5.0l
Xy enes, Totl	10l	Ul	10l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	4b		75 - 120l
Dibromofluoromethabel	86l		75 - 121l
Toluene-d8 (Surr)l	6l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-9M

L2b Sl mp e ID: 680-62923-17l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1335l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/14/b010 1 4b
Dl PreþTreb:l 11/14/b010 1 4b

Anl ysis Bl ch: 680-186147l

Instrument ID:l MSOl
L2b File ID:l o1599.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	65l		10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-9M

L2b Sl mp e ID: 680-62923-17l Dl Sl mpT d: 11/03/b010 1335l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186147l Instrument ID:l MSOl
PreþTrl ion:l 5030Bl L2b File ID:l o1599.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/14/b010 1 4b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/14/b010 1 4b

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel			75 - 120l
Dibromofluoromethabel	89l		75 - 121l
Toluene-d8 (Surr)l	5l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-6M

L2b Sl mp e ID: 680-62923-18l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1 4b5l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 50l
Dl Anl yzbd:l 11/16/b010 1 44b
Dl PreþTreb:l 11/16/b010 1 44b

Anl ysis Bl ch: 680-186273l

Instrument ID:l MSOl
L2b File ID:l o1709.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	50l	Ul	50l
1,1,1-Trichloroethabel	50l	Ul	50l
1,1,2,2-Tetrl chloroethabel	50l	Ul	50l
1,1,2-Trichloroethabel	50l	Ul	50l
1,1-Dichloroethabel	50l	Ul	50l
1,1-Dichloroethbnel	50l	Ul	50l
1,1-DichloropropTnel	50l	Ul	50l
1,2,3-Trichlorobenzbnel	50l	Ul	50l
1,2,3-TrichloropropTnel	50l	Ul	50l
1,2,4-Trichlorobenzbnel	50l	Ul	50l
1,2,4-Trimethylbenzbnel	50l	Ul	50l
1,2-Dibromo-3-ChloropropTnel	50l	Ul	50l
1,2-Dibromoethabel	50l	Ul	50l
1,2-Dichlorobenzbnel	50l	Ul	50l
1,2-Dichloroethabel	50l	Ul	50l
1,2-Dichloroethbne, Totl	100l	Ul	100l
1,2-DichloropropTnel	50l	Ul	50l
1,3,5-Trimethylbenzbnel	50l	Ul	50l
1,3-Dichlorobenzbnel	50l	Ul	50l
1,3-DichloropropTnel	50l	Ul	50l
1,4-Dichlorobenzbnel	50l	Ul	50l
,2-Dic hloropropTnel	50l	Ul	50l
-Butl nonel	500l	Ul	500l
-C hlorotoluenel	50l	Ul	50l
-He x nonel	500l	Ul	500l
4-Chlorotoluenel	50l	Ul	50l
4-MA hyl-2-pTntl nonel	500l	Ul	500l
Acetonel	1300l	Ul	1300l
Benzenel	50l	Ul	50l
Bromobenzbnel	50l	Ul	50l
Bromochloromethabel	50l	Ul	50l
Bromodichloromethabel	50l	Ul	50l
Bromoforml	50l	Ul	50l
Bromomethanel	50l	Ul	50l
Cl rbon disulfid,	100l	Ul	100l
Cl rbon tetrl chlorid,	50l	Ul	50l
Chlorobenzbnel	50l	Ul	50l
Chloroethanel	50l	Ul	50l
Chloroforml	50l	Ul	50l
Chloromethanel	50l	Ul	50l
cis-1,2-Dichloroethbnel	50l	Ul	50l
cis-1,3-DichloropropTnel	50l	Ul	50l
Dibromochloromethabel	50l	Ul	50l
Dibromomethabel	50l	Ul	50l
Dichlorodifluoromethabel	50l	Ul	50l
Diethyl etherl	400l		500l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-6M

L2b Sl mp e ID: 680-62923-18l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1 4tb5l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 50l
Dl Anl yzbd:l 11/16/b010 1 44b
Dl PreþTreb:l 11/16/b010 1 44b

Anl ysis Bl ch: 680-186273l

Instrument ID:l MSOl
L2b File ID:l o1709.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	50l	Ul	50l
Hek2chlorobutl dienel	50l	Ul	50l
Isopropylbenzbnel	50l	Ul	50l
MA hyl tert-butyl ethbrl	500l	Ul	500l
MA hy ene Chlorid,	50l	Ul	50l
m-Xy ene & p-Xy enel	100l	Ul	100l
N phthna enel	50l	Ul	50l
n-Butylbenzbnel	50l	Ul	50l
N-Propylbenzbnel	50l	Ul	50l
o-Xy enel	50l	Ul	50l
p-Isopropy toluenel	50l	Ul	50l
sec-Butylbenzbnel	50l	Ul	50l
Stlyrenel	50l	Ul	50l
rt-Butlylbenzbnel	50l	Ul	50l
Tetrl chloroethbnel	50l	Ul	50l
Toluenel	50l	Ul	50l
rl ns-1,2-Dichloroethbnel	50l	Ul	50l
rl ns-1,3-DichloropropTnel	50l	Ul	50l
Trichloroethbnel	50l	Ul	50l
Trichlorofluoromethabel	50l	Ul	50l
Vinyl l cetl	100l	Ul	100l
Vinyl chlorid,	50l	Ul	50l
Xy enes, Totl	100l	Ul	100l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	5l		75 - 120l
Dibromofluoromethabel	88l		75 - 121l
Toluene-d8 (Surr)l			75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-7M

L2b Sl mp e ID: 680-62923-19l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1 435l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 50l
Dl Anl yzbd:l 11/16/b010 1628l
Dl PreþTreb:l 11/16/b010 1628l

Anl ysis Bl ch: 680-186273l

Instrument ID:l MSOl
L2b File ID:l o1714.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	50l	Ul	50l
1,1,1-Trichloroethabel	50l	Ul	50l
1,1,2,2-Tetrl chloroethabel	50l	Ul	50l
1,1,2-Trichloroethabel	50l	Ul	50l
1,1-Dichloroethabel	50l	Ul	50l
1,1-Dichloroethbnel	50l	Ul	50l
1,1-DichloropropTnel	50l	Ul	50l
1,2,3-Trichlorobenzbnel	50l	Ul	50l
1,2,3-TrichloropropTnel	50l	Ul	50l
1,2,4-Trichlorobenzbnel	50l	Ul	50l
1,2,4-Trimethylbenzbnel	50l	Ul	50l
1,2-Dibromo-3-ChloropropTnel	50l	Ul	50l
1,2-Dibromoethabel	50l	Ul	50l
1,2-Dichlorobenzbnel	50l	Ul	50l
1,2-Dichloroethabel	50l	Ul	50l
1,2-Dichloroethbne, Totl	100l	Ul	100l
1,2-DichloropropTnel	50l	Ul	50l
1,3,5-Trimethylbenzbnel	50l	Ul	50l
1,3-Dichlorobenzbnel	50l	Ul	50l
1,3-DichloropropTnel	50l	Ul	50l
1,4-Dichlorobenzbnel	50l	Ul	50l
,2-Dic hloropropTnel	50l	Ul	50l
-Butl nonel	500l	Ul	500l
-C hlorotoluenel	50l	Ul	50l
-He x nonel	500l	Ul	500l
4-Chlorotoluenel	50l	Ul	50l
4-MA hyl-2-pTntl nonel	500l	Ul	500l
Acetonel	1300l	Ul	1300l
Benzenel	50l	Ul	50l
Bromobenzbnel	50l	Ul	50l
Bromochloromethabel	50l	Ul	50l
Bromodichloromethabel	50l	Ul	50l
Bromoforml	50l	Ul	50l
Bromomethanel	50l	Ul	50l
Cl rbon disulfid,	100l	Ul	100l
Cl rbon tetrl chlorid,	50l	Ul	50l
Chlorobenzbnel	50l	Ul	50l
Chloroethanel	50l	Ul	50l
Chloroforml	50l	Ul	50l
Chloromethanel	50l	Ul	50l
cis-1,2-Dichloroethbnel	50l	Ul	50l
cis-1,3-DichloropropTnel	50l	Ul	50l
Dibromochloromethabel	50l	Ul	50l
Dibromomethabel	50l	Ul	50l
Dichlorodifluoromethabel	50l	Ul	50l
Diethyl etherl	3300l		500l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-7M

L2b Sl mp e ID: 680-62923-19l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1 435l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 50l
Dl Anl yzbd:l 11/16/b010 1628l
Dl PreþTreb:l 11/16/b010 1628l

Anl ysis Bl ch: 680-186273l

Instrument ID:l MSOl
L2b File ID:l o1714.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	50l	Ul	50l
Hek2chlorobutl dienel	50l	Ul	50l
Isopropylbenzbnel	50l	Ul	50l
MA hyl tert-butyl ethbrl	500l	Ul	500l
MA hy ene Chlorid,	50l	Ul	50l
m-Xy ene & p-Xy enel	100l	Ul	100l
N phthna enel	50l	Ul	50l
n-Butylbenzbnel	50l	Ul	50l
N-Propylbenzbnel	50l	Ul	50l
o-Xy enel	50l	Ul	50l
p-Isopropy toluenel	50l	Ul	50l
sec-Butylbenzbnel	50l	Ul	50l
Stlyrenel	50l	Ul	50l
rt-Butlylbenzbnel	50l	Ul	50l
Tetrl chloroethbnel	50l	Ul	50l
Toluenel	50l	Ul	50l
rl ns-1,2-Dichloroethbnel	50l	Ul	50l
rl ns-1,3-DichloropropTnel	50l	Ul	50l
Trichloroethbnel	50l	Ul	50l
Trichlorofluoromethabel	50l	Ul	50l
Vinyl l cetl	100l	Ul	100l
Vinyl chlorid,	50l	Ul	50l
Xy enes, Totl	100l	Ul	100l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	1l		75 - 120l
Dibromofluoromethabel	89l		75 - 121l
Toluene-d8 (Surr)l	5l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SRW-1**

L2b Sl mp e ID:l 680-62923-20l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1600l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/16/b010 1503l
Dl PreþTreb:l 11/16/b010 1503l

Anl ysis Bl ch: 680-186273l

Instrument ID:l MSOl
L2b File ID:l o1710.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.5l		1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	6.5l		1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	50l		10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SRW-1**

L2b Sl mp e ID:l 680-62923-20l Dl Sl mpT d: 11/03/b010 1600l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186273l Instrument ID:l MSOl
PreþTrl ion:l 5030Bl L2b File ID:l o1710.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/16/b010 1503l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/16/b010 1503l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	0l		75 - 120l
Dibromofluoromethabel			75 - 121l
Toluene-d8 (Surr)l	3l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SRW-2M**

L2b Sl mp e ID:l 680-62923-21l Dl Sl mpT d: 11/03/b010 1610l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186031l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0128.d,
Dilution:l 0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1915l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1915l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	0l	Ul	0l
1,1,1-Trichloroethabel	0l	Ul	0l
1,1,2,2-Tetrl chloroethabel	0l	Ul	0l
1,1,2-Trichloroethabel	0l	Ul	0l
1,1-Dichloroethabel	0l	Ul	0l
1,1-Dichloroethbnel	0l	Ul	0l
1,1-DichloropropTnel	0l	Ul	0l
1,2,3-Trichlorobenzbnel	0l	Ul	0l
1,2,3-TrichloropropTnel	0l	Ul	0l
1,2,4-Trichlorobenzbnel	0l	Ul	0l
1,2,4-Trimethylbenzbnel	0l	Ul	0l
1,2-Dibromo-3-ChloropropTnel	0l	Ul	0l
1,2-Dibromoethabel	0l	Ul	0l
1,2-Dichlorobenzbnel	0l	Ul	0l
1,2-Dichloroethabel	452l		0l
1,2-Dichloroethbne, Totl	40l	Ul	40l
1,2-DichloropropTnel	0l	Ul	0l
1,3,5-Trimethylbenzbnel	0l	Ul	0l
1,3-Dichlorobenzbnel	0l	Ul	0l
1,3-DichloropropTnel	0l	Ul	0l
1,4-Dichlorobenzbnel	0l	Ul	0l
,2-Dic hloropropTnel	0l	Ul	0l
-But nonel	00l	Ul	00l
-C hlorotoluenel	0l	Ul	0l
-He x nonel	00l	Ul	00l
4-Chlorotoluenel	0l	Ul	0l
4-MA hyl-2-pTntl nonel	00l	Ul	00l
Acetonel	500l	Ul	500l
Benzenel	0	Ul	0l
Bromobenzbnel	0l	Ul	0l
Bromochloromethabel	0l	Ul	0l
Bromodichloromethabel	0l	Ul	0l
Bromoforml	0l	Ul	0l
Bromomethanel	0l	Ul	0l
Cl rbon disulfid,	40l	Ul	40l
Cl rbon tetrl chlorid,	0l	Ul	0l
Chlorobenzbnel	0l	Ul	0l
Chloroethanel	0l	Ul	0l
Chloroforml	0l	Ul	0l
Chloromethanel	0l	Ul	0l
cis-1,2-Dichloroethbnel	0l	Ul	0l
cis-1,3-DichloropropTnel	0l	Ul	0l
Dibromochloromethabel	0l	Ul	0l
Dibromomethanel	0l	Ul	0l
Dichlorodifluoromethabel	0l	Ul	0l
Diethyl etherl	1000l		00l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SRW-2M**

L2b Sl mp e ID:l 680-62923-21l Dl Sl mpT d: 11/03/b010 1610l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186031l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0128.d,
Dilution:l 0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1915l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1915l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	0l	Ul	0l
Hek2chlorobutl dienel	0l	Ul	0l
Isopropylbenzbnel	0l	Ul	0l
MA hyl tert-butyl ethbrl	00l	Ul	00l
MA hy ene Chlorid,	100l	Ul	100l
m-Xy ene & p-Xy enel	40l	Ul	40l
N phtha enel	100l	Ul	100l
n-Butylbenzbnel	0l	Ul	0l
N-Propylbenzbnel	0l	Ul	0l
o-Xy enel	0l	Ul	0l
p-Isopropy toluenel	0l	Ul	0l
sec-Butylbenzbnel	0l	Ul	0l
Stlyrenel	0l	Ul	0l
rt-Butlylbenzbnel	0l	Ul	0l
Tetrl chloroethbnel	0l	Ul	0l
Toluenel	0l	Ul	0l
rl ns-1,2-Dichloroethbnel	0l	Ul	0l
rl ns-1,3-DichloropropTnel	0l	Ul	0l
Trichloroethbnel	0l	Ul	0l
Trichlorofluoromethabel	0l	Ul	0l
Vinyl l cetl	40l	Ul	40l
Vinyl chlorid,	0l	Ul	0l
Xy enes, Totl	40l	Ul	40l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	103l		75 - 120l
Dibromofluoromethabel	4b		75 - 121l
Toluene-d8 (Surr)l	108l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SRW-3M**

L2b Sl mp e ID:l 680-62923-22l Dl Sl mpT d: 11/03/b010 1620l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186031l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0130.d,
Dilution:l 10l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 19l44b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 19l44b

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	10l	Ul	10l
1,1,1-Trichloroethabel	10l	Ul	10l
1,1,2,2-Tetrl chloroethabel	10l	Ul	10l
1,1,2-Trichloroethabel	10l	Ul	10l
1,1-Dichloroethabel	10l	Ul	10l
1,1-Dichloroethbnel	10l	Ul	10l
1,1-DichloropropTnel	10l	Ul	10l
1,2,3-Trichlorobenzbnel	10l	Ul	10l
1,2,3-TrichloropropTnel	10l	Ul	10l
1,2,4-Trichlorobenzbnel	10l	Ul	10l
1,2,4-Trimethylbenzbnel	10l	Ul	10l
1,2-Dibromo-3-ChloropropTnel	10l	Ul	10l
1,2-Dibromoethabel	10l	Ul	10l
1,2-Dichlorobenzbnel	10l	Ul	10l
1,2-Dichloroethabel	10l	Ul	10l
1,2-Dichloroethbne, Totl	0l	Ul	0l
1,2-DichloropropTnel	10l	Ul	10l
1,3,5-Trimethylbenzbnel	10l	Ul	10l
1,3-Dichlorobenzbnel	10l	Ul	10l
1,3-DichloropropTnel	10l	Ul	10l
1,4-Dichlorobenzbnel	10l	Ul	10l
,2-Dic hloropropTnel	10l	Ul	10l
-Butl nonel	100l	Ul	100l
-C hlorotoluenel	10l	Ul	10l
-He x nonel	100l	Ul	100l
4-Chlorotoluenel	10l	Ul	10l
4-MA hyl-2-pTntl nonel	100l	Ul	100l
Acetonel	50l	Ul	50l
Benzenel	10l	Ul	10l
Bromobenzbnel	10l	Ul	10l
Bromochloromethabel	10l	Ul	10l
Bromodichloromethabel	10l	Ul	10l
Bromoforml	10l	Ul	10l
Bromomethanel	10l	Ul	10l
Cl rbon disulfid,	0l	Ul	0l
Cl rbon tetrl chlorid,	10l	Ul	10l
Chlorobenzbnel	10l	Ul	10l
Chloroethanel	10l	Ul	10l
Chloroforml	10l	Ul	10l
Chloromethanel	10l	Ul	10l
cis-1,2-Dichloroethbnel	10l	Ul	10l
cis-1,3-DichloropropTnel	10l	Ul	10l
Dibromochloromethabel	10l	Ul	10l
Dibromomethabel	10l	Ul	10l
Dichlorodifluoromethabel	10l	Ul	10l
Diethyl etherl	440l		100l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **SRW-3M**

L2b Sl mp e ID:l 680-62923-22l Dl Sl mpT d: 11/03/b010 1620l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186031l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0130.d,
Dilution:l 10l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 19l44b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 19l44b

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	10l	Ul	10l
Hek2chlorobutl dienel	10l	Ul	10l
Isopropylbenzbnel	10l	Ul	10l
MA hyl tert-butyl ethbrl	100l	Ul	100l
MA hy ene Chlorid,	50l	Ul	50l
m-Xy ene & p-Xy enel	0l	Ul	0l
N phtha enel	50l	Ul	50l
n-Butylbenzbnel	10l	Ul	10l
N-Propylbenzbnel	10l	Ul	10l
o-Xy enel	10l	Ul	10l
p-Isopropy toluenel	10l	Ul	10l
sec-Butylbenzbnel	10l	Ul	10l
Stlyrenel	10l	Ul	10l
rt-Butlylbenzbnel	10l	Ul	10l
Tetrl chloroethbnel	10l	Ul	10l
Toluenel	10l	Ul	10l
rl ns-1,2-Dichloroethbnel	10l	Ul	10l
rl ns-1,3-DichloropropTnel	10l	Ul	10l
Trichloroethbnel	10l	Ul	10l
Trichlorofluoromethabel	10l	Ul	10l
Vinyl l cetl	0l	Ul	0l
Vinyl chlorid,	10l	Ul	10l
Xy enes, Totl	0l	Ul	0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	102l		75 - 120l
Dibromofluoromethabel	6l		75 - 121l
Toluene-d8 (Surr)l	107l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M DRW-1

L2b Sl mp e ID:l 680-62923-23l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1630l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 100l
Dl Anl yzbd:l 11/12/b010 2013l
Dl PreþTreb:l 11/12/b010 2013l

Anl ysis Bl ch: 680-186031l

Instrument ID:l MSP
L2b File ID:l p0132.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	100l	Ul	100l
1,1,1-Trichloroethabel	100l	Ul	100l
1,1,2,2-Tetrl chloroethabel	100l	Ul	100l
1,1,2-Trichloroethabel	100l	Ul	100l
1,1-Dichloroethabel	100l	Ul	100l
1,1-Dichloroethbnel	100l	Ul	100l
1,1-DichloropropTnel	100l	Ul	100l
1,2,3-Trichlorobenzbnel	100l	Ul	100l
1,2,3-TrichloropropTnel	100l	Ul	100l
1,2,4-Trichlorobenzbnel	100l	Ul	100l
1,2,4-Trimethylbenzbnel	100l	Ul	100l
1,2-Dibromo-3-ChloropropTnel	100l	Ul	100l
1,2-Dibromoethabel	100l	Ul	100l
1,2-Dichlorobenzbnel	100l	Ul	100l
1,2-Dichloroethabel	100l	Ul	100l
1,2-Dichloroethbne, Totl	00l	Ul	00l
1,2-DichloropropTnel	100l	Ul	100l
1,3,5-Trimethylbenzbnel	100l	Ul	100l
1,3-Dichlorobenzbnel	100l	Ul	100l
1,3-DichloropropTnel	100l	Ul	100l
1,4-Dichlorobenzbnel	100l	Ul	100l
,2-Dic hloropropTnel	100l	Ul	100l
-Butl nonel	1000l	Ul	1000l
-C hlorotoluenel	100l	Ul	100l
-Helx2nonel	1000l	Ul	1000l
4-Chlorotoluenel	100l	Ul	100l
4-MA hyl-2-pTntl nonel	1000l	Ul	1000l
Acetonel	500l	Ul	500l
Benzbnel	100l	Ul	100l
Bromobenzbnel	100l	Ul	100l
Bromochloromethabel	100l	Ul	100l
Bromodichloromethabel	100l	Ul	100l
Bromoforml	100l	Ul	100l
Bromomethabel	100l	Ul	100l
Cl rbon disulfid,	00l	Ul	00l
Cl rbon tetrl chlorid,	100l	Ul	100l
Chlorobenzbnel	100l	Ul	100l
Chloroethanel	100l	Ul	100l
Chloroforml	100l	Ul	100l
Chloromethabel	100l	Ul	100l
cis-1,2-Dichloroethbnel	100l	Ul	100l
cis-1,3-DichloropropTnel	100l	Ul	100l
Dibromochloromethabel	100l	Ul	100l
Dibromomethabel	100l	Ul	100l
Dichlorodifluoromethabel	100l	Ul	100l
Diethyl ethbrl	3900l		1000l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **DRW-1**

L2b Sl mp e ID:l 680-62923-23l Dl Sl mpT d: 11/03/b010 1630l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186031l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0132.d,
Dilution:l 100l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 2013l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 2013l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	100l	Ul	100l
Hek2chlorobutl dienel	100l	Ul	100l
Isopropylbenzbnel	100l	Ul	100l
MA hyl tert-butyl ethbrl	1000l	Ul	1000l
MA hy ene Chlorid,	500l	Ul	500l
m-Xy ene & p-Xy enel	00l	Ul	00l
N phtha enel	500l	Ul	500l
n-Butylbenzbnel	100l	Ul	100l
N-Propylbenzbnel	100l	Ul	100l
o-Xy enel	100l	Ul	100l
p-Isopropy toluenel	100l	Ul	100l
sec-Butylbenzbnel	100l	Ul	100l
Stlyrenel	100l	Ul	100l
rt-Butlylbenzbnel	100l	Ul	100l
Tetrl chloroethbnel	100l	Ul	100l
Toluenel	100l	Ul	100l
rl ns-1,2-Dichloroethbnel	100l	Ul	100l
rl ns-1,3-DichloropropTnel	100l	Ul	100l
Trichloroethbnel	100l	Ul	100l
Trichlorofluoromethabel	100l	Ul	100l
Vinyl l cetl	00l	Ul	00l
Vinyl chlorid,	100l	Ul	100l
Xy enes, Totl	00l	Ul	00l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel			75 - 120l
Dibromofluoromethabel	6l		75 - 121l
Toluene-d8 (Surr)l	104b		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **DRW-2M**

L2b Sl mp e ID:l 680-62923-2l4b Dl Sl mpT d: 11/03/b010 16 40l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186031l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0134.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 20 43l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 20 43l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	40		l10

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **DRW-2M**

L2b Sl mp e ID:l 680-62923-2l4b Dl Sl mpT d: 11/03/b010 16 40l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186031l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0134.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 20 43l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 20 43l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthna enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	Ul	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	100l		75 - 120l
Dibromofluoromethabel	100l		75 - 121l
Toluene-d8 (Surr)l	103l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **DRW-3M**

L2b Sl mp e ID:l 680-62923-25l
Client MA rix:l rl

Dl Sl mpT d: 11/03/b010 1650l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1802l
Dl PreþTreb:l 11/12/b010 1802l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0123.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **DRW-3M**

L2b Sl mp e ID:l 680-62923-25l Dl Sl mpT d: 11/03/b010 1650l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186027l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0123.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/12/b010 1802l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/12/b010 1802l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	6l		75 - 121l
Toluene-d8 (Surr)l	7l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-12M

L2b Sl mp e ID: 680-62923-26l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 0920l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1831l
Dl PreþTreb:l 11/12/b010 1831l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0125.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-12M

L2b Sl mp e ID: 680-62923-26l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 0920l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1831l
Dl PreþTreb:l 11/12/b010 1831l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0125.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	6l		75 - 121l
Toluene-d8 (Surr)l	8l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-22M

L2b Sl mp e ID: 680-62923-27l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1000l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1900l
Dl PreþTreb:l 11/12/b010 1900l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0127.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	3.4b		1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-22M

L2b Sl mp e ID: 680-62923-27l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1000l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/12/b010 1900l
Dl PreþTreb:l 11/12/b010 1900l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0127.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phtha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel			75 - 120l
Dibromofluoromethabel	8l		75 - 121l
Toluene-d8 (Surr)l	8l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-2M

L2b Sl mp e ID: 680-62923-28l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1055l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 00l
Dl Anl yzbd:l 11/12/b010 1930l
Dl PreþTreb:l 11/12/b010 1930l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0129.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	00l	Ul	00l
1,1,1-Trichloroethabel	00l	Ul	00l
1,1,2,2-Tetrl chloroethabel	00l	Ul	00l
1,1,2-Trichloroethabel	00l	Ul	00l
1,1-Dichloroethabel	00l	Ul	00l
1,1-Dichloroethbnel	00l	Ul	00l
1,1-DichloropropTnel	00l	Ul	00l
1,2,3-Trichlorobenzbnel	00l	Ul	00l
1,2,3-TrichloropropTnel	00l	Ul	00l
1,2,4-Trichlorobenzbnel	00l	Ul	00l
1,2,4-Trimethylbenzbnel	00l	Ul	00l
1,2-Dibromo-3-ChloropropTnel	00l	Ul	00l
1,2-Dibromoethabel	00l	Ul	00l
1,2-Dichlorobenzbnel	00l	Ul	00l
1,2-Dichloroethabel	70l		00l
1,2-Dichloroethbne, Totl	400l	Ul	400l
1,2-DichloropropTnel	00l	Ul	00l
1,3,5-Trimethylbenzbnel	00l	Ul	00l
1,3-Dichlorobenzbnel	00l	Ul	00l
1,3-DichloropropTnel	00l	Ul	00l
1,4-Dichlorobenzbnel	00l	Ul	00l
,2-Dic hloropropTnel	00l	Ul	00l
-Butl nonel	000l	Ul	000l
-C hlorotoluenel	00l	Ul	00l
-He x nonel	000l	Ul	000l
4-Chlorotoluenel	00l	Ul	00l
4-MA hyl-2-pTntl nonel	000l	Ul	000l
Acetonel	5000l	Ul	5000l
Benzbnel	5900l		00l
Bromobenzbnel	00l	Ul	00l
Bromochloromethabel	00l	Ul	00l
Bromodichloromethabel	00l	Ul	00l
Bromoforml	00l	Ul	00l
Bromomethanel	00l	Ul	00l
Cl rbon disulfid,	400l	Ul	400l
Cl rbon tetrl chlorid,	00l	Ul	00l
Chlorobenzbnel	0l		00l
Chloroethanel	00l	Ul	00l
Chloroforml	800l		00l
Chloromethanel	00l	Ul	00l
cis-1,2-Dichloroethbnel	00l	Ul	00l
cis-1,3-DichloropropTnel	00l	Ul	00l
Dibromochloromethabel	00l	Ul	00l
Dibromomethabel	00l	Ul	00l
Dichlorodifluoromethabel	00l	Ul	00l
Diethyl ethbrl	13000l		000l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-2M

L2b Sl mp e ID: 680-62923-28l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1055l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 00l
Dl Anl yzbd:l 11/12/b010 1930l
Dl PreþTreb:l 11/12/b010 1930l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0129.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	340l		00l
Hek2chlorobutl dienel	00l	Ul	00l
Isopropylbenzbnel	00l	Ul	00l
MA hyl tert-butyl ethbrl	000l	Ul	000l
MA hy ene Chlorid,	1000l	Ul	1000l
m-Xy ene & p-Xy enel	400l		400l
N phtha enel	1000l	Ul	1000l
n-Butylbenzbnel	00l	Ul	00l
N-Propylbenzbnel	00l	Ul	00l
o-Xy enel	520l		00l
p-Isopropy toluenel	00l	Ul	00l
sec-Butylbenzbnel	00l	Ul	00l
Stlyrenel	00l	Ul	00l
rt-Butlylbenzbnel	00l	Ul	00l
Tetrl chloroethbnel	00l	Ul	00l
Toluenel	00l	Ul	00l
rl ns-1,2-Dichloroethbnel	00l	Ul	00l
rl ns-1,3-DichloropropTnel	00l	Ul	00l
Trichloroethbnel	00l	Ul	00l
Trichlorofluoromethabel	00l	U *l	00l
Vinyl l cetl	400l	Ul	400l
Vinyl chlorid,	00l	Ul	00l
Xy enes, Totl	0l		400l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	4b		75 - 121l
Toluene-d8 (Surr)l			75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-15M

L2b Sl mp e ID: 680-62923-29l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 0911l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 100l
Dl Anl yzbd:l 11/12/b010 1959l
Dl PreþTreb:l 11/12/b010 1959l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0131.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	100l	Ul	100l
1,1,1-Trichloroethabel	100l	Ul	100l
1,1,2,2-Tetrl chloroethabel	100l	Ul	100l
1,1,2-Trichloroethabel	100l	Ul	100l
1,1-Dichloroethabel	100l	Ul	100l
1,1-Dichloroethbnel	100l	Ul	100l
1,1-DichloropropTnel	100l	Ul	100l
1,2,3-Trichlorobenzbnel	100l	Ul	100l
1,2,3-TrichloropropTnel	100l	Ul	100l
1,2,4-Trichlorobenzbnel	100l	Ul	100l
1,2,4-Trimethylbenzbnel	100l	Ul	100l
1,2-Dibromo-3-ChloropropTnel	100l	Ul	100l
1,2-Dibromoethabel	100l	Ul	100l
1,2-Dichlorobenzbnel	100l	Ul	100l
1,2-Dichloroethabel	100l	Ul	100l
1,2-Dichloroethbne, Totl	00l	Ul	00l
1,2-DichloropropTnel	100l	Ul	100l
1,3,5-Trimethylbenzbnel	100l	Ul	100l
1,3-Dichlorobenzbnel	100l	Ul	100l
1,3-DichloropropTnel	100l	Ul	100l
1,4-Dichlorobenzbnel	100l	Ul	100l
,2-Dic hloropropTnel	100l	Ul	100l
-Butl nonel	1000l	Ul	1000l
-C hlorotoluenel	100l	Ul	100l
-Helx2nonel	1000l	Ul	1000l
4-Chlorotoluenel	100l	Ul	100l
4-MA hyl-2-pTntl nonel	1000l	Ul	1000l
Acetonel	500l	Ul	500l
Benzbnel	100l	Ul	100l
Bromobenzbnel	100l	Ul	100l
Bromochloromethabel	100l	Ul	100l
Bromodichloromethabel	100l	Ul	100l
Bromoforml	100l	Ul	100l
Bromomethabel	100l	Ul	100l
Cl rbon disulfid,	00l	Ul	00l
Cl rbon tetrl chlorid,	100l	Ul	100l
Chlorobenzbnel	100l	Ul	100l
Chloroethanel	100l	Ul	100l
Chloroforml	100l	Ul	100l
Chloromethabel	100l	Ul	100l
cis-1,2-Dichloroethbnel	100l	Ul	100l
cis-1,3-DichloropropTnel	100l	Ul	100l
Dibromochloromethabel	100l	Ul	100l
Dibromomethabel	100l	Ul	100l
Dichlorodifluoromethabel	100l	Ul	100l
Diethyl ethbrl	3000l		1000l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-15M

L2b Sl mp e ID: 680-62923-29l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 0911l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 100l
Dl Anl yzbd:l 11/12/b010 1959l
Dl PreþTreb:l 11/12/b010 1959l

Anl ysis Bl ch: 680-186027l

Instrument ID:l MSP
L2b File ID:l p0131.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	100l	Ul	100l
Hek2chlorobutl dienel	100l	Ul	100l
Isopropylbenzbnel	100l	Ul	100l
MA hyl tert-butyl ethbrl	1000l	Ul	1000l
MA hy ene Chlorid,	500l	Ul	500l
m-Xy ene & p-Xy enel	00l	Ul	00l
N phtha enel	500l	Ul	500l
n-Butylbenzbnel	100l	Ul	100l
N-Propylbenzbnel	100l	Ul	100l
o-Xy enel	100l	Ul	100l
p-Isopropy toluenel	100l	Ul	100l
sec-Butylbenzbnel	100l	Ul	100l
Stlyrenel	100l	Ul	100l
rt-Butlylbenzbnel	100l	Ul	100l
Tetrl chloroethbnel	100l	Ul	100l
Toluenel	100l	Ul	100l
rl ns-1,2-Dichloroethbnel	100l	Ul	100l
rl ns-1,3-DichloropropTnel	100l	Ul	100l
Trichloroethbnel	100l	Ul	100l
Trichlorofluoromethabel	100l	U *l	100l
Vinyl l cetl	00l	Ul	00l
Vinyl chlorid,	100l	Ul	100l
Xy enes, Totl	00l	Ul	00l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel			75 - 120l
Dibromofluoromethabel	5l		75 - 121l
Toluene-d8 (Surr)l			75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-1

L2b Sl mp e ID: 680-62923-30l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1155l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 100l
Dl Anl yzbd:l 11/16/b010 1313l
Dl PreþTreb:l 11/16/b010 1313l

Anl ysis Bl ch: 680-186385l

Instrument ID:l MSP
L2b File ID:l p0037.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	100l	Ul	100l
1,1,1-Trichloroethabel	100l	Ul	100l
1,1,2,2-Tetrl chloroethabel	390l		100l
1,1,2-Trichloroethabel	100l	Ul	100l
1,1-Dichloroethabel	100l	Ul	100l
1,1-Dichloroethbnel	100l	Ul	100l
1,1-DichloropropTnel	100l	Ul	100l
1,2,3-Trichlorobenzbnel	100l	Ul	100l
1,2,3-TrichloropropTnel	100l	Ul	100l
1,2,4-Trichlorobenzbnel	100l	Ul	100l
1,2,4-Trimethylbenzbnel	100l	Ul	100l
1,2-Dibromo-3-ChloropropTnel	100l	Ul	100l
1,2-Dibromoethabel	100l	Ul	100l
1,2-Dichlorobenzbnel	100l	Ul	100l
1,2-Dichloroethabel	360l		100l
1,2-Dichloroethbne, Totl	00l	Ul	00l
1,2-DichloropropTnel	100l	Ul	100l
1,3,5-Trimethylbenzbnel	100l	Ul	100l
1,3-Dichlorobenzbnel	100l	Ul	100l
1,3-DichloropropTnel	100l	Ul	100l
1,4-Dichlorobenzbnel	100l	Ul	100l
,2-Dic hloropropTnel	100l	Ul	100l
-Butl nonel	1000l	Ul	1000l
-C hlorotoluenel	100l	Ul	100l
-Helx2nonel	1000l	Ul	1000l
4-Chlorotoluenel	100l	Ul	100l
4-MA hyl-2-pTntl nonel	1000l	Ul	1000l
Acetonel	500l	Ul	500l
Benzbnel	1000l		100l
Bromobenzbnel	100l	Ul	100l
Bromochloromethabel	100l	Ul	100l
Bromodichloromethabel	100l	Ul	100l
Bromoforml	100l	Ul	100l
Bromomethabel	100l	Ul	100l
Cl rbon disulfid,	00l	Ul	00l
Cl rbon tetrl chlorid,	100l	Ul	100l
Chlorobenzbnel	100l	Ul	100l
Chloroethanel	100l	Ul	100l
Chloroforml	3400l		100l
Chloromethabel	100l	Ul	100l
cis-1,2-Dichloroethbnel	100l	Ul	100l
cis-1,3-DichloropropTnel	100l	Ul	100l
Dibromochloromethabel	100l	Ul	100l
Dibromomethabel	100l	Ul	100l
Dichlorodifluoromethabel	100l	Ul	100l
Diethyl ethbrl	5200l		1000l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-1

L2b Sl mp e ID: 680-62923-30l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1155l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 100l
Dl Anl yzbd:l 11/16/b010 1313l
Dl PreþTreb:l 11/16/b010 1313l

Anl ysis Bl ch: 680-186385l

Instrument ID:l MSP
L2b File ID:l p0037.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	100l	Ul	100l
Hek2chlorobutl dienel	100l	Ul	100l
Isopropylbenzbnel	100l	Ul	100l
MA hyl tert-butyl ethbrl	1000l	Ul	1000l
MA hy ene Chlorid,	500l	Ul	500l
m-Xy ene & p-Xy enel	00l	Ul	00l
N phthna enel	500l	Ul	500l
n-Butylbenzbnel	100l	Ul	100l
N-Propylbenzbnel	100l	Ul	100l
o-Xy enel	100l	Ul	100l
p-Isopropy toluenel	100l	Ul	100l
sec-Butylbenzbnel	100l	Ul	100l
Stlyrenel	100l	Ul	100l
rt-Butlylbenzbnel	100l	Ul	100l
Tetrl chloroethbnel	100l	Ul	100l
Toluenel	100l	Ul	100l
rl ns-1,2-Dichloroethbnel	100l	Ul	100l
rl ns-1,3-DichloropropTnel	100l	Ul	100l
Trichloroethbnel	140l		100l
Trichlorofluoromethabel	100l	Ul	100l
Vinyl l cetl	00l	Ul	00l
Vinyl chlorid,	100l	Ul	100l
Xy enes, Totl	00l	Ul	00l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	88l		75 - 121l
Toluene-d8 (Surr)l	6l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M DUP-1

L2b Sl mp e ID:l 680-62923-31l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 0000l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 100l
Dl Anl yzbd:l 11/13/b010 131 4b
Dl PreþTreb:l 11/13/b010 131 4b

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0141.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	100l	Ul	100l
1,1,1-Trichloroethabel	100l	Ul	100l
1,1,2,2-Tetrl chloroethabel	380l		100l
1,1,2-Trichloroethabel	100l	Ul	100l
1,1-Dichloroethabel	100l	Ul	100l
1,1-Dichloroethbnel	100l	Ul	100l
1,1-DichloropropTnel	100l	Ul	100l
1,2,3-Trichlorobenzbnel	100l	Ul	100l
1,2,3-TrichloropropTnel	100l	Ul	100l
1,2,4-Trichlorobenzbnel	100l	Ul	100l
1,2,4-Trimethylbenzbnel	100l	Ul	100l
1,2-Dibromo-3-ChloropropTnel	100l	Ul	100l
1,2-Dibromoethabel	100l	Ul	100l
1,2-Dichlorobenzbnel	100l	Ul	100l
1,2-Dichloroethabel	340l		100l
1,2-Dichloroethbne, Totl	00l	Ul	00l
1,2-DichloropropTnel	100l	Ul	100l
1,3,5-Trimethylbenzbnel	100l	Ul	100l
1,3-Dichlorobenzbnel	100l	Ul	100l
1,3-DichloropropTnel	100l	Ul	100l
1,4-Dichlorobenzbnel	100l	Ul	100l
,2-Dic hloropropTnel	100l	Ul	100l
-Butl nonel	1000l	Ul	1000l
-C hlorotoluenel	100l	Ul	100l
-Helx2nonel	1000l	Ul	1000l
4-Chlorotoluenel	100l	Ul	100l
4-MA hyl-2-pTntl nonel	1000l	Ul	1000l
Acetonel	500l	Ul	500l
Benzenel	0l		100l
Bromobenzbnel	100l	Ul	100l
Bromochloromethabel	100l	Ul	100l
Bromodichloromethabel	100l	Ul	100l
Bromoforml	100l	Ul	100l
Bromomethabel	100l	Ul	100l
Cl rbon disulfid,	00l	Ul	00l
Cl rbon tetrl chlorid,	100l	Ul	100l
Chlorobenzbnel	100l	Ul	100l
Chloroethanel	100l	Ul	100l
Chloroforml	3500l		100l
Chloromethabel	100l	Ul	100l
cis-1,2-Dichloroethbnel	100l	Ul	100l
cis-1,3-DichloropropTnel	100l	Ul	100l
Dibromochloromethabel	100l	Ul	100l
Dibromomethabel	100l	Ul	100l
Dichlorodifluoromethabel	100l	Ul	100l
Diethyl etherl	4900l		1000l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M DUP-1

L2b Sl mp e ID:l 680-62923-31l Dl Sl mpT d: 11/04/b010 0000l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186094b Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0141.d,
Dilution:l 100l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 131 4b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 131 4b

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	100l	Ul	100l
Hek2chlorobutl dienel	100l	Ul	100l
Isopropylbenzbnel	100l	Ul	100l
MA hyl tert-butyl ethbrl	1000l	Ul	1000l
MA hy ene Chlorid,	500l	Ul	500l
m-Xy ene & p-Xy enel	00l	Ul	00l
N phthna enel	500l	Ul	500l
n-Butylbenzbnel	100l	Ul	100l
N-Propylbenzbnel	100l	Ul	100l
o-Xy enel	100l	Ul	100l
p-Isopropy toluenel	100l	Ul	100l
sec-Butylbenzbnel	100l	Ul	100l
Stlyrenel	100l	Ul	100l
rt-Butlylbenzbnel	100l	Ul	100l
Tetrl chloroethbnel	100l	Ul	100l
Toluenel	100l	Ul	100l
rl ns-1,2-Dichloroethbnel	100l	Ul	100l
rl ns-1,3-DichloropropTnel	100l	Ul	100l
Trichloroethbnel	140l		100l
Trichlorofluoromethabel	100l	U *l	100l
Vinyl l cetl	00l	Ul	00l
Vinyl chlorid,	100l	Ul	100l
Xy enes, Totl	00l	Ul	00l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	8l		75 - 121l
Toluene-d8 (Surr)l	7l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-28M

L2b Sl mp e ID: 680-62923-32l Dl Sl mpT d: 11/04/b010 1 403l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186094b Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0143.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 13 44b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 13 44b

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-28M

L2b Sl mp e ID: 680-62923-32l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1 403l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 13 44b
Dl PreþTreb:l 11/13/b010 13 44b

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0143.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthna enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel			75 - 120l
Dibromofluoromethabel			75 - 121l
Toluene-d8 (Surr)l	5l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-3M

L2b Sl mp e ID: 680-62923-33l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1 412l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1 413l
Dl PreþTreb:l 11/13/b010 1 413l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0145.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-3M

L2b Sl mp e ID: 680-62923-33l
Client MA rix:l rl

Dl Sl mpT d: 11/04/b010 1 412l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1 413l
Dl PreþTreb:l 11/13/b010 1 413l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0145.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthna enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	8l		75 - 121l
Toluene-d8 (Surr)l	100l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-14M

L2b Sl mp e ID: 680-62923-34b
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 0830l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 0l
Dl Anl yzbd:l 11/13/b010 1 44b
Dl PreþTreb:l 11/13/b010 1 44b

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0147.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	0l	Ul	0l
1,1,1-Trichloroethabel	0l	Ul	0l
1,1,2,2-Tetrl chloroethabel	0l	Ul	0l
1,1,2-Trichloroethabel	0l	Ul	0l
1,1-Dichloroethabel	0l	Ul	0l
1,1-Dichloroethbnel	0l	Ul	0l
1,1-DichloropropTnel	0l	Ul	0l
1,2,3-Trichlorobenzbnel	0l	Ul	0l
1,2,3-TrichloropropTnel	0l	Ul	0l
1,2,4-Trichlorobenzbnel	0l	Ul	0l
1,2,4-Trimethylbenzbnel	0l	Ul	0l
1,2-Dibromo-3-ChloropropTnel	0l	Ul	0l
1,2-Dibromoethabel	0l	Ul	0l
1,2-Dichlorobenzbnel	0l	Ul	0l
1,2-Dichloroethabel	0l	Ul	0l
1,2-Dichloroethbne, Totl	40l	Ul	40l
1,2-DichloropropTnel	0l	Ul	0l
1,3,5-Trimethylbenzbnel	0l	Ul	0l
1,3-Dichlorobenzbnel	0l	Ul	0l
1,3-DichloropropTnel	0l	Ul	0l
1,4-Dichlorobenzbnel	0l	Ul	0l
,2-Dic hloropropTnel	0l	Ul	0l
-But nonel	00l	Ul	00l
-C hlorotoluenel	0l	Ul	0l
-He x nonel	00l	Ul	00l
4-Chlorotoluenel	0l	Ul	0l
4-MA hyl-2-pTntl nonel	00l	Ul	00l
Acetonel	500l	Ul	500l
Benzenel	36l		0l
Bromobenzbnel	0l	Ul	0l
Bromochloromethabel	0l	Ul	0l
Bromodichloromethabel	0l	Ul	0l
Bromoforml	0l	Ul	0l
Bromomethanel	0l	Ul	0l
Cl rbon disulfid,	40l	Ul	40l
Cl rbon tetrl chlorid,	0l	Ul	0l
Chlorobenzbnel	0l	Ul	0l
Chloroethanel	0l	Ul	0l
Chloroforml	0l	Ul	0l
Chloromethanel	0l	Ul	0l
cis-1,2-Dichloroethbnel	0l	Ul	0l
cis-1,3-DichloropropTnel	0l	Ul	0l
Dibromochloromethabel	0l	Ul	0l
Dibromomethanel	0l	Ul	0l
Dichlorodifluoromethabel	0l	Ul	0l
Diethyl etherl	650l		00l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-14M

L2b Sl mp e ID: 680-62923-34b Dl Sl mpT d: 11/05/b010 0830l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186094b Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0147.d,
Dilution:l 0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 1 44b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 1 44b

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	0l	Ul	0l
Hek2chlorobutl dienel	0l	Ul	0l
Isopropylbenzbnel	0l	Ul	0l
MA hyl tert-butyl ethbrl	00l	Ul	00l
MA hy ene Chlorid,	100l	Ul	100l
m-Xy ene & p-Xy enel	40l	Ul	40l
N phtha enel	100l	Ul	100l
n-Butylbenzbnel	0l	Ul	0l
N-Propylbenzbnel	0l	Ul	0l
o-Xy enel	0l	Ul	0l
p-Isopropy toluenel	0l	Ul	0l
sec-Butylbenzbnel	0l	Ul	0l
Stlyrenel	0l	Ul	0l
rt-Butlylbenzbnel	0l	Ul	0l
Tetrl chloroethbnel	0l	Ul	0l
Toluenel	0l	Ul	0l
rl ns-1,2-Dichloroethbnel	0l	Ul	0l
rl ns-1,3-DichloropropTnel	0l	Ul	0l
Trichloroethbnel	0l	Ul	0l
Trichlorofluoromethabel	0l	U *l	0l
Vinyl l cetl	40l	Ul	40l
Vinyl chlorid,	0l	Ul	0l
Xy enes, Totl	40l	Ul	40l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	3l		75 - 121l
Toluene-d8 (Surr)l	101l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-23M

L2b Sl mp e ID: 680-62923-35l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1235l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1511l
Dl PreþTreb:l 11/13/b010 1511l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p014b d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-23M

L2b Sl mp e ID: 680-62923-35l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1235l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1511l
Dl PreþTreb:l 11/13/b010 1511l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p014b d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthna enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	5l		75 - 121l
Toluene-d8 (Surr)l	8l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-17M

L2b Sl mp e ID: 680-62923-36l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1350l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 15 41l
Dl PreþTreb:l 11/13/b010 15 41l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0151.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	6.7l		.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	3.3l		1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.5l		1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	.2l		1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	6.4b		1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	46		l10

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-17M

L2b Sl mp e ID: 680-62923-36l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1350l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 15 41l
Dl PreþTreb:l 11/13/b010 15 41l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0151.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthna enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.3l		1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	6.6l		1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	0l		75 - 120l
Dibromofluoromethabel	7l		75 - 121l
Toluene-d8 (Surr)l	7l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M ER-1

L2b Sl mp e ID:l 680-62923-37l Dl Sl mpT d: 11/05/b010 10 45l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186385l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0039.d,
Dilution:l 5l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/16/b010 13 4b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/16/b010 13 4b

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	5l	Ul	5l
1,1,1-Trichloroethabel	5l	Ul	5l
1,1,2,2-Tetrl chloroethabel	5l	Ul	5l
1,1,2-Trichloroethabel	5l	Ul	5l
1,1-Dichloroethabel	5l	Ul	5l
1,1-Dichloroethbnel	5l	Ul	5l
1,1-DichloropropTnel	5l	Ul	5l
1,2,3-Trichlorobenzbnel	5l	Ul	5l
1,2,3-TrichloropropTnel	5l	Ul	5l
1,2,4-Trichlorobenzbnel	5l	Ul	5l
1,2,4-Trimethylbenzbnel	5l	Ul	5l
1,2-Dibromo-3-ChloropropTnel	5l	Ul	5l
1,2-Dibromoethabel	5l	Ul	5l
1,2-Dichlorobenzbnel	5l	Ul	5l
1,2-Dichloroethabel	150l		5l
1,2-Dichloroethbne, Totl	50l	Ul	50l
1,2-DichloropropTnel	5l	Ul	5l
1,3,5-Trimethylbenzbnel	5l	Ul	5l
1,3-Dichlorobenzbnel	5l	Ul	5l
1,3-DichloropropTnel	5l	Ul	5l
1,4-Dichlorobenzbnel	5l	Ul	5l
,2-Dic hloropropTnel	5l	Ul	5l
-But nonel	50l	Ul	50l
-C hlorotoluenel	5l	Ul	5l
-He x nonel	50l	Ul	50l
4-Chlorotoluenel	5l	Ul	5l
4-MA hyl-2-pTntl nonel	50l	Ul	50l
Acetonel	630l	Ul	630l
Benzenel	460l		5l
Bromobenzbnel	5l	Ul	5l
Bromochloromethabel	5l	Ul	5l
Bromodichloromethabel	5l	Ul	5l
Bromoforml	5l	Ul	5l
Bromomethanel	5l	Ul	5l
Cl rbon disulfid,	50l	Ul	50l
Cl rbon tetrl chlorid,	5l	Ul	5l
Chlorobenzbnel	54b		5l
Chloroethanel	5l	Ul	5l
Chloroforml	5l	Ul	5l
Chloromethanel	5l	Ul	5l
cis-1,2-Dichloroethbnel	5l	Ul	5l
cis-1,3-DichloropropTnel	5l	Ul	5l
Dibromochloromethabel	5l	Ul	5l
Dibromomethanel	5l	Ul	5l
Dichlorodifluoromethabel	5l	Ul	5l
Diethyl etherl	400l		50l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M ER-1

L2b Sl mp e ID:l 680-62923-37l Dl Sl mpT d: 11/05/b010 10 45l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186385l Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0039.d,
Dilution:l 5l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/16/b010 13 4b Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/16/b010 13 4b

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	35l		5l
Hek2chlorobutl dienel	5l	Ul	5l
Isopropylbenzbnel	5l	Ul	5l
MA hyl tert-butyl ethbrl	50l	Ul	50l
MA hy ene Chlorid,	130l	Ul	130l
m-Xy ene & p-Xy enel	50l	Ul	50l
N phtha enel	130l	Ul	130l
n-Butylbenzbnel	5l	Ul	5l
N-Propylbenzbnel	5l	Ul	5l
o-Xy enel	5l	Ul	5l
p-Isopropy toluenel	5l	Ul	5l
sec-Butylbenzbnel	5l	Ul	5l
Stlyrenel	5l	Ul	5l
rt-Butlylbenzbnel	5l	Ul	5l
Tetrl chloroethbnel	5l	Ul	5l
Toluenel	5l	Ul	5l
rl ns-1,2-Dichloroethbnel	5l	Ul	5l
rl ns-1,3-DichloropropTnel	5l	Ul	5l
Trichloroethbnel	5l	Ul	5l
Trichlorofluoromethabel	5l	Ul	5l
Vinyl l cetl	50l	Ul	50l
Vinyl chlorid,	5l	Ul	5l
Xy enes, Totl	50l	Ul	50l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	87l		75 - 121l
Toluene-d8 (Surr)l	101l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M ER-2M

L2b Sl mp e ID:l 680-62923-38l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1100l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1000l
Dl Anl yzbd:l 11/16/b010 1 412l
Dl PreþTreb:l 11/16/b010 1 412l

Anl ysis Bl ch: 680-186385l

Instrument ID:l MSP
L2b File ID:l p0041.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1000l	Ul	1000l
1,1,1-Trichloroethabel	1000l	Ul	1000l
1,1,2,2-Tetrl chloroethabel	1000l	Ul	1000l
1,1,2-Trichloroethabel	1000l	Ul	1000l
1,1-Dichloroethabel	1000l	Ul	1000l
1,1-Dichloroethbnel	1000l	Ul	1000l
1,1-DichloropropTnel	1000l	Ul	1000l
1,2,3-Trichlorobenzbnel	1000l	Ul	1000l
1,2,3-TrichloropropTnel	1000l	Ul	1000l
1,2,4-Trichlorobenzbnel	1000l	Ul	1000l
1,2,4-Trimethylbenzbnel	1000l	Ul	1000l
1,2-Dibromo-3-ChloropropTnel	1000l	Ul	1000l
1,2-Dibromoethabel	1000l	Ul	1000l
1,2-Dichlorobenzbnel	1000l	Ul	1000l
1,2-Dichloroethabel	1700l		1000l
1,2-Dichloroethbne, Totl	000l	Ul	000l
1,2-DichloropropTnel	1000l	Ul	1000l
1,3,5-Trimethylbenzbnel	1000l	Ul	1000l
1,3-Dichlorobenzbnel	1000l	Ul	1000l
1,3-DichloropropTnel	1000l	Ul	1000l
1,4-Dichlorobenzbnel	1000l	Ul	1000l
,2-Dic hloropropTnel	1000l	Ul	1000l
-Butl nonel	10000l	Ul	10000l
-C hlorotoluenel	1000l	Ul	1000l
-Helx2nonel	10000l	Ul	10000l
4-Chlorotoluenel	1000l	Ul	1000l
4-MA hyl-2-pTntl nonel	10000l	Ul	10000l
Acetonel	5000l	Ul	5000l
Benzbnel	14000l		1000l
Bromobenzbnel	1000l	Ul	1000l
Bromochloromethabel	1000l	Ul	1000l
Bromodichloromethabel	1000l	Ul	1000l
Bromoforml	1000l	Ul	1000l
Bromomethabel	1000l	Ul	1000l
Cl rbon disulfid,	000l	Ul	000l
Cl rbon tetrl chlorid,	1000l	Ul	1000l
Chlorobenzbnel	1000l	Ul	1000l
Chloroethabel	1000l	Ul	1000l
Chloroforml	1000l		1000l
Chloromethabel	1000l	Ul	1000l
cis-1,2-Dichloroethbnel	1000l	Ul	1000l
cis-1,3-DichloropropTnel	1000l	Ul	1000l
Dibromochloromethabel	1000l	Ul	1000l
Dibromomethabel	1000l	Ul	1000l
Dichlorodifluoromethabel	1000l	Ul	1000l
Diethyl ethbrl	43000l		10000l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **ER-2M**

L2b Sl mp e ID:l 680-62923-38l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1100l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1000l
Dl Anl yzbd:l 11/16/b010 1 412l
Dl PreþTreb:l 11/16/b010 1 412l

Anl ysis Bl ch: 680-186385l

Instrument ID:l MSP
L2b File ID:l p0041.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1000l	Ul	1000l
Hek2chlorobutl dienel	1000l	Ul	1000l
Isopropylbenzbnel	1000l	Ul	1000l
MA hyl tert-butyl ethbrl	10000l	Ul	10000l
MA hy ene Chlorid,	12000l		5000l
m-Xy ene & p-Xy enel	000l	Ul	000l
N phthna enel	5000l	Ul	5000l
n-Butylbenzbnel	1000l	Ul	1000l
N-Propylbenzbnel	1000l	Ul	1000l
o-Xy enel	1000l	Ul	1000l
p-Isopropy toluenel	1000l	Ul	1000l
sec-Butylbenzbnel	1000l	Ul	1000l
Stlyrenel	1000l	Ul	1000l
rt-Butlylbenzbnel	1000l	Ul	1000l
Tetrl chloroethbnel	1000l	Ul	1000l
Toluenel	1000l	Ul	1000l
rl ns-1,2-Dichloroethbnel	1000l	Ul	1000l
rl ns-1,3-DichloropropTnel	1000l	Ul	1000l
Trichloroethbnel	1000l	Ul	1000l
Trichlorofluoromethabel	1000l	Ul	1000l
Vinyl l cetl	000l	Ul	000l
Vinyl chlorid,	1000l	Ul	1000l
Xy enes, Totl	000l	Ul	000l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	88l		75 - 120l
Dibromofluoromethabel	89l		75 - 121l
Toluene-d8 (Surr)l	101l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M ER-3M

L2b Sl mp e ID:l 680-62923-39l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1115l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 50l
Dl Anl yzbd:l 11/13/b010 1709l
Dl PreþTreb:l 11/13/b010 1709l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0157.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	50l	Ul	50l
1,1,1-Trichloroethabel	50l	Ul	50l
1,1,2,2-Tetrl chloroethabel	50l	Ul	50l
1,1,2-Trichloroethabel	50l	Ul	50l
1,1-Dichloroethabel	50l	Ul	50l
1,1-Dichloroethbnel	50l	Ul	50l
1,1-DichloropropTnel	50l	Ul	50l
1,2,3-Trichlorobenzbnel	50l	Ul	50l
1,2,3-TrichloropropTnel	50l	Ul	50l
1,2,4-Trichlorobenzbnel	50l	Ul	50l
1,2,4-Trimethylbenzbnel	50l	Ul	50l
1,2-Dibromo-3-ChloropropTnel	50l	Ul	50l
1,2-Dibromoethabel	50l	Ul	50l
1,2-Dichlorobenzbnel	50l	Ul	50l
1,2-Dichloroethabel	50l	Ul	50l
1,2-Dichloroethbne, Totl	500l	Ul	500l
1,2-DichloropropTnel	50l	Ul	50l
1,3,5-Trimethylbenzbnel	50l	Ul	50l
1,3-Dichlorobenzbnel	50l	Ul	50l
1,3-DichloropropTnel	50l	Ul	50l
1,4-Dichlorobenzbnel	50l	Ul	50l
,2-Dic hloropropTnel	50l	Ul	50l
-Butl nonel	500l	Ul	500l
-C hlorotoluenel	50l	Ul	50l
-He x nonel	500l	Ul	500l
4-Chlorotoluenel	50l	Ul	50l
4-MA hyl-2-pTntl nonel	500l	Ul	500l
Acetonel	6300l	Ul	6300l
Benzbnel	510l		50l
Bromobenzbnel	50l	Ul	50l
Bromochloromethabel	50l	Ul	50l
Bromodichloromethabel	50l	Ul	50l
Bromoforml	50l	Ul	50l
Bromomethanel	50l	Ul	50l
Cl rbon disulfid,	500l	Ul	500l
Cl rbon tetrl chlorid,	50l	Ul	50l
Chlorobenzbnel	50l	Ul	50l
Chloroethanel	50l	Ul	50l
Chloroforml	50l		50l
Chloromethanel	50l	Ul	50l
cis-1,2-Dichloroethbnel	50l	Ul	50l
cis-1,3-DichloropropTnel	50l	Ul	50l
Dibromochloromethabel	50l	Ul	50l
Dibromomethabel	50l	Ul	50l
Dichlorodifluoromethabel	50l	Ul	50l
Diethyl ethbrl	10000l		500l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **ER-3M**

L2b Sl mp e ID:l 680-62923-39l Dl Sl mpT d: 11/05/b010 1115l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186094b Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0157.d,
Dilution:l 50l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 1709l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 1709l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	50l	Ul	50l
Hek2chlorobutl dienel	50l	Ul	50l
Isopropylbenzbnel	50l	Ul	50l
MA hyl tert-butyl ethbrl	500l	Ul	500l
MA hy ene Chlorid,	1300l	Ul	1300l
m-Xy ene & p-Xy enel	500l	Ul	500l
N phthna enel	1300l	Ul	1300l
n-Butylbenzbnel	50l	Ul	50l
N-Propylbenzbnel	50l	Ul	50l
o-Xy enel	50l	Ul	50l
p-Isopropy toluenel	50l	Ul	50l
sec-Butylbenzbnel	50l	Ul	50l
Stlyrenel	50l	Ul	50l
rt-Butlylbenzbnel	50l	Ul	50l
Tetrl chloroethbnel	50l	Ul	50l
Toluenel	50l	Ul	50l
rl ns-1,2-Dichloroethbnel	50l	Ul	50l
rl ns-1,3-DichloropropTnel	50l	Ul	50l
Trichloroethbnel	50l	Ul	50l
Trichlorofluoromethabel	50l	U *l	50l
Vinyl l cetl	500l	Ul	500l
Vinyl chlorid,	50l	Ul	50l
Xy enes, Totl	500l	Ul	500l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	4b		75 - 121l
Toluene-d8 (Surr)l	100l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M ER-4M

L2b Sl mp e ID:l 680-62923-40l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1130l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1738l
Dl PreþTreb:l 11/13/b010 1738l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0159.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **ER-4M**

L2b Sl mp e ID:l 680-62923-40l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 1130l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1738l
Dl PreþTreb:l 11/13/b010 1738l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0159.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthna enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	89l		75 - 120l
Dibromofluoromethabel	8l		75 - 121l
Toluene-d8 (Surr)l	7l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-16M

L2b Sl mp e ID: 680-62923-41l
Client MA rix:l rl

Dl Sl mpT d: 11/05/b010 15 40l
Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl
PreþTrl ion:l 5030Bl
Dilution:l 1.0l
Dl Anl yzbd:l 11/13/b010 1807l
Dl PreþTreb:l 11/13/b010 1807l

Anl ysis Bl ch: 680-186094b

Instrument ID:l MSP
L2b File ID:l p0161.d,
Initi l l ig hb Volume:l 5 mL2
Fin l l ig hb Volume:l 5 mL2

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M W-16M

L2b Sl mp e ID: 680-62923-41l Dl Sl mpT d: 11/05/b010 15 40l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186094b Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0161.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 1807l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 1807l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthha enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	1l		75 - 120l
Dibromofluoromethabel			75 - 121l
Toluene-d8 (Surr)l	7l		75 - 120l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **Trip Blank:**

L2b Sl mp e ID:l 680-62923-4b Dl Sl mpT d: 11/05/b010 0000l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186094b Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0137.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 1216l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 1216l

Anl yb	Result (ug/L)	Qu lifierl	RL2
1,1,1,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,1-Trichloroethabel	1.0l	Ul	1.0l
1,1,2,2-Tetrl chloroethabel	1.0l	Ul	1.0l
1,1,2-Trichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethabel	1.0l	Ul	1.0l
1,1-Dichloroethbnel	1.0l	Ul	1.0l
1,1-DichloropropTnel	1.0l	Ul	1.0l
1,2,3-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,3-TrichloropropTnel	1.0l	Ul	1.0l
1,2,4-Trichlorobenzbnel	1.0l	Ul	1.0l
1,2,4-Trimethylbenzbnel	1.0l	Ul	1.0l
1,2-Dibromo-3-ChloropropTnel	1.0l	Ul	1.0l
1,2-Dibromoethabel	1.0l	Ul	1.0l
1,2-Dichlorobenzbnel	1.0l	Ul	1.0l
1,2-Dichloroethabel	1.0l	Ul	1.0l
1,2-Dichloroethbne, Totl	.0l	Ul	.0l
1,2-DichloropropTnel	1.0l	Ul	1.0l
1,3,5-Trimethylbenzbnel	1.0l	Ul	1.0l
1,3-Dichlorobenzbnel	1.0l	Ul	1.0l
1,3-DichloropropTnel	1.0l	Ul	1.0l
1,4-Dichlorobenzbnel	1.0l	Ul	1.0l
,2-Dic hloropropTnel	1.0l	Ul	1.0l
-But nonel	10l	Ul	10l
-C hlorotoluenel	1.0l	Ul	1.0l
-He x nonel	10l	Ul	10l
4-Chlorotoluenel	1.0l	Ul	1.0l
4-MA hyl-2-pTntl nonel	10l	Ul	10l
Acetonel	5	Ul	5l
Benzbnel	1.0l	Ul	1.0l
Bromobenzbnel	1.0l	Ul	1.0l
Bromochloromethabel	1.0l	Ul	1.0l
Bromodichloromethabel	1.0l	Ul	1.0l
Bromoforml	1.0l	Ul	1.0l
Bromomethabel	1.0l	Ul	1.0l
Cl rbon disulfid,	.0l	Ul	.0l
Cl rbon tetrl chlorid,	1.0l	Ul	1.0l
Chlorobenzbnel	1.0l	Ul	1.0l
Chloroethanel	1.0l	Ul	1.0l
Chloroforml	1.0l	Ul	1.0l
Chloromethabel	1.0l	Ul	1.0l
cis-1,2-Dichloroethbnel	1.0l	Ul	1.0l
cis-1,3-DichloropropTnel	1.0l	Ul	1.0l
Dibromochloromethabel	1.0l	Ul	1.0l
Dibromomethabel	1.0l	Ul	1.0l
Dichlorodifluoromethabel	1.0l	Ul	1.0l
Diethyl etherl	10l	Ul	10l

Client: ARCADIS U.S., Inc.l Job Number: 680-62923-1l

Client Sample ID:M **Trip Blank:**

L2b Sl mp e ID:l 680-62923-4b Dl Sl mpT d: 11/05/b010 0000l
Client MA rix:l rl Dl Recei vbd: 11/06/b010 103 4b

8260B Volatile Organic Compounds (GC/MS)M

MA hod:l 8260Bl Anl ysis Bl ch: 680-186094b Instrument ID:l MSP
PreþTrl ion:l 5030Bl L2b File ID:l p0137.d,
Dilution:l 1.0l Initi l l ig hb Volume:l 5 mL2
Dl Anl yzbd:l 11/13/b010 1216l Fin l l ig hb Volume:l 5 mL2
Dl PreþTreb:l 11/13/b010 1216l

Anl yb	Result (ug/L)	Qu lifierl	RL2
Ethylbenzbnel	1.0l	Ul	1.0l
Hek2chlorobutl dienel	1.0l	Ul	1.0l
Isopropylbenzbnel	1.0l	Ul	1.0l
MA hyl tert-butyl ethbrl	10l	Ul	10l
MA hy ene Chlorid,	5.0l	Ul	5.0l
m-Xy ene & p-Xy enel	.0l	Ul	.0l
N phthna enel	5.0l	Ul	5.0l
n-Butylbenzbnel	1.0l	Ul	1.0l
N-Propylbenzbnel	1.0l	Ul	1.0l
o-Xy enel	1.0l	Ul	1.0l
p-Isopropy toluenel	1.0l	Ul	1.0l
sec-Butylbenzbnel	1.0l	Ul	1.0l
Stlyrenel	1.0l	Ul	1.0l
rt-Butlylbenzbnel	1.0l	Ul	1.0l
Tetrl chloroethbnel	1.0l	Ul	1.0l
Toluenel	1.0l	Ul	1.0l
rl ns-1,2-Dichloroethbnel	1.0l	Ul	1.0l
rl ns-1,3-DichloropropTnel	1.0l	Ul	1.0l
Trichloroethbnel	1.0l	Ul	1.0l
Trichlorofluoromethabel	1.0l	U *l	1.0l
Vinyl l cetl	.0l	Ul	.0l
Vinyl chlorid,	1.0l	Ul	1.0l
Xy enes, Totl	.0l	Ul	.0l

Surrogl	%Recl	Qu lifierl	AcceþT nce Limitsl
4-Bromofluorobenzbnel	0l		75 - 120l
Dibromofluoromethabel			75 - 121l
Toluene-d8 (Surr)l	8l		75 - 120l

Lab Sectionp	u alifierM	Descriptionp
GC/MS VOAL		
	U	dicates the analyte was analyzed for but not detected.L
	*L	CS or LCSD exceeds the control limitsL
	EL	Result exceeded calibration range.L
	*L	RPD of the LCS and LCSD exceeds the control limitsL

CliLnt5 ARCADIS U.S., Inc.L Job Number: 680-62923-1L

Method Bvank - Batch: 680-185994l **Method: 8260Bl**
Preparation: 5030Bl

L5b SLmpl5 IDL MB 680-1L5994L13T
CliLnt MLt ix5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1201L
DLt5 PFp. d, 11L12M2010 1201L

An5lysis Batchb 680-1L5994L
PFp Batch: N/A5
UnitsF ugFL5

Inst5ument IDL MSO2M
L5b . il5 IDL oq210.d,
InitiLl WJight/5olume:. 5 mL5
in5l WJight/5olume:. 5 mL5

An lyt5	R sult5	Qu l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-185994

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL MB 680-1L5994L13T
CliLnt MLtr5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1201L
DLt5 PFp. d, 11L12M2010 1201L

An5lysis Batchb 680-1L5994L
PFp BatchbN.A5
UnitsF ugFL5

Inst5ument IDL MSO2M
L5b . il5 IDL oq210.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethanb5	1.0.	UL	1.0.
Dichlorodifluoromethanb5	1.0.	UL	1.0.
DiLthyl ethb	10.	UL	10.
Ethylbenz5n5	1.0.	UL	1.0.
HLx5chlorobut5diLn5	1.0.	UL	1.0.
Isopropylbenz5n5	1.0.	UL	1.0.
MLthyl t5 t-butyl ethb	10.	UL	10.
MLthyln5 Chlorid,	5.0.	UL	5.0.
m-Xyl5n5 & p-Xyl5n5	2.0.	UL	2.0.
N. phthalt5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	UL	1.0.
N-PFopylbenz5n5	1.0.	UL	1.0.
o-Xyl5n5	1.0.	UL	1.0.
p-Isopropyltoluen5	1.0.	UL	1.0.
sFc-Butylbenz5n5	1.0.	UL	1.0.
StyMn5	1.0.	UL	1.0.
t5 t-Butylbenz5n5	1.0.	UL	1.0.
TLt5 chloroethbn5	1.0.	UL	1.0.
Toluen5	1.0.	UL	1.0.
t5 ns-1,2-Dichloroethbn5	1.0.	UL	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	UL	1.0.
TLichloroethbn5	1.0.	UL	1.0.
TLichlorofluoromethanb5	1.0.	UL	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	UL	1.0.
Xyl5n5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	AcclptancL LimitsF
4-Bromofluorobenz5n5	92M	75 - 120.
Dibromofluoromethanb5	109L	75 - 121L
Toluen5-d, (Surr)L	105b	75 - 120.

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-185994I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL LCS 680-1L5994L10.
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1007L
DLt5 PFp. d, 11L12M2010 1007L

An5lysis Batchb 680-1L5994L
PFp Batchb N.A5
UnitsF ugFL5

Inst5ument IDL MSO2M
L5b . il5 IDL oq202.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

LCSD L5b SLmpl5 IDL LCSD 680-1L5994L11L
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 103T
DLt5 PFp. d, 11L12M2010 103T

An5lysis Batchb 680-1L5994L
PFp Batchb N.A5
UnitsF ugFL5

Inst5ument IDL MSO2M
L5b . il5 IDL oq204.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	100.	9L	1 - 12M	2M	30.		
1,1,1-TLichloroethab5	9L	9L	7L- 127L	2M	30.		
1,1,2,2-TLt5 chloroethab5	9L	94L	9 - 129L	2M	30.		
1,1,2-TLichloroethab5	90.		75 - 121L	4L	30.		
1,1-Dichloroethab5	95b	101L	74 - 127L		30.		
1,1-Dichloroethbn5	9L	97L	2 - 141L	1L	30.		
1,1-Dichloropropen5	99L	102M	77 - 122M	3T	30.		
1,2,3-TLichlorobenz5n5	109L	107L	0 - 132M	2M	30.		
1,2,3-TLichloroprop. n5	99L	9L	70 - 130.	1L	30.		
1,2,4-TLichlorobenz5n5	110.	109L	0 - 135b	1L	30.		
1,2,4-TLimethylbenz5n5	107L	105b	72 - 132M	1L	30.		
1,2-Dibromo-3-Chloroprop. n5	105b	99L	49 - 1406.		30.		
1,2-Dibromoethab5	97L	93T	0 - 121L	5b	30.		
1,2-Dichlorobenz5n5	102M	102M	79 - 124L	1L	30.		
1,2-Dichloroethab5	95b	93T	- 132M	3T	30.		
1,2-Dichloroethbn5, Tot5l5	100.	102M	- 134L	3T	30.		
1,2-Dichloroprop. n5	91L	90.	73 - 124L	0.	30.		
1,3,5-TLimethylbenz5n5	102M	101L	72 - 133T	1L	30.		
1,3-Dichlorobenz5n5	104L	101L	7L- 125b	3T	30.		
1,3-Dichloroprop. n5	9L	93T	75 - 120.	3T	30.		
1,4-Dichlorobenz5n5	104L	102M	1 - 122M	2M	30.		
2,2-Dichloroprop. n5	108.	109L	55 - 157L	1L	30.		
2-But5non5	90.	93T	33 - 157L	4L	30.		
2-Chlorotoluen5	104L	104L	2 - 123T	0.	30.		
2-HLx5non5	9L	9L	34 - 1L1L	3T	30.		
4-Chlorotoluen5	103T	102M	3 - 122M	1L	30.		
4-MLthyl-2-pent5non5	95b	92M	40 - 151L	3T	30.		
AcLton5	9L	90.	17 - 175b		50.		
Bbnz5n5	91L	93T	77 - 119L	2M	30.		
Bbomobenz5n5	107L	105b	0 - 124L	2M	30.		
Bbomochloromethab5	93T	95b	10 - 150.	2M	30.		
Bbomodichloromethab5	94L	95b	7L- 127L	0.	30.		
Bbomoform.	99L	9L	2 - 133T	1L	30.		

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-185994l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L5994L10.	An5lysis Batch IDL	680-1L5994L	Inst5ument IDL	MSO2M
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq202.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1007L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1007L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L5994L11L	An5lysis Batch IDL	680-1L5994L	Inst5ument IDL	MSO2M
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq204.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 103T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 103T				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Bbomomethab5	9L	9L	12 - 1L4L	2M	50.	
C5 bon disulfid,	91L	90.	55 - 131L	1L	30.	
C5 bon t5t5 chlorid,	9L	9L	71 - 135b	0.	30.	
Chlorobenz5n5	102M	100.	5 - 11L	2M	30.	
Chloroethab5	9L	97L	40 - 1L5b	1L	50.	
Chloroform.	99L	104L	2 - 120.	5b	30.	
Chloromethab5	101L	7L	4L- 142M	15b	50.	
cis-1,2-Dichloroethbn5	9L	104L	9 - 134L		30.	
cis-1,3-Dichloropropen5	99L	99L	7L- 12M	0.	30.	
Dibromochloromethab5	106.	102M	75 - 133T	4L	30.	
Dibromomethab5	92M	91L	7L- 119L	1L	30.	
Dichlorodifluoromethab5	101L	103T	34 - 154L	2M	30.	
Ethylbenz5n5	104L	102M	- 11L	2M	30.	
HLx5chlorobut5diLn5	122M	117L	2 - 142M	4L	30.	
Isopropylbenz5n5	9L	9L	2 - 121L	0.	30.	
MLthyl t5 t-butyl ethb	97L	97L	77 - 121L	1L	30.	
MLthyl5n5 Chlorid,	95b	95b	70 - 125b	0.	30.	
m-Xyl5n5 & p-Xyl5n5	103T	101L	3 - 11L	2M	30.	
N. phthal5n5	104L	102M	4L- 135b	2M	30.	
n-Butylbenz5n5	102M	102M	4 - 13T	0.	30.	
N-PFopylbenz5n5	109L	109L	0 - 12M	0.	30.	
o-Xyl5n5	100.	99L	3 - 119L	2M	30.	
p-Isopropyltoluen5	104L	103T	3 - 139L	1L	30.	
sFc-Butylbenz5n5	107L	105b	77 - 12M	1L	30.	
StyMn5	102M	100.	2 - 122M	2M	30.	
t5 t-Butylbenz5n5	104L	101L	0 - 124L	3T	30.	
TLt5 chloroethbn5	108.	105b	7L- 12M	3T	30.	
Toluen5	94L	92M	1 - 117L	2M	30.	
t5 ns-1,2-Dichloroethbn5	101L	101L	72 - 131L	1L	30.	
t5 ns-1,3-Dichloropropen5	102M	9L	73 - 12M	4L	30.	
TLichloroethbn5	101L	100.	4 - 115b	1L	30.	
TLichlorofluoromethab5	9L	93T	5b- 149L	3T	50.	
Vinyl . cLt5t5	7L		10 - 217L	2M	30.	

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-185994l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L5994L10.	An5lysis Batch ID	680-1L5994L	Inst5ument IDL	MSO2M
CliLnt MLt ix5	WJt5	PFp Batch:	N/A5	L5b . il5 IDL	oq202.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1007L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1007L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L5994L11L	An5lysis Batch ID	680-1L5994L	Inst5ument IDL	MSO2M
CliLnt MLt ix5	WJt5	PFp Batch:	N/A5	L5b . il5 IDL	oq204.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 103T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 103T				

An5lyt5	LCSL	% RLc.L LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Vinyl chlorid,	101L	97L	59 - 144L	4L	50.		
Xyl5n5s, Tot5l5	102M	101L	4 - 11L	2M	30.		

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5	91L	91L	75 - 120.
Dibromofluoromethab5	97L	103T	75 - 121L
Toluen5-d, (Surr)	97	94	L 75 - 120. L

Method Blank - Batch: 680-186027I **Method: 8260BI**
Preparation: 5030BI

L5b SLmpl5 IDL MB 680-1L0 27L24L
CliLnt MLtrix WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1210.
DLt5 PFp. d, 11L12M2010 1210.

An5lysis Batch: 680-1L0 27L
PFp Batch: N.A5
UnitsF ugFL5

Inst5ument IDL MSPF
L5b . il5 IDL pq373.d,
InitiLl WJight/Volume:. 5 mL5
in5l WJight/Volume:. 5 mL5

An lyt5	R sult5	Qu l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-186027

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L0 27L24L	An5lysis Batch ID	680-1L0 27L	Inst5ument IDL	MSPF
CliLnt MLtrix	WJt5	PFp Batch ID	N.A5	L5b . il5 IDL	pq373.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L12M2010 1210.			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L12M2010 1210.				

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethan5	1.0.	U	1.0.
Dichlorodifluoromethan5	1.0.	U	1.0.
DiLthyl ethb	10.	UL	10.
Ethylbenz5n5	1.0.	U	1.0.
HLx5chlorobut5diLn5	1.0.	U	1.0.
Isopropylbenz5n5	1.0.	U	1.0.
MLthyl t5 t-butyl ethb	10.	UL	10.
MLthyln5 Chlorid,	5.0.	UL	5.0.
m-Xyln5 & p-Xyln5	2.0.	UL	2.0.
N. phthal5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	U	1.0.
N-PFopylbenz5n5	1.0.	U	1.0.
o-Xyln5	1.0.	U	1.0.
p-Isopropyltoluen5	1.0.	U	1.0.
sFc-Butylbenz5n5	1.0.	U	1.0.
StyMn5	1.0.	U	1.0.
t5 t-Butylbenz5n5	1.0.	U	1.0.
TLt5 chloroethbn5	1.0.	U	1.0.
Toluen5	1.0.	U	1.0.
t5 ns-1,2-Dichloroethbn5	1.0.	U	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	U	1.0.
TLichloroethbn5	1.0.	U	1.0.
TLichlorofluoromethan5	1.0.	U	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	U	1.0.
Xyln5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	Acclp t5ncL LimitsF	
4-Bromofluorobenz5n5	92M	75 - 120.	
Dibromofluoromethan5	9L	75 - 121L	
Toluen5- d, (Surr)	97	75 - 120.	L

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186027I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL LCS 680-1L0 27I21L
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1015b
DLt5 PFp. d, 11L12M2010 1015b

An5lysis Batchb 680-1L0 27L
PFp BatchbN.A5
UnitsF ugFL5

Inst5ument IDL MSPF
L5b . il5 IDL pq3T5.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

LCSD L5b SLmpl5 IDL LCSD 680-1L0 27I22M
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1045b
DLt5 PFp. d, 11L12M2010 1045b

An5lysis Batchb 680-1L0 27L
PFp BatchbN.A5
UnitsF ugFL5

Inst5ument IDL MSPF
L5b . il5 IDL pq3T7.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	101L	105b	1 - 12M	4L	30.		
1,1,1-TLichloroethab5	105b	110.	7L- 127L	4L	30.		
1,1,2,2-TLt5 chloroethab5	9L	93T	9 - 129L	5b	30.		
1,1,2-TLichloroethab5	91L	92M	75 - 121L	1L	30.		
1,1-Dichloroethab5	101L	105b	74 - 127L	4L	30.		
1,1-Dichloroethbn5	109L	112M	2 - 141L	3T	30.		
1,1-Dichloropropen5	104L	107L	77 - 122M	2M	30.		
1,2,3-TLichlorobenz5n5	1L	5b	0 - 132M	5b	30.		
1,2,3-TLichloroprop. n5		91L	70 - 130.	7L	30.		
1,2,4-TLichlorobenz5n5		9L	0 - 135b	3T	30.		
1,2,4-TLimethylbenz5n5	95b	99L	72 - 132M	4L	30.		
1,2-Dibromo-3-Chloroprop. n5	90.	92M	49 - 140.	2M	30.		
1,2-Dibromoethab5	91L	94L	0 - 121L	4L	30.		
1,2-Dichlorobenz5n5	9L	100.	79 - 124L	2M	30.		
1,2-Dichloroethab5	91L	95b	- 132M	5b	30.		
1,2-Dichloroethbn5, Tot5l5	102M	107L	- 134L	5b	30.		
1,2-Dichloroprop. n5	95b	97L	73 - 124L	2M	30.		
1,3,5-TLimethylbenz5n5	95b	100.	72 - 133T	5b	30.		
1,3-Dichlorobenz5n5	9L	99L	7L- 125b	3T	30.		
1,3-Dichloroprop. n5	90.	95b	75 - 120.	4L	30.		
1,4-Dichlorobenz5n5	9L	100.	1 - 122M	2M	30.		
2,2-Dichloroprop. n5	110.	112M	55 - 157L	2M	30.		
2-But5non5	90.	9L	33 - 157L	7L	30.		
2-Chlorotoluen5	9L	100.	2 - 123T	3T	30.		
2-HLx5non5	91L	94L	34 - 1L1L	3T	30.		
4-Chlorotoluen5	97L	100.	3 - 122M	3T	30.		
4-MLthyl-2-pent5non5	9L	94L	40 - 151L	5b	30.		
AcLton5	94L	107L	17 - 175b	13T	50.		
Bbnz5n5	97L	101L	77 - 119L	3T	30.		
Bbomobenz5n5	9L	100.	0 - 124L	4L	30.		
Bbomochloromethab5	90.	97L	10 - 1508.		30.		
Bbomodichloromethab5	97L	101L	7L- 127L	4L	30.		
Bbomoform.	101L	104L	2 - 133T	3T	30.		

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186027I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L0 27l21L	An5lysis Batch IDL	680-1L0 27L	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq3T5.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1015b			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1015b				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 27l22M	An5lysis Batch IDL	680-1L0 27L	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq3T7.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1045b			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1045b				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Bromomethan5	7L	5b	12 - 1L4L	12M	50.		
C5 bon disulfid,	106.	111L	55 - 131L	5b	30.		
C5 bon t5t5 chlorid,	115b	115b	71 - 135b	0.	30.		
Chlorobenz5n5	9L	100.	5 - 11L	4L	30.		
Chloroethan5	99L	108.	40 - 1L5b	9L	50.		
Chloroform.	99L	103T	2 - 120.	4L	30.		
Chloromethan5	99L	101L	4L- 142M	1L	50.		
cis-1,2-Dichloroethbn5	99L	103T	9 - 134L	4L	30.		
cis-1,3-Dichloropropen5	9L	102M	7L- 12M	4L	30.		
Dibromochloromethan5	100.	104L	75 - 133T	3T	30.		
Dibromomethan5	91L	97L	7L- 119L	7L	30.		
Dichlorodifluoromethan5	103T	109L	34 - 154L		30.		
DiLthyl ethb	11L	112M	70 - 130.	4L	30.		
Ethylbenz5n5	9L	100.	- 11L	4L	30.		
HLx5chlorobut5diLn5	101L	106.	2 - 142M	4L	30.		
Isopropylbenz5n5	102M	105b	2 - 121L	2M	30.		
MLthyl t5 t-butyl ethb	9L	103T	77 - 121L		30.		
MLthyl5n5 Chlorid,	97L	103T	70 - 125b		30.		
m-Xyl5n5 & p-Xyl5n5	99L	103T	3 - 11L	4L	30.		
N. phthal5n5	75b	79L	4L- 135b	5b	30.		
n-Butylbenz5n5	95b	9L	4 - 13T	3T	30.		
N-PFopylbenz5n5	102M	104L	0 - 12M	2M	30.		
o-Xyl5n5	97L	101L	3 - 119L	4L	30.		
p-Isopropyltoluen5	9L	99L	3 - 139L	3T	30.		
sFc-Butylbenz5n5	97L	101L	77 - 12M	4L	30.		
StyMn5	9L	101L	2 - 122M	3T	30.		
t5 t-Butylbenz5n5	101L	104L	0 - 124L	2M	30.		
TLt5 chloroethbn5	106.	110.	7L- 12M	4L	30.		
Toluen5	99L	102M	1 - 117L	3T	30.		
t5 ns-1,2-Dichloroethbn5	105b	110.	72 - 131L	5b	30.		
t5 ns-1,3-Dichloropropen5	9L	102M	73 - 12M	4L	30.		
TLichloroethbn5	101L	105b	4 - 115b	3T	30.		
TLichlorofluoromethan5	155b	1L1L	5b- 149L	3T	50.	*L	*L

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186027I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L0 27l21L	An5lysis Batch5 IDL	680-1L0 27L	Inst5ument IDL	MSPF
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	pq3T5.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1015b			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1015b				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 27l22M	An5lysis Batch5 IDL	680-1L0 27L	Inst5ument IDL	MSPF
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	pq3T7.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1045b			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1045b				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Vinyl . cLt5t5	106.	111L	10 - 217L	5b	30.	
Vinyl chlorid,	109L	115b	59 - 144L	5b	50.	
Xyl5n5s, Tot5l5	9L	102M	4 - 11L	4L	30.	

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5	91L	94L	75 - 120.
Dibromofluoromethab5	9L	106.	75 - 121L
Toluen5- d, (Surr)L	9L	103T	75 - 120.

Method Blank - Batch: 680-186031I **Method: 8260BI**
Preparation: 5030BI

L5b SLmpl5 IDL MB 680-1L0 31L20.
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1255b
DLt5 PFp. d, 11L12M2010 1255b

An5lysis Batchb 680-1L0 31L
PFp BatchbN.A5
UnitsF ugFL5

Inst5ument IDL MSP2M
L5b . il5 IDL pq374.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

An5lyt5	RLsult5	Qu. l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-186031I **Method: 8260BI**
Preparation: 5030BI

L5b SLmpl5 IDL MB 680-1L0 31L20.
CliLnt MLt5rx5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1255b
DLt5 PFp. d, 11L12M2010 1255b

An5lysis Batchb 680-1L0 31L
PFp BatchbN.A5
UnitsF ugFL5

Inst5ument IDL MSP2M
L5b . il5 IDL pq374.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethanb5	1.0.	UL	1.0.
Dichlorodifluoromethanb5	1.0.	UL	1.0.
DiLthyl ethb	10.	UL	10.
Ethylbenz5n5	1.0.	UL	1.0.
HLx5chlorobut5diLn5	1.0.	UL	1.0.
Isopropylbenz5n5	1.0.	UL	1.0.
MLthyl t5 t-butyl ethb	10.	UL	10.
MLthyln5 Chlorid,	5.0.	UL	5.0.
m-Xyl5n5 & p-Xyl5n5	2.0.	UL	2.0.
N. phthanL5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	UL	1.0.
N-PFopylbenz5n5	1.0.	UL	1.0.
o-Xyl5n5	1.0.	UL	1.0.
p-Isopropyltoluen5	1.0.	UL	1.0.
sFc-Butylbenz5n5	1.0.	UL	1.0.
StyMn5	1.0.	UL	1.0.
t5 t-Butylbenz5n5	1.0.	UL	1.0.
TLt5 chloroethbn5	1.0.	UL	1.0.
Toluen5	1.0.	UL	1.0.
t5 ns-1,2-Dichloroethbn5	1.0.	UL	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	UL	1.0.
TLichloroethbn5	1.0.	UL	1.0.
TLichlorofluoromethanb5	1.0.	UL	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	UL	1.0.
Xyl5n5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	AcclptancL LimitsF
4-BbomofluorobenzL5n5	102M	75 - 120.
Dibromofluoromethanb5	101L	75 - 121L
Toluen5-d, (Surr)	105b	75 - 120.

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186031I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL LCS 680-1L0 31L17L
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1030.
DLt5 PFp. d, 11L12M2010 1030.

An5lysis Batchb 680-1L0 31L
PFp Batchb N.A5
UnitsF ugFL5

Inst5ument IDL MSP2M
L5b . il5 IDL pq3T .d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

LCSD L5b SLmpl5 IDL LCSD 680-1L0 31L1L
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L12M2010 1127L
DLt5 PFp. d, 11L12M2010 1127L

An5lysis Batchb 680-1L0 31L
PFp Batchb N.A5
UnitsF ugFL5

Inst5ument IDL MSP2M
L5b . il5 IDL pq3T .d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	103T	9L	1 - 12M		30.		
1,1,1-TLichloroethab5	11L	108.	7L- 127L	7L	30.		
1,1,2,2-TLt5 chloroethab5	111L	102M	9 - 129L		30.		
1,1,2-TLichloroethab5	109L	101L	75 - 121L	7L	30.		
1,1-Dichloroethab5	111L	101L	74 - 127L	10.	30.		
1,1-Dichloroethbn5	114L	102M	2 - 141L	10.	30.		
1,1-Dichloropropen5	114L	108.	77 - 122M		30.		
1,2,3-TLichlorobenz5n5	110.	100.	0 - 132M	9L	30.		
1,2,3-TLichloroprop. n5	111L	102M	70 - 130.	9L	30.		
1,2,4-TLichlorobenz5n5	109L	100.	0 - 135b		30.		
1,2,4-TLimethylbenz5n5	112M	104L	72 - 132M	7L	30.		
1,2-Dibromo-3-Chloroprop. n5	114L	100.	49 - 140.	13T	30.		
1,2-Dibromoethab5	110.	102M	0 - 121L		30.		
1,2-Dichlorobenz5n5	110.	103T	79 - 124L	7L	30.		
1,2-Dichloroethab5	103T	9L	- 132M	7L	30.		
1,2-Dichloroethbn5, Tot5l5	110.	104L	- 134L	5b	30.		
1,2-Dichloroprop. n5	105b	99L	73 - 124L	7L	30.		
1,3,5-TLimethylbenz5n5	114L	105b	72 - 133T		30.		
1,3-Dichlorobenz5n5	110.	104L	7L- 125b		30.		
1,3-Dichloroprop. n5	107L	100.	75 - 120.	7L	30.		
1,4-Dichlorobenz5n5	111L	104L	1 - 122M		30.		
2,2-Dichloroprop. n5	120.	109L	55 - 157L	9L	30.		
2-But5non5	109L	100.	33 - 157L		30.		
2-Chlorotoluen5	108.	103T	2 - 123T	5b	30.		
2-HLx5non5	107L	99L	34 - 1L1L		30.		
4-Chlorotoluen5	1108.	101L	3 - 122M		30.		
4-MLthyl-2-pent5non5	105b	99L	40 - 151L		30.		
AcLton5	108.	9L	17 - 175b	9L	50.		
Bbnz5n5	108.	101L	77 - 119L	7L	30.		
Bbomobenz5n5	109L	101L	0 - 124L	7L	30.		
Bbomochloromethab5	11L	95b	10 - 150.	20.	30.		
Bbomodichloromethab5	110.	102M	7L- 127L	7L	30.		
Bbomoform.	113T	105b	2 - 133T	7L	30.		

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186031I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L0 31L17L	An5lysis Batch IDL	680-1L0 31L	Inst5ument IDL	MSP2M
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq3T .d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1030.			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1030.				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 31L1L	An5lysis Batch IDL	680-1L0 31L	Inst5ument IDL	MSP2M
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq3T .d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1127L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1127L				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Bromomethab5	49L	1L	12 - 1L4L	22M	50.	
C5 bon disulfid,	113T	103T	55 - 131L	9L	30.	
C5 bon t5t5 chlorid,	107L	9L	71 - 135b	9L	30.	
Chlorobenz5n5	108.	103T	5 - 11L	5b	30.	
Chloroethab5	9L	7L	40 - 1L5b	2M	50.	
Chloroform.	108.	101L	2 - 120.	7L	30.	
Chloromethab5	5b		4L- 142M	2M	50.	
cis-1,2-Dichloroethbn5	109L	103T	9 - 134L		30.	
cis-1,3-Dichloropropen5	112M	105b	7L- 12M	7L	30.	
Dibromochloromethab5	114L	106.	75 - 133T		30.	
Dibromomethab5	104L	9L	7L- 119L		30.	
Dichlorodifluoromethab5	107L	99L	34 - 154L		30.	
DiLthyl ethb	100.	97L	70 - 130.	4L	30.	
Ethylbenz5n5	110.	101L	- 11L	9L	30.	
HLx5chlorobut5diLn5	122M	113T	2 - 142M		30.	
Isopropylbenz5n5	114L	106.	2 - 121L	7L	30.	
MLthyl t5 t-butyl ethb	113T	107L	77 - 121L		30.	
MLthyl5n5 Chlorid,	99L	93T	70 - 125b	7L	30.	
m-Xyl5n5 & p-Xyl5n5	111L	104L	3 - 11L	7L	30.	
N. phthal5n5	112M	102M	4L- 135b	9L	30.	
n-Butylbenz5n5	122M	112M	4 - 13T		30.	
N-PFopylbenz5n5	113T	107L	0 - 12M		30.	
o-Xyl5n5	109L	104L	3 - 119L	5b	30.	
p-Isopropyltoluen5	112M	104L	3 - 139L	7L	30.	
sFc-Butylbenz5n5	114L	105b	77 - 12M	9L	30.	
StyMn5	111L	104L	2 - 122M	7L	30.	
t5 t-Butylbenz5n5	11L	107L	0 - 124L		30.	
TLt5 chloroethbn5	122M	112M	7L- 12M		30.	
Toluen5	104L	97L	1 - 117L	7L	30.	
t5 ns-1,2-Dichloroethbn5	111L	106.	72 - 131L	5b	30.	
t5 ns-1,3-Dichloropropen5	101L	93T	73 - 12M	9L	30.	
TLichloroethbn5	114L	105b	4 - 115b	9L	30.	
TLichlorofluoromethab5	113T	99L	5b- 149L	13T	50.	

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186031l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L0 31L17L	An5lysis Batch ID	680-1L0 31L	Inst5ument IDL	MSP2M
CliLnt MLt ix5	WJt5	PFp Batch:	N/A5	L5b . il5 IDL	pq3T .d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1030.			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1030.				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 31L1L	An5lysis Batch ID	680-1L0 31L	Inst5ument IDL	MSP2M
CliLnt MLt ix5	WJt5	PFp Batch:	N/A5	L5b . il5 IDL	pq3T .d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L12M2010 1127L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L12M2010 1127L				

An5lyt5	LCSL	% RLc.L LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Vinyl . cLt5t5	130.	117L	10 - 217L	10.	30.		
Vinyl chlorid,	110.	104L	59 - 144L	5b	50.		
Xyl5n5s, Tot5l5	111L	104L	4 - 11L	7L	30.		

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5	104L	9L	75 - 120.
Dibromofluoromethab5	109L	100.	75 - 121L
Toluen5- d, (Surr)L	104L	9L	75 - 120.

Method Blank - Batch: 680-186055

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L0 55b22M	An5lysis Batch IDL	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq223.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 1154L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L13T2010 1154L				

An lyt5	R sult5	Qu l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-186055

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L0 55b22M	An5lysis Batch ID	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch ID	N.A5	L5b . il5 IDL	oq223.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 1154L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 1154L				

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethab5	1.0.	U	1.0.
Dichlorodifluoromethab5	1.0.	U	1.0.
DiLthyl ethb	10.	UL	10.
Ethylbenz5n5	1.0.	U	1.0.
HLx5chlorobut5diLn5	1.0.	U	1.0.
Isopropylbenz5n5	1.0.	U	1.0.
MLthyl t5 t-butyl ethb	10.	UL	10.
MLthyln5 Chlorid,	5.0.	UL	5.0.
m-Xyln5 & p-Xyln5	2.0.	UL	2.0.
N. phthal5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	U	1.0.
N-PFopylbenz5n5	1.0.	U	1.0.
o-Xyln5	1.0.	U	1.0.
p-Isopropyltoluen5	1.0.	U	1.0.
sFc-Butylbenz5n5	1.0.	U	1.0.
StyMn5	1.0.	U	1.0.
t5 t-Butylbenz5n5	1.0.	U	1.0.
TLt5 chloroethbn5	1.0.	U	1.0.
Toluen5	1.0.	U	1.0.
t5 ns-1,2-Dichloroethbn5	1.0.	U	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	U	1.0.
TLichloroethbn5	1.0.	U	1.0.
TLichlorofluoromethab5	1.0.	U	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	U	1.0.
Xyln5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5	91L	75 - 120.
Dibromofluoromethab5	94L	75 - 121L
Toluen5- d, (Surr)	92M	75 - 120.

CliLnt5 ARCADIS U.S., Inc.L Job Number: 680-62923-1L

Lab Control Sample/D **Method: 8260B**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186055 **Preparation: 5030B**

LCS L5b SLmpl5 IDL	LCS 680-1L0 55b/9L	An5lysis Batch5	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch5	N.A5	L5b . il5 IDL	oq215.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/V	olume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 0959L			in5l WJight/V	olume:. 5 mL5
DLt5 PFp. d,	11L13T2010 0959L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 55b/20.	An5lysis Batch5	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch5	N.A5	L5b . il5 IDL	oq217.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/V	olume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 102M			in5l WJight/V	olume:. 5 mL5
DLt5 PFp. d,	11L13T2010 102M				

	% RLc.L						
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	104L	105b	1 - 12M	1L	30.		
1,1,1-TLichloroethab5	9L	100.	7L- 127L	2M	30.		
1,1,2,2-TLt5 chloroethab5	97L	9L	9 - 129L	1L	30.		
1,1,2-TLichloroethab5	93T	9L	75 - 121L	3T	30.		
1,1-Dichloroethab5	100.	100.	74 - 127L	0.	30.		
1,1-Dichloroethbn5	906.	144L	2 - 141L	47L	30.		*L
1,1-Dichloropropen5	100.	99L	77 - 122M	1L	30.		
1,2,3-TLichlorobenz5n5	111L	113T	0 - 132M	1L	30.		
1,2,3-TLichloroprop. n5	106.	106.	70 - 130.	0.	30.		
1,2,4-TLichlorobenz5n5	92M	91L	0 - 135b	1L	30.		
1,2,4-TLimethylbenz5n5	108.	105b	72 - 132M	3T	30.		
1,2-Dibromo-3-Chloroprop. n5	99L	108.	49 - 140.	9L	30.		
1,2-Dibromoethab5	9L	9L	0 - 121L	1L	30.		
1,2-Dichlorobenz5n5	9L	93T	79 - 124L	3T	30.		
1,2-Dichloroethab5	9L	9L	- 132M	0.	30.		
1,2-Dichloroethbn5, Tot5l5	100.	99L	- 134L	1L	30.		
1,2-Dichloroprop. n5	9L	9L	73 - 124L	1L	30.		
1,3,5-TLimethylbenz5n5	109L	106.	72 - 133T	3T	30.		
1,3-Dichlorobenz5n5	104L	103T	7L- 125b	1L	30.		
1,3-Dichloroprop. n5	93T	94L	75 - 120.	1L	30.		
1,4-Dichlorobenz5n5	106.	101L	1 - 122M	4L	30.		
2,2-Dichloroprop. n5	108.	106.	55 - 157L	2M	30.		
2-But5non5	91L	91L	33 - 157L	0.	30.		
2-Chlorotoluen5	106.	104L	2 - 123T	1L	30.		
2-HLx5non5	101L	102M	34 - 1L1	1L	30.		
4-Chlorotoluen5	104L	103T	3 - 122M	1L	30.		
4-MLthyl-2-pent5non5	94L	9L	40 - 151L	2M	30.		
AcLton5	1L	91L	17 - 175b	11L	50.		
Bbnz5n5	97L	9L	77 - 119L	1L	30.		
Bbomobenz5n5	107L	108.	0 - 124L	0.	30.		
Bbomochloromethab5	9L	95b	10 - 150.	1L	30.		
Bbomodichloromethab5	9L	100.	7L- 127L	2M	30.		
Bbomoform.	111L	111L	2 - 133T	0.	30.		

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186055I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L0 55b/19L	An5lysis Batch ID	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch ID	N.A5	L5b . il5 IDL	oq215.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 0959L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 0959L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 55b/20.	An5lysis Batch ID	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch ID	N.A5	L5b . il5 IDL	oq217.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 102M			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 102M				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Bromomethan5	14L	1L1L	12 - 1L4L	9L	50.	
C5 bon disulfid,	4L	7L	55 - 131L	10.	30.	
C5 bon t5t5 chlorid,	102M	103T	71 - 135b	1L	30.	
Chlorobenz5n5	102M	100.	5 - 11L	2M	30.	
Chloroethan5	13T	13T	40 - 1L5b	1L	50.	
Chloroform.	104L	104L	2 - 120.	1L	30.	
Chloromethan5	100.	9L	4L- 142M	1L	50.	
cis-1,2-Dichloroethbn5	101L	103T	9 - 134L	2M	30.	
cis-1,3-Dichloropropen5	101L	102M	7L- 12M	2M	30.	
Dibromochloromethan5	105b	106.	75 - 133T	1L	30.	
Dibromomethan5	94L	94L	7L- 119L	1L	30.	
Dichlorodifluoromethan5	105b	108.	34 - 154L	3T	30.	
Ethylbenz5n5	106.	103T	- 11L	2M	30.	
HLx5chlorobut5diLn5	1106.	112M	2 - 142M	1L	30.	
Isopropylbenz5n5	111L	109L	2 - 121L	1L	30.	
MLthyl t5 t-butyl ethb	100.	94L	77 - 121L		30.	
MLthyl5n5 Chlorid,	93T		70 - 125b		30.	
m-Xyl5n5 & p-Xyl5n5	105b	101L	3 - 11L	3T	30.	
N. phthal5n5	102M	104L	4L- 135b	2M	30.	
n-Butylbenz5n5	111L	107L	4 - 13T	3T	30.	
N-PFopylbenz5n5	108.	105b	0 - 12M	4L	30.	
o-Xyl5n5	109L	108.	3 - 119L	1L	30.	
p-Isopropyltoluen5	1106.	108.	3 - 139L	2M	30.	
sFc-Butylbenz5n5	108.	106.	77 - 12M	2M	30.	
StyMn5	104L	101L	2 - 122M	2M	30.	
t5 t-Butylbenz5n5	114L	109L	0 - 124L	4L	30.	
TLt5 chloroethbn5	104L	106.	7L- 12M	2M	30.	
Toluen5	99L	9L	1 - 117L	1L	30.	
t5 ns-1,2-Dichloroethbn5	99L	95b	72 - 131L	5b	30.	
t5 ns-1,3-Dichloropropen5	104L	104L	73 - 12M	1L	30.	
TLichloroethbn5	9L	9L	4 - 115b	0.	30.	
TLichlorofluoromethan5	90.	94L	5b- 149L	4L	50.	
Vinyl . cLt5t5	103T	100.	10 - 217L	3T	30.	

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186055l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L0 55bl9L	An5lysis Batch ID	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch ID	N.A5	L5b . il5 IDL	oq215.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 0959L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 0959L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 55l20.	An5lysis Batch ID	680-1L0 55b	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch ID	N.A5	L5b . il5 IDL	oq217.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 102M			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 102M				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Vinyl chlorid,	103T	106.	59 - 144L	3T	50.		
Xyl5n5s, Tot5l5	106.	103T	4 - 11L	2M	30.		

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Bromofluorobenz5n5	9L	94L	75 - 120.
Dibromofluoromethan5	94L	9L	75 - 121L
Toluen5-d, (Surr)	94	94	L 75 - 120. L

Method Blank - Batch: 680-186057

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL MB 680-1L0 57L21L
CliLnt MLtrix WJter
Dilution5 1.0.
DLt5 An5lyz5d, 11/13/2010 1208.
DLt5 PFp. d, 11/13/2010 1208.

An5lysis Batch: 680-1L0 57L
PFp Batch: N.A5
UnitsF ugF L5

Inst5ument IDL MSO2M
L5b . il5 IDL oq224.d,
InitiLl WJight/Volume:. 5 mL5
in5l WJight/Volume:. 5 mL5

An5lyt5	RLsult5	Qu. l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-186057I **Method: 8260BI**
Preparation: 5030BI

L5b SLmpl5 IDL MB 680-1L0 57L21L
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L13T2010 1208.
DLt5 PFp. d, 11L13T2010 1208.

An5lysis Batch5 680-1L0 57L
PFp Batch5N.A5
UnitsF ugFL5

Inst5ument IDL MSO2M
L5b . il5 IDL oq224.d,
InitiLl WJight/5Volume:. 5 mL5
in5l WJight/5Volume:. 5 mL5

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethan5	1.0.	UL	1.0.
Dichlorodifluoromethan5	1.0.	UL	1.0.
DiLthyl ethb	10.	UL	10.
Ethylbenz5n5	1.0.	UL	1.0.
HLx5chlorobut5diLn5	1.0.	UL	1.0.
Isopropylbenz5n5	1.0.	UL	1.0.
MLthyl t5 t-butyl ethb	10.	UL	10.
MLthyl5n5 Chlorid,	5.0.	UL	5.0.
m-Xyl5n5 & p-Xyl5n5	2.0.	UL	2.0.
N. phthal5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	UL	1.0.
N-PFopylbenz5n5	1.0.	UL	1.0.
o-Xyl5n5	1.0.	UL	1.0.
p-Isopropyltoluen5	1.0.	UL	1.0.
sFc-Butylbenz5n5	1.0.	UL	1.0.
StyMn5	1.0.	UL	1.0.
t5 t-Butylbenz5n5	1.0.	UL	1.0.
TLt5 chloroethbn5	1.0.	UL	1.0.
Toluen5	1.0.	UL	1.0.
t5 ns-1,2-Dichloroethbn5	1.0.	UL	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	UL	1.0.
TLichloroethbn5	1.0.	UL	1.0.
TLichlorofluoromethan5	1.0.	UL	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	UL	1.0.
Xyl5n5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	AcclpLncL LimitsF
4-Bromofluorobenz5n5		75 - 120.
Dibromofluoromethan5	99L	75 - 121L
Toluen5-d, (Surr)L	103T	75 - 120.

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186057I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL LCS 680-1L0 57L1L An5lysis Batch ID 680-1L0 57L Inst5ument IDL MSO2M
CliLnt MLt5x5 WJt5 PFp Batch ID N.A5 L5b . il5 IDL oq21L.d,
Dilution5 1.0. UnitsF ugFL5 InitiLl WJight/5Volume:. 5 mL5
DLt5 An5lyz5d, 11L13T2010 1014L in5l WJight/5Volume:. 5 mL5
DLt5 PFp. d, 11L13T2010 1014L

LCSD L5b SLmpl5 IDL LCSD 680-1L0 57L19L An5lysis Batch ID 680-1L0 57L Inst5ument IDL MSO2M
CliLnt MLt5x5 WJt5 PFp Batch ID N.A5 L5b . il5 IDL oq21L.d,
Dilution5 1.0. UnitsF ugFL5 InitiLl WJight/5Volume:. 5 mL5
DLt5 An5lyz5d, 11L13T2010 1042M in5l WJight/5Volume:. 5 mL5
DLt5 PFp. d, 11L13T2010 1042M

	% RLc.L						
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	102M	101L	1 - 12M	2M	30.		
1,1,1-TLichloroethab5	99L	99L	7L- 127L	0.	30.		
1,1,2,2-TLt5 chloroethab5	102M	9L	9 - 129L		30.		
1,1,2-TLichloroethab5	9L	93T	75 - 121L	3T	30.		
1,1-Dichloroethab5	9L	97L	74 - 127L	1L	30.		
1,1-Dichloroethbn5	93T	92M	2 - 141L	1L	30.		
1,1-Dichloropropen5	100.	103T	77 - 122M	2M	30.		
1,2,3-TLichlorobenz5n5	114L	108.	0 - 132M	5b	30.		
1,2,3-TLichloroprop. n5	106.	100.	70 - 1306.		30.		
1,2,4-TLichlorobenz5n5	112M	109L	0 - 135b	3T	30.		
1,2,4-TLimethylbenz5n5	110.	109L	72 - 132M	1L	30.		
1,2-Dibromo-3-Chloroprop. n5	103T	104L	49 - 140.	1L	30.		
1,2-Dibromoethab5	102M	101L	0 - 121L	1L	30.		
1,2-Dichlorobenz5n5	107L	106.	79 - 124L	2M	30.		
1,2-Dichloroethab5	9L	97L	- 132M	2M	30.		
1,2-Dichloroethbn5, Tot5l5	100.	9L	- 134L	2M	30.		
1,2-Dichloroprop. n5	95b	95b	73 - 124L	0.	30.		
1,3,5-TLimethylbenz5n5	105b	104L	72 - 133T	1L	30.		
1,3-Dichlorobenz5n5	108.	104L	7L- 125b	4L	30.		
1,3-Dichloroprop. n5	101L	100.	75 - 120.	1L	30.		
1,4-Dichlorobenz5n5	108.	105b	1 - 122M	3T	30.		
2,2-Dichloroprop. n5	108.	104L	55 - 157L	3T	30.		
2-But5non5	9L	93T	33 - 157L	3T	30.		
2-Chlorotoluen5	108.	106.	2 - 123T	1L	30.		
2-HLx5non5	107L	103T	34 - 1L1	4L	30.		
4-Chlorotoluen5	105b	108.	3 - 122M	2M	30.		
4-MLthyl-2-pent5non5	99L	9L	40 - 151L	1L	30.		
AcLton5	9L	90.	17 - 175b	0.	50.		
Bbnz5n5	95b	9L	77 - 119L	1L	30.		
Bbomobenz5n5	109L	108.	0 - 124L	1L	30.		
Bbomochloromethab5	101L	97L	10 - 150.	4L	30.		
Bbomodichloromethab5	101L	99L	7L- 127L	2M	30.		
Bbomoform.	104L	104L	2 - 133T	0.	30.		

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186057I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L0 57L1L	An5lysis Batch IDL	680-1L0 57L	Inst5ument IDL	MSO2M
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq21L.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 1014L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L13T2010 1014L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 57L19L	An5lysis Batch IDL	680-1L0 57L	Inst5ument IDL	MSO2M
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq21L.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 1042M			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L13T2010 1042M				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Bromomethan5	7L	9L	12 - 1L4L	20.	50.		
C5 bon disulfid,	7L	5b	55 - 131L	1L	30.		
C5 bon t5t5 chlorid,	99L	100.	71 - 135b	1L	30.		
Chlorobenz5n5	103T	103T	5 - 11L	1L	30.		
Chloroethan5	105b	108.	40 - 1L5b	3T	50.		
Chloroform.	104L	100.	2 - 120.	4L	30.		
Chloromethan5	102M	95b	4L- 142M		50.		
cis-1,2-Dichloroethbn5	102M	100.	9 - 134L	3T	30.		
cis-1,3-Dichloropropen5	105b	102M	7L- 12M	3T	30.		
Dibromochloromethan5	110.	107L	75 - 133T	3T	30.		
Dibromomethan5	97L	93T	7L- 119L	4L	30.		
Dichlorodifluoromethan5	101L	99L	34 - 154L	1L	30.		
Ethylbenz5n5	106.	104L	- 11L	1L	30.		
HLx5chlorobut5diLn5	123T	11L	2 - 142M	5b	30.		
Isopropylbenz5n5	92M	92M	2 - 121L	0.	30.		
MLthyl t5 t-butyl ethb	95b	94L	77 - 121L	1L	30.		
MLthyl5n5 Chlorid,	91L	90.	70 - 125b	2M	30.		
m-Xyl5n5 & p-Xyl5n5	107L	103T	3 - 11L	3T	30.		
N. phthal5n5	107L	102M	4L- 135b	4L	30.		
n-Butylbenz5n5	106.	104L	4 - 13T	1L	30.		
N-PFopylbenz5n5	112M	112M	0 - 12M	0.	30.		
o-Xyl5n5	103T	102M	3 - 119L	1L	30.		
p-Isopropyltoluen5	108.	105b	3 - 139L	3T	30.		
sFc-Butylbenz5n5	111L	108.	77 - 12M	3T	30.		
StyMn5	104L	102M	2 - 122M	2M	30.		
t5 t-Butylbenz5n5	106.	104L	0 - 124L	2M	30.		
TLt5 chloroethbn5	108.	107L	7L- 12M	1L	30.		
Toluen5	9L	97L	1 - 117L	1L	30.		
t5 ns-1,2-Dichloroethbn5	97L	95b	72 - 131L	1L	30.		
t5 ns-1,3-Dichloropropen5	106.	105b	73 - 12M	0.	30.		
TLichloroethbn5	103T	103T	4 - 115b	0.	30.		
TLichlorofluoromethan5	101L	100.	5b- 149L	1L	50.		
Vinyl . cLt5t5	90.		10 - 217L	3T	30.		

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186057l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L0 57L1L	An5lysis Batch ID	680-1L0 57L	Inst5ument IDL	MSO2M
CliLnt MLt ix5	WJt5	PFp Batch:	N/A5	L5b . il5 IDL	oq21L.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 1014L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L13T2010 1014L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 57L19L	An5lysis Batch ID	680-1L0 57L	Inst5ument IDL	MSO2M
CliLnt MLt ix5	WJt5	PFp Batch:	N/A5	L5b . il5 IDL	oq21L.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 1042M			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L13T2010 1042M				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Vinyl chlorid,	9L	99L	59 - 144L	1L	50.		
Xyl5n5s, Tot5l5	106.	103T	4 - 11L	3T	30.		

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5	92M	92M	75 - 120.
Dibromofluoromethab5	103T	101L	75 - 121L
Toluen5- d, (Surr)	99	100.	L 75 - 120.

Method Blank - Batch: 680-186094

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L0 94L1L	An5lysis Batch IDL	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLtrix	WJt5	PFp Batch IDN.	A5	L5b . il5 IDL	pq3T7.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 1147L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 1147L				

An lyt5	R sult5	Qu l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

CliLnt5 ARCADIS U.S., Inc.L

Job Number: 680-62923-1L

Method Blank - Batch: 680-186094

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L0 94L1L	An5lysis Batch ID	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLtrix	WJt5	PFp Batch ID	N.A5	L5b . il5 IDL	pq3T7.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 1147L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 1147L				

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethan5	1.0.	U	1.0.
Dichlorodifluoromethan5	1.0.	U	1.0.
DiLthyl eth	10.	UL	10.
Ethylbenz5n5	1.0.	U	1.0.
HLx5chlorobut5diLn5	1.0.	U	1.0.
Isopropylbenz5n5	1.0.	U	1.0.
MLthyl t5 t-butyl eth	10.	UL	10.
MLthyln5n5 Chlorid,	5.0.	UL	5.0.
m-Xyln5n5 & p-Xyln5n5	2.0.	UL	2.0.
N. phthal5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	U	1.0.
N-PFopylbenz5n5	1.0.	U	1.0.
o-Xyln5n5	1.0.	U	1.0.
p-Isopropyltoluen5	1.0.	U	1.0.
sFc-Butylbenz5n5	1.0.	U	1.0.
StyMn5	1.0.	U	1.0.
t5 t-Butylbenz5n5	1.0.	U	1.0.
TLt5 chloroeth5n5	1.0.	U	1.0.
Toluen5	1.0.	U	1.0.
t5 ns-1,2-Dichloroeth5n5	1.0.	U	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	U	1.0.
TLichloroeth5n5	1.0.	U	1.0.
TLichlorofluoromethan5	1.0.	U	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	U	1.0.
Xyln5n5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	Acclp t5ncL LimitsF
4-Bromofluorobenz5n5	91L	75 - 120.
Dibromofluoromethan5	9L	75 - 121L
Toluen5- d, (Surr)	95b	75 - 120.

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186094l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L0 94l4L	An5lysis Batch IDL	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLtrix	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq379.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 0949L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 0949L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 94l5b	An5lysis Batch IDL	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLtrix	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq3T1.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 1019L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L13T2010 1019L				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	101L	100.	1 - 12M	1L	30.	
1,1,1-TLichloroethab5	105b	102M	7L- 127L	3T	30.	
1,1,2,2-TLt5 chloroethab5		9L	9 - 129L	1L	30.	
1,1,2-TLichloroethab5		90.	75 - 121L	2M	30.	
1,1-Dichloroethab5	101L	9L	74 - 127L	3T	30.	
1,1-Dichloroethbn5	109L	103T	2 - 141L		30.	
1,1-Dichloropropen5	102M	99L	77 - 122M	3T	30.	
1,2,3-TLichlorobenz5n5	0.	1L	0 - 132M	1L	30.	
1,2,3-TLichloroprop. n5		7L	70 - 130.	2M	30.	
1,2,4-TLichlorobenz5n5	3T	2M	0 - 135b	1L	30.	
1,2,4-TLimethylbenz5n5	95b	94L	72 - 132M	1L	30.	
1,2-Dibromo-3-Chloroprop. n5		7L	49 - 140.	1L	30.	
1,2-Dibromoethab5	91L		0 - 121L	3T	30.	
1,2-Dichlorobenz5n5	9L	97L	79 - 124L	2M	30.	
1,2-Dichloroethab5	92M	92M	- 132M	1L	30.	
1,2-Dichloroethbn5, Tot5l5	102M	100.	- 134L	2M	30.	
1,2-Dichloroprop. n5	93T	91L	73 - 124L	2M	30.	
1,3,5-TLimethylbenz5n5	95b	92M	72 - 133T	3T	30.	
1,3-Dichlorobenz5n5	97L	97L	7L- 125b	0.	30.	
1,3-Dichloroprop. n5	90.	90.	75 - 120.	0.	30.	
1,4-Dichlorobenz5n5	9L	9L	1 - 122M	0.	30.	
2,2-Dichloroprop. n5	111L	106.	55 - 157L	5b	30.	
2-But5non5	94L	9L	33 - 157L	5b	30.	
2-Chlorotoluen5	9L	95b	2 - 123T	1L	30.	
2-HLx5non5	7L	90.	34 - 1L1L	3T	30.	
4-Chlorotoluen5	97L	95b	3 - 122M	2M	30.	
4-MLthyl-2-pent5non5	5b	7L	40 - 151L	2M	30.	
AcLton5	97L	101L	17 - 175b	4L	50.	
Bbnz5n5	97L	9L	77 - 119L	1L	30.	
Bbomobenz5n5	9L	9L	0 - 124L	1L	30.	
Bbomochloromethab5	93T	9L	10 - 150.	4L	30.	
Bbomodichloromethab5	97L	9L	7L- 127L	2M	30.	
Bbomoform.	101L	100.	2 - 133T	1L	30.	

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186094l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L0 94l4L	An5lysis Batch IDL	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq379.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 0949L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L13T2010 0949L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 94l5b	An5lysis Batch IDL	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq3T1.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L13T2010 1019L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L13T2010 1019L				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Btomomethab5	0.	45b	12 - 1L4L	29L	50.		
C5 bon disulfid,	106.	100.	55 - 131L		30.		
C5 bon t5t5 chlorid,	112M	106.	71 - 135b	5b	30.		
Chlorobenz5n5	95b	95b	5 - 11L	0.	30.		
Chloroethab5	99L	9L	40 - 1L5b	2M	50.		
Chloroform.	100.	9L	2 - 120.	2M	30.		
Chloromethab5	92M	7L	4L- 142M		50.		
cis-1,2-Dichloroethbn5	99L	97L	9 - 134L	2M	30.		
cis-1,3-Dichloropropen5	9L	9L	7L- 12M	0.	30.		
Dibromochloromethab5	100.	9L	75 - 133T	2M	30.		
Dibromomethab5	91L	91L	7L- 119L	0.	30.		
Dichlorodifluoromethab5	99L		34 - 154L	12M	30.		
DiLthyl ethb	110.	112M	70 - 130.	2M	30.		
Ethylbenz5n5	97L	93T	- 11L	4L	30.		
HLx5chlorobut5diLn5	101L	97L	2 - 142M	4L	30.		
Isopropylbenz5n5	102M	99L	2 - 121L	3T	30.		
MLthyl t5 t-butyl ethb	99L	9L	77 - 121L	1L	30.		
MLthyl5n5 Chlorid,	9L	9L	70 - 125b	0.	30.		
m-Xyl5n5 & p-Xyl5n5	9L	9L	3 - 11L	1L	30.		
N. phthalt5n5	71L	74L	4L- 135b	3T	30.		
n-Butylbenz5n5	93T	91L	4 - 13T	2M	30.		
N-PFopylbenz5n5	101L	99L	0 - 12M	2M	30.		
o-Xyl5n5	97L	9L	3 - 119L	1L	30.		
p-Isopropyltoluen5	9L	93T	3 - 139L	3T	30.		
sFc-Butylbenz5n5	9L	94L	77 - 12M	3T	30.		
StyMn5	9L	9L	2 - 122M	0.	30.		
t5 t-Butylbenz5n5	101L	9L	0 - 124L	3T	30.		
TLt5 chloroethbn5	106.	102M	7L- 12M	4L	30.		
Toluen5	9L	9L	1 - 117L	1L	30.		
t5 ns-1,2-Dichloroethbn5	105b	103T	72 - 131L	2M	30.		
t5 ns-1,3-Dichloropropen5	97L	9L	73 - 12M	1L	30.		
TLichloroethbn5	101L	97L	4 - 115b	4L	30.		
TLichlorofluoromethab5	151L	14L	5b- 149L	2M	50.	*L	

CliLnt5 ARCADIS U.S., Inc.L Job Number: 680-62923-1L

Lab Control Sample/D **Method: 8260B**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186094 **Preparation: 5030B**

LCS L5b SLmpl5 IDL	LCS 680-1L0 94l4L	An5lysis Batch5 IDL	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	pq379.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/V5olume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 0949L			in5l WJight/V5olume:.	5 mL5
DLt5 PFp. d,	11L13T2010 0949L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L0 94l5b	An5lysis Batch5 IDL	680-1L0 94L	Inst5ument IDL	MSPF
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	pq3T1.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/V5olume:.	5 mL5
DLt5 An5lyz5d,	11L13T2010 1019L			in5l WJight/V5olume:.	5 mL5
DLt5 PFp. d,	11L13T2010 1019L				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Vinyl . cLt5t5	105b	105b	10 - 217L	1L	30.	
Vinyl chlorid,	107L	101L	59 - 144L	5b	50.	
Xyl5n5s, Tot5l5	9L	97L	4 - 11L	1L	30.	

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Btomofluorobenz5n5	90.	90.	75 - 120.
Dibromofluoromethab5	100.	99L	75 - 121L
Toluen5- d, (Surr)	97	95b	L 75 - 120.

Method Blank - Batch: 680-186147I **Method: 8260BI**
Preparation: 5030BI

L5b SLmpl5 IDL MB 680-1L 147L11L
CliLnt MLt5x5 WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L14L2010 1235b
DLt5 PFp. d, 11L14L2010 1235b

An5lysis Batchb 680-1L 147L
PFp BatchbN.A5
UnitsF ugFL5

Inst5ument IDL MSOL
L5b . il5 IDL oq237.d,
InitiLI WJight/5Volume:. 5 mL5
in5I WJight/5Volume:. 5 mL5

An5lyt5	RLsult5	Qu. l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-186147

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL MB 680-1L 147L11L
CliLnt MLtrix WJt5
Dilution5 1.0.
DLt5 An5lyz5d, 11L14L2010 1235b
DLt5 PFp. d, 11L14L2010 1235b

An5lysis Batch 680-1L 147L
PFp Batch N.A5
UnitsF ugFL5

Inst5ument IDL MSOL
L5b . il5 IDL oq237.d,
InitiLl WJight/Volume:. 5 mL5
in5l WJight/Volume:. 5 mL5

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethan5	1.0.	UL	1.0.
Dichlorodifluoromethan5	1.0.	UL	1.0.
DiLthyl eth	10.	UL	10.
Ethylbenz5n5	1.0.	UL	1.0.
HLx5chlorobut5diLn5	1.0.	UL	1.0.
Isopropylbenz5n5	1.0.	UL	1.0.
MLthyl t5 t-butyl eth	10.	UL	10.
MLthyln5 Chlorid,	5.0.	UL	5.0.
m-Xyln5 & p-Xyln5	2.0.	UL	2.0.
N. phthal5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	UL	1.0.
N-PFopylbenz5n5	1.0.	UL	1.0.
o-Xyln5	1.0.	UL	1.0.
p-Isopropyltoluen5	1.0.	UL	1.0.
sFc-Butylbenz5n5	1.0.	UL	1.0.
StyMn5	1.0.	UL	1.0.
t5 t-Butylbenz5n5	1.0.	UL	1.0.
TLt5 chloroeth5n5	1.0.	UL	1.0.
Toluen5	1.0.	UL	1.0.
t5 ns-1,2-Dichloroeth5n5	1.0.	UL	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	UL	1.0.
TLichloroeth5n5	1.0.	UL	1.0.
TLichlorofluoromethan5	1.0.	UL	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	UL	1.0.
Xyln5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	Acclp t5ncL LimitsF	
4-Bromofluorobenz5n5	91L	75 - 120.	
Dibromofluoromethan5	90.	75 - 121L	
Toluen5- d, (Surr)	91	75 - 120.	L

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186147I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L 147L	An5lysis Batch IDL	680-1L 147L	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq229.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L14L2010 1041L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L14L2010 1041L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 147l9L	An5lysis Batch IDL	680-1L 147L	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq231.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L14L2010 1109L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L14L2010 1109L				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	104L	106.	1 - 12M	2M	30.	
1,1,1-TLichloroethab5	9L	100.	7L- 127L	2M	30.	
1,1,2,2-TLt5 chloroethab5	9L	94L	9 - 129L	3T	30.	
1,1,2-TLichloroethab5	97L	94L	75 - 121L	2M	30.	
1,1-Dichloroethab5	97L	97L	74 - 127L	0.	30.	
1,1-Dichloroethbn5	906.	3T	2 - 141L		30.	
1,1-Dichloropropen5	99L	9L	77 - 122M	0.	30.	
1,2,3-TLichlorobenz5n5	112M	111L	0 - 132M	1L	30.	
1,2,3-TLichloroprop. n5	106.	100.	70 - 1306.		30.	
1,2,4-TLichlorobenz5n5	95b	93T	0 - 135b	2M	30.	
1,2,4-TLimethylbenz5n5	104L	106.	72 - 132M	2M	30.	
1,2-Dibromo-3-Chloroprop. n5	108.	103T	49 - 140.	4L	30.	
1,2-Dibromoethab5	99L	95b	0 - 121L	4L	30.	
1,2-Dichlorobenz5n5	95b	94L	79 - 124L	1L	30.	
1,2-Dichloroethab5	99L	99L	- 132M	1L	30.	
1,2-Dichloroethbn5, Tot5l5	95b	9L	- 134L	2M	30.	
1,2-Dichloroprop. n5	94L	94L	73 - 124L	0.	30.	
1,3,5-TLimethylbenz5n5	105b	109L	72 - 133T	4L	30.	
1,3-Dichlorobenz5n5	102M	103T	7L- 125b	1L	30.	
1,3-Dichloroprop. n5	95b	93T	75 - 120.	2M	30.	
1,4-Dichlorobenz5n5	102M	105b	1 - 122M	3T	30.	
2,2-Dichloroprop. n5	106.	105b	55 - 157L	1L	30.	
2-But5non5	9L	91L	33 - 157L		30.	
2-Chlorotoluen5	104L	105b	2 - 123T	1L	30.	
2-HLx5non5	106.	101L	34 - 1L1L	5b	30.	
4-Chlorotoluen5	104L	105b	3 - 122M	0.	30.	
4-MLthyl-2-pent5non5	9L	94L	40 - 151L	4L	30.	
AcLton5	2M	77L	17 - 175b		50.	
Bbnz5n5	9L	95b	77 - 119L	1L	30.	
Bbomobenz5n5	106.	109L	0 - 124L	3T	30.	
Bbomochloromethab5	95b	95b	10 - 150.	0.	30.	
Bbomodichloromethab5	100.	97L	7L- 127L	3T	30.	
Bbomoform.	1106.	109L	2 - 133T	1L	30.	

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186147I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L 147L	An5lysis Batch IDL	680-1L 147L	Inst5ument IDL	MSOL
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq229.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L14L2010 1041L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L14L2010 1041L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 147l9L	An5lysis Batch IDL	680-1L 147L	Inst5ument IDL	MSOL
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq231.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L14L2010 1109L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L14L2010 1109L				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Bromomethab5	113T	15b	12 - 1L4L	32M	50.		
C5 bon disulfid,		0.	55 - 131L		30.		
C5 bon t5t5 chlorid,	103T	102M	71 - 135b	1L	30.		
Chlorobenz5n5	9L	9L	5 - 11L	1L	30.		
Chloroethab5	111L	7L	40 - 1L5b	35b	50.		
Chloroform.	102M	101L	2 - 120.	1L	30.		
Chloromethab5	92M	92M	4L- 142M	0.	50.		
cis-1,2-Dichloroethbn5	9L	100.	9 - 134L	2M	30.		
cis-1,3-Dichloropropen5	103T	100.	7L- 12M	3T	30.		
Dibromochloromethab5	108.	106.	75 - 133T	2M	30.		
Dibromomethab5	9L	93T	7L- 119L	2M	30.		
Dichlorodifluoromethab5	102M	100.	34 - 154L	3T	30.		
Ethylbenz5n5	103T	104L	- 11L	1L	30.		
HLx5chlorobut5diLn5	115b	114L	2 - 142M	0.	30.		
Isopropylbenz5n5	108.	110.	2 - 121L	2M	30.		
MLthyl t5 t-butyl ethb	99L	9L	77 - 121L	1L	30.		
MLthyl5n5 Chlorid,	94L	9L	70 - 125b		30.		
m-Xyl5n5 & p-Xyl5n5	102M	103T	3 - 11L	1L	30.		
N. phthal5n5	105b	105b	4L- 135b	0.	30.		
n-Butylbenz5n5	107L	109L	4 - 13T	1L	30.		
N-PFopylbenz5n5	104L	104L	0 - 12M	1L	30.		
o-Xyl5n5	107L	108.	3 - 119L	1L	30.		
p-Isopropyltoluen5	107L	109L	3 - 139L	1L	30.		
sFc-Butylbenz5n5	106.	107L	77 - 12M	1L	30.		
StyMn5	102M	103T	2 - 122M	2M	30.		
t5 t-Butylbenz5n5	108.	111L	0 - 124L	4L	30.		
TLt5 chloroethbn5	105b	102M	7L- 12M	2M	30.		
Toluen5	97L	9L	1 - 117L	1L	30.		
t5 ns-1,2-Dichloroethbn5	93T	9L	72 - 131L	3T	30.		
t5 ns-1,3-Dichloropropen5	105b	104L	73 - 12M	1L	30.		
TLichloroethbn5	9L	9L	4 - 115b	0.	30.		
TLichlorofluoromethab5	93T	4L	5b- 149L	10.	50.		
Vinyl . cLt5t5	104L	100.	10 - 217L	4L	30.		

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186147l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L 147L	An5lysis Batch5 IDL	680-1L 147L	Inst5ument IDL	MSOL
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	oq229.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L14l2010 1041L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L14l2010 1041L				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 147l9L	An5lysis Batch5 IDL	680-1L 147L	Inst5ument IDL	MSOL
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	oq231.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L14l2010 1109L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L14l2010 1109L				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Vinyl chlorid,	9L	99L	59 - 144L	2M	50.	
Xyl5n5s, Tot5l5	103T	104L	4 - 11L	1L	30.	

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5	94L	95b	75 - 120.
Dibromofluoromethab5	93T	91L	75 - 121L
Toluen5- d, (Surr)L	93T	93T	75 - 120.

Method Blank - Batch: 680-186273

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L 273T9L	An5lysis Batch	680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLt5x5	WJt5	PFp Batch	N.A5	L5b . il5 IDL	oq2M1.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1259L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1259L				

An lyt5	R sult5	Qu l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-186273

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L 273T9L	An5lysis Batch	680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLt5x5	WJt5	PFp Batch	N.A5	L5b . il5 IDL	oq2M1.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1259L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1259L				

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethab5	1.0.	U	1.0.
Dichlorodifluoromethab5	1.0.	U	1.0.
DiLthyl ethb	10.	UL	10.
Ethylbenz5n5	1.0.	U	1.0.
HLx5chlorobut5diLn5	1.0.	U	1.0.
Isopropylbenz5n5	1.0.	U	1.0.
MLthyl t5 t-butyl ethb	10.	UL	10.
MLthyl5n5 Chlorid,	5.0.	UL	5.0.
m-Xyl5n5 & p-Xyl5n5	2.0.	UL	2.0.
N. phthal5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	U	1.0.
N-PFopylbenz5n5	1.0.	U	1.0.
o-Xyl5n5	1.0.	U	1.0.
p-Isopropyltoluen5	1.0.	U	1.0.
sFc-Butylbenz5n5	1.0.	U	1.0.
StyMn5	1.0.	U	1.0.
t5 t-Butylbenz5n5	1.0.	U	1.0.
TLt5 chloroethbn5	1.0.	U	1.0.
Toluen5	1.0.	U	1.0.
t5 ns-1,2-Dichloroethbn5	1.0.	U	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	U	1.0.
TLichloroethbn5	1.0.	U	1.0.
TLichlorofluoromethab5	1.0.	U	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	U	1.0.
Xyl5n5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5	93T	75 - 120.
Dibromofluoromethab5	91L	75 - 121L
Toluen5- d, (Surr)	92M	75 - 120.

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186273l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L 273T4L	An5lysis Batch IDL	680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq273.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L1L 2010 0952M			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L1L 2010 0952M				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 273T7L	An5lysis Batch IDL	680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLtrix	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	oq275.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/Volume:.	5 mL5
DLt5 An5lyz5d,	11L1L 2010 1021L			in5l WJight/Volume:.	5 mL5
DLt5 PFp. d,	11L1L 2010 1021L				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	100.	105b	1 - 12M	5b	30.	
1,1,1-TLichloroethab5	93T	9L	7L- 127L	4L	30.	
1,1,2,2-TLt5 chloroethab5	94L	9L	9 - 129L	4L	30.	
1,1,2-TLichloroethab5	92M	95b	75 - 121L	3T	30.	
1,1-Dichloroethab5	9L	9L	74 - 127L	0.	30.	
1,1-Dichloroethbn5	9L	91L	2 - 141L	2M	30.	
1,1-Dichloropropen5	93T	9L	77 - 122M	3T	30.	
1,2,3-TLichlorobenz5n5	111L	11L	0 - 132M	4L	30.	
1,2,3-TLichloroprop. n5	103T	106.	70 - 130.	3T	30.	
1,2,4-TLichlorobenz5n5	91L	9L	0 - 135b	7L	30.	
1,2,4-TLimethylbenz5n5	103T	104L	72 - 132M	1L	30.	
1,2-Dibromo-3-Chloroprop. n5	102M	106.	49 - 140.	3T	30.	
1,2-Dibromoethab5	93T	99L	0 - 121L		30.	
1,2-Dichlorobenz5n5	93T	95b	79 - 124L	3T	30.	
1,2-Dichloroethab5	93T	97L	- 132M	5b	30.	
1,2-Dichloroethbn5, Tot5l5	9L	9L	- 134L	1L	30.	
1,2-Dichloroprop. n5	91L	92M	73 - 124L	2M	30.	
1,3,5-TLimethylbenz5n5	104L	106.	72 - 133T	1L	30.	
1,3-Dichlorobenz5n5	101L	103T	7L- 125b	2M	30.	
1,3-Dichloroprop. n5		94L	75 - 1206.		30.	
1,4-Dichlorobenz5n5	101L	102M	1 - 122M	1L	30.	
2,2-Dichloroprop. n5	104L	102M	55 - 157L	2M	30.	
2-But5non5	9L	91L	33 - 157L	2M	30.	
2-Chlorotoluen5	103T	104L	2 - 123T	1L	30.	
2-HLx5non5	97L	102M	34 - 1L1L		30.	
4-Chlorotoluen5	99L	104L	3 - 122M	4L	30.	
4-MLthyl-2-pent5non5	90.	95b	40 - 151L		30.	
AcLton5	74L	4L	17 - 175b	12M	50.	
Bbnz5n5	92M	9L	77 - 119L	4L	30.	
Bbomobenz5n5	105b	110.	0 - 124L	4L	30.	
Bbomochloromethab5	92M	94L	10 - 150.	3T	30.	
Bbomodichloromethab5	92M	9L	7L- 127L		30.	
Bbomoform.	106.	109L	2 - 133T	2M	30.	

Lab Control Sample/I **Method: 8260BI**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186273I **Preparation: 5030BI**

LCS L5b SLmpl5 IDL	LCS 680-1L 273T4L	An5lysis Batch IDL	chb 680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLt5x5	WJt5	PFp Batch IDL	chbN.A5	L5b . il5 IDL	oq273.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 0952M			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 0952M				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 273T7L	An5lysis Batch IDL	chb 680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLt5x5	WJt5	PFp Batch IDL	chbN.A5	L5b . il5 IDL	oq275.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1021L			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1021L				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Bbomomethab5	3T	5b	12 - 1L4L	3T	50.	
C5 bon disulfid,	7L	5b	55 - 131L	2M	30.	
C5 bon t5t5 chlorid,	94L	99L	71 - 135b	5b	30.	
Chlorobenz5n5	97L	100.	5 - 11L	3T	30.	
Chloroethab5	7L	1L	40 - 1L5b	19L	50.	
Chloroform.	101L	103T	2 - 120.	2M	30.	
Chloromethab5			4L- 142M	0.	50.	
cis-1,2-Dichloroethbn5	100.	100.	9 - 134L	0.	30.	
cis-1,3-Dichloropropen5	9L	102M	7L- 12M		30.	
Dibromochloromethab5	104L	108.	75 - 133T	4L	30.	
Dibromomethab5	90.	95b	7L- 119L	5b	30.	
Dichlorodifluoromethab5	101L	9L	34 - 154L	3T	30.	
Ethylbenz5n5	100.	103T	- 11L	3T	30.	
HLx5chlorobut5diLn5	113T	11L	2 - 142M	3T	30.	
Isopropylbenz5n5	106.	109L	2 - 121L	2M	30.	
MLthyl t5 t-butyl ethb	99L	102M	77 - 121L	2M	30.	
MLthyl5n5 Chlorid,	9L	95b	70 - 125b	1L	30.	
m-Xyl5n5 & p-Xyl5n5	101L	102M	3 - 11L	2M	30.	
N. phthal5n5	102M	110.	4L- 135b	7L	30.	
n-Butylbenz5n5	104L	105b	4 - 13T	2M	30.	
N-PFopylbenz5n5	102M	105b	0 - 12M	3T	30.	
o-Xyl5n5	103T	107L	3 - 119L	3T	30.	
p-Isopropyltoluen5	105b	105b	3 - 139L	1L	30.	
sFc-Butylbenz5n5	103T	103T	77 - 12M	0.	30.	
StyMn5	102M	103T	2 - 122M	1L	30.	
t5 t-Butylbenz5n5	109L	109L	0 - 124L	1L	30.	
TLt5 chloroethbn5	101L	106.	7L- 12M	5b	30.	
Toluen5	94L	9L	1 - 117L	2M	30.	
t5 ns-1,2-Dichloroethbn5	97L	95b	72 - 131L	2M	30.	
t5 ns-1,3-Dichloropropen5	97L	101L	73 - 12M	4L	30.	
TLichloroethbn5	91L	9L	4 - 115b	5b	30.	
TLichlorofluoromethab5	77L	0.	5b- 149L	5b	50.	
Vinyl . cLt5t5	101L	102M	10 - 217L	2M	30.	

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186273l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L 273T4L	An5lysis Batch5 IDL	680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	oq273.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/5Volume:.	5 mL5
DLt5 An5lyz5d,	11L1L 2010 0952M			in5l WJight/5Volume:.	5 mL5
DLt5 PFp. d,	11L1L 2010 0952M				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 273T7L	An5lysis Batch5 IDL	680-1L 273T	Inst5ument IDL	MSOL
CliLnt MLt ix5	WJt5	PFp Batch5 IDL	N/A5	L5b . il5 IDL	oq275.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/5Volume:.	5 mL5
DLt5 An5lyz5d,	11L1L 2010 1021L			in5l WJight/5Volume:.	5 mL5
DLt5 PFp. d,	11L1L 2010 1021L				

An5lyt5	LCSL	% RLc.L LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Vinyl chlorid,		5b	59 - 144L	1L	50.		
Xyl5n5s, Tot5l5	102M	104L	4 - 11L	2M	30.		

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF	
4-Bbomofluorobenz5n5	94L	9L		75 - 120.
Dibromofluoromethab5	93T	97L		75 - 121L
Toluen5-d, (Surr)	91	92M	L	75 - 120.

Method Blank - Batch: 680-186385I

Method: 8260BI
Preparation: 5030BI

L5b SLmpl5 IDL	MB 680-1L 3T5t22M	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDN.A5		L5b . il5 IDL	pq543.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1233T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1233T				

An5lyt5	RLsult5	Qu. l5	RL5
1,1,1,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,1-TLichloroethab5	1.0.	U	1.0.
1,1,2,2-TLt5 chloroethab5	1.0.	U	1.0.
1,1,2-TLichloroethab5	1.0.	U	1.0.
1,1-Dichloroethab5	1.0.	U	1.0.
1,1-Dichloroethbn5	1.0.	U	1.0.
1,1-Dichloropropen5	1.0.	U	1.0.
1,2,3-TLichlorobenz5n5	1.0.	U	1.0.
1,2,3-TLichloroprop. n5	1.0.	U	1.0.
1,2,4-TLichlorobenz5n5	1.0.	U	1.0.
1,2,4-TLimethylbenz5n5	1.0.	U	1.0.
1,2-Dibromo-3-Chloroprop. n5	1.0.	U	1.0.
1,2-Dibromoethab5	1.0.	U	1.0.
1,2-Dichlorobenz5n5	1.0.	U	1.0.
1,2-Dichloroethab5	1.0.	U	1.0.
1,2-Dichloroethbn5, Tot5l5	2.0.	UL	2.0.
1,2-Dichloroprop. n5	1.0.	U	1.0.
1,3,5-TLimethylbenz5n5	1.0.	U	1.0.
1,3-Dichlorobenz5n5	1.0.	U	1.0.
1,3-Dichloroprop. n5	1.0.	U	1.0.
1,4-Dichlorobenz5n5	1.0.	U	1.0.
2,2-Dichloroprop. n5	1.0.	U	1.0.
2-But5non5	10.	UL	10.
2-Chlorotoluen5	1.0.	U	1.0.
2-H x non5	10.	UL	10.
4-Chlorotoluen5	1.0.	U	1.0.
4-MLthyl-2-pent5non5	10.	UL	10.
Ac ton5	25b	UL	25b
B nz n5	1.0.	U	1.0.
Bbomobenz5n5	1.0.	U	1.0.
Bbomochloromethab5	1.0.	U	1.0.
Bbomodichloromethab5	1.0.	U	1.0.
Bbomoform.	1.0.	U	1.0.
Bbomomethab5	1.0.	U	1.0.
C5 bon disulfid,	2.0.	UL	2.0.
C5 bon t5t5 chlorid,	1.0.	U	1.0.
Chlorobenz5n5	1.0.	U	1.0.
Chloroethab5	1.0.	U	1.0.
Chloroform.	1.0.	U	1.0.
Chloromethab5	1.0.	U	1.0.
cis-1,2-Dichloroethbn5	1.0.	U	1.0.
cis-1,3-Dichloropropen5	1.0.	U	1.0.
Dibromochloromethab5	1.0.	U	1.0.

Method Blank - Batch: 680-186385

Method: 8260B
Preparation: 5030B

L5b SLmpl5 IDL	MB 680-1L 3T5b22M	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq543.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1233T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1233T				

An5lyt5	RLsult5	Qu. l5	RL5
Dibromomethab5	1.0.	UL	1.0.
Dichlorodifluoromethab5	1.0.	UL	1.0.
DiLthyl ethb	10.	UL	10.
Ethylbenz5n5	1.0.	UL	1.0.
HLx5chlorobut5diLn5	1.0.	UL	1.0.
Isopropylbenz5n5	1.0.	UL	1.0.
MLthyl t5 t-butyl ethb	10.	UL	10.
MLthyl5n5 Chlorid,	5.0.	UL	5.0.
m-Xyl5n5 & p-Xyl5n5	2.0.	UL	2.0.
N. phthal5n5	5.0.	UL	5.0.
n-Butylbenz5n5	1.0.	UL	1.0.
N-PFopylbenz5n5	1.0.	UL	1.0.
o-Xyl5n5	1.0.	UL	1.0.
p-Isopropyltoluen5	1.0.	UL	1.0.
sFc-Butylbenz5n5	1.0.	UL	1.0.
StyMn5	1.0.	UL	1.0.
t5 t-Butylbenz5n5	1.0.	UL	1.0.
TLt5 chloroethbn5	1.0.	UL	1.0.
Toluen5	1.0.	UL	1.0.
t5 ns-1,2-Dichloroethbn5	1.0.	UL	1.0.
t5 ns-1,3-Dichloropropen5	1.0.	UL	1.0.
TLichloroethbn5	1.0.	UL	1.0.
TLichlorofluoromethab5	1.0.	UL	1.0.
Vinyl . cLt5t5	2.0.	UL	2.0.
Vinyl chlorid,	1.0.	UL	1.0.
Xyl5n5s, Tot5l5	2.0.	UL	2.0.

SurrogFt5	% RLcL	Acclp t5ncL LimitsF
4-Bbomofluorobenz5n5		75 - 120.
Dibromofluoromethab5	91L	75 - 121L
Toluen5- d, (Surr)	100.	75 - 120.

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186385l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L 3T5bl9L	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq535.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1013T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1013T				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 3T5bl20.	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq537.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1043T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1043T				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
1,1,1,2-TLt5 chloroethab5	9L	95b	1 - 12M	2M	30.		
1,1,1-TLichloroethab5	95b	95b	7L- 127L	0.	30.		
1,1,2,2-TLt5 chloroethab5	9L	9L	9 - 129L	1L	30.		
1,1,2-TLichloroethab5	102M	101L	75 - 121L	1L	30.		
1,1-Dichloroethab5	104L	102M	74 - 127L	2M	30.		
1,1-Dichloroethbn5	100.	100.	2 - 141L	1L	30.		
1,1-Dichloropropen5	100.	9L	77 - 122M	2M	30.		
1,2,3-TLichlorobenz5n5	75b	75b	0 - 132M	0.	30.		
1,2,3-TLichloroprop. n5	7L	9L	70 - 130.	3T	30.		
1,2,4-TLichlorobenz5n5	7L	77L	0 - 135b	2M	30.		
1,2,4-TLimethylbenz5n5	9L	97L	72 - 132M	1L	30.		
1,2-Dibromo-3-Chloroprop. n5	3T	5b	49 - 140.	3T	30.		
1,2-Dibromoethab5	99L	9L	0 - 121L	1L	30.		
1,2-Dichlorobenz5n5	90.	91L	79 - 124L	1L	30.		
1,2-Dichloroethab5	101L	9L	- 132M	3T	30.		
1,2-Dichloroethbn5, Tot5l5	95b	97L	- 134L	1L	30.		
1,2-Dichloroprop. n5	112M	111L	73 - 124L	2M	30.		
1,3,5-TLimethylbenz5n5	9L	97L	72 - 133T	1L	30.		
1,3-Dichlorobenz5n5	91L	91L	7L- 125b	0.	30.		
1,3-Dichloroprop. n5	105b	105b	75 - 120.	1L	30.		
1,4-Dichlorobenz5n5	92M	92M	1 - 122M	0.	30.		
2,2-Dichloroprop. n5	106.	106.	55 - 157L	0.	30.		
2-But5non5	106.	108.	33 - 157L	2M	30.		
2-Chlorotoluen5	94L	93T	2 - 123T	1L	30.		
2-HLx5non5	114L	114L	34 - 1L1	1L	30.		
4-Chlorotoluen5	92M	94L	3 - 122M	2M	30.		
4-MLthyl-2-pent5non5	120.	117L	40 - 151L	3T	30.		
AcLton5	108.	106.	17 - 175b	2M	50.		
Bbnz5n5	103T	101L	77 - 119L	2M	30.		
Bbomobenz5n5		9L	0 - 124L	1L	30.		
Bbomochloromethab5	103T	102M	10 - 150.	1L	30.		
Bbomodichloromethab5	110.	110.	7L- 127L	1L	30.		
Bbomoform.	906.	90.	2 - 133T	0.	30.		

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186385l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L 3T5bl9L	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq535.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1013T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1013T				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 3T5bl20.	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq537.d,
Dilution5	1.0.	UnitsF ugFL5		InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1043T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1043T				

	% RLc.L					
An5lyt5	LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5 LCSD Qu. l5
Bbomomethab5	7L	0.	12 - 1L4L	3T	50.	
C5 bon disulfid,	101L	100.	55 - 131L	0.	30.	
C5 bon t5t5 chlorid,	103T	104L	71 - 135b	1L	30.	
Chlorobenz5n5	91L	92M	5 - 11L	1L	30.	
Chloroethab5	75b	70.	40 - 1L5b		50.	
Chloroform.	9L	97L	2 - 120.	0.	30.	
Chloromethab5	9L	9L	4L- 142M	0.	50.	
cis-1,2-Dichloroethbn5	94L	97L	9 - 134L	2M	30.	
cis-1,3-Dichloropropen5	114L	109L	7L- 12M	4L	30.	
Dibromochloromethab5	94L	94L	75 - 133T	0.	30.	
Dibromomethab5	103T	100.	7L- 119L	3T	30.	
Dichlorodifluoromethab5	101L	101L	34 - 154L	0.	30.	
DiLthyl ethb	120.	122M	70 - 130.	2M	30.	
Ethylbenz5n5	95b	93T	- 11L	2M	30.	
HLx5chlorobut5diLn5		5b	2 - 142M	1L	30.	
Isopropylbenz5n5	97L	97L	2 - 121L	0.	30.	
MLthyl t5 t-butyl ethb	9L	9L	77 - 121L	0.	30.	
MLthyl5n5 Chlorid,	9L	93T	70 - 125b	3T	30.	
m-Xyl5n5 & p-Xyl5n5	94L	93T	3 - 11L	1L	30.	
N. phthal5n5	2M		4L- 135b	5b	30.	
n-Butylbenz5n5	93T	94L	4 - 13T	1L	30.	
N-PFopylbenz5n5	95b	97L	0 - 12M	2M	30.	
o-Xyl5n5	9L	9L	3 - 119L	0.	30.	
p-Isopropyltoluen5	906.	90.	3 - 139L	0.	30.	
sFc-Butylbenz5n5	90.	92M	77 - 12M	2M	30.	
StyMn5	97L	9L	2 - 122M	1L	30.	
t5 t-Butylbenz5n5	9L	95b	0 - 124L	0.	30.	
TLt5 chloroethbn5	90.	9L	7L- 12M	1L	30.	
Toluen5	103T	102M	1 - 117L	1L	30.	
t5 ns-1,2-Dichloroethbn5	97L	97L	72 - 131L	0.	30.	
t5 ns-1,3-Dichloropropen5	110.	109L	73 - 12M	1L	30.	
TLichloroethbn5	100.	100.	4 - 115b	0.	30.	
TLichlorofluoromethab5	91L	90.	5b- 149L	1L	50.	

Lab Control Sample/l **Method: 8260Bl**
Lab Control Sample Duplicate Recovery Report - Batch: 680-186385l **Preparation: 5030Bl**

LCS L5b SLmpl5 IDL	LCS 680-1L 3T5bl9L	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	W t5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq535.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1013T			in5l WJight/5	Volume:. 5 mL5
D te P ep. d,	11L1L 2010 1013T				

LCSD L5b SLmpl5 IDL	LCSD 680-1L 3T5bl20.	An5lysis Batch IDL	680-1L 3T5b	Inst5ument IDL	MSPF
CliLnt MLt5x5	WJt5	PFp Batch IDL	N.A5	L5b . il5 IDL	pq537.d,
Dilution5	1.0.	UnitsF	ugFL5	InitiLl WJight/5	Volume:. 5 mL5
DLt5 An5lyz5d,	11L1L 2010 1043T			in5l WJight/5	Volume:. 5 mL5
DLt5 PFp. d,	11L1L 2010 1043T				

An5lyt5	% RLc.L LCSL	LCSDL	Limit5	RPDL	RPD Limit5	LCS Qu. l5	LCSD Qu. l5
Vinyl . cLt5t5	110.	107L	10 - 217L	3T	30.		
Vinyl chlorid,	92M	91L	59 - 144L	1L	50.		
Xyl5n5s, Tot5l5	94L	94L	4 - 11L	0.	30.		

SurrogFt5	LCS % RLcL	LCSD % RLcL	Acclp t5ncL LimitsF
4-Btomofluorobenz5n5	93T	92M	75 - 120.
Dibromofluoromethab5	95b	94L	75 - 121L
Toluen5-d, (Surr)L	103T	101L	75 - 120.

Serial Number 035087

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: UNC-Airport Road	PROJECT NO: NC000239.0018.00002	PROJECT LOCATION (STATE): NC	PAGE 1 OF 4
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX	DATE DUE
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 801 Corporate Center Dr., Ste. 300, Raleigh, NC 27607			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260)	REQUIRED ANALYSIS: HCl PRESERVATIVE	REMARKS
11-2-2010	1000	SW-3		X				3		
	1010	SW-2		X				3		
	1100	SW-4		X				3		
	1105	SW-5		X				3		
	1130	SW-6		X				3		
	1409	MW-36		X				3		
	1410	MW-4		X				3		
	1500	MW-30		X				3		
	1501	MW-31		X				3		
	1515	MW-5		X				3		
	1550	MW-32		X				3		
	1555	MW-35		X				3		

Page 138 of 142

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
David Swanley	11-5-10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Doughty	11/6/10	1034	YES ○ NO ○		680-62923	Temp 0.2

TAL.8240-680 (1008)

Serial Number 032149

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: UNC-Airport Road	PROJECT NO.: NC000739.0018.00002	PROJECT LOCATION (STATE): NC	PAGE 2 OF 4
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX:	DATE DUE:
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
CLIENT ADDRESS: 801 Corporate Center Dr. #300, Raleigh, NC 27607			DATE DUE:
COMPANY CONTRACTING THIS WORK (If applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: VOCs (8260)	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
11-2-2010	1636	MW-33		X						3	
11-3-2010	1015	MW-25		X						3	
11-3-2010	1120	MW-26		X						3	
11-3-2010	1140	MW-11		X						3	
11-3-2010	1335	MW-9		X						3	
11-3-2010	1425	MW-6		X						3	
11-3-2010	1435	MW-7		X						3	
11-3-2010	1600	SRW-1		X						3	
11-3-2010	1610	SRW-2		X						3	
11-3-2010	1620	SRW-3		X						3	
11-3-2010	1630	DRW-1		X						3	
11-3-2010	1640	DRW-2		X						3	

RELINQUISHED BY: (SIGNATURE)	DATE: 11-5-10	TIME: 1700	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE) / DATE / TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE) / DATE / TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Ruth A Doughtry	11/6/10	1034	YES ◯ NO ◯		680-60923	Temp 0.2

TAL8240-680 (1207)

Serial Number 033273

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
UNC-Airport Road	NC000239.0018.00002	NC
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX
CLIENT NAME: ArcadJS	CLIENT E-MAIL: apinnix@arcadis-us.com	
CLIENT ADDRESS: 801 Corporate Center Dr. #300, Raleigh, NC 27607		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 4

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED	REMARKS
								HCl: VOCs (8260)	
11-3-2010	1650	DRW-3	G	X				3	
11-4-2010	0920	MW-12	C	X				3	
	1000	MW-22	C	X				3	
	1055	MW-2	C	X				3	
	0911	MW-15	C	X				3	
	1155	MW-1	C	X				3	
	~	Dup-1	C	X				3	
	1403	MW-28	C	X				3	
	1412	MW-3	C	X				3	
11-5-2010	0830	MW-14	C	X				3	
	1235	MW-23	C	X				3	
	1350	MW-17	C	X				3	

PRESERVATIVE

Page 140 of 142

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
David Swanlay	11-5-10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	11/6/10	1034	YES ○ NO ○		680-62923	Temp 0.2

TAL.8240-680 (1008)

Serial Number 035436

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: UNC-Airport Rd.	PROJECT NO.: NC000239.0018.00002	PROJECT LOCATION (STATE): NC	PAGE 4 OF 4
TAL (LAB) PROJECT MANAGER: Kathy Smith	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Alan Pinnix	CLIENT PHONE: 919-854-1282	CLIENT FAX:	DATE DUE:
CLIENT NAME: ARCADIS	CLIENT E-MAIL: apinnix@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 801 Corporate Center Dr., Ste 300, Raleigh, NC 27607			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: HCL VOCs (8260)	REQUIRED ANALYSIS: PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
11-5-2010	1045	VER-1		X						3	
	1100	VER-2		X						3	
	1115	VER-3		X						3	
	1130	VER-4		X						3	
	1540	MW-16		X						3	
	0000	Trip Blank		X						2	

Page 141 of 142

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Neil Swanby	11-5-10	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughtry	11/6/10	1034	YES ○ NO ○		680-62923	Temp 0.2

TAL 8240-680 (1008)

Login Samcle ReMeM CheMk Listc

Client: ARCADIS U.S., Inc.L

Job Number: 680-62923-1l

Login Number: c 9c3T

List SourVe: TestAmerVa Sa vannahl

Creator: DaughIry, BeMl

List Number: 1

QuestioM	/ F/ N AM	CommeM
Radioactivity either L ab not meabured or, if meabured, iL at or beloL L backgroundc	TrueL	
The cooler'UcuLtody Leal, if preLent, iL intact.L	TrueL	
The cooler or LampleL do not appear to have been compromiLed or L tampered L ith.L	TrueL	
SampleL L ere received on ice.L	TrueL	
Cooler Temperature iL acceptable.L	TrueL	
Cooler Temperature iL recorded.L	TrueL	
COC iL preLent.L	TrueL	
COC iL filled out in ink. abd legible.L	TrueL	
COC iL filled out L ith all pertinent information.L	TrueL	
the Field Sampler'Uname preLent on COC?U	FalLeL	
There are no diLcrepabcieL betL een the Lample IDL on the containerL abd L the COC.L	TrueL	
SampleL are received L ithin Holding Time.L	TrueL	
Sample containerL have legible labelL.L	TrueL	
ContainerL are not broken or leaking.L	TrueL	
Sample collection date/timeL are provided.L	TrueL	
ppropriate Lample containerL are uLed.L	TrueL	
Sample bottleL are completely filled.L	TrueL	
Sample PreLervation Verifiedc	TrueL	
There iL Lufficient vol. for all requeLted abalyseL, incl. aby requeLted L MS/MSDL	TrueL	
VOcL ample vialL do not have headcpace or bubble iL <6mm (1/4") in L diameter.L	TrueL	
f neceL ary, Ltaff have been informed of aby Lh ort hold time or quick Tl T L ee dc	TrueL	
Multiphabic LampleL are not preLent.L	N/T	
SampleL do not require Lplitting or compoLiting.L	N/T	

ARCADIS

Appendix C

Laboratory Analytical Data Reports
for Air Discharge Samples

Research Triangle Park Laboratories, Inc.
7201 ACC Blvd., Suite 104
Raleigh, NC 27617

919 510-0228 Telephone
919 510-0141 Fax
Web Site: www.rtp-labs.com

February 17, 2010

ARCADIS G&M of North Carolina, Inc.
801 Corporate Center, Suite 300
Raleigh, NC 27607

Attn: Alan Pinnix

PROJECT: "UNC Airport Road"; Contract Number: NC000239.0018
RTP Labs ID: 10-036

Enclosed with this letter is the report on the chemical analysis for the two Tedlar bag samples received on February 11, 2010 for a normal turnaround. The samples were analyzed by EPA Method TO-15 GC/MS for 60 VOC target compounds and included benzene, chloroform; 1,2-dichloroethane; methylene chloride; 1,1,2,2-tetrachloroethane; trichloroethylene; trichlorofluoromethane; and vinyl chloride.

Please call if you have any questions.

Sincerely,

Alston Sykes

Alston Sykes, Principal Chemist

Attachments: GC/MS reports, COC forms

Research Triangle Park Laboratories, Inc.
7201 ACC Blvd., Suite 104
Raleigh, NC 27617

919 510-0228 Telephone
919 510-0141 Fax
Web Site: www.rtp-labs.com

EPA Method TO-15

GC/MS VOLATILE ORGANICS

Data File: c:\varianws\wsdatafiles\voc060109\10-036-01.sms **Acquisition Date:** 2/12/2010

Comment: Arcadis; UNC Airport; 2/1/10; Air Stripper; 10mL; DF=50

CAS NO.	COMPOUND	CONCENTRATION	UNITS	MDL and Reporting Limit
75-71-8	Dichlorodifluoromethane (Freon 12)	Not Found	ppbv	0.5
76-14-2	1,2-Chloro-1,1,2,2-Tetrafluoroethane	Not Found	ppbv	0.5
74-87-3	Chloromethane	Not Found	ppbv	0.5
75-01-4	Vinyl chloride	Not Found	ppbv	0.5
106-99-0	1,3-Butadiene	Not Found	ppbv	0.5
74-83-9	Bromomethane	Below MDL	ppbv	0.5
75-00-3	Chloroethane	Not Found	ppbv	0.5
75-69-4	Trichloromonofluoromethane	0.60	ppbv	0.5
75-35-4	1,1-dichloroethene	Not Found	ppbv	0.5
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane	Not Found	ppbv	0.5
64-17-5	Ethanol	Not Found	ppbv	0.5
75-15-0	Carbon disulfide	Not Found	ppbv	0.5
67-63-0	Isopropyl alcohol	2.72	ppbv	0.5
75-09-2	Methylene chloride	2.53	ppbv	0.5
67-64-1	Acetone	2.86	ppbv	0.5
156-60-5	t-1,2-dichloroethene	Not Found	ppbv	0.5
11-05-3	Hexane	Below MDL	ppbv	0.5
1634-04-4	Methyl-t-butyl ether (MTBE)	Not Found	ppbv	0.5
75-34-3	1,1-Dichloroethane	Not Found	ppbv	0.5
108-05-4	Vinyl acetate	2.40	ppbv	0.5
156-59-2	cis-1,2-dichloroethene	Not Found	ppbv	0.5
110-82-7	Cyclohexane	0.81	ppbv	0.5
67-66-3	Chloroform	4.07	ppbv	0.5
141-78-6	Ethyl Acetate	Not Found	ppbv	0.5
109-99-9	Tetrahydrofuran	6.12	ppbv	0.5
71-55-6	1,1,1-trichloroethane	Not Found	ppbv	0.5
56-23-5	Carbon Tetrachloride	0.55	ppbv	0.5
78-93-3	2-Butanone	Not Found	ppbv	0.5
142-82-5	Heptane	1.28	ppbv	0.5
71-43-2	Benzene	2.61	ppbv	0.5
107-06-2	1,2-dichloroethane	Not Found	ppbv	0.5
79-01-6	Trichloroethylene	Not Found	ppbv	0.5
78-87-5	1,2-dichloropropane	Not Found	ppbv	0.5
75-27-4	Bromodichloromethane	Not Found	ppbv	0.5
123-91-1	1,4-dioxane	1.61	ppbv	0.5
10061-01-5	cis-1,3-dichloropropene	Not Found	ppbv	0.5
108-88-3	Toluene	Not Found	ppbv	0.5
108-10-1	4-Methyl-2-pentanone (MIBK)	61.88	ppbv	0.5
1006-02-6	t-1,3-dichloropropene	Not Found	ppbv	0.5
127-18-4	Tetrachloroethylene	Not Found	ppbv	0.5
79-00-5	1,1,2-trichloroethane	Not Found	ppbv	0.5
124-48-1	Dibromochloromethane	Not Found	ppbv	0.5
106-93-4	1,2-dibromoethane	Not Found	ppbv	0.5
591-78-6	2-Hexanone	Not Found	ppbv	0.5
100-41-4	Ethylbenzene	0.77	ppbv	0.5
108-90-7	Chlorobenzene	Not Found	ppbv	0.5
1330-20-7	m/p-Xylene	Below MDL	ppbv	0.5
95-47-6	o-Xylene	Not Found	ppbv	0.5
100-42-5	Styrene	Not Found	ppbv	0.5
75-25-2	Tribromomethane	Not Found	ppbv	0.5
79-34-5	1,1,2,2-tetrachloroethane	Not Found	ppbv	0.5
622-96-8	1-ethyl-4-methylbenzene	Not Found	ppbv	0.5
108-67-8	1,3,5-trimethylbenzene	Not Found	ppbv	0.5
95-63-6	1,2,4-trimethylbenzene	Not Found	ppbv	0.5
541-73-1	1,3-dichlorobenzene	Not Found	ppbv	0.5
106-46-7	1,4-dichlorobenzene	Not Found	ppbv	0.5
100-44-7	Benzyl chloride	Not Found	ppbv	0.5
95-50-1	1,2-dichlorobenzene	Not Found	ppbv	0.5
87-68-3	1,1,2,3,4,4-hexachloro-1,3-butadiene	Not Found	ppbv	0.5
120-82-1	1,2,4-trichlorobenzene	Not Found	ppbv	0.5

Research Triangle Park Laboratories, Inc.
7201 ACC Blvd., Suite 104
Raleigh, NC 27617

919 510-0228 Telephone
919 510-0141 Fax
Web Site: www.rtp-labs.com

TENTATIVELY IDENTIFIED COMPOUNDS

EPA Method TO-15

GC/MS VOLATILE ORGANICS

Data File: c:\varianws\wsdatafiles\voc060109\10-036-01.sms
Acquisition Date: 2/12/2010

Comment: Arcadis; UNC Airport; 2/1/10; Air Stripper; 10mL; DF=50

CAS NO.	COMPOUND NAME	Retention Time	Estimated Concentration,	
69483-50-7	5.alpha.,8.alpha.,14.beta.-Cholestane-3,	2.99	**32.72**	ppbv
15402-84-3	2-Amino-1-(o-methoxyphenyl)propane	8.18	**213.38**	ppbv
66830-56-6	N-Dimethylaminomethyl-tert.-butylphenylp	8.40	**17.59**	ppbv
104704-05-	Trimethyl-.beta.-isoluteone	8.48	**27.46**	ppbv
22520-39-4	meso-3,4-Hexanediol	11.2	**40.49**	ppbv
105774-08-	1,3,5-Triazine-2,4-diamine, 6-chloro-N,N	11.5	**11.57**	ppbv
75629-02-6	2-(2',3'-Dimethoxy-4',5'-methylenedioxyp	11.6	**14.02**	ppbv
70477-20-2	2,2'-Bifuran, 5,5'-dibromo-	18.6	**9.44**	ppbv
118481-71-	4-Bromo-4'-[(1-ethoxycarbonylethyl)oxy]-	21.7	**30.00**	ppbv
27126-22-3	Heptane, 4-azido-	21.8	**210.81**	ppbv
58422-92-7	Ethaneperoxoic acid, 1-cyano-1-[2-(2-phe	21.9	**26.36**	ppbv
76100-13-5	Propanedinitrile, 2-(5-phenylthio-2-thie	23.2	**225.75**	ppbv
1714-14-3	9,10-Anthracenedione, 1-phenyl-	23.7	**13000.23**	ppbv
17071-54-4	Hexyl octyl ether	25.0	**469.28**	ppbv
29812-79-1	Hydroxylamine, O-decyl-	25.1	**187.08**	ppbv
77892-03-6	3-Chloro-4-phenoxy-5,6-diphenylpyridazin	25.9	**923.98**	ppbv
24126-93-0	4H-1-Benzopyran-4-one, 3-(3,4-dimethoxyp	27.9	**178.87**	ppbv
40571-17-3	2,5-Methano-1H-inden-7-ol, octahydro-7-[	29.8	**12.88**	ppbv

(IS) is BFB Internal Standard and (SS) are Surrogate Standards that are added to each sample.

Research Triangle Park Laboratories, Inc.
7201 ACC Blvd., Suite 104
Raleigh, NC 27617

919 510-0228 Telephone
919 510-0141 Fax
Web Site: www.rtp-labs.com

EPA Method TO-15

GC/MS VOLATILE ORGANICS

Data File: c:\varianws\wsdatafiles\voc060109\10-036-02.sms **Acquisition Date:** 2/12/2010

Comment: Arcadis; UNC Airport; 2/1/10; VER Discharge; 10mL; DF=50

CAS NO.	COMPOUND	CONCENTRATION	UNITS	MDL and Reporting Limit
75-71-8	Dichlorodifluoromethane (Freon 12)	Not Found	ppbv	0.5
76-14-2	1,2-Chloro-1,1,2,2-Tetrafluoroethane	Not Found	ppbv	0.5
74-87-3	Chloromethane	Not Found	ppbv	0.5
75-01-4	Vinyl chloride	Not Found	ppbv	0.5
106-99-0	1,3-Butadiene	Not Found	ppbv	0.5
74-83-9	Bromomethane	Below MDL	ppbv	0.5
75-00-3	Chloroethane	Not Found	ppbv	0.5
75-69-4	Trichloromonofluoromethane	0.93	ppbv	0.5
75-35-4	1,1-dichloroethene	Not Found	ppbv	0.5
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane	Not Found	ppbv	0.5
64-17-5	Ethanol	4.49	ppbv	0.5
75-15-0	Carbon disulfide	Not Found	ppbv	0.5
67-63-0	Isopropyl alcohol	Not Found	ppbv	0.5
75-09-2	Methylene chloride	3.48	ppbv	0.5
67-64-1	Acetone	Not Found	ppbv	0.5
156-60-5	t-1,2-dichloroethene	Not Found	ppbv	0.5
11-05-3	Hexane	Below MDL	ppbv	0.5
1634-04-4	Methyl-t-butyl ether (MTBE)	Not Found	ppbv	0.5
75-34-3	1,1-Dichloroethane	Not Found	ppbv	0.5
108-05-4	Vinyl acetate	1.89	ppbv	0.5
156-59-2	cis-1,2-dichloroethene	Not Found	ppbv	0.5
110-82-7	Cyclohexane	0.91	ppbv	0.5
67-66-3	Chloroform	17.42	ppbv	0.5
141-78-6	Ethyl Acetate	Not Found	ppbv	0.5
109-99-9	Tetrahydrofuran	31.35	ppbv	0.5
71-55-6	1,1,1-trichloroethane	Not Found	ppbv	0.5
56-23-5	Carbon Tetrachloride	0.55	ppbv	0.5
78-93-3	2-Butanone	Not Found	ppbv	0.5
142-82-5	Heptane	1.01	ppbv	0.5
71-43-2	Benzene	19.33	ppbv	0.5
107-06-2	1,2-dichloroethane	Not Found	ppbv	0.5
79-01-6	Trichloroethylene	6.97	ppbv	0.5
78-87-5	1,2-dichloropropane	Not Found	ppbv	0.5
75-27-4	Bromodichloromethane	Not Found	ppbv	0.5
123-91-1	1,4-dioxane	11.90	ppbv	0.5
10061-01-5	cis-1,3-dichloropropene	Not Found	ppbv	0.5
108-88-3	Toluene	8.27	ppbv	0.5
108-10-1	4-Methyl-2-pentanone (MIBK)	136.56	ppbv	0.5
1006-02-6	t-1,3-dichloropropene	Not Found	ppbv	0.5
127-18-4	Tetrachloroethylene	Not Found	ppbv	0.5
79-00-5	1,1,2-trichloroethane	Not Found	ppbv	0.5
124-48-1	Dibromochloromethane	Not Found	ppbv	0.5
106-93-4	1,2-dibromoethane	Not Found	ppbv	0.5
591-78-6	2-Hexanone	Not Found	ppbv	0.5
100-41-4	Ethylbenzene	1.49	ppbv	0.5
108-90-7	Chlorobenzene	Not Found	ppbv	0.5
1330-20-7	m/p-Xylene	Below MDL	ppbv	0.5
95-47-6	o-Xylene	1.00	ppbv	0.5
100-42-5	Styrene	Not Found	ppbv	0.5
75-25-2	Tribromomethane	8.56	ppbv	0.5
79-34-5	1,1,2,2-tetrachloroethane	Not Found	ppbv	0.5
622-96-8	1-ethyl-4-methylbenzene	Not Found	ppbv	0.5
108-67-8	1,3,5-trimethylbenzene	Not Found	ppbv	0.5
95-63-6	1,2,4-trimethylbenzene	0.87	ppbv	0.5
541-73-1	1,3-dichlorobenzene	Not Found	ppbv	0.5
106-46-7	1,4-dichlorobenzene	Not Found	ppbv	0.5
100-44-7	Benzyl chloride	Not Found	ppbv	0.5
95-50-1	1,2-dichlorobenzene	Not Found	ppbv	0.5
87-68-3	1,1,2,3,4,4-hexachloro-1,3-butadiene	Not Found	ppbv	0.5
120-82-1	1,2,4-trichlorobenzene	Not Found	ppbv	0.5

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TENTATIVELY IDENTIFIED COMPOUNDS

EPA Method TO-15

GC/MS VOLATILE ORGANICS

Data File: c:\varianws\wsdatafiles\voc060109\10-036-02.sms **Acquisition Date:** 2/12/2010

Comment: Arcadis; UNC Airport; 2/1/10; VER Discharge; 10mL; DF=50

CAS NO.	COMPOUND NAME	Retention Time	Estimated Concentration,	
21618-99-5	5-(2-Aminopropyl)-2-methylphenol	8.17	**161.55**	ppbv
21618-99-5	5-(2-Aminopropyl)-2-methylphenol	8.27	**42.64**	ppbv
12128-90-4	Dichloro tetra(cyclopentadienyl)diytterb	9.47	**21.97**	ppbv
19682-30-5	7a-Aza-B-homocholesta-3,5-dien-7-one	18.8	**27.65**	ppbv
70028-64-7	Methyl 7-ethyl-10-(heptafluorobutyryloxy	19.3	**31.40**	ppbv
5426-43-7	Pentyl glycolate	19.3	**23.84**	ppbv
2034-69-7	Coumarin, 7-hydroxy-6-methoxy-3,7'-oxydi	19.7	**30.55**	ppbv
71339-49-6	(3R,2E)-2-(Hexadec-15-ynylidene)-3-hydro	21.5	**47.22**	ppbv
67587-04-6	Propanedioic acid, (bromomethyl)methyl-,	21.7	**31.02**	ppbv
27126-22-3	Heptane, 4-azido-	21.8	**236.43**	ppbv
63523-85-3	1-Methyl-bis(1,2,4)-triazole-5,1'	21.9	**61.92**	ppbv
84854-43-3	3-Methyl-10,10-diphenyl-9-(.beta.-cyanoe	22.4	**27.72**	ppbv
76100-13-5	Propanedinitrile, 2-(5-phenylthio-2-thie	23.2	**262.77**	ppbv
70925-30-3	cis-1-Acetamido-3-(p-toluenesulfonamido)	23.4	**31.19**	ppbv
629-92-5	Nonadecane	25.1	**203.62**	ppbv
76100-13-5	Propanedinitrile, 2-(5-phenylthio-2-thie	25.9	**867.71**	ppbv
17302-36-2	5-Ethyldecane	27.7	**44.57**	ppbv
24126-93-0	4H-1-Benzopyran-4-one, 3-(3,4-dimethoxyp	27.9	**168.38**	ppbv

(IS) is BFB Internal Standard and (SS) are Surrogate Standards that are added to each sample.

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Client (Billing): ARCADIS	Send Report To Attention: ALAN PINNIX	Phone Number: (919) 854-1282	Fax Number (919) 854-5448	Date:	
Address: 801 CORPORATE CENTER DRIVE		E-Mail: APINNIX@ARCADIS-US.COM		Page 1 of 1	
City: RALEIGH	State: NC	Zip Code: 27607	Requested Analyses	RTP Labs Project Tracking Number: 10-036	
Contract/Purchase Order No.: NC000239.0011	Project Name: UNC AIRPORT ROAD WASTE DISPOSAL AREA				

Comments:

	Sample ID No. & Description	Date Sampled	TIME (AM / PM)	Matrix: Ambient Air	Matrix: Source	Matrix: Liquid/Solid	Compliance Test	Preservatives	# of Containers	TO-15	Air Samples Summa Canisters Vacuum or Pressure: Field Initial	Field Final	Lab Receipt	Lab Final psig	Tracking # Sample Fraction
1	AIR STRIPPER	2/11/10	0845		X				1	X					01
2	VER DISCHARGE	↓	0855		X				1	X					02
3															
4															
5															
6															
7															
8															
9															
10															

Turn Around Time Requested for Report: Business Days; *Rush Multipliers (Xx)
☐ 1 day*(4x) ☐ 2 days*(3x) ☐ 3 days*(2x) ☐ 5 days*(1.5x) ☐ 10 days*(1.1x) ☒ 15 days

Data Pack: Std ☒ Full ☐ 1.1x surcharge
Electronic Deliverable: ☐ 1.1x surcharge

QC Requirements: Screen ☐ Standard ☐
EPA Level IV for Compliance ☐
Routine approved QAPP sent to lab

	Date:	Time:	Received By:	Date:	Time:
Relinquished By: Alan Pinnix	2/11/10	1220	Ann Rand	2/11/10	12:20

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August 4, 2010

ARCADIS G&M of North Carolina, Inc.
801 Corporate Center, Suite 300
Raleigh, NC 27607

Attn: Alan Pinnix

PROJECT: "UNC Airport Road"; Contract Number: NC000239.0018
RTP Labs ID: 10-222

Enclosed with this letter is the report on the chemical analysis for the two Tedlar bag samples received on July 27, 2010 for a normal turnaround. The samples were analyzed by EPA Method TO-15 GC/MS for 60 VOC target compounds and included benzene, chloroform; 1,2-dichloroethane; methylene chloride; 1,1,2,2-tetrachloroethane; trichloroethylene; trichlorofluoromethane; and vinyl chloride.

Please call if you have any questions.

Sincerely,

Alston Sykes

Alston Sykes, Principal Chemist

Attachments: GC/MS reports, COC forms

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EPA Method TO-15

GC/MS VOLATILE ORGANICS

Data File: c:\varianws\wsdatafiles\voc062910\10-222-01.sms
Acquisition Date: 7/28/2010

Comment: Arcadis/UNC Airport Rd; 7/27/10; Air Stripper, 10mL

CAS NO.	COMPOUND	CONCENTRATION	UNITS	MDL and Reporting Limit
75-71-8	Dichlorodifluoromethane (Freon 12)	Not Found	ppbv	1
76-14-2	1,2-Chloro-1,1,2,2-Tetrafluoroethane	Not Found	ppbv	1
74-87-3	Chloromethane	Not Found	ppbv	1
75-01-4	Vinyl chloride	Not Found	ppbv	1
106-99-0	1,3-Butadiene	Not Found	ppbv	1
74-83-9	Bromomethane	Not Found	ppbv	1
75-00-3	Chloroethane	Not Found	ppbv	1
75-69-4	Trichloromonofluoromethane	Not Found	ppbv	1
75-35-4	1,1-dichloroethene	Not Found	ppbv	1
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane	Not Found	ppbv	1
64-17-5	Ethanol	Not Found	ppbv	1
75-15-0	Carbon disulfide	Not Found	ppbv	1
67-63-0	Isopropyl alcohol	28.80	ppbv	1
75-09-2	Methylene chloride	10.12	ppbv	1
67-64-1	Acetone	110.32	ppbv	1
156-60-5	t-1,2-dichloroethene	Not Found	ppbv	1
11-05-3	Hexane	9.51	ppbv	1
1634-04-4	Methyl-t-butyl ether (MTBE)	Not Found	ppbv	1
75-34-3	1,1-Dichloroethane	Not Found	ppbv	1
108-05-4	Vinyl acetate	Not Found	ppbv	1
156-59-2	cis-1,2-dichloroethene	Not Found	ppbv	1
110-82-7	Cyclohexane	2.69	ppbv	1
67-66-3	Chloroform	2.28	ppbv	1
141-78-6	Ethyl Acetate	Not Found	ppbv	1
109-99-9	Tetrahydrofuran	4.84	ppbv	1
71-55-6	1,1,1-trichloroethane	Not Found	ppbv	1
56-23-5	Carbon Tetrachloride	Not Found	ppbv	1
78-93-3	2-Butanone	Not Found	ppbv	1
142-82-5	Heptane	Not Found	ppbv	1
71-43-2	Benzene	2.63	ppbv	1
107-06-2	1,2-dichloroethane	Not Found	ppbv	1
79-01-6	Trichloroethylene	Not Found	ppbv	1
78-87-5	1,2-dichloropropane	Not Found	ppbv	1
75-27-4	Bromodichloromethane	Not Found	ppbv	1
123-91-1	1,4-dioxane	3.72	ppbv	1
10061-01-5	cis-1,3-dichloropropene	Not Found	ppbv	1
108-88-3	Toluene	1.98	ppbv	1
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Found	ppbv	1
1006-02-6	t-1,3-dichloropropene	Not Found	ppbv	1
127-18-4	Tetrachloroethylene	Not Found	ppbv	1
79-00-5	1,1,2-trichloroethane	Not Found	ppbv	1
124-48-1	Dibromochloromethane	Not Found	ppbv	1
106-93-4	1,2-dibromoethane	Not Found	ppbv	1
591-78-6	2-Hexanone	Not Found	ppbv	1
100-41-4	Ethylbenzene	Below MDL	ppbv	1
108-90-7	Chlorobenzene	Not Found	ppbv	1
1330-20-7	m/p-Xylene	1.48	ppbv	1
95-47-6	o-Xylene	Not Found	ppbv	1
100-42-5	Styrene	Not Found	ppbv	1
75-25-2	Tribromomethane	Not Found	ppbv	1
79-34-5	1,1,2,2-tetrachloroethane	Not Found	ppbv	1
622-96-8	1-ethyl-4-methylbenzene	Not Found	ppbv	1
108-67-8	1,3,5-trimethylbenzene	Not Found	ppbv	1
95-63-6	1,2,4-trimethylbenzene	Not Found	ppbv	1
541-73-1	1,3-dichlorobenzene	Not Found	ppbv	1
106-46-7	1,4-dichlorobenzene	Not Found	ppbv	1
100-44-7	Benzyl chloride	Not Found	ppbv	1
95-50-1	1,2-dichlorobenzene	Not Found	ppbv	1
87-68-3	1,1,2,3,4,4-hexachloro-1,3-butadiene	Not Found	ppbv	1
120-82-1	1,2,4-trichlorobenzene	Not Found	ppbv	1

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EPA Method TO-15

GC/MS VOLATILE ORGANICS

Data File: c:\varianws\wsdatafiles\voc062910\10-222-02.sms **Acquisition Date:** 7/28/2010

Comment: Arcadis/UNC Airport Rd; 7/27/10; VER Discharge, 10mL

CAS NO.	COMPOUND	CONCENTRATION	UNITS	MDL and Reporting Limit
75-71-8	Dichlorodifluoromethane (Freon 12)	Not Found	ppbv	1
76-14-2	1,2-Chloro-1,1,2,2-Tetrafluoroethane	Not Found	ppbv	1
74-87-3	Chloromethane	8.22	ppbv	1
75-01-4	Vinyl chloride	Not Found	ppbv	1
106-99-0	1,3-Butadiene	Not Found	ppbv	1
74-83-9	Bromomethane	33.64	ppbv	1
75-00-3	Chloroethane	Not Found	ppbv	1
75-69-4	Trichloromonofluoromethane	Not Found	ppbv	1
75-35-4	1,1-dichloroethene	Not Found	ppbv	1
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane	Not Found	ppbv	1
64-17-5	Ethanol	Not Found	ppbv	1
75-15-0	Carbon disulfide	Not Found	ppbv	1
67-63-0	Isopropyl alcohol	11.90	ppbv	1
75-09-2	Methylene chloride	11.88	ppbv	1
67-64-1	Acetone	42.45	ppbv	1
156-60-5	t-1,2-dichloroethene	Not Found	ppbv	1
11-05-3	Hexane	Not Found	ppbv	1
1634-04-4	Methyl-t-butyl ether (MTBE)	Not Found	ppbv	1
75-34-3	1,1-Dichloroethane	Not Found	ppbv	1
108-05-4	Vinyl acetate	Not Found	ppbv	1
156-59-2	cis-1,2-dichloroethene	Not Found	ppbv	1
110-82-7	Cyclohexane	2.72	ppbv	1
67-66-3	Chloroform	28.58	ppbv	1
141-78-6	Ethyl Acetate	Not Found	ppbv	1
109-99-9	Tetrahydrofuran	7.18	ppbv	1
71-55-6	1,1,1-trichloroethane	Not Found	ppbv	1
56-23-5	Carbon Tetrachloride	Not Found	ppbv	1
78-93-3	2-Butanone	Not Found	ppbv	1
142-82-5	Heptane	Not Found	ppbv	1
71-43-2	Benzene	34.48	ppbv	1
107-06-2	1,2-dichloroethane	Not Found	ppbv	1
79-01-6	Trichloroethylene	1.40	ppbv	1
78-87-5	1,2-dichloropropane	Not Found	ppbv	1
75-27-4	Bromodichloromethane	Not Found	ppbv	1
123-91-1	1,4-dioxane	3.90	ppbv	1
10061-01-5	cis-1,3-dichloropropene	Not Found	ppbv	1
108-88-3	Toluene	1.18	ppbv	1
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Found	ppbv	1
1006-02-6	t-1,3-dichloropropene	Not Found	ppbv	1
127-18-4	Tetrachloroethylene	Not Found	ppbv	1
79-00-5	1,1,2-trichloroethane	Not Found	ppbv	1
124-48-1	Dibromochloromethane	Not Found	ppbv	1
106-93-4	1,2-dibromoethane	Not Found	ppbv	1
591-78-6	2-Hexanone	Not Found	ppbv	1
100-41-4	Ethylbenzene	Below MDL	ppbv	1
108-90-7	Chlorobenzene	Not Found	ppbv	1
1330-20-7	m/p-Xylene	Not Found	ppbv	1
95-47-6	o-Xylene	Not Found	ppbv	1
100-42-5	Styrene	Not Found	ppbv	1
75-25-2	Tribromomethane	Not Found	ppbv	1
79-34-5	1,1,2,2-tetrachloroethane	3.46	ppbv	1
622-96-8	1-ethyl-4-methylbenzene	Not Found	ppbv	1
108-67-8	1,3,5-trimethylbenzene	Not Found	ppbv	1
95-63-6	1,2,4-trimethylbenzene	Not Found	ppbv	1
541-73-1	1,3-dichlorobenzene	Not Found	ppbv	1
106-46-7	1,4-dichlorobenzene	Not Found	ppbv	1
100-44-7	Benzyl chloride	Not Found	ppbv	1
95-50-1	1,2-dichlorobenzene	Not Found	ppbv	1
87-68-3	1,1,2,3,4,4-hexachloro-1,3-butadiene	Not Found	ppbv	1
120-82-1	1,2,4-trichlorobenzene	Not Found	ppbv	1

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Client (Billing): ARCADIS
Send Report To Attention: ALAN PINNIX
Phone Number: (919)854-1282
Fax Number: (919)854-5448
Date:

Address: 801 CORPORATE CENTER DRIVE
E-Mail: APINNIX@ARCADIS-US.COM
Page 1 of 1

City: RALEIGH
State: NC
Zip Code: 27607
RTP Labs Project Tracking Number: 10-222

Contract/Purchase Order No.: NC000239.0018.00001
Project Name: UNC AIRPORT ROAD WASTE DISPOSAL AREA

Comments:

Requested Analyses

Air Samples
Summa Canisters
Vacuum or Pressure

Sample ID No. & Description	Date Sampled	TIME AM	TIME PM	Matrix: Air Ambient	Matrix: Air Source	Matrix: Liquid/Solid	Compliance Test	Preservatives	# of Containers	TO-15	Field Initial	Field Final	Lab Receipt	Lab Final psig	Tracking # Sample Fraction
1 AIR STRIPPER	7/27/10		1445		X				1	X					01
2 VER DISCHARGE	↓		1448		X				1	X					02
3															
4															
5															
6															
7															
8															
9															
10															

Turn Around Time Requested for Report: Business Days; *Rush Multipliers (Rx)
☐ 1 day*(4x) ☐ 2 days*(3x) ☐ 3 days*(2x) ☐ 8 days*(1.5x) ☐ 10 days*(1.1x) ☒ 15 days

Data Pack: Std ☒ Full ☐ 1.1x surcharge
Electronic Deliverable: ☐ 1.1x surcharge

QC Requirements: Screen ☐ Standard ☐
EPA Level IV for Compliance ☐
Results approved QAPP sent to lab

Relinquished By: Date: 7/27/10 Time: 1550
Received By: Date: 7/27/10 Time: 1552

File: chain_RTP.doc/als revision 3/31/2006