Remedial Action Progress Report — January 2010 through December 2010

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

June 2011
Remedial Action Progress Report — January 2010 through December 2010

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

Prepared for:
The University of North Carolina at Chapel Hill

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Our Ref:
NC000239.0018

Date:
June 2011
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

[Signature]
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.

[Signature]
Notary Public (signature)

My commission expires Jan 8, 2013

Document Certification Form No. DC - 1
(Revised 3/11)
REGISTRATION 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

Date
6/23/11

REGISTRATION SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.036(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

Date
6/23/11

NOTARIZATION
North Carolina
WAKE COUNTY

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)

My commission expires: 8/25/14

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.


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. The 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 terti-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:

<table>
<thead>
<tr>
<th></th>
<th>Area (ft²)</th>
<th>Depth (ft)</th>
<th>Volume (ft³)</th>
<th>Est. Porosity</th>
<th>Capacity (ft³)</th>
<th>Capacity (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell 1</td>
<td>1,575</td>
<td>1.5</td>
<td>2,363</td>
<td>30%</td>
<td>709</td>
<td>5,301</td>
</tr>
<tr>
<td>Cell 2</td>
<td>1,950</td>
<td>1.5</td>
<td>2,925</td>
<td>30%</td>
<td>878</td>
<td>6,564</td>
</tr>
<tr>
<td>Cell 3</td>
<td>4,212</td>
<td>1.5</td>
<td>6,318</td>
<td>30%</td>
<td>1,895</td>
<td>14,178</td>
</tr>
<tr>
<td>Total</td>
<td>7,737</td>
<td>1.5</td>
<td>11,606</td>
<td>30%</td>
<td>3,482</td>
<td>26,043</td>
</tr>
</tbody>
</table>

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 Remedial Action.
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 recorded 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.
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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Personnel On-Site</th>
<th>Maintenance Activity/Comments</th>
<th>System Status</th>
<th>Samples Collected</th>
<th>System Totalizer Reading (gallons)</th>
<th>Gallons Pumped During Period (gallons)</th>
<th>OWASA Totalizer Reading (gallons)</th>
<th>Average Daily Flow for Period (gallons)</th>
<th>Period Start</th>
<th>Period End</th>
</tr>
</thead>
</table>
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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Personnel On-Site</th>
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<th>System Totalizer Reading (gallons)</th>
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<th>OWASA Totalizer Reading</th>
<th>Average Daily Flow for Period (gallons)</th>
<th>Period Start</th>
<th>Period End</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/19/2010</td>
<td>SAEDACCO</td>
<td>On-site for monthly system cleaning and O&amp;M. AS trays descaled.</td>
<td>Running</td>
<td>None</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/11/2010</td>
<td>SAEDACCO</td>
<td>On-site for monthly system cleaning and O&amp;M. AS trays descaled.</td>
<td>Running</td>
<td>None</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>12/14/2010</td>
<td>D. Twamley</td>
<td>On-site to collect monthly effluent samples. Remediation system inspected.</td>
<td>Running</td>
<td>Effluent (VOCs, RCRA metals and LL Mercury)</td>
<td>27,972,470</td>
<td>1,189,341</td>
<td>3,040,485</td>
<td>30,496</td>
<td>11/5/2010</td>
<td>12/14/2010</td>
</tr>
<tr>
<td>12/16/2010</td>
<td>SAEDACCO</td>
<td>On-site for monthly system cleaning and O&amp;M. AS trays descaled.</td>
<td>Running</td>
<td>None</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>OWASA Maximum Allowable Discharge Concentration</th>
<th>Groundwater Treatment System Effluent Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene (µg/L)</td>
<td>100</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Chloroform (µg/L)</td>
<td>100</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>1,2-Dichloroethane (µg/L)</td>
<td>71</td>
<td>1.6</td>
</tr>
<tr>
<td>Methylene Chloride (µg/L)</td>
<td>930</td>
<td>&lt; 5.0</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane (µg/L)</td>
<td>30</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Arsenic (µg/L)</td>
<td>16</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Chromium (µg/L)</td>
<td>50</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Copper (µg/L)</td>
<td>60</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Lead (µg/L)</td>
<td>49</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Zinc (µg/L)</td>
<td>535</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Mercury (ng/L)</td>
<td>50</td>
<td>0.67</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>OWASA Maximum Allowable Discharge Concentration</th>
<th>Groundwater Treatment System Effluent Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene (µg/L)</td>
<td>100</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Chloroform (µg/L)</td>
<td>100</td>
<td>&lt; 1.0</td>
</tr>
<tr>
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<td>71</td>
<td>&lt; 1.0</td>
</tr>
<tr>
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<td>930</td>
<td>&lt; 5.0</td>
</tr>
<tr>
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</tr>
<tr>
<td>Zinc (µg/L)</td>
<td>535</td>
<td>&lt; 100</td>
</tr>
<tr>
<td>Mercury (ng/L)</td>
<td>50</td>
<td>&lt; 0.50</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Stripper Discharge Pipe (6 inch diameter)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Vapor Flow Rate (cfm)</td>
<td></td>
<td>320</td>
<td>320</td>
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<tr>
<td>Vapor Temperature (degrees celcius)</td>
<td></td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Vapor Flow Rate (m³/day)</td>
<td></td>
<td>13824</td>
<td>13824</td>
</tr>
<tr>
<td>Discharge Velocity (ft/sec)</td>
<td></td>
<td>6.79</td>
<td>6.79</td>
</tr>
<tr>
<td>Volatile Organics (ppbv) (USEPA Method TO-15 GC/MS)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight (g/mol)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentration ppbv</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Converted Daily Mass Flow Rate mg/m³</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Daily Mass Flow Rate lbs/day</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorodifluoromethane (Freon 12)</td>
<td>120.91</td>
<td>0.6</td>
<td>0.00</td>
</tr>
<tr>
<td>1,2-Chloro-1,1,2,2-Tetrafluoroethane</td>
<td>170.92</td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>Chloromethane</td>
<td>50.49</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Vinyl chloride</td>
<td>62.50</td>
<td>2.53</td>
<td>0.01</td>
</tr>
<tr>
<td>1,3-Butadiene</td>
<td>54.09</td>
<td>2.86</td>
<td>0.01</td>
</tr>
<tr>
<td>Bromomethane</td>
<td>94.94</td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>64.51</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Trichloromonofluoromethane</td>
<td>137.37</td>
<td>0.6</td>
<td>0.00</td>
</tr>
<tr>
<td>1,1-Dichloroethene</td>
<td>96.94</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>1,1,2-Trichloro-1,2,2-trifluoroethane</td>
<td>187.38</td>
<td>2.53</td>
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<tr>
<td>Ethanol</td>
<td>46.07</td>
<td>2.86</td>
<td>0.01</td>
</tr>
<tr>
<td>Carbon Disulfide</td>
<td>76.14</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Isopropl alcohol</td>
<td>60.10</td>
<td>2.53</td>
<td>0.01</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>84.93</td>
<td>2.86</td>
<td>0.01</td>
</tr>
<tr>
<td>Acetone</td>
<td>58.08</td>
<td>2.86</td>
<td>0.01</td>
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<tr>
<td>1,1,1-Trichloroethylene</td>
<td>96.94</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Hexane</td>
<td>86.18</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Methyl-tert-butyl ether (MTBE)</td>
<td>88.15</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>1,1-Dichloroethene</td>
<td>98.96</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Vinyl acetate</td>
<td>86.09</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>cis-1,2-dichloroethene</td>
<td>96.94</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>84.18</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Chloroform</td>
<td>119.38</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>88.10</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Tetrachlorofuran</td>
<td>72.11</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>133.40</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td>153.82</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>2-Butanone</td>
<td>72.11</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Heptane</td>
<td>100.2</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Benzene</td>
<td>78.11</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>1,2-Dichloroethene</td>
<td>98.96</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Trichloroethylethane</td>
<td>131.39</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
<td>112.99</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Bromodichloromethane</td>
<td>163.83</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>1,4-Dioxane</td>
<td>88.11</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>cis-1,3-Dichloropropene</td>
<td>110.97</td>
<td>2.72</td>
<td>0.01</td>
</tr>
<tr>
<td>Toluene</td>
<td>92.14</td>
<td>1.98</td>
<td>0.01</td>
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<tr>
<td>4-Methyl-2-pentanone (MIBK)</td>
<td>100.16</td>
<td>61.88</td>
<td>0.25</td>
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<tr>
<td>1,2-dichloropropane</td>
<td>110.97</td>
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<td>0.01</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>165.83</td>
<td></td>
<td>0.01</td>
</tr>
<tr>
<td>1,1,2-Trichloroethane</td>
<td>133.40</td>
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<td>0.01</td>
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<tr>
<td>Dibromochloromethane</td>
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<td>0.77</td>
<td>0.00</td>
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<td>Ethylbenzene</td>
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<td>m/p-Xylene</td>
<td>106.17</td>
<td>0.77</td>
<td>0.00</td>
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<tr>
<td>o-Xylene</td>
<td>106.17</td>
<td>0.77</td>
<td>0.00</td>
</tr>
<tr>
<td>Styrene</td>
<td>104.15</td>
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<td>Tribromomethane</td>
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<td>167.85</td>
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<tr>
<td>1-Ethyl-4-4-Methylbenzene</td>
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<td></td>
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<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>120.19</td>
<td></td>
<td></td>
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<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>120.19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Dichlorobenzene</td>
<td>147.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td>147.01</td>
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<tr>
<td>Benzyll Chloride</td>
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<tr>
<td>1,2-Dichlorobenzene</td>
<td>147.01</td>
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<td></td>
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<tr>
<td>1,1,2,3,4,4-hexachloro-1,2-butaide</td>
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</tr>
<tr>
<td>1,2,4-Trichlorobenzene</td>
<td>181.45</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Calculated values

mg/m³ milligrams per cubic meter
lbs/day pounds per day
cfm cubic feet per minute
m³/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.

<table>
<thead>
<tr>
<th>Constituents</th>
<th>Molecular Weight (g/mol)</th>
<th>Converted Concentration (mg/m³)</th>
<th>Daily Mass Flow Rate (lbs/day)</th>
<th>Converted Concentration (mg/m³)</th>
<th>Daily Mass Flow Rate (lbs/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>VER Discharge</td>
<td></td>
<td>VER Discharge</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Date Sampled: 2/11/2010</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>VER Discharge</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pipe Dia. (4 inch diameter)</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Vapor Flow Rate (cfm)</td>
<td>90</td>
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<td></td>
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</tr>
<tr>
<td>Vapor Temperature (degrees farenheit)</td>
<td>152</td>
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<tr>
<td>Vapor flow Rate (m³/day)</td>
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<td></td>
<td></td>
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<tr>
<td>Discharge Velocity (ft/sec)</td>
<td>4.3</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Volatile Organics (ppbv)</strong>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dichlorodifluoromethane (Freon 12)</td>
<td>120.91</td>
<td>8.22</td>
<td>0.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Chloro-1,1,2,2-Tetrafluoroethane</td>
<td>170.92</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>50.49</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl chloride</td>
<td>62.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Butadiene</td>
<td>54.09</td>
<td>8.22</td>
<td>0.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromomethane</td>
<td>94.94</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloroethane</td>
<td>64.51</td>
<td>33.64</td>
<td>0.1</td>
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<tr>
<td>Trichloromonofluoromethane</td>
<td>137.37</td>
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<td></td>
<td></td>
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<tr>
<td>1,1-Dichloroethene</td>
<td>96.94</td>
<td>4.49</td>
<td>0.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-trichloro-1,2,2-trifluoroethane</td>
<td>187.38</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>46.07</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Disulfide</td>
<td>76.14</td>
<td>11.90</td>
<td>0.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>60.10</td>
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</table>

**Total lbs/day**: 0.01 0.01

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

**Calculated values**

**Potential hazards**: Calculated values

**mg/m³**: milligrams per cubic meter

**lbs/day**: pounds per day

**cfm**: cubic feet per minute

**m³/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, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

<table>
<thead>
<tr>
<th>Monitor Well Identification</th>
<th>Date of Installation</th>
<th>Measuring Point Elevation (ft msl)</th>
<th>Depth of Surface Casing (ft bls)</th>
<th>Total Drilled Depth (ft bls)</th>
<th>Screened Interval (ft bls)</th>
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<td>NA</td>
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<td>INA</td>
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<td>INA</td>
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<td>INA</td>
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* 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.

<table>
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<th>Monitor Well Identification</th>
<th>Measuring Point Elevation (ft msl)</th>
<th>Depth to Water (ft toc)</th>
<th>Groundwater Elevation (ft msl)</th>
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* 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.

ft toc Feet below top of casing.
ft msl Feet above mean sea level.
Table 7.

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

1/10/07
4/16/07
7/11/07
10/1/07
10/20/08
11/2/09
11/2/10
Date Measured:
Monitor
Depth
GW
Depth
GW
Depth
GW
Depth
GW
Depth
GW
Depth
GW
Depth
GW
Well
TOC
to WL Elevation to WL Elevation to WL Elevation to WL Elevation to WL Elevation to WL Elevation to WL Elevation
ID
(ft msl) (ft toc) (ft msl) (ft toc) (ft msl) (ft toc) (ft msl) (ft toc) (ft msl) (ft toc) (ft msl) (ft toc) (ft msl) (ft toc) (ft msl)
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
*MW-7
*MW-9
*MW-11
MW-12
*MW-13
*MW-14
*MW-15
*MW-16
*MW-17
MW-18
MW-19
MW-20
*MW-21
MW-22
*MW-23
*MW-24
MW-25
*MW-26
*MW-28
*MW-29
*MW-30
*MW-31
*MW-32
*MW-33
*MW-34
*MW-35
*MW-36
*MW-37
MW-38
MW-39
VER-1
VER-2
VER-3
VER-4
SRW-1
SRW-2
SRW-3
*DRW-1
*DRW-2
*DRW-3
TOC
WL
GW
NM
ft toc
ft msl
*
Dry

483.11
484.30
483.34
472.18
454.62
472.55
475.01
476.25
472.78
464.21
467.60
481.67
465.04
467.14
478.99
467.96
473.90
475.03
463.28
460.78
458.92
465.32
458.74
458.79
480.40
480.73
468.57
468.45
462.06
461.46
464.65
452.45
466.90
460.29
484.85
478.20
483.08
482.20
480.11
478.83
460.98
464.20
462.76
466.11
461.90
459.20

20.17
21.10
3.37
11.58
1.84
9.04
13.41
10.97
32.94
9.74
9.18
23.60
10.95
4.72
15.52
2.90
NM
16.36
8.31
3.47
13.32
9.62
4.32
27.55
4.88
13.57
32.18
35.63
18.12
24.39
19.49
58.12
17.69
18.95
--NM
NM
NM
NM
NM
NM
NM
NM
NM
NM

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479.97
460.6
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463.51
461.6
465.28
439.84
454.47
458.42
458.07
454.09
462.42
463.47
465.06
NM
458.67
454.97
457.31
445.60
455.70
454.42
431.24
475.52
467.16
436.39
432.82
443.94
437.07
445.16
394.33
449.21
441.34
-------------

19.08
20.60
3.79
9.88
1.71
10.34
19.40
11.24
33.38
14.45
9.08
27.06
20.33
4.93
17.54
2.95
NM
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8.23
3.23
13.33
12.29
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37.63
4.67
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30.45
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17.61
55.78
16.28
17.26
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NM
NM
NM
NM
NM
NM
NM
NM
NM

464.03
463.70
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455.61
465.01
439.4
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454.61
444.71
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461.45
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NM
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457.55
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447.04
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443.03
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21.61
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NM
NM
NM
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NM
NM
NM
NM
NM

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456.89
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458.00
452.08
463.65
437.82
445.59
444.65
452.65
441.67
460.05
459.71
463.16
469.16
456.18
449.44
453.18
446.31
451.67
447.05
409.93
472.71
465.58
436.46
429.99
439.45
434.11
441.74
398.48
446.46
438.68
-------------

21.20
24.24
12.42
20.21
Dry
18.03
24.50
16.95
35.60
24.43
Dry
30.38
23.41
8.69
20.88
6.41
6.97
Dry
16.86
10.32
24.34
14.85
Dry
53.78
10.57
18.92
35.84
41.31
28.59
30.01
28.35
52.42
23.66
31.14
--NM
NM
NM
NM
NM
NM
NM
NM
NM
NM

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460.06
470.92
451.97
<439.62
454.52
450.51
459.30
437.18
439.78
<444.60
451.29
441.63
458.45
458.11
461.55
466.93
<450.03
446.42
450.46
434.58
450.47
<443.74
405.01
469.83
461.81
432.73
427.14
433.47
431.45
436.30
400.03
443.24
429.15
-------------

18.79
20.25
6.01
14.88
6.50
14.74
21.80
13.38
34.01
12.65
19.10
27.18
21.13
6.40
17.06
4.37
3.84
20.30
11.30
5.06
13.39
10.62
11.22
21.66
6.48
14.23
30.33
34.19
21.19
26.60
22.41
56.67
20.40
21.07
--NM
NM
NM
NM
NM
NM
NM
NM
NM
NM

464.32
464.05
477.33
457.30
448.12
457.81
453.21
462.87
438.77
451.56
448.50
454.49
443.91
460.74
461.93
463.59
470.06
454.73
451.98
455.72
445.53
454.70
447.52
437.13
473.92
466.50
438.24
434.26
440.87
434.86
442.24
395.78
446.50
439.22
-------------

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

G:\ENV\UNIVNC\Airport Road\NC000239.0018\2010 Remedial System Report\Tables\Table 7 Historical GW Elevations.xlsx

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4.16
18.27
5.40
18.02
23.34
15.25
34.88
12.20
8.20
28.62
22.90
7.12
18.47
4.79
4.63
Dry
16.00
5.18
17.99
13.37
10.10
28.04
6.30
15.01
32.50
34.58
24.97
27.98
26.21
65.76
20.86
24.07
--8.48
17.64
15.67
6.80
13.55
25.70
23.65
21.00
44.30
35.20

464.91
463.95
479.18
453.91
449.22
454.53
451.67
461.00
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452.01
459.40
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442.14
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460.52
463.17
469.27
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424.00

16.40
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14.02
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Dry
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4.11
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19.53
46.43
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474.72
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446.58
415.47
424.66


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</table>

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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample ID:</th>
<th>Duke L</th>
</tr>
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<tbody>
<tr>
<td>Acetone</td>
<td>6000</td>
<td>2,500 µg/L</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>50</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>Chlorofrom</td>
<td>70</td>
<td>3,400 µg/L</td>
</tr>
<tr>
<td>Chloromethane</td>
<td>3</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td>6</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>1,1-Dichloroethane</td>
<td>6</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>0.4</td>
<td>360 µg/L</td>
</tr>
<tr>
<td>cis-1,2-Dichloroethene</td>
<td>70</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>trans-1,2-Dichloroethene</td>
<td>100</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>Diethyl ether</td>
<td>7300*</td>
<td>5,200 µg/L</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>6000</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>Methyl tert-butyl ether</td>
<td>20</td>
<td>1,000 µg/L</td>
</tr>
<tr>
<td>Methylene chloride</td>
<td>5</td>
<td>500 µg/L</td>
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<td>Toluene</td>
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<td>Trichlorofluoroethane</td>
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<tr>
<td>Vinyl chloride</td>
<td>0.03</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>Xylenes, Total</td>
<td>500</td>
<td>200 µg/L</td>
</tr>
</tbody>
</table>

NCAC 2L: North Carolina Administrative Code 2L Groundwater Standard
µg/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.

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Volatile Organics (USEPA Method 8260) µg/L</td>
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<td></td>
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<td></td>
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</tbody>
</table>

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard
µg/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).

[Green background] Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.
<table>
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<td>1,000 U</td>
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<td>10 U</td>
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<tr>
<td>Diethyl ether</td>
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<td>2 U</td>
<td>40</td>
<td>20 U</td>
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</table>

NCAC 2L: North Carolina Administrative Code 2L Groundwater Standard
µg/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.

<table>
<thead>
<tr>
<th>Constituent</th>
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<th>MW-1</th>
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<td>30,000 U</td>
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<td>25,000 U</td>
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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.

* 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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</table>

**Volatile Organics (USEPA Method 8260) ug/L**

- **NCAC 2L Groundwater Standard**
- **G**: Constituent was not detected above the reporting limit.
- **U**: Constituent concentration was quantitated using a secondary dilution.
- **NA**: Not analyzed.
- **D**: Constituent was detected above the reporting limit.
- **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.

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<th>Constituent</th>
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</tr>
<tr>
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<td>10.0 U</td>
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<td>100 U</td>
<td>10.0 U</td>
</tr>
</tbody>
</table>

**Notes:**
- U: Constituent was not detected above the reporting limit.
- D: Constituent concentration was quantitated using a secondary dilution.
- NA: Not analyzed.
- 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.

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard (USEPA Method 8260) ug/L

**Volatile Organics**

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<th>MW-6</th>
<th>MW-6</th>
<th>MW-6</th>
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<th>MW-6</th>
<th>MW-6</th>
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<td>10/02/07</td>
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<td>3,400 D</td>
<td>19,000</td>
<td>8,200</td>
<td>10,000 D</td>
<td>3,500</td>
<td>4,300</td>
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</table>

**Notes:**
- USEPA Method 8260
- ug/L
- Micrograms per liter.
Table 10. Historical Groundwater Analytical Data, UNC Airport Road Waste Disposal Area, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>07/22/04</td>
<td>10/03/07</td>
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<td>11/04/09</td>
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</tr>
<tr>
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<td>MW-9</td>
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<td>1 U</td>
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<td>2 U</td>
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<td>2 U</td>
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<td>1 U</td>
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<td>10 U</td>
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</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
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<td>1 U</td>
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<td>1 U</td>
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<td>Cis-1,2-Dichloroethene</td>
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<td>1 U</td>
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<td>1 U</td>
<td>1 U</td>
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</tbody>
</table>

NCAC 2L North Carolina Administrative Code 2L Groundwater Standard

### Concentration Limits:

- **U**: Constituent was not detected above the reporting limit.
- **D**: Constituent concentration was quantitated using a secondary dilution.
- **NA**: Not analyzed.

### Notes:

- 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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample ID: MW-12</th>
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<th>MW-12 01/10/07</th>
<th>MW-12 01/10/07</th>
<th>MW-12 01/10/07</th>
<th>MW-12 01/10/07</th>
<th>MW-12 01/10/07</th>
<th>MW-12 01/10/07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>1</td>
<td>6000</td>
<td>500 U</td>
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<td>130 U</td>
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<td>1 U</td>
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<tr>
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<td>23 U</td>
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<td>1 U</td>
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<td>1 U</td>
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<td>3.4</td>
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<tr>
<td>1,4-Dichlorobenzene</td>
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<td>20 U</td>
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<td>1 U</td>
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<td>1 U</td>
<td>1 U</td>
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<tr>
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<td>1 U</td>
<td>1 U</td>
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<td>NA</td>
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<td>5 U</td>
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<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
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<tr>
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<td>720 D</td>
<td>300</td>
<td>150</td>
<td>360 D</td>
<td>94</td>
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<td>10 U</td>
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<td>2 U</td>
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</table>

**Notes:**
- **U** Constituent was not detected above the reporting limit.
- **G** Constituent concentration was quantitated using a secondary dilution.
- **NA** Not analyzed.
- **Cis-1,2-Dichloroethene & trans-1,2-Dichloroethene were analyzed as one constituent (Cis/Trans-1,2-Dichloroethene).**
- **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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample ID</th>
<th>Date Sampled</th>
<th>Concentration (ug/L)</th>
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</thead>
<tbody>
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<td>Acetone</td>
<td>MW-14</td>
<td>07/21/04</td>
<td>600</td>
</tr>
<tr>
<td>Benzene</td>
<td>MW-14</td>
<td>07/11/07</td>
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</tr>
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<td>Chlorobenzene</td>
<td>MW-14</td>
<td>07/11/07</td>
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<td>Chloroform</td>
<td>MW-14</td>
<td>07/11/07</td>
<td>70 U</td>
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<td>1,4-Dichlorobenzene</td>
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<td>MW-14</td>
<td>07/11/07</td>
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</tr>
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#### NCAC 2L Groundwater Standard

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</tr>
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<td>1,1-Dichloroethane</td>
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<td>1,2-Dichloroethane</td>
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<td>trans-1,2-Dichloroethene</td>
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<td>Diethyl ether</td>
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<td>Ethylbenzene</td>
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<tr>
<td>Methyl tert-butyl ether</td>
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<tr>
<td>Methylene chloride</td>
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<tr>
<td>1,1,2,2-Tetrachloroethane</td>
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<td>Tetrachloroethene</td>
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<td>Toluene</td>
<td>5 U</td>
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<td>Xylenes, Total</td>
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</table>

**Notes:**
- U: Constituent was not detected above the reporting limit.
- D: Constituent concentration was quantitated using a secondary dilution.
- NA: Not analyzed.
- *: 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.

<table>
<thead>
<tr>
<th>Constituent</th>
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<th>Date Sampled:</th>
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<tbody>
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<th>Constituent</th>
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<th>NCAC 2L North Carolina Administrative Code 2L Groundwater Standard ug/L</th>
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<td></td>
</tr>
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<td>Ethylbenzene</td>
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</tr>
<tr>
<td>Methyl tert-butyl ether</td>
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<td>Xylenes, Total</td>
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**Notes:**
- U: Constituent was not detected above the reporting limit.
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- NA: Not analyzed.
- 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.

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<thead>
<tr>
<th>Constituent</th>
<th>Sample ID</th>
<th>Date Sampled</th>
<th>NCAC 2L GW Standard</th>
<th>Concentration (ng/L)</th>
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<td></td>
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<tr>
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<td>7</td>
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NCAC 2L North Carolina Administrative Code 2L Groundwater Standard

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<th>Concentration (ng/L)</th>
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<td>*</td>
<td>USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).</td>
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</table>

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.

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NCAC 2L North Carolina Administrative Code 2L Groundwater Standard

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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.
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**Volatile Organics (USEPA Method 8260)**

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**NCAC 2L North Carolina Administrative Code 2L Groundwater Standard**

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**USEPA Risk-Based Concentration (RBC) for tap water (no NCAC 2L Groundwater Standard exists).**

- U Constituent was not detected above the reporting limit.
- D Constituent concentration was quantitated using a secondary dilution.
- NA Not analyzed.

* Notes:
  - 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.

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<td>Vinyl chloride</td>
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</tr>
<tr>
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</tr>
</tbody>
</table>

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.

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.

<table>
<thead>
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</tr>
<tr>
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</tr>
</tbody>
</table>

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).

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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.

<table>
<thead>
<tr>
<th>Constituent</th>
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<th>VER-1</th>
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<td></td>
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<td>50,000 U</td>
<td>2,500 U</td>
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<tr>
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<td>25 U</td>
<td>NA</td>
<td>2,000 U</td>
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<td>50 U</td>
<td>1 U</td>
<td>25 U</td>
<td>5,000 U</td>
<td>2,000 U</td>
<td>100 U</td>
</tr>
<tr>
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<td>50 U</td>
<td>1 U</td>
<td>150</td>
<td>5,000 U</td>
<td>2,000 U</td>
<td>100 U</td>
</tr>
<tr>
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<td>1 U</td>
<td>25 U</td>
<td>5,000 U</td>
<td>2,000 U</td>
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</tr>
<tr>
<td>trans-1,2-Dichloroethene</td>
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<td>1 U</td>
<td>25 U</td>
<td>5,000 U</td>
<td>2,000 U</td>
<td>100 U</td>
</tr>
<tr>
<td>Diethyl ether</td>
<td>7,300*</td>
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<td>250 U</td>
<td>NA</td>
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<td>1 U</td>
<td>25 U</td>
<td>5,000 U</td>
<td>2,000 U</td>
<td>100 U</td>
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<td>25 U</td>
<td>5,000 U</td>
<td>2,000 U</td>
<td>100 U</td>
</tr>
<tr>
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<td>1 U</td>
<td>25 U</td>
<td>5,000 U</td>
<td>2,000 U</td>
<td>100 U</td>
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<td>25 U</td>
<td>5,000 U</td>
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<td>50 U</td>
<td>10,000 U</td>
<td>4,000 U</td>
<td>200 U</td>
</tr>
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</table>

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.

* 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 is above 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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample ID</th>
<th>Date Sampled</th>
<th>Date Sampled</th>
<th>Date Sampled</th>
<th>Date Sampled</th>
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<td>6,300 U</td>
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<td>250 U</td>
<td>NA</td>
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<td>250 U</td>
<td>1 U</td>
</tr>
<tr>
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<td>250 U</td>
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<td>1,000 U</td>
<td>250 U</td>
<td>250 U</td>
<td>1 U</td>
</tr>
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<td>Trans,1,2-Dichloroethylene</td>
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<td>250 U</td>
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<td>250 U</td>
<td>1 U</td>
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<td>250 U</td>
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<td>Trichlorofluoromethane</td>
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<td>NA</td>
<td>1,000 U</td>
<td>250 U</td>
<td>250 U</td>
<td>NA</td>
</tr>
<tr>
<td>Vinyl chloride</td>
<td>0.03</td>
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<td>1,000 U</td>
<td>250 U</td>
<td>250 U</td>
<td>1 U</td>
</tr>
<tr>
<td>Xylenes, Total</td>
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<td>4,000 U</td>
<td>2,000 U</td>
<td>500 U</td>
<td>500 U</td>
<td>2</td>
</tr>
</tbody>
</table>

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-Dichloroethylene & trans,1,2-Dichloroethylene were analyzed as one constituent (Cis/Trans,1,2-Dichloroethylene).
* 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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>NCAC 2L Standard (USEPA Method 8260) ug/L</th>
<th>SRW-1</th>
<th>SRW-1</th>
<th>SRW-1</th>
<th>SRW-1</th>
<th>SRW-2</th>
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<th>SRW-2</th>
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<td></td>
<td></td>
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<td>11/03/09</td>
<td>11/03/10</td>
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<td></td>
</tr>
<tr>
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<td>25 U</td>
<td>25 U</td>
<td>25 U</td>
<td>2,000 U</td>
<td>25 U</td>
<td>1,200 U</td>
<td>250 U</td>
</tr>
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<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
<td>290 U</td>
<td>2.8</td>
<td>50 U</td>
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</tr>
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<td>9.1</td>
<td>6.5</td>
<td>6.5</td>
<td>290 U</td>
<td>11</td>
<td>50 U</td>
<td>10 U</td>
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<td>1 U</td>
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<td>290 U</td>
<td>2.1</td>
<td>50 U</td>
<td>10 U</td>
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<td>NA</td>
<td>3</td>
<td>2</td>
<td>1.5</td>
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<td>NA</td>
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<td>10 U</td>
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<td>290 U</td>
<td>0.4</td>
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<td>67 U</td>
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<td>1 U</td>
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<td>1 U</td>
<td>290 U</td>
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<td>1 U</td>
<td>1 U</td>
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<td>1 U</td>
<td>290 U</td>
<td>1 U</td>
<td>50 U</td>
<td>10 U</td>
</tr>
<tr>
<td>Diethyl ether</td>
<td>7,300*</td>
<td>1,900 U</td>
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<td>53</td>
<td>31</td>
<td>50</td>
<td>8,200</td>
<td>2,400</td>
<td>1,800</td>
<td>600</td>
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<td>1 U</td>
<td>1 U</td>
<td>290 U</td>
<td>1 U</td>
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<td>10 U</td>
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<td>Methyl tert-butyl ether</td>
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<td>NA</td>
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<td>10 U</td>
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<td>5 U</td>
<td>290 U</td>
<td>5 U</td>
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<td>50 U</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
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<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
<td>290 U</td>
<td>1 U</td>
<td>50 U</td>
<td>10 U</td>
</tr>
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<td>Tetrachloroethene</td>
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<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
<td>290 U</td>
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<td>1 U</td>
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<td>1 U</td>
<td>290 U</td>
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</tr>
<tr>
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<td>1 U</td>
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<td>10 U</td>
</tr>
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<td>NA</td>
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<td>1 U</td>
<td>NA</td>
<td>NA</td>
<td>50 U</td>
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</tr>
<tr>
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<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
<td>1 U</td>
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<td>10 U</td>
</tr>
<tr>
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<td>2 U</td>
<td>590 U</td>
<td>2 U</td>
<td>100 U</td>
<td>20 U</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample ID:</th>
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<th>SRW-3</th>
<th>SRW-3</th>
<th>SRW-3</th>
<th>SRW-3</th>
<th>SRW-3</th>
<th>DRW-1</th>
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<td>10/02/07</td>
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<td>2,000 U</td>
<td>25 U</td>
<td>1,200 U</td>
<td>250 U</td>
<td>250 U</td>
<td>3,800 U</td>
<td>25 U</td>
<td>500 U</td>
<td>1,200 U</td>
<td>2,500 U</td>
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<td>200 U</td>
<td>11 U</td>
<td>50 U</td>
<td>10 U</td>
<td>10 U</td>
<td>380 U</td>
<td>160 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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</tr>
<tr>
<td>Chlorobenzene</td>
<td>SRW-3</td>
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<td>200 U</td>
<td>9 U</td>
<td>50 U</td>
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<td>380 U</td>
<td>15 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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</tr>
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<td>Chloroform</td>
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<td>200 U</td>
<td>1.5 U</td>
<td>50 U</td>
<td>10 U</td>
<td>10 U</td>
<td>380 U</td>
<td>1.4 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
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<td>NA</td>
<td>NA</td>
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<td>10 U</td>
<td>10 U</td>
<td>NA</td>
<td>NA</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloroethane</td>
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<td>200 U</td>
<td>1 U</td>
<td>50 U</td>
<td>10 U</td>
<td>10 U</td>
<td>380 U</td>
<td>1.6 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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<tr>
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<td>SRW-3</td>
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<td>200 U</td>
<td>0.4 U</td>
<td>50 U</td>
<td>13 U</td>
<td>10 U</td>
<td>380 U</td>
<td>0.4 U</td>
<td>20 U</td>
<td>10 U</td>
<td>100 U</td>
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</tr>
<tr>
<td>Cis-1,2-Dichloroethene</td>
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<td>200 U</td>
<td>3.9 U</td>
<td>50 U</td>
<td>10 U</td>
<td>10 U</td>
<td>380 U</td>
<td>3.3 U</td>
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<td>100 U</td>
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<td>200 U</td>
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<td>10 U</td>
<td>10 U</td>
<td>380 U</td>
<td>4 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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</tr>
<tr>
<td>Diethyl ether</td>
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<td>6,200</td>
<td>4,900</td>
<td>2,100</td>
<td>860</td>
<td>440</td>
<td>11,000</td>
<td>6,900</td>
<td>610</td>
<td>3,800</td>
<td>3,900</td>
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</tr>
<tr>
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<td>200 U</td>
<td>1 U</td>
<td>50 U</td>
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<td>380 U</td>
<td>1 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
<td></td>
</tr>
<tr>
<td>Methyl tert-butyl ether</td>
<td>SRW-3</td>
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<td>NA</td>
<td>NA</td>
<td>500 U</td>
<td>100 U</td>
<td>100 U</td>
<td>NA</td>
<td>NA</td>
<td>200 U</td>
<td>500 U</td>
<td>1,000 U</td>
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</tr>
<tr>
<td>Methylene chloride</td>
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<td>200 U</td>
<td>5 U</td>
<td>250 U</td>
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<td>50 U</td>
<td>380 U</td>
<td>5 U</td>
<td>20 U</td>
<td>250 U</td>
<td>500 U</td>
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</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
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<td>200 U</td>
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<td>380 U</td>
<td>1 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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<td>1 U</td>
<td>50 U</td>
<td>10 U</td>
<td>10 U</td>
<td>380 U</td>
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<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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<tr>
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<td>1 U</td>
<td>50 U</td>
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<td>380 U</td>
<td>1 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
<td></td>
</tr>
<tr>
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<td>SRW-3</td>
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<td>200 U</td>
<td>13 U</td>
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<td>17 U</td>
<td>20 U</td>
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<td>NA</td>
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<td>50 U</td>
<td>100 U</td>
<td></td>
</tr>
<tr>
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<td>3.6 U</td>
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<td>10 U</td>
<td>10 U</td>
<td>380 U</td>
<td>3.5 U</td>
<td>20 U</td>
<td>50 U</td>
<td>100 U</td>
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</tr>
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<td>2 U</td>
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<td>20 U</td>
<td>770 U</td>
<td>2 U</td>
<td>40 U</td>
<td>100 U</td>
<td>200 U</td>
<td></td>
</tr>
</tbody>
</table>

**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).

---

**Table Notes:**

- Use EPA Method 8260 (ug/L) for Volatile Organics.
- Concentrations were calculated from results using the USEPA Method 8260.
- 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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample ID: DRW-2</th>
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<th>Date Sampled: 10/02/07</th>
<th>Date Sampled: 10/22/08</th>
<th>Date Sampled: 11/03/09</th>
<th>Date Sampled: 11/03/10</th>
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</thead>
<tbody>
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<td>Volatile Organics (USEPA Method 8260) ug/L</td>
<td>NCAC 2L GW Standard</td>
<td>DRW-3</td>
<td>DRW-3</td>
<td>DRW-3</td>
<td>DRW-3</td>
<td>DRW-3</td>
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<tr>
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<td>59 U</td>
<td>25 U</td>
<td>25 U</td>
<td>25 U</td>
<td>29 U</td>
</tr>
<tr>
<td>Benzene</td>
<td>1</td>
<td>5.9 U</td>
<td>1 U</td>
<td>2 U</td>
<td>1 U</td>
<td>1 U</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>50</td>
<td>5.9 U</td>
<td>1.3</td>
<td>2 U</td>
<td>1 U</td>
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<td>Chloroform</td>
<td>70</td>
<td>5.9 U</td>
<td>1 U</td>
<td>2 U</td>
<td>1 U</td>
<td>1 U</td>
</tr>
<tr>
<td>1,4-Dichlorobenzene</td>
<td>6</td>
<td>NA</td>
<td>NA</td>
<td>2 U</td>
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<td>5.9 U</td>
<td>1 U</td>
<td>2 U</td>
<td>1 U</td>
<td>1 U</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>0.4</td>
<td>5.9 U</td>
<td>3.3</td>
<td>4.4</td>
<td>1 U</td>
<td>1 U</td>
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<tr>
<td>Cis-1,2-Dichloroethene</td>
<td>70</td>
<td>5.9 U</td>
<td>1 U</td>
<td>2 U</td>
<td>1 U</td>
<td>1 U</td>
</tr>
<tr>
<td>Trans-1,2-Dichloroethene</td>
<td>100</td>
<td>5.9 U</td>
<td>1 U</td>
<td>2 U</td>
<td>1 U</td>
<td>1 U</td>
</tr>
<tr>
<td>Diethyl ether</td>
<td>7,300*</td>
<td>200</td>
<td>470</td>
<td>87</td>
<td>59</td>
<td>40</td>
</tr>
<tr>
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<td>600</td>
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<td>2 U</td>
<td>1 U</td>
<td>1 U</td>
</tr>
<tr>
<td>Methyl tert-butyl ether</td>
<td>20</td>
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<td>NA</td>
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<td>5</td>
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<td>2 U</td>
<td>1 U</td>
<td>1 U</td>
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<tr>
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<td>3</td>
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<td>1 U</td>
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</tr>
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<td>Xylenes, Total</td>
<td>500</td>
<td>12 U</td>
<td>2 U</td>
<td>4 U</td>
<td>2 U</td>
<td>2 U</td>
</tr>
</tbody>
</table>

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.
* 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.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample ID:</th>
<th>Date Sampled:</th>
<th>SW-2</th>
<th>SW-3</th>
<th>SW-4</th>
<th>SW-5</th>
<th>SW-6</th>
</tr>
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<tbody>
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<td>Volatile Organics (USEPA Method 8260) ug/L</td>
<td></td>
<td></td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
</tr>
<tr>
<td>ug/L</td>
<td></td>
<td></td>
<td>Micrograms per liter.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ND</td>
<td></td>
<td></td>
<td>Constituent was not detected above the reporting limit.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>Constituent</td>
<td>Sample ID:</td>
<td>Date Sampled:</td>
<td>NCAC 2L Pre-Injection</td>
<td>Post-Injection</td>
<td>Post-Injection</td>
<td>Post-Injection</td>
<td>Post-Injection</td>
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<td>------------</td>
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<td>------------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>----------------</td>
<td>----------------</td>
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<td>Volatile Organics</td>
<td>NCAC 2L GW Standard</td>
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<td></td>
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<td>1,300 U</td>
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<td>1,300 U</td>
<td>2,500 U</td>
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<td>100 U</td>
<td>50 U</td>
<td>50 U</td>
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<td>70</td>
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<td>4,400 U</td>
<td>4,500 U</td>
<td>4,900 U</td>
<td>780 U</td>
<td>1,000 U</td>
</tr>
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<td>50 U</td>
<td>100 U</td>
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</tr>
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<td>1,4-Dichlorobenzene</td>
<td>6</td>
<td>50 U</td>
<td>50 U</td>
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<td>50 U</td>
<td>100 U</td>
<td>200 U</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
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<td>430 U</td>
<td>490 U</td>
<td>550 U</td>
<td>1,000 U</td>
<td>1,100 U</td>
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<td>50 U</td>
<td>100 U</td>
<td>50 U</td>
<td>100 U</td>
<td>200 U</td>
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<td>50 U</td>
<td>100 U</td>
<td>200 U</td>
</tr>
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<td>7,300*</td>
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<td>500 U</td>
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<td>1,000 U</td>
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<td>780 U</td>
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<td>560 U</td>
<td>620 U</td>
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<td>100 U</td>
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<td>100 U</td>
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<td>140 U</td>
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<td>100 U</td>
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<tr>
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<td>0.2 U</td>
<td>0.2 U</td>
<td>0.2 U</td>
<td>0.2 U</td>
<td>0.2 U</td>
<td>0.2 U</td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Constituent</th>
<th>NCAC 2L Standard GW Reference</th>
<th>Pre-Injection</th>
<th>Pre-Injection</th>
<th>Post-Injection</th>
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<th>Post-Injection</th>
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<td></td>
</tr>
<tr>
<td>Diethanolamine</td>
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<td>570 E *</td>
<td>770</td>
<td>220 E</td>
<td>140 E *</td>
<td>390 E</td>
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<td>5 U</td>
<td>5 U</td>
<td>5 U</td>
<td>5 U</td>
<td>5 U</td>
<td>5 U</td>
<td>5 U</td>
<td>5 U</td>
</tr>
<tr>
<td>Chromium</td>
<td></td>
<td>100</td>
<td>10 U</td>
<td>10 U</td>
<td>15</td>
<td>15</td>
<td>18</td>
<td>18</td>
<td>10 U</td>
<td>13</td>
</tr>
<tr>
<td>Iron</td>
<td></td>
<td>300</td>
<td>340</td>
<td>140</td>
<td>150</td>
<td>110,000</td>
<td>16,000</td>
<td>260</td>
<td>140</td>
<td>2,000</td>
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<td>Lead</td>
<td></td>
<td>100</td>
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<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
</tr>
<tr>
<td>Scleumium</td>
<td></td>
<td>20 U</td>
<td>20 U</td>
<td>20 U</td>
<td>20 U</td>
<td>20 U</td>
<td>20 U</td>
<td>20 U</td>
<td>20 U</td>
<td>20 U</td>
</tr>
<tr>
<td>Silver</td>
<td></td>
<td>100</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
<td>10 U</td>
</tr>
<tr>
<td>Sodium</td>
<td></td>
<td>10,000</td>
<td>19,000</td>
<td>19,000</td>
<td>41,000</td>
<td>41,000</td>
<td>42,000</td>
<td>43,000</td>
<td>25,000</td>
<td>23,000</td>
</tr>
<tr>
<td>Mercury</td>
<td></td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
</tr>
</tbody>
</table>

**NCAC 2L North Carolina Administrative Code 2L Groundwater Standard**

**u g/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).

**Pre** Indicates that the reported concentration exceeds the NCAC 2L Groundwater Standard or RBC.
Appendix A

Discharge Monitoring Reports
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

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Date</th>
<th>10/1/2010</th>
<th>11/5/2010</th>
<th>12/14/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Flow (gallons per day)</td>
<td>43,200</td>
<td>21,478*</td>
<td>30,104**</td>
<td>30,646***</td>
</tr>
<tr>
<td>Temperature (degrees Celsius)</td>
<td>NA</td>
<td>NM</td>
<td>NM</td>
<td>NM</td>
</tr>
<tr>
<td>pH (Standard Units)</td>
<td>NA</td>
<td>NM</td>
<td>NM</td>
<td>NM</td>
</tr>
<tr>
<td>Benzene (micrograms per liter)</td>
<td>100</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Chloroform (micrograms per liter)</td>
<td>100</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>1,2-Dichloroethane (micrograms per liter)</td>
<td>71</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Methylene Chloride (micrograms per liter)</td>
<td>930</td>
<td>&lt; 5.0</td>
<td>&lt; 5.0</td>
<td>&lt; 5.0</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane (micrograms per liter)</td>
<td>30</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Arsenic (micrograms per liter)</td>
<td>16</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Chromium (micrograms per liter)</td>
<td>50</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Copper (micrograms per liter)</td>
<td>60</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Lead (micrograms per liter)</td>
<td>49</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Zinc (micrograms per liter)</td>
<td>635</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
<td>&lt; 100</td>
</tr>
<tr>
<td>Mercury (nanograms per liter)</td>
<td>50</td>
<td>&lt; 0.50</td>
<td>0.68</td>
<td>0.71</td>
</tr>
</tbody>
</table>

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 10/2/2010 and 11/5/2010.

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

[Signature of Official]
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  

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  

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  

Imagine the result
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 #1550
Chapel Hill, North Carolina 27599-1650

OWASA Permit Number 0010

UNC Airport Road Waste Disposal Area
Chapel Hill, North Carolina

Discharge to Manhole # 47C4001

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Flow (gallons per day)</td>
<td>43,200</td>
<td>13,188*</td>
<td>23,777**</td>
</tr>
<tr>
<td>Temperature (degrees Celsius)</td>
<td>NA</td>
<td>NM</td>
<td>NM</td>
</tr>
<tr>
<td>pH (Standard Units)</td>
<td>NA</td>
<td>NM</td>
<td>NM</td>
</tr>
<tr>
<td>Benzene (micrograms per liter)</td>
<td>100</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Chloroform (micrograms per liter)</td>
<td>100</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>1,2-Dichloroethane (micrograms per liter)</td>
<td>71</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Methylene Chloride (micrograms per liter)</td>
<td>930</td>
<td>&lt; 5.0</td>
<td>&lt; 5.0</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane (micrograms per liter)</td>
<td>30</td>
<td>&lt; 1.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Arsenic (micrograms per liter)</td>
<td>16</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Chromium (micrograms per liter)</td>
<td>50</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Copper (micrograms per liter)</td>
<td>60</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Lead (micrograms per liter)</td>
<td>49</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Zinc (micrograms per liter)</td>
<td>535</td>
<td>&lt; 100</td>
<td>&lt; 100</td>
</tr>
<tr>
<td>Mercury (nanograms per liter)</td>
<td>50</td>
<td>&lt; 0.50</td>
<td>&lt; 0.50</td>
</tr>
</tbody>
</table>

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 7/23/2010 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.

Date: 9/29/2010
Signature of Official:
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

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  

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

Imagine the result
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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Flow (gallons per day)</td>
<td>43,200</td>
<td>26,349*</td>
<td>25,664**</td>
<td>26,056***</td>
</tr>
<tr>
<td>Temperature (degrees Celsius)</td>
<td>NA</td>
<td>NM</td>
<td>NM</td>
<td>NM</td>
</tr>
<tr>
<td>pH (Standard Units)</td>
<td>NA</td>
<td>NM</td>
<td>NM</td>
<td>NM</td>
</tr>
<tr>
<td>Benzene (micrograms per liter)</td>
<td>100</td>
<td>&lt; 1.0</td>
<td>&lt; 2.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Chloroform (micrograms per liter)</td>
<td>100</td>
<td>&lt; 1.0</td>
<td>&lt; 2.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>1,2-Dichloroethane (micrograms per liter)</td>
<td>71</td>
<td>1.5</td>
<td>&lt; 2.0</td>
<td>4.7</td>
</tr>
<tr>
<td>Methylene Chloride (micrograms per liter)</td>
<td>930</td>
<td>&lt; 5</td>
<td>&lt; 10</td>
<td>&lt; 5.0</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane (micrograms per liter)</td>
<td>30</td>
<td>&lt; 1.0</td>
<td>&lt; 2.0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Arsenic (micrograms per liter)</td>
<td>16</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Chromium (micrograms per liter)</td>
<td>50</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Copper (micrograms per liter)</td>
<td>60</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
<td>&lt; 20</td>
</tr>
<tr>
<td>Lead (micrograms per liter)</td>
<td>49</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Zinc (micrograms per liter)</td>
<td>535</td>
<td>&lt; 20</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Mercury (nanograms per liter)</td>
<td>50</td>
<td>&lt; 0.50</td>
<td>0.55</td>
<td>&lt; 0.50</td>
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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 1/12/2010 and 2/10/2010.

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.

4/2/2010
Signature of Official

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100% recycled paper produced by wind power energy
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:  
OWASA Permit Number 0010  
The University of North Carolina at Chapel Hill, Airport Road Waste Disposal Area,  
Chapel Hill, North Carolina

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.

Alan Pinnix, L.G.  
Senior Scientist
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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Maximum Allowable Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>4/19/2010</td>
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<tr>
<td>Average Flow (gallons per day)</td>
<td>43,200</td>
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<tr>
<td>Temperature (degrees Celsius)</td>
<td>NA</td>
</tr>
<tr>
<td>pH (Standard Units)</td>
<td>NA</td>
</tr>
<tr>
<td>Benzene (micrograms per liter)</td>
<td>100</td>
</tr>
<tr>
<td>Chloroform (micrograms per liter)</td>
<td>100</td>
</tr>
<tr>
<td>1,2-Dichloroethane (micrograms per liter)</td>
<td>71</td>
</tr>
<tr>
<td>Methylene Chloride (micrograms per liter)</td>
<td>930</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane (micrograms per liter)</td>
<td>30</td>
</tr>
<tr>
<td>Arsenic (micrograms per liter)</td>
<td>16</td>
</tr>
<tr>
<td>Chromium (micrograms per liter)</td>
<td>50</td>
</tr>
<tr>
<td>Copper (micrograms per liter)</td>
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</tr>
<tr>
<td>Lead (micrograms per liter)</td>
<td>49</td>
</tr>
<tr>
<td>Zinc (micrograms per liter)</td>
<td>535</td>
</tr>
<tr>
<td>Mercury (nanograms per liter)</td>
<td>50</td>
</tr>
</tbody>
</table>

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 4/20/2010 and 5/24/2010.

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

Signature of Official

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Appendix B

Laboratory Analytical Data Reports for Groundwater Samples
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

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; 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: LA000244; 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:

Client: ARCADIS U.S., Inc. 

Job Number: 680-54137-1.

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

Lab References:

TAL SAV = TestAmerica Savannah.

Method References:

## METHOD / ANALYST SUMMARY

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

<table>
<thead>
<tr>
<th>M:</th>
<th>Analyst9</th>
<th>Analyst9D:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW846 8260B1</td>
<td>Lanier, Carolyn1</td>
<td>CL1</td>
</tr>
<tr>
<td>SW846 6010C1</td>
<td>Bland, Brian1</td>
<td>BCB1</td>
</tr>
<tr>
<td>Lab</td>
<td>Client2 ample2D2</td>
<td>ClientMa:rix2</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>680-54137-1U</td>
<td>entU</td>
<td>WaterU</td>
</tr>
</tbody>
</table>

TestAmerica : ava: ah2
### Analytical Data

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

**Client Sample ID:** Effluentd  
**Lab Sample ID:** 680-54137-1R  
**Lab Matrix:** Water

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

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result (ug/L)</th>
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8260B Volatile Organic Compounds (G/MS):

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### Analytical Data

**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-54137-1R

**Sample ID:** Effluent

**Lab Sample ID:** 680-54137-1R

**Matrix:** Water

**Date Sampled:** 01/11/2010 1640R

**Date Received:** 01/12/2010 0918R

**Method:** 6010CR

**Analysis Batch:** 680-158713R

**Prep Batch:** 680-158248R

**Instrument ID:** N/AR

**Lab File ID:** N/AR

**Dilution:** 1.0R

**Date Analyzed:** 01/19/2010 1832R

**Date Prepared:** 01/14/2010 1128R

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## DATA REPORT: QUALIFIERSH

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## Quality Control Results

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

### Method Blank - Batch: 680-158140P

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

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

### Lab Control Sample/P

**Lab Control Sample Duplicate Recovery Report** - Batch: 680-158140

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

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

|-------------------|---------------------|----------------|----------------|----------------|-------------------------  
| Client Matrixe    | Water.              | p Batch eN/A.   | Unit. u./Le    | Lab. ile ID.   | pq1. 3.de                
| Dilution:         | 1.0.                |                |                | Initial Wei.h t/Vomile.: 5 mL  
| Date Analyzed     | 01/1./2d10 1303.    |                |                | inal Wei.h t/Vomile.: 5 mL  
| Date. pae de      | 01/1./2d10 1303.    |                |                |                       |

|-------------------|---------------------|----------------|----------------|----------------|-------------------------  
| Client Matrixe    | Water.              | p Batch eN/A.   | Unit. u./Le    | Lab. ile ID:   | pq1. 4.de                
| Dilution:         | 1.0.                |                |                | Initial Wei.h t/Vomile.: 5 mL  
| Date Analyzed     | 01/1./2d10 13. 7.   |                |                | inal Wei.h t/Vomile.: 5 mL  
| Date. pae de      | 01/1./2d10 13. 7.   |                |                |                       |

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

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Calculation. as performed before rounding to avoid round-off error. in calculated re. ult.
Quality Control Results

Method Blank - Batch: 680-158181P

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Surro.a te. % Rec. Acceptance Limit.

- 4-Bromofluorobenzene. 7. 75 - 1.0
- Dibromofluoromethane. 108. 75 - 1.1
- Toluene-de (Sur)e. 97. 75 - 1.0

Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.
**Lab Control Sample/P**

**Lab Control Sample Duplicate Recovery Report - Batch: 680-158181P**

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<td>4-Methylhydri...</td>
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<td>5.</td>
<td>40-151.</td>
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<td>Styrene.</td>
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<td>109e</td>
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<tr>
<td>1,1,-Tetrachloroethane.</td>
<td>7.</td>
<td>7.</td>
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<td>Tetrachloroethene.</td>
<td>105.</td>
<td>104.</td>
<td>76-1.</td>
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<td>Toluene.</td>
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<td>99e</td>
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<td>trans.-1,-Dichloroethene.</td>
<td>10.</td>
<td>105.</td>
<td>7-131.</td>
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<td>trans.-1,3-Dichloropropene.</td>
<td>10.</td>
<td>99e</td>
<td>73-1</td>
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<td>103.</td>
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Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.
# Quality Control Results

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

**LCS Lab Sample ID:** LCS 680-158181/5.  
**Client Matrixe:** Water.  
**Dilution:** 1.0.  
**Date Analyzed:** 01/13/2010 1037.  
**Analysis Batch:** 680-158181.  
**p BatcheN/A.**  
**Unit:** u./Le  
**In. trume ID:** GC/MS Volatile. - .  
**Lab. ile ID:** pq130.de  
**Initial Weih t/Volume:** 5 mL.  
**inal Weih t/Volume:** 5 mL

**LCSD Lab Sample ID:** LCS 680-158181/e  
**Client Matrixe:** Water.  
**Dilution:** 1.0.  
**Date Analyzed:** 01/13/2010 1058.  
**Analysis Batch:** 680-158181.  
**p BatcheN/A.**  
**Unit:** u./Le  
**In. trume ID:** GC/MS Volatile. - .  
**Lab. ile ID:** pq131.de  
**Initial Weih t/Volume:** 5 mL.  
**inal Weih t/Volume:** 5 mL

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<tr>
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<tr>
<td>Vinyl chloride</td>
<td>99e</td>
<td>101e</td>
<td>59 - 144</td>
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<tr>
<td>Xylene., Total.</td>
<td>109e</td>
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<td>4 - 118</td>
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<td>Surro.ate</td>
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<td>4-Bromofluorobenzene.</td>
<td>9e</td>
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<td>75 - 1.0</td>
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<td>Dibromofluoromethane.</td>
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<td>Toluene-de (Sur)</td>
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<td>e</td>
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Calculation. ae pe formed before roundin. to avoid round-off error. in calculated re. ult.
**Method Blank - Batch: 680-158248P**

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<td>01/14/2010 11.</td>
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<table>
<thead>
<tr>
<th>Analyte.</th>
<th>Re. ult.</th>
<th>Qual.</th>
<th>RLc</th>
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<tr>
<td>Ar. nic.</td>
<td>0.</td>
<td>U.</td>
<td>0.</td>
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<td>Copper</td>
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<td>U.</td>
<td>0.</td>
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<tr>
<td>Zinc</td>
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<td>U.</td>
<td>0.</td>
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**Lab Control Sample - Batch: 680-158248P**

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<td>01/14/2010 11.</td>
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<table>
<thead>
<tr>
<th>Analyte.</th>
<th>Spike Amount.</th>
<th>Re. ult.</th>
<th>% Rec.</th>
<th>Limit.</th>
<th>Qual.</th>
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<tr>
<td>Ar. nic.</td>
<td>000.</td>
<td>000.</td>
<td>100.</td>
<td>75 - 1.5.</td>
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<tr>
<td>Chromium.</td>
<td>00.</td>
<td>05.</td>
<td>10.</td>
<td>75 - 1.5.</td>
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<tr>
<td>Copper</td>
<td>50.</td>
<td>46.</td>
<td>9e</td>
<td>75 - 1.5.</td>
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<tr>
<td>Lead</td>
<td>500.</td>
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<td>75 - 1.5.</td>
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<td>Zinc</td>
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Calculation: ae pe formed before roundin. to avoid round-off error. in calculated re. ult.
<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>DATE</th>
<th>TIME</th>
<th>SAMPLE IDENTIFICATION</th>
<th>COMPOSITE ID OR GRAB (INDICATE)</th>
<th>ADVENS (MATERIAL)</th>
<th>SOILS: SEASONED</th>
<th>COMPOUND</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>Effluent</td>
<td>1/11/10</td>
<td>10:00</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</table>

**LABORATORY USE ONLY**

<table>
<thead>
<tr>
<th>RECEIVED FOR LABORATORY BY:</th>
<th>DATE</th>
<th>TIME</th>
<th>CUSTODY INTACT</th>
<th>CUSTODY SEAL NO.</th>
<th>SAINT CLAIR LOG NO.</th>
<th>LABORATORY REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/11/10</td>
<td>09:00</td>
<td>YES</td>
<td>0</td>
<td>680-54137</td>
<td>2.4°C</td>
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</table>
### Login Sample Receipt Check ListT

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

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).
Comments
No additional cb. nts. k

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

Metals m
Method 1631E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 400-102262+400-102290 were outside cbntro. k limits. The associated laboratory cbntro. sample (LCS) recovery met acceptance criteria. Data was flagged and reported as is.k

No other analytical or quality issues were noted. k
**METHOD SUMMARY:**

<table>
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<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
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<td>Matrix: m Water:</td>
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<tr>
<td>MF cury, Low LFvF (CVAFS)F</td>
<td>TAL PEN.</td>
<td>EPAR631EF</td>
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<tr>
<td>PF pafati6, MF cury, Low LFvF</td>
<td>TAL PEN.</td>
<td>EPAR631EF</td>
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</table>

**Lab References:**

TAL PEN = TFstAfher.ca PF sac o.aF

**Method References:**

EPA= US Enviro. me. alFPl6. cti6. .gF cyF
<table>
<thead>
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<th>M: th</th>
<th>Analyst</th>
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<tbody>
<tr>
<td>EPA</td>
<td>Jones, Randy</td>
<td>J</td>
</tr>
<tr>
<td>Lab : ample ID2</td>
<td>liqP : ample ID2</td>
<td>liqP Mark2</td>
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<tr>
<td>---------------</td>
<td>-----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>1TB.</td>
<td>EFFLUENT.</td>
<td>Water.</td>
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</table>
SAMPLEc Sc LTSc
**Analytical Data**

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

<table>
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<th>400-44939-1TBM</th>
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<tr>
<td>Client Matrix:</td>
<td>terM</td>
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**1631E Mercury, Low Level (CVAFS)**

<table>
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<tr>
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<th>Analysis Batch: 400-102290M</th>
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<td>Dilution:</td>
<td>.0M</td>
<td>Lab File ID: M</td>
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<td>Date Analyzed:</td>
<td>01/14/2010 1312M</td>
<td>Instrument ID: M</td>
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<td>Date Prepared:</td>
<td>01/13/2010 1530M</td>
<td>HYDRAM</td>
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<td>Lab File ID: N/AM</td>
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<tr>
<td>Initial Weight/Volume:</td>
<td>40 mL</td>
<td>Final Weight/Volume:</td>
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<tr>
<td>Analyte:</td>
<td>Mercury</td>
<td>Result (ng/L): &lt;0.50M</td>
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<td>Qualifier:</td>
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TestAmerica Pensacola  
Page 7 of 13
QUALITY CONTROL RESULTS
## QC Association Summary

<table>
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<td>Prep Batch- 400-102262-</td>
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<tr>
<td>LCS 400-102262/22-Ah</td>
<td>Lab Control SampleM</td>
<td>Th</td>
<td>W.terM</td>
<td>631Eh</td>
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<tr>
<td>LCSD 400-102262/23-Ah</td>
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<td>Th</td>
<td>Waterh</td>
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<td>MB 400-102262/21-Ah</td>
<td>Method.Blankh</td>
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<td>939-1TBh</td>
<td>EFFLUENTh</td>
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<td>Th</td>
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<td>939-1TBh</td>
<td>EFFLUENTh</td>
<td>Th</td>
<td>Waterh</td>
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<td>102262h</td>
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**Report Basis**

T = Total

TestAmerica Pensacola-
### Quality Control Results

**MR hodiB RankoB Batch:c400-102262p**

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<th>Lab Sample IDB</th>
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<th>Date AnalyzedB</th>
<th>Date PB paB dB</th>
<th>Analysis Batch</th>
<th>Analysis PB pB</th>
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<td>WatB</td>
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<td>/13/2010 .300B</td>
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<thead>
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<th>QualB</th>
<th>RLB</th>
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<td>curvB</td>
<td>&lt;0.50B</td>
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**Lab Control Samp** /p

**Lab Control Samp** Distinguish Recovery Re- ort -Batch:c400-102262p

<table>
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<th>LCS Sample DilutionB</th>
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<th>Date PB paB dB</th>
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<th>LCSB</th>
<th>LCSDB</th>
<th>LimitB</th>
<th>RPDB</th>
<th>RPD LimitB</th>
<th>LCS QualB</th>
<th>LCSD QualB</th>
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<tbody>
<tr>
<td>curvB</td>
<td>96B</td>
<td>96B</td>
<td>79 .21B</td>
<td>2B</td>
<td></td>
<td></td>
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</table>

**MR hodi:d631Ep**

**Pre-paration:d631Ep**

<table>
<thead>
<tr>
<th>Instrument IDB</th>
<th>Lab File IDB</th>
<th>Initial WBgth/Volume:</th>
<th>Final WBgth/Volume:</th>
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<tbody>
<tr>
<td>ATOIC FLUORESCENCE</td>
<td>N/AB</td>
<td>40B mLB</td>
<td>40B mLB</td>
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</table>

Calculations aB pB formed before rounding to avoid round-off errors in calculated results.
DATA RhPORT:  m ALIlía RSh

<table>
<thead>
<tr>
<th>Lab Section</th>
<th>u alifera</th>
<th>Description</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sample ID/Location</th>
<th>Matrix</th>
<th>Date/Time Sampled</th>
<th>Lab ID</th>
<th>Remarks</th>
<th>Total No. of Bottles/Containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effluent</td>
<td>L</td>
<td>1/11/16, 1640</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Relinquished by:**
- Organization: Arcadis
- Organization: OA-Pen
- Organization: 
- Organization: 

**Received by:**
- Organization: 
- Organization: 
- Organization: 
- Organization: 

**Date:** 1/11/16, 1/12/16
**Time:** 17:10, 10:15
**Seal Intact?** Yes, Yes, Yes, No

**Special Instructions/Remarks:**

**Delivery Method:** □ In Person  ☒ Common Carrier FedEx  □ Lab Courier  □ Other
### Login SampIT R-cTipt ChTck ListT

**Client:** ARCADIS U.S., Inc.M  
**Job Number:** B 9 39-1h  
**Login NumbTr:** 44939b  
**Creator:** Hor, Komab  
**List Number:** 1b  

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

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: 9801001; 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:

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
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<tr>
<td>Volatile Organic Compounds (GC/MS)</td>
<td>AL .AVT</td>
<td>WT 4T8.2D BT</td>
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<tr>
<td>PurgT and apT</td>
<td>AL .AVT</td>
<td>WT 4T50 30B</td>
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<tr>
<td>MTals (ICP)</td>
<td>AL .AVT</td>
<td>WT 4T6010 CT</td>
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<tr>
<td>PT patiation, otal RTcovT ablTor . iss olvTd MTalsT</td>
<td>AL .AVT</td>
<td>WT 4T 3005A</td>
<td></td>
</tr>
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</table>

**Lab References:**

AL .AV = . stAmerica .avannahT

**Method References:**

WT 4T = "T st MThods For Evaluating . oild Wast T , Physical/ChTnical MThods", Thi Edition, November 1 9T And .ts . pdatT sT
<table>
<thead>
<tr>
<th>M: thb</th>
<th>Analyst</th>
<th>Analyst ID</th>
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<tbody>
<tr>
<td>SW846</td>
<td>8260B.</td>
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<td>SW846</td>
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<td>Bland, Brian.</td>
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<table>
<thead>
<tr>
<th>La: Sample ID</th>
<th>Clc</th>
<th>Sample ID 2</th>
<th>Clc</th>
<th>Ma: rbx2</th>
<th>Da: /Tim: Sampled2</th>
<th>R2</th>
<th>v2d2</th>
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**8260Bd/odtial Organic Compounds (GC/MS):**

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<th>8260Bo</th>
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<tr>
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<td>Dilution</td>
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<tr>
<td>Date Analyzed</td>
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<tr>
<td>Date Prepared</td>
<td>02/16/2010 1655o</td>
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<table>
<thead>
<tr>
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<th>Result (µg/L)</th>
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<th>RL o</th>
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<tr>
<td>Acetone</td>
<td>50o</td>
<td>Uo</td>
<td>50o</td>
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<tr>
<td>Benzeneo</td>
<td>2.0o</td>
<td>Uo</td>
<td>2.0o</td>
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<tr>
<td>Bromoformo</td>
<td>2.0o</td>
<td>Uo</td>
<td>2.0o</td>
</tr>
<tr>
<td>Bromomethaneo</td>
<td>2.0o</td>
<td>Uo</td>
<td>2.0o</td>
</tr>
<tr>
<td>Carbon disulfideo</td>
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<td>4.0o</td>
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<td>Carbon tetrachloride</td>
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<td>Uo</td>
<td>2.0o</td>
</tr>
<tr>
<td>Chlorobenzene</td>
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<td>Uo</td>
<td>2.0o</td>
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<tr>
<td>Chlorodibromomethaneo</td>
<td>2.0o</td>
<td>Uo</td>
<td>2.0o</td>
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<td>Chloroethaneo</td>
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<td>Uo</td>
<td>2.0o</td>
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<td>Chloroformo</td>
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<td>cis-1,2-Dichloroetheneo</td>
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<td>cis-1,3-Dichloropropeneo</td>
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<td>2-Butanone (MEK)o</td>
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<td>20o</td>
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<tr>
<td>4-Methyl-2-pentanone (MIBK)o</td>
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<td>Uo</td>
<td>20o</td>
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<tr>
<td>Styreneo</td>
<td>2.0o</td>
<td>U °o</td>
<td>2.0o</td>
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<tr>
<td>1,2,2-Tetrachloroethaneo</td>
<td>2.0o</td>
<td>Uo</td>
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<td>1,2-Trichloroethaneo</td>
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<td>Vinyl chloride</td>
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<tr>
<td>Xylenes, Totalo</td>
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<td></td>
<td>4.0o</td>
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<table>
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<tr>
<th>Surrogate</th>
<th>%Reco</th>
<th>Qualifier</th>
<th>Acceptance Limits</th>
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<tbody>
<tr>
<td>4-Bromofluorobenzene</td>
<td>94o</td>
<td></td>
<td>75 - 120o</td>
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<tr>
<td>Dibromofluoromethaneo</td>
<td>00o</td>
<td></td>
<td>75 - 121o</td>
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<tr>
<td>Toluene-d8 (Sur)</td>
<td>03o</td>
<td></td>
<td>75 - 120o</td>
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</tbody>
</table>
**Analytical Data**

**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-55031-1o

**Date Sampled:** 02/10/2010 1600o

**Date Received:** 02/12/2010 0933o

---

**Method:** 6010Co

**Preparation:** 005Ao

**Dilution:** .0o

**Date Analyzed:** 02/18/2010 2032o

**Date Prepared:** 02/18/2010 1225o

---

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result (ug/L)</th>
<th>Qualifier</th>
<th>RLo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenico</td>
<td>20o</td>
<td>Uo</td>
<td>20o</td>
</tr>
<tr>
<td>Chromium</td>
<td>0o</td>
<td>Uo</td>
<td>0o</td>
</tr>
<tr>
<td>Coppero</td>
<td>20o</td>
<td>Uo</td>
<td>20o</td>
</tr>
<tr>
<td>Lead</td>
<td>0</td>
<td>Uo</td>
<td>0o</td>
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<tr>
<td>Zinc</td>
<td>22o</td>
<td></td>
<td>20o</td>
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</tbody>
</table>

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**Analysis Batch:** 680-161225o

**Prep Batch:** 680-161109o

**Instrument ID:** N/Ao

**Lab File ID:** N/Ao

**Initial Weight/Volume:** 50 mL

**Final Weight/Volume:** 50 mL
<table>
<thead>
<tr>
<th>Lab Section</th>
<th>u alifiera</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC/k S VOA*</td>
<td>U*</td>
<td>Indic. he <em>analyte wa. analyzed for but not detected.</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCS or LCSD exceeds the control limits*</td>
</tr>
<tr>
<td>Metals*</td>
<td>U*</td>
<td>Indic. he <em>analyte wa. analyzed for but not detected.</em></td>
</tr>
</tbody>
</table>
MR hodiRanokibatch:c680-161019u

Method: 8260Bu
Preparation: 5030Bu

<table>
<thead>
<tr>
<th>AnalytU</th>
<th>RUbuU</th>
<th>QualU</th>
<th>RLU</th>
</tr>
</thead>
<tbody>
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<tr>
<td>BenzeneU</td>
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</tr>
<tr>
<td>Butaneform.</td>
<td>1.0.</td>
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<tr>
<td>ButaneomethaneU</td>
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<td></td>
<td>1.0.</td>
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<tr>
<td>Carbon disulfideU</td>
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<td>2.</td>
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<tr>
<td>Calcium tetrachlorideU</td>
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<td></td>
<td>1.0.</td>
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<td>ChlorodibromomethaneU</td>
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<td>1.0.</td>
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<td>1.0.</td>
</tr>
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<td>EthylbenzeneU</td>
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<tr>
<td>4-Methyl-2-ButanoneU</td>
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<td>1.0.</td>
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<tr>
<td>Vinyl chlorideU</td>
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<td>1.0.</td>
</tr>
<tr>
<td>Xylenes, TotalU</td>
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<td>2.</td>
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SurrogatU % RUbuU AcuitytanicU LimitsU

4-ButylfluorobenzeneU 95. 5 - 1. 0.
i BromofluoromethaneU 111. 5 - 1. 1.
TolueneU (Sur)U 10. 5 - 1. 0.

Calculations aU pU formed before rounding to avoid round-off errors in calculation results U
Quality Control Results

Lab Control Sample/ii
Lab Control Sample Duplicate Recovery Report - Batch: 680-161019u

<table>
<thead>
<tr>
<th>LCS Lab SamplU</th>
<th>LCS 680-161019/4U</th>
<th>Analysis BatchU 680-161019u</th>
<th>nsttlament . MSOU</th>
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<tbody>
<tr>
<td>ClUUt MatUlKU</td>
<td>WatU</td>
<td>PU p BatchUN.AU</td>
<td>Lab FillU.</td>
</tr>
<tr>
<td>il utionU</td>
<td>1.0</td>
<td>UnitsU ug/LU</td>
<td>oo16.5.dU</td>
</tr>
<tr>
<td>atU AnalyzUUbU</td>
<td>0. 16. 010 1101.</td>
<td></td>
<td>Initial UWght/Volume:. 5 mLU</td>
</tr>
<tr>
<td>atU PupaUudU</td>
<td>0. 16. 010 1101.</td>
<td></td>
<td>Final UWght/Volume:. 5 mLU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LCSDI Lab SamplU</th>
<th>LCSDI 680-161019/B</th>
<th>Analysis BatchU 680-161019u</th>
<th>nsttlament . MSOU</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClUUt MatUlKU</td>
<td>WatU</td>
<td>PU p BatchUN.AU</td>
<td>Lab FillU.</td>
</tr>
<tr>
<td>il utionU</td>
<td>1.0</td>
<td>UnitsU ug/LU</td>
<td>oo16...dU</td>
</tr>
<tr>
<td>atU AnalyzUUbU</td>
<td>0. 16. 010 1130.</td>
<td></td>
<td>Initial UWght/Volume:. 5 mLU</td>
</tr>
<tr>
<td>atU PupaUudU</td>
<td>0. 16. 010 1130.</td>
<td></td>
<td>Final UWght/Volume:. 5 mLU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AnalytU</th>
<th>LCSU</th>
<th>LCSDU</th>
<th>LimitU</th>
<th>RPDU</th>
<th>RPDU LimitU</th>
<th>LCS QualU</th>
<th>LCSD QualU</th>
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<tbody>
<tr>
<td>AcetoneU</td>
<td>104U</td>
<td>108.</td>
<td>- 1.5.</td>
<td>4U</td>
<td>50.</td>
<td>30.</td>
<td>30.</td>
</tr>
<tr>
<td>BUNzU</td>
<td>1037U</td>
<td>105.</td>
<td>- 1192U</td>
<td>30.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BlaUform.</td>
<td>4U</td>
<td>- 133U</td>
<td>1.</td>
<td>30.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>BlaUomethanU</td>
<td>95.</td>
<td>- 184U</td>
<td>8.</td>
<td>50.</td>
<td></td>
<td></td>
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<tr>
<td>CaUion disulfidU</td>
<td>100.</td>
<td>101.</td>
<td>55 - 131.</td>
<td>1.</td>
<td>30.</td>
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<tr>
<td>CaUion taUchloridU</td>
<td>4U</td>
<td>- 135.</td>
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<td>30.</td>
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<tr>
<td>ChlorobenzUH</td>
<td>99U</td>
<td>99U</td>
<td>5 - 116.</td>
<td>0.</td>
<td>30.</td>
<td></td>
<td></td>
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<tr>
<td>ChlorodibromomethanU</td>
<td>97U</td>
<td>9U</td>
<td>5 - 133U</td>
<td>1.</td>
<td>30.</td>
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<tr>
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<td>50.</td>
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<td>106.</td>
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<td>0.</td>
<td>30.</td>
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<tr>
<td>ChloromethanU</td>
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<td>105.</td>
<td>4U - 142U</td>
<td>8</td>
<td>50.</td>
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<td></td>
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<tr>
<td>cis-1,2Uchi orothethU</td>
<td>106.</td>
<td>10.</td>
<td>9 - 134U</td>
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<td></td>
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<tr>
<td>cis-1,3-ichi oropUpanU</td>
<td>101.</td>
<td>101.</td>
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<td>0.</td>
<td>30.</td>
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<td></td>
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<tr>
<td>ichi orobromomethanU</td>
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<td>-</td>
<td>0.</td>
<td>30.</td>
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<tr>
<td>1,1-ichi orothanU</td>
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<td>105.</td>
<td>4 - 1.</td>
<td>1.</td>
<td>30.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2Uchi orothanU</td>
<td>9U</td>
<td>99U</td>
<td>- 1 32U</td>
<td>1.</td>
<td>30.</td>
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<td></td>
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<tr>
<td>1,1-ichi orothUH</td>
<td>100.</td>
<td>105.</td>
<td>- 141.</td>
<td>5.</td>
<td>30.</td>
<td></td>
<td></td>
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<tr>
<td>1,2Uchi oropUpanU</td>
<td>100.</td>
<td>100.</td>
<td>3 - 14U</td>
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<td>30.</td>
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<tr>
<td>EthylbenzUH</td>
<td>105.</td>
<td>105.</td>
<td>- 116.</td>
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<td>30.</td>
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<tr>
<td>-UcanonU</td>
<td>104U</td>
<td>104U</td>
<td>34 - 161.</td>
<td>0.</td>
<td>30.</td>
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<td>MethylUH/CloridU</td>
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<td>0 - 1.5.</td>
<td>30.</td>
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<tr>
<td>-ButanonU(MEK)U</td>
<td>112</td>
<td>10.</td>
<td>33 - 15.</td>
<td>5.</td>
<td>30.</td>
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<tr>
<td>4-MUtyl-. -pUtanonU(MIBK)U</td>
<td>109U</td>
<td>113U</td>
<td>40 - 151.</td>
<td>4U</td>
<td>30.</td>
<td></td>
<td></td>
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<tr>
<td>StyUZnU</td>
<td>1.</td>
<td>-</td>
<td>0.</td>
<td>30.</td>
<td>*U</td>
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<td></td>
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<tr>
<td>1,1,2,2U tUchlorothanU</td>
<td>101.</td>
<td>103U</td>
<td>9 - 1.9U</td>
<td>30.</td>
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<tr>
<td>T tUchloethethUH</td>
<td>9U</td>
<td>91.</td>
<td>-</td>
<td>4U</td>
<td>30.</td>
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<td>ToluEnU</td>
<td>10.</td>
<td>10.</td>
<td>1 - 11.</td>
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<td>30.</td>
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<tr>
<td>tUans-1,2Uchi orothethU</td>
<td>105.</td>
<td>10.</td>
<td>- 131.</td>
<td>3U</td>
<td>30.</td>
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<tr>
<td>tUans-1,3-ichi oropUpanU</td>
<td>9U</td>
<td>9U</td>
<td>3 - 1.</td>
<td>1.</td>
<td>30.</td>
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<td></td>
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<tr>
<td>1,1,1-T ichloroethanU</td>
<td>97U</td>
<td>99U</td>
<td>- 1.</td>
<td>30.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1,1,2U ichloroethanU</td>
<td>1037U</td>
<td>105.</td>
<td>5 - 1.1</td>
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<td>T ichloroethUH</td>
<td>100.</td>
<td>100.</td>
<td>4 - 115.</td>
<td>1.</td>
<td>30.</td>
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</table>

Calculations aU pU formed beof rounding to avoid round-off errors in calculatU results.U
Quality Control Results

Lab Control Sample/ u
Lab Control Sample Duplicate Recovery Report - Batch: 680-161019u

<table>
<thead>
<tr>
<th>LCS Lab Sample</th>
<th>LCS 680-161019/4U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Material</td>
<td>WatU</td>
</tr>
<tr>
<td>Collection Date</td>
<td>0. 16. 010 1101.</td>
</tr>
<tr>
<td>Analyte</td>
<td>Analysis Batch 680-161019U</td>
</tr>
<tr>
<td>PU p BatchUN.AU</td>
<td>Units U ug/LU</td>
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</tbody>
</table>

Method: 8260Bu
Preparation: 5030Bu

<table>
<thead>
<tr>
<th>LCS Lab Sample</th>
<th>LCS 680-161019/31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Material</td>
<td>WatU</td>
</tr>
<tr>
<td>Collection Date</td>
<td>0. 16. 010 1130.</td>
</tr>
<tr>
<td>Analyte</td>
<td>Analysis Batch 680-161019U</td>
</tr>
<tr>
<td>PU p BatchUN.AU</td>
<td>Units U ug/LU</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Analyte</th>
<th>% RU, U</th>
<th>LCSU</th>
<th>LCSDU</th>
<th>LimitU</th>
<th>RPDU</th>
<th>RPDU LimitU</th>
<th>LCS QualU</th>
<th>LCSDI QualU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl chloride</td>
<td>109U</td>
<td>11.</td>
<td>59 - 144U</td>
<td>50.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xylene, Total</td>
<td>10.</td>
<td>10.</td>
<td>4 - 118.</td>
<td>30.</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Surrogate | LCS % RU,U | LCSDI% RU,U | Accuplan U Limits U |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Bromo-1-fluorobenzene</td>
<td>93U</td>
<td>9U</td>
<td>5 - 1.0.</td>
</tr>
<tr>
<td>1-bromo-1-fluoromethane</td>
<td>104U</td>
<td>105.</td>
<td>5 - 1.1.</td>
</tr>
<tr>
<td>Toluene dU (Surrogate)</td>
<td>103U</td>
<td>105.</td>
<td>5 - 1.0.</td>
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</table>

Calculations aU pU formed before rounding to avoid round-off errors in calculatUd results U
## Quality Control Results

**Method Blank - Batch: 680-161109u**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result U</th>
<th>Qual U</th>
<th>RLU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al Umic U</td>
<td>0.0</td>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>Ch Umium</td>
<td>10.0</td>
<td></td>
<td>10.0</td>
</tr>
<tr>
<td>Copper U</td>
<td>0.0</td>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>L Urd U</td>
<td>10.0</td>
<td></td>
<td>10.0</td>
</tr>
<tr>
<td>Zinc U</td>
<td>0.0</td>
<td></td>
<td>0.0</td>
</tr>
</tbody>
</table>

**Method: 6010Cu**  
**Preparation: 3005Au**  
**Total Recoverable**

- nstlament : CPDU
- Lab Fill U: N.AU
- Initial W Ught/Volume: 50 mL U
- Final W Ught/Volume: 50 mL U

## Lab Control Sample - Batch: 680-161109u

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Spike Amount U</th>
<th>Result U</th>
<th>% Result U</th>
<th>Limit U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al Umic U</td>
<td>0.000</td>
<td>1930.0</td>
<td>9.0</td>
<td>5 - 1.5</td>
</tr>
<tr>
<td>Ch Umium</td>
<td>0.000</td>
<td>197U</td>
<td>99.0</td>
<td>5 - 1.5</td>
</tr>
<tr>
<td>Copper U</td>
<td>50.0</td>
<td>4U</td>
<td>99.0</td>
<td>5 - 1.5</td>
</tr>
<tr>
<td>L adU</td>
<td>500.0</td>
<td>49U</td>
<td>9.0</td>
<td>5 - 1.5</td>
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<tr>
<td>Zinc U</td>
<td>500.0</td>
<td>500.0</td>
<td>100.0</td>
<td>5 - 1.5</td>
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</table>

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

TestAmerica Savannahu  
Page 11 of 13
<table>
<thead>
<tr>
<th>Sample ID/Location</th>
<th>Matrix</th>
<th>Date/Time Sampled</th>
<th>Lab ID</th>
<th>Remarks</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Effluent</td>
<td>L</td>
<td>210/10, 1600</td>
<td>3</td>
<td>1</td>
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</tr>
</tbody>
</table>

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

**Total No. of Bottles/Containers**

**Relinquished by:**  
signature  
**Organization:** ARCADIS

**Received by:**  
signature  
**Organization:** TH SAV

**Date:** 2/11/16  
**Time:** 09:00  
**Seal Intact?** Yes  
**Date:** 2/12/16  
**Time:** 09:33  
**Seal Intact?** Yes

**Special Instructions/Remarks:**  
Temp 2.0

**Delivery Method:**  
☐ In Person  
☒ Common Carrier Fed Ex  
☐ Lab Courier  
☐ Other
<table>
<thead>
<tr>
<th>Question</th>
<th>F/ NAb</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below S background</td>
<td>N/AS</td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or S tampered with.S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>COC is present.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and S the COC.S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples are received within Holding Time.S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Amples containers have legible labels.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Amples collection date/times are provided.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Amples bottles are completely filled.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested S MS/MSDsS</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in S diameter.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT S eedsS</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>Multiphasic samples are not present.S</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Amples do not require splitting or compositing.S</td>
<td>N/AS</td>
<td></td>
</tr>
<tr>
<td>Is the Field Sampler's name present on COC?S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Amples Preservation VerifiedS</td>
<td>TrueS</td>
<td></td>
</tr>
</tbody>
</table>
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

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).
Comments
No additional co. n tS k

ceipt l
All samples we6r6 sc6ved in go6d condition withi6 tSpek raturS r$ uirS n tS S

Metals l
Method 1631E: The matrix spike / matrix spike duplicat$S(MS/MSD) rScouveKes for batch 400-103S 9l 400-10382b weKs out$de contro. k imitS. The associat$ at la boratoty contro. sample (LCS) rScovely me6kacc$ tancS critSria. Data was f-aged and r$ ort$ as isK S

No otheK anaLytical or quality is$S wekrS ot$ . S
### Method Summary:

<table>
<thead>
<tr>
<th>Description:</th>
<th>Lab Location:</th>
<th>Method:</th>
<th>Preparation Method:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT cury, Low LTvTl (CVAFS)</td>
<td>L PEN.</td>
<td>EPA1631ET</td>
<td></td>
</tr>
<tr>
<td>PT paTation, MT cury, Low LTvTl</td>
<td>L PEN.</td>
<td>EPA1631E</td>
<td></td>
</tr>
</tbody>
</table>

**Lab References:**

AL PEN = . stAherica TnsacolaT

**Method References:**

EPA = US EnviRonmental Protection Agency TncyT
<table>
<thead>
<tr>
<th>M: thb</th>
<th>Analyst ID:</th>
</tr>
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<tr>
<td>EPA 1C31E.</td>
<td>Jones, RTndS</td>
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T: stAml rica P-nsacolap
# Sample Summary 2

**Client:** ARCADIT U.S., Inc.

**Job Number:** 40045588x1C

<table>
<thead>
<tr>
<th>Lab: Samp e ID2</th>
<th>Caeu Samp e ID2</th>
<th>Caeu Matrix</th>
<th>Date/Time: Samp edb</th>
<th>Date/Time: Received edb</th>
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<tbody>
<tr>
<td>400-45588-1I</td>
<td>NTI</td>
<td>Waterl</td>
<td>02/10/2010 1600I</td>
<td>02/12/2010 0925I</td>
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</tbody>
</table>

Testamber Peus a: oam:

Page 5 of 14
SAMPL : S L SI
### 1631E Mercury, low Level (CVAFS) I

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result (ng/L)</th>
<th>Qualifern</th>
<th>RLn</th>
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<tr>
<td>Mercury</td>
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**Method:** 1631En  
**Analysis Batch:** 400-103827n  
**Preparation:** 1631En  
**Prep Batch:** 400-103779n  
**Dilution:** 1.0n  
**Date Analyzed:** 02/15/2010 1406n  
**Date Prepared:** 02/12/2010 1500n  
**Instrument ID:** n  
**Lab File ID:** n  
**Initial Weight/Volume:** 40 mL  
**Final Weight/Volume:** 40 mL
QUALITYpCuTROLp  SULTSp
## Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 400-45588-1n

### QC Association B- mmaryu

<table>
<thead>
<tr>
<th>Lau Saml le ID-</th>
<th>Client Saml le ID-</th>
<th>Result Basisu</th>
<th>Client Matrix-</th>
<th>Method-</th>
<th>Preu Batch-</th>
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**Result Basisu**

T = Totalc

TestAmerica Bensacolau
Quality Control Results

Method Blank - Batchb 400-103779R

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<th>Lab Sample</th>
<th>LucTnT acixc</th>
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Lab Control Sample/R

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

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Lab Control Sample/R

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

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<th>PI LimitT</th>
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<th>LCSD Qualc</th>
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<td>79 - 121c</td>
<td>6c</td>
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Calculadons ac p. forme. before rounTing .o avoiT rounT-off errors in calculac resuls.T
### Quality Control Results

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

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<th>PI</th>
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<tr>
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Calculations are performed before reviewing, avoiding rounding-off errors in calculations.
<table>
<thead>
<tr>
<th>Lab Section</th>
<th>u alifierl</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Metalsu</td>
<td>Fu</td>
<td>MS or MSD exceeds the control limitsu</td>
</tr>
<tr>
<td>Question</td>
<td>/F/ NA1</td>
<td>Comment</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Radioactivity either was not measured or below detection limit.</td>
<td>N/Au</td>
<td></td>
</tr>
<tr>
<td>TUE cooled and if present, is at desired temperature.</td>
<td>N/Au</td>
<td></td>
</tr>
<tr>
<td>TUE cooler or samples were compromised and tampered.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler temperature is acceptable.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler temperature is recorded.</td>
<td>True</td>
<td>0.6°Cu</td>
</tr>
<tr>
<td>COC is present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled with ink and legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>TUE is not presently available.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples were received at the time of the collection.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample containers are legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/time are provided.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are sed.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are complete and filled.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>TUE is sufficient for all requested analyses, including un requested TUE</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>MS/MS methodology.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>VOA sample vials were un opened at room temperature or bubble point (1/4&quot;)</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>If necessary, staff was informed when samples should be processed or quick TAT was needed.</td>
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</tr>
<tr>
<td>Multiples of samples are not present.</td>
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<tr>
<td>Samples were submitted for compounding.</td>
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<td></td>
</tr>
<tr>
<td>Is there a field sampler's name present on COC?</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample preservation verified.</td>
<td>True</td>
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</tbody>
</table>
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

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.

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:

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<td>TAL SAVT</td>
<td>SWUI T8.2DT BT</td>
<td>SWUI T50 30 BT</td>
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<td>PurgT and Ttrapu</td>
<td>TAL SAVT</td>
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<td>SWUI T6 010 CU</td>
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<td>M tals (tICP).</td>
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<td>SWUI T 3005 AU</td>
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<td>Pn pation, Total RUbolv abLV . i ssolvld M talsl</td>
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**Lab References:**

TAL SAV = TbstAmerica Savannah

**Method References:**

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<th>M: th1</th>
<th>Analyst1</th>
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<tr>
<td>SW846S 8260B4</td>
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<td>CLo</td>
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<td>SW846S 6010Cu</td>
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<td>BCB4</td>
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<td>680-55836-1,</td>
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**8260B volatile Organic Compounds (GC/MS):**

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### 8260B volatile Organic Compounds (GC/MS):

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**Surrogate:**
- 4-Bromofluorobenzene, 98, 75 - 120
- Dibromofluoromethane, 95, 75 - 121
- Toluene-d8 (Surr), 109, 75 - 120
### 6010C Metals(ICP)-Total Recoverable 1

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**Method:** 6010C  
**Preparation:** 3005A  
**Dilution:** 1.0  
**Date Analyzed:** 03/19/2010 0406  
**Date Prepared:** 03/18/2010 1201
## Lab Section

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Quality Control Results

Method Blank - Batch: R0 -1637du

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Calculations aU pu formed before rounding to avoid round-off errors in calculation results.U
### Quality Control Results

**CltUhtU ARCADIS U.S., nc.U**

**Job Number:** 680-5583U1.

**Lab Control Bamule/1**

**Lab Control Bamule BuRlicate Recovery ReRoRt - Batch: R0 -1687Tu**

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<td></td>
<td></td>
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</tr>
<tr>
<td>T, tUthchloroethanU</td>
<td>102.</td>
<td>103U</td>
<td>7 - 129.</td>
<td>5</td>
<td>30</td>
<td></td>
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<tr>
<td>ToluenU</td>
<td>110.</td>
<td>110.</td>
<td>1 - 117c</td>
<td>0</td>
<td>30</td>
<td></td>
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<tr>
<td>tUthan-1,2,3-UthethanU</td>
<td>105.</td>
<td>104.</td>
<td>72 - 131</td>
<td>1</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tUthan-1,2,3-UropuUpanU</td>
<td>109.</td>
<td>110.</td>
<td>72 - 131</td>
<td>1</td>
<td>30</td>
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<tr>
<td>1,1,1,2-T,ichloroethanU</td>
<td>113U</td>
<td>112.</td>
<td>7 - 129.</td>
<td>5</td>
<td>30</td>
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<tr>
<td>1,1,2,3-T,ichloroethanU</td>
<td>103U</td>
<td>103U</td>
<td>72 - 131</td>
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<tr>
<td>tIchloethanU</td>
<td>104.</td>
<td>104.</td>
<td>4 - 115.</td>
<td>1</td>
<td>30</td>
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<td></td>
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</tbody>
</table>

Calculations aU pu formed before rounding to avoid round-off errors in calculatU results.U
Quality Control Results

Lab Control Bamule/1
Lab Control Bamule Burilate Recovery Report - Batch: R0 -1687/\( \cup \)

| LCS Lab SampleU | LGCS 680-1637/\( \cup \) /4. | Analysis BatchU 680-1637/\( \cup \) | nsl\( \text{m} \)ent. | MSP
|-----------------|---------------------------------|---------------------------------|----------------|-----|
| CluHt Mat\( \text{le} \)U | WatU | P p BatchUN/AU | Lab FillU | pq149.d,
| il utionU | 1.0. | nitsU ug/LU | nitial WUght/Volume.: 5 mLU
| atU Analyz\( \text{U} \)d, | 03/23/2010 0852. | | Final WUght/Volume.: 5 mLU
| atU P paU d | 03/23/2010 0852. | |

| LCSDI\( \text{le} \) Lab Samp\( \text{le} \)U | LCSDI\( \text{le} \) 80-1637/\( \cup \) /5. | Analysis BatchU 680-1637/\( \cup \) | nsl\( \text{m} \)ent. | MSP
|-----------------|---------------------------------|---------------------------------|----------------|-----|
| CluHt Mat\( \text{le} \)U | WatU | P p BatchUN/AU | Lab FillU | pq151.d,
| il utionU | 1.0. | nitsU ug/LU | nitial WUght/Volume.: 5 mLU
| atU Analyz\( \text{U} \)d, | 03/23/2010 0922. | | Final WUght/Volume.: 5 mLU
| atU P paU d | 03/23/2010 0922. | |

<table>
<thead>
<tr>
<th>AnalytU</th>
<th>% RU U</th>
<th>LCSU</th>
<th>LCSDU</th>
<th>LimitU</th>
<th>RP</th>
<th>RP</th>
<th>LimitU</th>
<th>LCS QualU</th>
<th>LCSDI QualU</th>
</tr>
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<tbody>
<tr>
<td>Vinyl chlorid.</td>
<td>7c</td>
<td>116.</td>
<td>59 - 144.</td>
<td>29.</td>
<td>50.</td>
<td>108.</td>
<td>106.</td>
<td>4 - 118.</td>
<td>2.</td>
</tr>
<tr>
<td>XylUnUs, TotalU</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SurrogatU</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>SurrogatU</th>
<th>LCS % RU U</th>
<th>LCSDI% RU U</th>
<th>AcctUplancU LimitsU</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Bl( \text{m} )ofluorobenzU U</td>
<td>106.</td>
<td>9.</td>
<td>75 - 120.</td>
</tr>
<tr>
<td>i bromofluoromethanU</td>
<td>102.</td>
<td>102.</td>
<td>75 - 121.</td>
</tr>
<tr>
<td>Toluenu d, (Surr)U</td>
<td>108.</td>
<td>109.</td>
<td>75 - 120.</td>
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Calculations aU pu formed before rounding to avoid round-off errors in calculatU d results.U
### Quality Control Results

**Job Number:** 680-5583U1

#### Method Blank - Batch: R0 -1683991

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<thead>
<tr>
<th>Analyte</th>
<th>Result (ng/L)</th>
<th>Qual (ng/L)</th>
<th>RLU</th>
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<tbody>
<tr>
<td>Al</td>
<td>20.</td>
<td>20.</td>
<td></td>
</tr>
<tr>
<td>Cu</td>
<td>10.</td>
<td>10.</td>
<td></td>
</tr>
<tr>
<td>Cd</td>
<td>20.</td>
<td>20.</td>
<td></td>
</tr>
<tr>
<td>Li</td>
<td>10.</td>
<td>10.</td>
<td></td>
</tr>
<tr>
<td>Zn</td>
<td>20.</td>
<td>20.</td>
<td></td>
</tr>
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</table>

**Lab Control Blank - Batch: R0 -1683991**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Spik (ng/L)</th>
<th>Amount (ng/L)</th>
<th>Result (ng/L)</th>
<th>% RUL</th>
<th>Limit (ng/L)</th>
<th>Qual (ng/L)</th>
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</thead>
<tbody>
<tr>
<td>Cu</td>
<td>200.</td>
<td>207c</td>
<td>103U</td>
<td>75 - 125.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cd</td>
<td>250.</td>
<td>259.</td>
<td>104.</td>
<td>75 - 125.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Li</td>
<td>500.</td>
<td>509.</td>
<td>102.</td>
<td>75 - 125.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zn</td>
<td>500.</td>
<td>524.</td>
<td>105.</td>
<td>75 - 125.</td>
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<td></td>
</tr>
</tbody>
</table>

Calculations are performed before rounding to avoid round-off errors in calculated results.
**Project Reference:** UNC- Airport Rd.  
**Project No:** NC008239-0019-0001  
**Project Location:** NC  
**Matrix Type:** VOCs  
**Required Analysis:** Metals 600  
**Sample:** Effluent  
**Date:** 3/12/10  
**Time:** 13:45

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/12/10</td>
<td>13:45</td>
<td><em>Report: As, Cr, Cu, Pb, and Zn.</em></td>
</tr>
<tr>
<td>Question</td>
<td>/F/ NA1</td>
<td>Comment</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Radioactivity other, au not meau re dâr, if sneau re d' i, at or belo, backgroundS</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>The cooler's âu, tody seau if're, ent, i, intact,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>The cooler or, ampâe, do not appear to have been compori, edâr, tamperedS ith,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sampâe, e re received ân ice,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature i, acceptable,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature i, recorded,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC i, pre, ent,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC i, filled but in ink and segible,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC i, filled but, ithau pertinent information,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There are no di, crepancie, bet, een the , ampâe ID, on the container, andS the COC.,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sampâe, are received ân Holding Time,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sampâe container, have legible label,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Container, are not broken or leaking,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sampâe collection date/time, are provided,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Appropriate, ampâe container, are u, ed.,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sampâe bottle, are completely filled,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There i, efficient vol. for au reqâe, tedânaysâe incl. any seqâe, tedS MS/MSD,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>VOA, ampâe viau do not have headsâace or bubble i, &lt;6mm (1/4&quot;)ün, diameter,</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>If seece, any S taflâe have been informed âf âny Short holdâme or qâc kâATS needsS</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>MS phauci, ampâe, are not pre, ent,</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Sampâe, do not reqâe, p'étingâr compo, iting,</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>I, the FieldS Sampâe's Same pre, ent on COC?u</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Sampâe Pre, evation VerifiedS</td>
<td>True</td>
<td></td>
</tr>
</tbody>
</table>
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

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).
Comment:
No additional co. n tS k

ceipt D
All samples weK S rSved in g ood condition within tSpek ratSrS rSaS k irS n tS S

Metals D
Method 1631E: The matrix spike / matrix spike dk duplicatS(MS/MSD) rScoveNes for batch 400-1056451 400-105673 weK S o. tSde contro. k
imtS. The assSociatS la boratory contro. sample (LCS) rScoveNy meltacc$ tancS critSria. Data was fugged and rS ortS as isk S

No othek analytKl or qkality issk weK rSn otS. S
**METHOD SUMMARY:**

**Matrix:** Water

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT cury, Low LTvTl (CVAFS)</td>
<td>L PEN.</td>
<td>EPA631ET</td>
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</tr>
<tr>
<td>PT paTati, MT cury, Low LTvTl</td>
<td>L PEN.</td>
<td>EPA631E</td>
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</tbody>
</table>

**Lab References:**

L PEN = StAmer.ca PT sac olaT

**Method References:**

EPA US EnvTb. me. al P'Tb. ctTb. .g.T cyT
<table>
<thead>
<tr>
<th>M: th1</th>
<th>Analyst1</th>
<th>Analyst ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA 1631Eb</td>
<td>Jones, Randyb</td>
<td>Rjb</td>
</tr>
<tr>
<td>Lab Sample I2</td>
<td>C</td>
<td>l</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>00-46183-1.</td>
<td>EFFLUENT.</td>
<td>Water.</td>
</tr>
</tbody>
</table>
SAMPL : S L SD
### 1631E Mercury, low Level (CVAFS)D

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result (ng/L)</th>
<th>Qualifier</th>
<th>RL</th>
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<tr>
<td>Mercury</td>
<td>&lt;0.50</td>
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<td>0.50</td>
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**Client Sample ID:** EFFLUENTa  
**Lab Sample ID:** 00-46183-1.  
**Client Matrix:** Water.  
**Date Sampled:** 03/12/2010 1345b  
**Date Received:** 03/13/2010 0930.  

**Method:** 1631E.  
**Analysis Batch:** 400-105b3.  
**Preparation:** 1631E.  
**Prep Batch:** 400-105b 5b  
**Instrument ID:** HYDRA.  
**Lab File ID:** /A.  
**Dilution:** 1.0.  
**Date Analyzed:** 03/22/2010 1113.  
**Date Prepared:** 03/15/2010 1200.  
**Initial Weight/Volume:** 0 mL.  
**Final Weight/Volume:** 0 mL.
QUALITY CONTROL

SULTS
## Quality Control Results

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

### QC Association Summary

<table>
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<tr>
<th>LaR Sample</th>
<th>Client Sample</th>
<th>eR ort Basis</th>
<th>Client Matrix</th>
<th>Method</th>
<th>PreR Batch</th>
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<tbody>
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<td><strong>Metals</strong></td>
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<tr>
<td><strong>PreR Batch- 400-105645m</strong></td>
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<tr>
<td>LCS 400-105645/2-A0</td>
<td>Lab Control Sample</td>
<td>Water</td>
<td>1631E.</td>
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<tr>
<td>LCSD 40 -105645/3-A0</td>
<td>Control Sample Duplicate0</td>
<td>Water0</td>
<td>1631E0</td>
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<td></td>
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<tr>
<td>MB 40 -105645/1-A0</td>
<td>Method Blank0</td>
<td>Water0</td>
<td>1631E0</td>
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<tr>
<td>40 -46183-10</td>
<td>EFFLUENT0</td>
<td>Water0</td>
<td>1631E0</td>
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<tr>
<td>40 -46209-A-1-B MS0</td>
<td>Matrix Spike0</td>
<td>Water0</td>
<td>1631E0</td>
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<tr>
<td>40 -46209-A-1-C MSD0</td>
<td>Matrix Spike Duplicate0</td>
<td>Water0</td>
<td>1631E0</td>
<td></td>
<td></td>
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</table>

| **Analysis Batch-400-105673D** |               |              |               |        |            |
| LCS 40 -105645/2-A0 | Control Sample0 | Water0 | 1631E0 | 40 -1056450 |            |
| LCSD 40 -105645/3-A0 | Control Sample Duplicate0 | Water0 | 1631E0 | 40 -1056450 |            |
| MB 40 -105645/1-A0 | Method Blank0 | Water0 | 1631E0 | 40 -1056450 |            |
| 40 -46183-10 | EFFLUENT0 | Water0 | 1631E0 | 40 -1056450 |            |
| 40 -46209-A-1-B MS0 | Matrix Spike0 | Water0 | 1631E0 | 40 -1056450 |            |
| 40 -46209-A-1-C MSD0 | Matrix Spike Duplicate0 | Water0 | 1631E0 | 40 -1056450 |            |

*eR ort Basis = Total0*
**Quality Control Results**

**Method Blank - Batch 400-105645R**

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<th>STmplT</th>
<th>IDTMB 400-105645/1-AT</th>
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<th>400-105673T</th>
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<tbody>
<tr>
<td>CTT</td>
<td>MT</td>
<td>xU WU</td>
<td>Pb p Baohb</td>
<td>400-1056450</td>
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<tr>
<td>Dilu.</td>
<td>o.</td>
<td>1.0</td>
<td>Unit$^{g/LU}$</td>
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<td>DT</td>
<td>lyzUdb</td>
<td>03/22/2010 1049.</td>
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<tr>
<td>DT</td>
<td>Pb pu</td>
<td>db 03/15/2010 1200</td>
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<table>
<thead>
<tr>
<th>IyT</th>
<th>suitT</th>
<th>Qu. IRT</th>
<th>LU</th>
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<tbody>
<tr>
<td>MT curryT</td>
<td>&lt;0.50</td>
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</table>

**Method: 1631ER**

**Preparation: 1631ER**

**Lab Control Sample/R**

**Lab Control Sample Duplicate Recovery Report - Batch: 400-105645R**

<table>
<thead>
<tr>
<th>LCS</th>
<th>LUB</th>
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<th>lys s Baohb</th>
<th>400-105673T</th>
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</thead>
<tbody>
<tr>
<td>CTT</td>
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<td>o.</td>
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<td>Unit$^{g/LU}$</td>
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<td>DT</td>
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<th>STmplT</th>
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<th>lys s Baohb</th>
<th>400-105673T</th>
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<td>xU WU</td>
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<tr>
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<td>o.</td>
<td>1.0</td>
<td>Unit$^{g/LU}$</td>
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<td>Pb pu</td>
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<table>
<thead>
<tr>
<th>IyT</th>
<th>%</th>
<th>cT</th>
<th>LCST</th>
<th>LCSDT</th>
<th>Lth.</th>
<th>PDT</th>
<th>PD Lth.</th>
<th>LCS Qu. IT</th>
<th>LCSD Qu. IT</th>
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<tr>
<td>MT curryT</td>
<td>970</td>
<td>100</td>
<td>79 - 1210</td>
<td>3T</td>
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</table>
# Quality Control Results

**Matrix Spike/R**

**Matrix Spike Duplicate Recovery Report - Batch: 400-105645R**

<table>
<thead>
<tr>
<th>MS LUb STmplT IDT</th>
<th>400-46209-A-1-B MST</th>
<th>lys s Baðhb</th>
<th>400-105673T</th>
<th>In∫ ume.</th>
<th>IDT</th>
<th>HYDRAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CliT xU WU</td>
<td>Pb p Baðhb</td>
<td>400-1056450</td>
<td>PSI F2T IDT</td>
<td>N/u</td>
<td>InitiT WUghbVolume:</td>
<td>40 mL</td>
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<tr>
<td>Dil. o. 0.</td>
<td>1.0</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DT iyUdb</td>
<td>03/22/2010</td>
<td>12250</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DT Pb pu db</td>
<td>03/17/2010</td>
<td>0930</td>
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<table>
<thead>
<tr>
<th>MSD LUb STmplT IDT</th>
<th>400-46209-A-1-C MSDT</th>
<th>lys s Baðhb</th>
<th>400-105673T</th>
<th>In∫ ume.</th>
<th>IDT</th>
<th>HYDRAT</th>
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<tbody>
<tr>
<td>CliT xU WU</td>
<td>Pb p Baðhb</td>
<td>400-1056450</td>
<td>PSI F2T IDT</td>
<td>N/u</td>
<td>InitiT WUghbVolume:</td>
<td>40 mL</td>
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<tr>
<td>Dil. o. 0.</td>
<td>1.0</td>
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<td>DT iyUdb</td>
<td>03/22/2010</td>
<td>1233T</td>
<td></td>
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<tr>
<td>DT Pb pu db</td>
<td>03/17/2010</td>
<td>0930</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>c T</th>
<th>%</th>
<th>c T</th>
</tr>
</thead>
<tbody>
<tr>
<td>14B</td>
<td>53T</td>
<td>71</td>
<td>1250</td>
</tr>
<tr>
<td>84B</td>
<td>24B</td>
<td>F0</td>
<td></td>
</tr>
</tbody>
</table>

---

CalðuiT o s. pu formed before rou. db g.o. v o.d rou. d-off errors. cTcuiT d resultS.T

---

**TestAmerica PensacolaR**
### Lab Section

<table>
<thead>
<tr>
<th>u alifierD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metalsb</td>
<td></td>
</tr>
<tr>
<td>Fb</td>
<td>MS or MSD exceeds the control limits</td>
</tr>
<tr>
<td>Fb</td>
<td>RPD of the MS and MSD exceeds the control limits</td>
</tr>
</tbody>
</table>
### ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**Client:** ARCADIS  
**Address:** 801 Corporate Center Dr. Raleigh, NC 27607

**Sampled by:** Dave Tuamley  
**Sampled Date:** 3/12/10  
**Sample Time:** 1345

**Sample Description:** Effluent

**Preservative:**  
- None, Preservative

**Matrix:**  
- Aerobic Water, SW, WW

**Sampling Location:** Low Temp. Mercury (LTH)

**Number of Containers Submitted:** 3

**Requested Analysis:**

**Possible Hazard Identification:**
- Non-Hazard

**No. of Coolers Per Shipment:** 1

**Special Instructions/Conditions of Receipt:**

**Relinquished By:** (Signature)  
**Date:** 3/12/10  
**Time:** 1700

**Received By:** (Signature)  
**Date:** 3/13/10  
**Time:** 9:30

**Temperature:** 2.7°C

**Remarks:**
Logb Sam1 le 1 eci1 Check List1

Client: ARCADIS U.S., Inc.

Logb Number: 46183P
Creator: Chea, VandaP
List Number: 1P

List Source: TestAmerica PensacolaP

<table>
<thead>
<tr>
<th>Question</th>
<th>T / F</th>
<th>NAP</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either measured or not measured</td>
<td>N/Ab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler’s cubic decal is intact</td>
<td>N/Ab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler or bampleb dSnot have been compromised</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sampleb were received at iceb</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable</td>
<td>Trueb</td>
<td>2.7°Cb</td>
<td></td>
</tr>
<tr>
<td>COC is present</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC is filled in in kSandSible</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC is filled with all pertinent information</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the bample ID and the container and the COC</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sampleb were received within Holding Time</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample containerb have legible labelb</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Containerb are not broken or leaking</td>
<td>Trueb</td>
<td></td>
<td></td>
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<tr>
<td>Sample collection date/timeb are providedb</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appropriate bample containerb are usedb</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample bottleb are completely filled</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>There is sufficient bS. IfS all requebted analybeb, incl. any bequestedb</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA bample bialb dSnot have beads or bubles</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA bample bialb dSnot have beads or bubles</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IfS the staff have been informed</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple bampleb are not present</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sampleb dSnot require bplitting or compelling</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ib the Field Sampler’s name is present on COC</td>
<td>Trueb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample Prebervation Verified</td>
<td>Trueb</td>
<td></td>
<td></td>
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</table>
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

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
METHOD SUMMARY:

Matrix: Water:

Volatile, anic, Compou ds (GC/MS), Pur. and T,ap, M, tals (ICP), P, pa,atip. Total R, ov. abl, or Dissolv, d M, tals,

Lab Location: Method: Preparation Method:

TAL SAV, SWB4, 8.2,0 B, SW, 4, 50 30B,

TAL SAV, SW, 4, 60 10C,

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 Editip. Nov,ember 19, And Its. Updat, s.,
<table>
<thead>
<tr>
<th>M: thP</th>
<th>Analyst1</th>
<th>Analyst ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW846</td>
<td>Bearden, RobertN</td>
<td>BN</td>
</tr>
<tr>
<td>SW846</td>
<td>Bland, BrianN</td>
<td>BCBN</td>
</tr>
<tr>
<td>Lab Sample I2</td>
<td>CIQR Sample I2</td>
<td>CIQR Mark2</td>
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<tr>
<td>---------------</td>
<td>---------------</td>
<td>------------</td>
</tr>
<tr>
<td>680-56888-1U</td>
<td>luentU</td>
<td>WaterU</td>
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# 8260Bd/volatile Organic Compounds (GC/MS)

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result (ug/L)</th>
<th>Qualifier</th>
<th>RLc</th>
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<tbody>
<tr>
<td>AcetoneU</td>
<td>25</td>
<td>U</td>
<td>25U</td>
</tr>
<tr>
<td>BenzeneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>BromoformU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>BromomethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>Carbon disulfideU</td>
<td>2.0</td>
<td>U</td>
<td>2.0U</td>
</tr>
<tr>
<td>Carbon tetrachlorideU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>ChlorobenzeneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>ChlorodibromomethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>ChloroethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>ChloroformU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>ChloromethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>cis-1,2-DichloroetheneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>cis-1,3-DichloropropeneU</td>
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<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>DichlorobromomethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>1,1-DichloroetheneU</td>
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<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>1,2-DichloroetheneU</td>
<td>1.7U</td>
<td></td>
<td></td>
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<tr>
<td>1,1-DichloroetheneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>1,2-DichloropropaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>Diethyl etherU</td>
<td>64N</td>
<td></td>
<td>10U</td>
</tr>
<tr>
<td>EthylbenzeneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>2-HeptanoneU</td>
<td>10</td>
<td>U</td>
<td>10U</td>
</tr>
<tr>
<td>Methylene ChlorideU</td>
<td>0.0</td>
<td>5.0U</td>
<td></td>
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<tr>
<td>2-Butanone (MEK)U</td>
<td>10</td>
<td>U</td>
<td>10U</td>
</tr>
<tr>
<td>4-Methyl-2-pentanone (MIBK)U</td>
<td>10</td>
<td>U</td>
<td>10U</td>
</tr>
<tr>
<td>StyreneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>1,1,2,2-TetrachloroethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
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<td>TetrachloroetheneU</td>
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</tr>
<tr>
<td>TolueneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>trans-1,2-DichloroetheneU</td>
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<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>trans-1,3-DichloropropeneU</td>
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<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>1,1,1-TrichloroethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>1,1,2-TrichloroethaneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>Vinyl chlorideU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>Xylenes, TotalU</td>
<td>2.0</td>
<td>U</td>
<td>2.0U</td>
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<table>
<thead>
<tr>
<th>SurrogateU</th>
<th>%RecU</th>
<th>Qualifier</th>
<th>Acceptance LimitsU</th>
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<tbody>
<tr>
<td>4-BromofluorobenzeneU</td>
<td>95U</td>
<td></td>
<td>75 - 120U</td>
</tr>
<tr>
<td>DibromofluoromethaneU</td>
<td>9U</td>
<td></td>
<td>75 - 121U</td>
</tr>
<tr>
<td>Toluene-d8(Surr)U</td>
<td>103U</td>
<td></td>
<td>75 - 120U</td>
</tr>
</tbody>
</table>
**6010C Metals(ICP)-Total Recoverable P**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result (ug/L)</th>
<th>Qualifier</th>
<th>RLc</th>
</tr>
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<tbody>
<tr>
<td>Arsenic</td>
<td>20</td>
<td></td>
<td>20U</td>
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<tr>
<td>Chromium</td>
<td>10</td>
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<td>10U</td>
</tr>
<tr>
<td>Copper</td>
<td>23U</td>
<td></td>
<td>20U</td>
</tr>
<tr>
<td>Lead</td>
<td>10</td>
<td></td>
<td>10U</td>
</tr>
<tr>
<td>Zinc</td>
<td>97U</td>
<td></td>
<td>20U</td>
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</table>

**Method:** 6010CU  
**Preparation:** 3005AU  
**Analysis Batch:** 680-166990U  
**Prep Batch:** 680-166555U  
**Lab File ID:** N/AU  
**Instrument ID:** ICPDU  
**Initial Weight/Volume:** 0 mL  
**Final Weight/Volume:** 0 mL  

**Client:** ARCADIS U.S., Inc.

**Sample ID:** 680-56888-1U  
**Effluent:** Water

**Client Matri:**

**Lab Sample ID:** 680-56888-1U  
**Date Sampled:** 04/19/2010 0830U  
**Date Received:** 04/20/2010 0915U  
**Date Prepared:** 04/23/2010 124N  
**Date Analyzed:** 04/27/2010 1804N
<table>
<thead>
<tr>
<th>Lab Section</th>
<th>u alifierD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC/MS VOA1</td>
<td>U1</td>
<td>indicates the analyte was analyzed for but not detected.1</td>
</tr>
<tr>
<td>Metals1</td>
<td>U1</td>
<td>indicates the analyte was analyzed for but not detected.1</td>
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</table>
## Quality Control Results

**MethP Blank - Batch hP 0 -1P 96u**

<table>
<thead>
<tr>
<th></th>
<th>Result1</th>
<th>Qual1</th>
<th>RL</th>
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<td>Actto</td>
<td>25.</td>
<td>U1</td>
<td>25.</td>
</tr>
<tr>
<td>B1 z</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Bromofom</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Bromomethan</td>
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<td>U1</td>
<td>.0</td>
</tr>
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<td>CaNo. dHulf</td>
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<td>U1</td>
<td>2.0</td>
</tr>
<tr>
<td>CaNo. tTclor.d</td>
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<td>.0</td>
</tr>
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<td>Chlorob. z</td>
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<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>ChlorodNromometha</td>
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<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Chloroetha</td>
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<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Chloroform</td>
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<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Chlorometha</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>c8-1,2-Dichloroeth</td>
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<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>c8-1,3-Dichloro,op</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Dichlorobromometha</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>1,1-Dichloroeth</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>1,2-Dichloroeth</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>1,1-Dichloroeth</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>1,2-Dichloro,opNaN</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Di, thyl eth</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>Ethylbe. zB</td>
<td>0.</td>
<td>U1</td>
<td>.0</td>
</tr>
<tr>
<td>2-H1 aNb.</td>
<td>0.</td>
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<tr>
<td>M1thyl1 Chlor.dN</td>
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### Quality Control Results

**LabControl Sample/P**

**LabControl Sample Duplicate Recovery Report - Batch hP 0 -1P 96**

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Lab Control Sample/P  
Lab Control Sample Duplicate Recovery Report - Batch hP 0 -1P 96u

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Surrogate 1 | LCS % R1c1 | LCSD % R1c1 | Acc1 pN1 L.m.1 |
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<td>c1</td>
<td>2000.</td>
<td>2060.</td>
<td>031</td>
<td>75 . .25.</td>
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<td>Chlom. um.</td>
<td>31</td>
<td>200.</td>
<td>1</td>
<td>2</td>
<td>07N</td>
</tr>
<tr>
<td>Copp.</td>
<td></td>
<td>250.</td>
<td></td>
<td>2N4N</td>
<td>05.</td>
</tr>
<tr>
<td>L, adN</td>
<td></td>
<td>500.</td>
<td></td>
<td>52N</td>
<td>06.</td>
</tr>
<tr>
<td>Z, c1</td>
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<td>500.</td>
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<td>531</td>
<td>07N</td>
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**Analysis Request and Chain of Custody Record**

**TestAmerica**

**The Leader in Environmental Testing**

<table>
<thead>
<tr>
<th>Project Reference</th>
<th>Project No.</th>
<th>Project Location (State)</th>
<th>Matrix Type</th>
<th>REQUIRED ANALYSIS</th>
<th>PAGE</th>
<th>OF</th>
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<td>UNC-Airport Rd.</td>
<td>NC000239.0018.00001</td>
<td>NC</td>
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<td>Metals (Co-60)</td>
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<td>Vocs (8268)</td>
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<td><strong>RESERVATIVE</strong></td>
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**Sample**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Sample Identification</th>
<th>Composite (or) Grab Sample</th>
<th>Aqueous Water</th>
<th>Solid or Semisolid</th>
<th>Air</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>4/19/10</td>
<td>830</td>
<td>Effluent</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
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</table>

**Relinquished By:** Signature

**Date:** 4/19/10  
**Time:** 12:30

**Received By:** Signature

**Date:** 4/19/10  
**Time:** 09:15

**Laboratory Use Only**

**Received for Laboratory By:** Signature

**Date:** 4/19/10  
**Time:** 09:15

**Custody Intact:** Yes  
**Custody Seal No.:** 558888

**Laboratory Remarks:** Temp 0.4
<table>
<thead>
<tr>
<th>Question</th>
<th>/ F/ NA1</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below 1</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>background or backround is incorrect.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T4e cooler's custody seal, if present, is intact.</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>T4e cooler or samples do not appear to have been compromised or tampered</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>cooler was received on ice.</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>COC is present.</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink a legible</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>COC is filled out all pertinent information</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>T4ere are no discrepancies between the sample IDs on the containers and</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>the COC.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samples are received within 5% of the time.</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>Sample containers are legible</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are complete and filled</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>T4ere are sufficient volumes for all requested containers, including</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>the facilities, aC requested 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS/MSDSc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VO sample vials do not have a lead space or bubble ≤ 6mm (1/4&quot;) in the</td>
<td>N/</td>
<td></td>
</tr>
<tr>
<td>diameter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of the quick test time or quick T</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>T4T test time or quick T4T test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiples of samples are not present.</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or composting</td>
<td>True1</td>
<td></td>
</tr>
<tr>
<td>s The field sampler's name is present on COC?N</td>
<td>N/</td>
<td></td>
</tr>
<tr>
<td>Sample Preservation Verified</td>
<td>N/</td>
<td></td>
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</tbody>
</table>
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

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 (LA00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).
Comments
No additional co. n tS k

ceipt L
All samples wekS rScSved in g ood condition within tSpek raturS rSuirS n tSS

Metals L
Method 1631E: The matrix spike / matrix spike duplicatS(MS/MSD) rScoveNes for batch 400-107595/400-107637 wekS outside contro. k imminent. The assiciatS la boratory contro. sample (LCS) rScovey mekacc$ tancS critSria. Data was flagged and rS ortS as iskS

No otheK analytical or quality isKs1 wekrSn ortS S
**METHOD SUMMARY:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
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</thead>
<tbody>
<tr>
<td>M) cury, Low L v I (CVAFS)</td>
<td>TAL PEN.</td>
<td>EPA(1631E)</td>
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</tr>
<tr>
<td>P) paatio., M) cury, Low L v I)</td>
<td>TAL PEN.</td>
<td>EPA(1631E)</td>
<td></td>
</tr>
</tbody>
</table>

**Lab References:**

TAL PEN = T) stAmerica P) sac ola)

**Method References:**

EPA= US Environment al P)io. ctio. .g) cy)
### METHOD / ANALYST SUMMARY

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

<table>
<thead>
<tr>
<th>M: thP</th>
<th>Analyst1</th>
<th>Analyst ID</th>
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<tbody>
<tr>
<td>EPA</td>
<td>1631Ec</td>
<td>Jones, Randyc</td>
</tr>
</tbody>
</table>

T: stAmLrica PLnsacll ap
**SAMPc SUMMARY2**

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

<table>
<thead>
<tr>
<th>ab Sample l2</th>
<th>CIDR Sample l2</th>
<th>CIDR Mark2</th>
<th>a:e/Time : Sampledb</th>
<th>a:e/Time : Redb</th>
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</thead>
<tbody>
<tr>
<td>400-46949-1l</td>
<td>NTI</td>
<td>Waterl</td>
<td>04/19/2010 0830l</td>
<td>04/20/2010 1013l</td>
</tr>
</tbody>
</table>
### 1631E Mercury, lowLevel(RCVAFS)l

<table>
<thead>
<tr>
<th>Method:</th>
<th>1631E</th>
<th>Analysis Batch: 400-107637</th>
<th>Instrument ID: HYDRAI</th>
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<tbody>
<tr>
<td>Preparation:</td>
<td>1631E</td>
<td>PrepBatch: 400-107595l</td>
<td>Lab File ID: N/A</td>
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<tr>
<td>Dilution:</td>
<td>1.0</td>
<td></td>
<td>Initial Weight/Volume: 40 mLc</td>
</tr>
<tr>
<td>Date Analyzed:</td>
<td>04/22/2010 1329l</td>
<td></td>
<td>Final Weight/Volume: 40 mLc</td>
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<td>Date Prepared:</td>
<td>04/20/2010 1445l</td>
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<th>Qualifier</th>
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<td>Mercury</td>
<td>&lt;0.50l</td>
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# Quality Control Results

**Client:** ARCADIS U.S., Inc.

**Job Number:** 400-46949-11

## QC Association Summary

### Metals

<table>
<thead>
<tr>
<th>LaR Sample ID</th>
<th>Client Sample ID</th>
<th>eR Gradient</th>
<th>rR Gradient</th>
<th>Client Matrix</th>
<th>Method</th>
<th>PreR Batch</th>
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<tbody>
<tr>
<td><strong>PreR Batch - 400-107595h</strong></td>
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<tr>
<td>LCS 400-107595/26-A4</td>
<td>Lab Control Sample</td>
<td>Water</td>
<td>16I</td>
<td>1I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSD 400-107595/27-A4</td>
<td>Control Sample Duplicate</td>
<td>W.ter</td>
<td>1631E4</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MB 400-107595/25-A4</td>
<td>Method Blank</td>
<td>W.ter</td>
<td>1631E4</td>
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<td></td>
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</tr>
<tr>
<td>00-46923-A-2-B MS4</td>
<td>Matrix Spike</td>
<td>W.ter</td>
<td>1631E</td>
<td></td>
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<td></td>
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<tr>
<td>400-46923-A-2-C MSD4</td>
<td>Matrix Spike Duplicate</td>
<td>W.ter</td>
<td>1631E</td>
<td></td>
<td></td>
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<tr>
<td>400-46949-14</td>
<td>EFFLUENT4</td>
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### Analysis Batch - 400-107637d

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<th>rR Gradient</th>
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<td>00-1075954</td>
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<td>CSD 400-107595/27-A4</td>
<td>Control Sample Duplicate4</td>
<td>W.ter</td>
<td>1631E4</td>
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<td>W.ter</td>
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<tr>
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=R Basis

= Total4

---

**TestAmerica Rensac-LaR**
## Quality Control Results

**MethP Blank - Batch hP 400-107595c**

<table>
<thead>
<tr>
<th>L. b S</th>
<th>mpl4 ID</th>
<th>MB 400-107595/25-A</th>
<th>Ilysis Bc chc 400-107637c</th>
<th>In§ ume.</th>
<th>ID) HY4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clj)</td>
<td>M1 1x4</td>
<td>W,</td>
<td>Pc p Bc chc 400-1075954</td>
<td>L. b F114 ID</td>
<td>N/c</td>
</tr>
<tr>
<td>i lu.io</td>
<td></td>
<td></td>
<td>Unit§ g/L.</td>
<td>Initij W, ighdVolume: 40 mL</td>
<td>Finij W, ighdVolume: 40 mL</td>
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<table>
<thead>
<tr>
<th>L. b S</th>
<th>mpl4 ID</th>
<th>MB 400-107595/26-A</th>
<th>Ilysis Bc chc 400-107637c</th>
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<tbody>
<tr>
<td>Clj)</td>
<td>M1 1x4</td>
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<td>Pc p Bc chc 400-1075954</td>
<td>L. b F114 ID</td>
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<tr>
<td>i lu.io</td>
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<td></td>
<td>Unit§ g/L.</td>
<td>Initij W, ighdVolume: 40 mL</td>
<td>Finij W, ighdVolume: 40 mL</td>
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### Lab Control Sample/c

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

<table>
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<tr>
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<td>Pc p Bc chc 400-1075954</td>
<td>L. b F114 ID</td>
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<tr>
<td>i lu.io</td>
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<td>Unit§ g/L.</td>
<td>Initij W, ighdVolume: 40 mL</td>
<td>Finij W, ighdVolume: 40 mL</td>
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</tbody>
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<table>
<thead>
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<th>L. b S</th>
<th>mpl4 ID</th>
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<th>Ilysis Bc chc 400-107637c</th>
<th>In§ ume.</th>
<th>ID) HY4</th>
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</thead>
<tbody>
<tr>
<td>Clj)</td>
<td>M1 1x4</td>
<td>W,</td>
<td>Pc p Bc chc 400-1075954</td>
<td>L. b F114 ID</td>
<td>N/c</td>
</tr>
<tr>
<td>i lu.io</td>
<td></td>
<td></td>
<td>Unit§ g/L.</td>
<td>Initij W, ighdVolume: 40 mL</td>
<td>Finij W, ighdVolume: 40 mL</td>
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<table>
<thead>
<tr>
<th>L. b S</th>
<th>mpl4 ID</th>
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<th>Ilysis Bc chc 400-107637c</th>
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<th>ID) HY4</th>
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<tbody>
<tr>
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<td>W,</td>
<td>Pc p Bc chc 400-1075954</td>
<td>L. b F114 ID</td>
<td>N/c</td>
</tr>
<tr>
<td>i lu.io</td>
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<td></td>
<td>Unit§ g/L.</td>
<td>Initij W, ighdVolume: 40 mL</td>
<td>Finij W, ighdVolume: 40 mL</td>
</tr>
</tbody>
</table>

### Method: 1631Ec

#### Preparation: 1631Ec

<table>
<thead>
<tr>
<th>l yt</th>
<th>sul</th>
<th>Qual4</th>
<th>L.</th>
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<tbody>
<tr>
<td>M1 cury)</td>
<td>&lt;0.504</td>
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<td>0.504</td>
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<table>
<thead>
<tr>
<th>l yt</th>
<th>LCS (%)</th>
<th>LCS (%)</th>
<th>Limit</th>
<th>Pc</th>
<th>Pc</th>
<th>LCS Qu.4</th>
<th>LCS Qu.4</th>
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<tbody>
<tr>
<td>M1 cury)</td>
<td>84)</td>
<td>86)</td>
<td>79 - 1214</td>
<td>2c</td>
<td>204</td>
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**Matrix Spike/c**  
**Matrix Spike Duplicate Recovery Report - Batch: 400-107595c**

<table>
<thead>
<tr>
<th>Description</th>
<th>Batch Number</th>
<th>Concentration</th>
<th>Recovery (%)</th>
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<tbody>
<tr>
<td>MS L. b S) mpl4 ID</td>
<td>400-46923-A-2-B MS</td>
<td>400-107637c</td>
<td>1.04</td>
</tr>
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<td>Cli) M1 ix4</td>
<td>W,</td>
<td>Lysis Bc chc</td>
<td>Pc p Bc chc 400-1075954</td>
</tr>
<tr>
<td>i lu.io.</td>
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<td></td>
<td>04/22/2010 1116</td>
</tr>
<tr>
<td>. l yzBdN</td>
<td>04/22/2010 1116</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pc p, dN</td>
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<tr>
<td><strong>MSD(L. b S) mpl4 ID</strong></td>
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<td>Pc p, dN</td>
<td>04/21/2010 15154</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Method: 1631Ec**  
**Preparation: 1631Ec**
<table>
<thead>
<tr>
<th>Lab Section</th>
<th>aliquierL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metalsu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F.</td>
<td></td>
<td>MS or MSD exceeds the control limits</td>
</tr>
<tr>
<td>Fb</td>
<td></td>
<td>RPD of the MS and MSD exceeds the control limits</td>
</tr>
</tbody>
</table>
**Analysis Request and Chain of Custody Record**

**TestAmerica Pensacola**
3355 McLemore Drive
Pensacola, FL 32514

**Quote No.**

**Bottle Order No.**

**Order Log-In No.**

---

**Client:** ARCADIS
**Address:** 801 Corporate Center Dr., Raleigh, NC 27607

**Project Name:** UNC-Airport Rd.
**Project No.:** NC000239.0001

**Client Project Manager:** Alan Pinnix

**Contract/P.O. No.:**

**Client Phone:** 919-854-1282
**Client E-mail or Fax:** apinnix@arcadis-us.com

**TAT Requested:** Rush needs lab preapproval (R) Normal - 10 business days

- 1 day
- 2 days
- 3 days
- 5 days
- 10 days
- Other:

**Sample Disposal:** See contract or return to client or disposal by lab

**Preservative:** No Preservative
**Matrix:** Drinking Water

**Sample Date:** 4/19/10
**Sample Time:** 8:30
**Sample Identification:** Effluent

**Number of Containers Submitted:** 3

**Special Instructions/Conditions of Receipt:**

---

**Relinquished By: (Signature):**
**Date:** 4/19/10
**Time:** 12:30

**Received By: (Signature):**
**Date:**
**Time:**

**Remarks:**

- Temperature: 22°C
**Logb SamP le ReceiP Check ListP**

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

**Logb Number:** 469491  
**List Source:** TestAmerica Pensacola1

<table>
<thead>
<tr>
<th>Question</th>
<th>/ F/ NA1</th>
<th>Comment1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity etib r was not measured or, if measured, is at or below b</td>
<td>N/Ab</td>
<td></td>
</tr>
<tr>
<td>ackgroundC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tb cooler's custody sCal, if prebCt, is intact.b</td>
<td>N/Ab</td>
<td></td>
</tr>
<tr>
<td>Tb cooler or sampleb do not appear to havC been compromi scD or b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>tampered with.b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ampleb recei v Cd on ice.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recordCd.b</td>
<td>Trueb</td>
<td>2.2°Cb</td>
</tr>
<tr>
<td>COC is prebCt.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in int aCd legible.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Tb re are no discrepancies betwC tb sample IDs on tb containers aCd b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Tb COC.b</td>
<td>False</td>
<td></td>
</tr>
<tr>
<td>ampleb are receivqCd within Holding Time.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>ample containers bavCt legible la el s.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Containers are not broke or lebaking.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>ample collection date/timeb are providCd.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are usCd.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>ampleb are completely filled.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Tb re i s sufficient vol. for all requested aCalyGs, incl. aQy requested</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>MS/MSDsC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not bavC b adspace or bub le is &lt;6mm (1/4&quot;) in b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>diameter.b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessary, staff bavCt been informed of aQy shQt bold time or quick TAT</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>lbs aCt and not bavCt.</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Multipb aCt sampleb are not prebCt.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>ampleb do not require splitting or composting.b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>Is tb Field Sampber's name prebCt on CQ?b</td>
<td>Trueb</td>
<td></td>
</tr>
<tr>
<td>ample PrebCt vation Verifiedb</td>
<td>Trueb</td>
<td></td>
</tr>
</tbody>
</table>
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
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: LA000244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WV/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:

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

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

**Lab References:**

TAL SAV. TestAmerica Sa. anna.

**Method References:**

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

<table>
<thead>
<tr>
<th>M: th1</th>
<th>Analyst1</th>
<th>Analyst ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW846  8260B.</td>
<td>Lanier, Carolyn.</td>
<td>CL.</td>
</tr>
<tr>
<td>SW846  8260B.</td>
<td>Waldorf, Jonathan.</td>
<td>JW.</td>
</tr>
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<td>SW846  6010C.</td>
<td>Bland, Brian.</td>
<td>BCB.</td>
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<tr>
<td>ab Sample</td>
<td>ClO&lt;sub&gt;3&lt;/sub&gt;</td>
<td>Sample</td>
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<tr>
<td>-----------</td>
<td>----------------</td>
<td>--------</td>
</tr>
</tbody>
</table>
### Analytical Atac

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

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

---

**8260B volatile Organic Compounds (GC/MS):**

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

**Surrogate:**

<table>
<thead>
<tr>
<th>Name</th>
<th>%Recb</th>
<th>Qualifier</th>
<th>Acceptance Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Bromofluorobenzene</td>
<td>93.</td>
<td></td>
<td>75 - 120.</td>
</tr>
<tr>
<td>Dibromofluoromethane</td>
<td>99.</td>
<td></td>
<td>75 - 121.</td>
</tr>
<tr>
<td>Toluene-d8 (Sur)j</td>
<td>111.</td>
<td></td>
<td>75 - 120.</td>
</tr>
</tbody>
</table>
### Analytical Method

- **Method:** 8260B
- **Analysis Batch:** 680-170470
- **Instrument ID:** SO2N

### Preparation
- **Lab Sample ID:** 680-57949-1
- **Client:** ARCADIS U.S., Incb
- **Sample:** Water
- **Date Sampled:** 05/24/2010 0700
- **Date Received:** 05/25/2010 0928

### Dilution
- **Dilution:** 5.0

### Date
- **Date Analyzed:** 06/03/2010 1151
- **Date Prepared:** 06/03/2010 1151

### 8260B Volatile Organic Compounds (GC/MS)

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result (µg/L)</th>
<th>Qualifier</th>
<th>RL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
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<td>U</td>
<td>130</td>
</tr>
<tr>
<td>Benzene</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Bromoform</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Bromomethane</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Carbon disulfide</td>
<td>10.0</td>
<td>D</td>
<td>10.0</td>
</tr>
<tr>
<td>Carbon tetrachloride</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Chlorodibromomethane</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
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<tr>
<td>Chloroethane</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Chloroform</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Chloromethane</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
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<tr>
<td>cis-1,2-Dichloroethene</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>cis-1,3-Dichloropropene</td>
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<td>U</td>
<td>5.0</td>
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<td>5.0</td>
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<td>50.0</td>
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<td>Ethylene Chloride</td>
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<td>25.0</td>
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<td>2-Butanone (c EK)b</td>
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<td>U</td>
<td>50.0</td>
</tr>
<tr>
<td>4-ethyl-2-pentanone (c IBK)b</td>
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<td>50.0</td>
</tr>
<tr>
<td>Styrene</td>
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<td>5.0</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
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<td>U</td>
<td>5.0</td>
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<tr>
<td>Tetrachloroethene</td>
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<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Toluene</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>trans-1,2-Dichloroethene</td>
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<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>trans-1,3-Dichloropropene</td>
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<td>U</td>
<td>5.0</td>
</tr>
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<td>5.0</td>
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<td>1,1,2-Trichloroethane</td>
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<td>U</td>
<td>5.0</td>
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<tr>
<td>Trichloroethene</td>
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<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>Vinyl chloride</td>
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</tr>
<tr>
<td>Xylenes, Total</td>
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<td>U</td>
<td>10.0</td>
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</table>

### Surrogate

<table>
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<tr>
<th>Surrogate</th>
<th>%Recb</th>
<th>Qualifier</th>
<th>Acceptance Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Bromofluorobenzene</td>
<td>96</td>
<td></td>
<td>75 - 120.</td>
</tr>
<tr>
<td>Dibromofluoromethane</td>
<td>86</td>
<td></td>
<td>75 - 121.</td>
</tr>
<tr>
<td>Toluene-d8 (Sur)</td>
<td>96</td>
<td></td>
<td>75 - 120.</td>
</tr>
</tbody>
</table>

---

*TestAmerica Savannah:* 
Page 6 of 17
### Analytical atac

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

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

**Effluent**  
**Lab Sample ID:** 680-57949-1.  
**Client Site:** Water.

---

#### 6010C Metals (ICP):

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*Method:* 6010C  
*Preparation:* 3030C  
*Analysis Batch:* 680-170001.  
*Prep Batch:* 680-169693.  
*Instrument ID:* 169693.chr.  
*Lab File ID:* 169693.chr.  
*Initial Weight/Volume:* 50 mL.  
*Final Weight/Volume:* 50 mL.  

---

TestAmerica Savannah:  
Page 7 of 17
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<th>u alifierL</th>
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<td>Indicates the analyte was analyzed for but not detectedM</td>
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<tr>
<td>*</td>
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<td>LCS or LCSD exceeds the control limits,</td>
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<td>Ec</td>
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<tr>
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<td>Sample results are obtained from a dilution; the surrogate or . matrix spike recoveries reported are calculated from diluted . samples,</td>
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### Quality Control Results

**Method Blank - Batch: c0 -170190u**

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<td>Date P. pa. d.</td>
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**Surrogate**

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### Quality Control Results

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

**LabControl Sample/1**  
**LabControl Sample Duplicate Recovery RepRt - Batch: c 0 -170190u**  
**Method:** c2R Bc  
**Preparation:** 8030Bc

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## Quality Control Results

**Lab Control Sample/1**  
**Lab Control Sample Duplicate Recovery Report - Batch: c 0 -170190u**  
**Method: c2/F Bc**  
**Preparation: 8030Bc**

### LCS Lab Sample ID: LCS 680-170190/4.
- **Client Matrix:** Water.  
- **Dilution:** 1.0.  
- **Date Analyzed:** 05/30/2010 1012  
- **Date P. pa. d.:** 05/30/2010 1012  
- **Analysis Batch:** 680-170190.  
- **Units:** ug/L.

#### LCS Lab Sample ID: LCS 680-170190/5.
- **Client Matrix:** Water.  
- **Dilution:** 1.0.  
- **Date Analyzed:** 05/30/2010 1042  
- **Date P. pa. d.:** 05/30/2010 1042  
- **Analysis Batch:** 680-170190.  
- **Units:** ug/L.

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<th>LCSD Qual.</th>
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Instrument ID: MSP.  
Lab File ID: pq353rd.  
Initial Weight/Volume: 5 mL.  
Final Weight/Volume: 5 mL.
**Quality Control Results**

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

### Lab Control Sample/1

#### Lab Control Sample Duplicate Recovery RepRt - Batch: c 0 -170470u

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### Analyte

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<td>94</td>
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<td>102</td>
<td>9 - 129</td>
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**Quality Control Results**

**Lab Control Sample/1**

**Lab Control Sample Duplicate Recovery RepRt - Batch: c 0 -170470u**

<table>
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<tr>
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<tr>
<td>Client Matrixe</td>
<td>Water.</td>
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<td>Dilution:</td>
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<td>Date P. pa. d.</td>
<td>06/03/2010 0858.</td>
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| Instrument ID:     | MSO2              |
| Lab File ID:       | oqj 0. d.         |
| Initial Weight/Volume: | 5 mL          |
| Final Weight/Volume:  | 5 mL          |

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| Instrument ID:     | MSO2              |
| Lab File ID:       | oqj 2. d.         |
| Initial Weight/Volume: | 5 mL          |
| Final Weight/Volume:  | 5 mL          |

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<th>LCSD.</th>
<th>Limit.</th>
<th>RPD.</th>
<th>RPD Limit.</th>
<th>LCS Qual.</th>
<th>LCSD Qual.</th>
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</table>

| Xylenes, Total.    | 105.   | 103n | 4 - 11. | 1. | 30. |

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<td>75 - 121.</td>
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<td>75 - 120.</td>
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### Quality Control Resultsc

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

#### Method Blank - Batch: c0 -1P9c93m

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<td>U.</td>
<td>20.</td>
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<td>Ch)omium.</td>
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<td>U.</td>
<td>10.</td>
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<td>Zinc.</td>
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#### Method: d10Cc  
**Preparation:** 8030Cc

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#### Lab Control Sample - Batch: c0 -1P9c93m

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Quality Control Results

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

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

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**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) 354-7855
**Fax:** (912) 352-0165

**Client Site/PM:**
Alan Pinnix
**Client Name:** ARCADIS
**Phone Number:** 919-854-1282
**E-Mail:** apinnix@arcadis-us.com
**Address:** 801 Corporate Center Dr., Raleigh, NC 27607

**Project Reference:** UNC - Airport Rd.
**P.O. Number:** NC000259.0018.00001
**Contract No.:** NC

**Matrix Type:**
- AQUEOUS (WATER)
- SOLID OR SEMI-SOLID
- NONAQUEOUS LIQUID (GIL SOLVENT)
- HCL VOCs (BGC)
- HG, Metals (C620)

**Required Analysis:**
- STANDARD REPORT DELIVERY
- DATE DUE
- EXPEDITED REPORT DELIVERY (SURCHARGE)
- DATE DUE

**Cooler Information:**
- NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

### SAMPLE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>SAMPLE IDENTIFICATION</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
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<tr>
<td>5/24/10</td>
<td>0700</td>
<td>Effluent</td>
<td>3</td>
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</tbody>
</table>

*Report: Arsenic, chromium, copper, lead, and zinc.

**Received By:**
**Date:** 5/24/10
**Time:** 1200

**Relinquished By:**
**Date:** 5/24/10
**Time:** 1200

**Received By:**
**Date:** 5/25/10
**Time:** 0928

**Custody Intact:**
- Yes: ☐
- No: ☐

**Custody Seal No.:**
- 696-57449

**Laboratory Remarks:**
- 2.1°C

**Laboratory Use Only**

**Received For Laboratory By:**
**Date:** 5/25/10
**Time:** 0928

**Laboratory Log No.:** 696-57449

**Serial Number:** 019810
<table>
<thead>
<tr>
<th>Question</th>
<th>/F/ NA1</th>
<th>Comment1</th>
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<tbody>
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<td>Radioactivity. eit. er was not measured or, if measured, is at or below . background</td>
<td>N/A.</td>
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</tr>
<tr>
<td>Thè cooler's custodbl seal, if present, is intact.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Thè cooler or samples do not appear to .av e been compromised or . tampered wit.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.</td>
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<tr>
<td>Cooler Temperature is acceptable.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recordedb</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>COC is present.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>COC is filled out wit. all pertinent information.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Thère are no discrepancies between t. e sample IDs on t. e containers and . t. e COC.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Samples are received wit. in Holding Time.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Sample containers .av e legible labelsC</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leakingS</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are providedb</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are usedb</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are complelet. filledb</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Thère is sufficient vol. for all requested anal. ses, incl. an. requested . MS/MSDsC</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not .av e . eadspace or bubble is &lt;6mm (1/4&quot;) in . diameter.</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>If necessar. , staff .av e been informed of an. sQort . old time or quick TAT . needsC</td>
<td>True.</td>
<td></td>
</tr>
<tr>
<td>Multiplic sic samples are not present.</td>
<td>N/A.</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or compositing</td>
<td>N/A.</td>
<td></td>
</tr>
<tr>
<td>Is t. e Field Sampler's name present on COC?)</td>
<td>N/A.</td>
<td></td>
</tr>
<tr>
<td>Sample Preservation Verifiedb</td>
<td>True.</td>
<td></td>
</tr>
</tbody>
</table>
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

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:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
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<tr>
<td>M)cury, Low L)vl (CVAFS)</td>
<td>TAL PEN.</td>
<td>EPA(1631E)</td>
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<tr>
<td>P) patio., M)cury, Low L)vl)</td>
<td>TAL PEN.</td>
<td>EPA(1631E)</td>
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</tbody>
</table>

**Lab References:**

TAL PEN = T) stAmerica P) sacola)

**Method References:**

EPA= US Envi(o. me. al P)j(o. cti. .g) cy)

TestAmerica Pensacola:
<table>
<thead>
<tr>
<th>M: th1</th>
<th>Analyst1</th>
<th>Analyst ID</th>
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<tbody>
<tr>
<td>EPA 1631Ec</td>
<td>Jones, Randyc</td>
<td>Jc</td>
</tr>
<tr>
<td>Sample</td>
<td>Client Code</td>
<td>Sample</td>
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<tr>
<td>--------------</td>
<td>-------------</td>
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<tr>
<td>400-47770-1,</td>
<td>NT,</td>
<td>Water,</td>
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**Client:** ARCADIS U.S., Inc.

**Job Number:** 400-47770-1,

**Sample ID:** EFFLUENTa

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<th>Client Matrix</th>
<th>Date Received</th>
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<tbody>
<tr>
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<td>05/24/2010</td>
<td>Waterc</td>
<td>05/25/2010</td>
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**Method:** 1631Ec

**Preparation:** 1631Ec

**Dilution:** 1.0c

**Date Analyzed:** 05/27/2010 1155c

**Date Prepared:** 05/26/2010 1600c

**Analysis Batch:** 400-109746c

**Prep Batch:** 400-109722c

**Lab File ID:** 052710b.PRNC

**Initial Weight/Volume:** 40 mLc

**Final Weight/Volume:** 40 mLc

### 1631E Mercury, Low Level (CVAFS)L

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<th>Result (ng/L)</th>
<th>Qualifier</th>
<th>RLC</th>
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<tr>
<td>Mercury</td>
<td>1.2c</td>
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<td>0.50c</td>
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QUALITYpCtROLp SULTSp
# Quality Control Results

Client: ARCADIS U.S., Inc.  
Job Number: 400-47770-1c

## QC Association Summary

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Client Sample ID</th>
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<th>Client Matrix</th>
<th>Method</th>
<th>Prec Batch</th>
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</thead>
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<tr>
<td><strong>Metals</strong></td>
<td></td>
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<tr>
<td>400-109722/2-Ai</td>
<td>Lab Control Sample</td>
<td>Ti</td>
<td>Wateri</td>
<td>1631Ei</td>
<td>400-109722i</td>
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<tr>
<td>D 400-109722/3-Ai</td>
<td>ab Control Sample Duplicatei</td>
<td>Ti</td>
<td>Wateri</td>
<td>1631Ei</td>
<td>400-109722i</td>
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<tr>
<td>MB 400-109722/1-Ai</td>
<td>Method Blanki</td>
<td>Ti</td>
<td>Wateri</td>
<td>1631Ei</td>
<td>400-109722i</td>
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<tr>
<td>400-47770-1i</td>
<td>FFLUENTi</td>
<td>Ti</td>
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<td>400-109722i</td>
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<tr>
<td>400-47808-A-1-B MSi</td>
<td>Matrix Spikei</td>
<td>Ti</td>
<td>Wateri</td>
<td>1631Ei</td>
<td>400-109722i</td>
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<tr>
<td>400-47808-A-1-C MSDi</td>
<td>Matrix Spike Duplicatei</td>
<td>Ti</td>
<td>Wateri</td>
<td>1631Ei</td>
<td>400-109722i</td>
</tr>
</tbody>
</table>

| **Analysis Batch 400-10-7461** |
| 400-109722/2-Ai | ab Control Samplei | Ti | Wateri | 1631Ei | 400-109722i |
| D 400-109722/3-Ai | ab Control Sample Duplicatei | Ti | Wateri | 1631Ei | 400-109722i |
| MB 400-109722/1-Ai | Method Blanki | Ti | Wateri | 1631Ei | 400-109722i |
| 400-47770-1i | FFLUENTi | Ti | Wateri | 1631Ei | 400-109722i |
| 400-47808-A-1-B MSi | Matrix Spikei | Ti | Wateri | 1631Ei | 400-109722i |
| 400-47808-A-1-C MSDi | Matrix Spike Duplicatei | Ti | Wateri | 1631Ei | 400-109722i |

**Rec rt Basic**

T = Total
## Quality Control Results

### Meth1 Blank - Batc h1 400-1097R

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<tr>
<td>curyh</td>
<td>&lt;0.50h</td>
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<td>50h</td>
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### Lab Control Sample/1

#### Lab Control Sample Duplicate Recovery Report - Batch1 400-1097R

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<th>LCS Lab Samplh IDLCS 400-109722/2-Ah</th>
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<th>Instrument Idh HYDRAh</th>
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<tr>
<td>Clhnt Mathxh Wath</td>
<td>Ph p Batch 400-109722h</td>
<td>Lab Filh Idh 52710lb.PRN.</td>
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<tr>
<td>Dilutionh</td>
<td>Untitsh ng/Lh</td>
<td>Initial Wight/Volume:.40h mLh</td>
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<tr>
<td>Dath Analyzhdh 5/27/2010h . 7h</td>
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<td>Final Wight/Volume:. 40h mLh</td>
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<td>Dath Ph pah dh 5/25/2010h .500h</td>
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<table>
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<th>Analysis Batch 400-109746h</th>
<th>Instrument Idh HYDRAh</th>
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<td>Lab Filh Idh 52710lb.PRN.</td>
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<td>Dilutionh</td>
<td>Untitsh ng/Lh</td>
<td>Initial Wight/Volume:. 40h mLh</td>
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<td>Final Wight/Volume:. 40h mLh</td>
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<tr>
<td>Dath Ph pah dh 5/25/2010h .500h</td>
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### Meth1 631Ec

#### Preparation: 1631Ec

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<tr>
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<th>% Rhc,h</th>
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<tbody>
<tr>
<td>curyh</td>
<td>8h</td>
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</table>
**Matrix Spike/1**

**Matrix Spike Duplicate Recovery Report - Batch1 400-1097R**

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<tr>
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<th>Lab Filh IDh</th>
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<tr>
<td></td>
<td>400-47808-A-1-B .Sh</td>
<td>400-109746h</td>
<td>HYDRAh</td>
<td>52710b .PRN.</td>
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<tr>
<td></td>
<td>Wath</td>
<td>Ph p Batch</td>
<td>Lab Filh IDh</td>
<td>52710b .PRN.</td>
</tr>
<tr>
<td></td>
<td>5/27/2010h .31h</td>
<td>400-109722h</td>
<td>Initial Whight/Volume:. 40h mLh</td>
<td>Final Whight/Volume:. 40h mLh</td>
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<table>
<thead>
<tr>
<th>SD</th>
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<th>Analysis Batch</th>
<th>Instrument IDh</th>
<th>Lab Filh IDh</th>
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<tr>
<td></td>
<td>400-47808-A-1-C .SDh</td>
<td>400-109746h</td>
<td>HYDRAh</td>
<td>52710b .PRN.</td>
</tr>
<tr>
<td></td>
<td>Wath</td>
<td>Ph p Batch</td>
<td>Lab Filh IDh</td>
<td>52710b .PRN.</td>
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<tr>
<td></td>
<td>5/27/2010h .306h</td>
<td>400-109722h</td>
<td>Initial Whight/Volume:. 40h mLh</td>
<td>Final Whight/Volume:. 40h mLh</td>
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<tr>
<td></td>
<td>5/26/2010h .600h</td>
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<thead>
<tr>
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<th>% RHC h</th>
<th>Sh</th>
<th>SDh</th>
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<th>S Qualh</th>
<th>SD Qualh</th>
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<tbody>
<tr>
<td>curnh</td>
<td></td>
<td>84h</td>
<td>80h</td>
<td>71h .25h</td>
<td>3h</td>
<td>24h</td>
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<tr>
<td>Lab Section</td>
<td>u alifierL</td>
<td>Description</td>
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</tr>
</tbody>
</table>
**ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD**

**CLIENT**

ARCADIS

**ADDRESS**

801 Corporate Center Dr. Raleigh, N.C. 27607

**PROJECT NAME**

UNC-Airport Rd., NC 0000239, 00018, 00001

**PROJECT NO.**

G400-427770

**PROJECT LOC. (STATE)**

N.C.

**REQUESTED ANALYSIS**

**POSSIBLE HAZARD IDENTIFICATION**

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

**NO. OF COOLERS PER SHIPMENT:**

**SPECIAL INSTRUCTIONS/CONDITIONS OF RECEIPT:**

**DATE**

5/24/10

**TIME**

0700

**SAMPLE IDENTIFICATION**

Effluent

**PRESERVATIVE**

- HCL - Hydrochloric Acid
- HNO3 - Nitric Acid
- H2SO4 - Sulfuric Acid
- H3PO4 - Phosphoric Acid
- CH3OH - Methanol
- NaOH - Sodium Hydroxide
- Na2SO3 - Sodium Thiosulfate
- Other:

**MATRIX**

- Drinking Water
- Sediment
- Non-aqueous (Oil, Solvent, etc.)
- Low Level Neutrons (LLN)

**NUMBER OF CONTAINERS SUBMITTED**

3

**RELINQUISHED BY:** (SIGNATURE)

5/24/10 1200

**RECEIVED BY:** (SIGNATURE)

5/25/10 10:14

**CUSTODY INTACT?**

Δ YES □ NO

**CUSTODY SEAL NO.**

S-8C

**REMARKS:**

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

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

**LABORATORY USE ONLY**
## Logb Sam1 le Recei1 Check List1

**Logb Number:** 477701  
**Creator:** Chea, Vanda1  
**List Source:** TestAmerica Pensacola1

<table>
<thead>
<tr>
<th>Question</th>
<th>F/ NA1</th>
<th>Comment1</th>
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<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below S</td>
<td>N/AS</td>
<td></td>
</tr>
<tr>
<td>backgroundS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.S</td>
<td>N/AS</td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>tampered with.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>samples were received on ice.S</td>
<td>TrueS</td>
<td>5.8°C</td>
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<tr>
<td>Cooler Temperature is acceptable.S</td>
<td>TrueS</td>
<td></td>
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<tr>
<td>Cooler Temperature is recorded.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>COC is present.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and S</td>
<td>True</td>
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<tr>
<td>the COC.S</td>
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<tr>
<td>samples are received within Holding Time.S</td>
<td>True</td>
<td></td>
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<tr>
<td>Sample containers have legible labels.S</td>
<td>TrueS</td>
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</tr>
<tr>
<td>Containers are not broken or leaking.S</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are completely filled.S</td>
<td>TrueS</td>
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<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>MS/MSDs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>diameter.S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT S</td>
<td>TrueS</td>
<td></td>
</tr>
<tr>
<td>needsS</td>
<td></td>
<td></td>
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<tr>
<td>Multiphasic samples are not present.S</td>
<td>True</td>
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<tr>
<td>Samples do not require splitting or compositing.S</td>
<td>TrueS</td>
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</tr>
<tr>
<td>Is the Field Sampler's name present on COC?S</td>
<td>True</td>
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<tr>
<td>Sample Preservation VerifiedS</td>
<td>TrueS</td>
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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

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.

### METHOD SUMMARY:

CltntTARCADIST.S., nc.T

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<tr>
<th>Description:</th>
<th>Lab Location:</th>
<th>Method:</th>
<th>Preparation Method:</th>
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<tr>
<td>Matrix:</td>
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<tr>
<td>Water:</td>
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<td>AL .AVT</td>
<td>M 3030C</td>
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**Lab References:**

AL .AV = StAmerica.avannahT

**Method References:**

M = "Standards Methods For ThT Examination Of WatT And Wastewater ",T

WT 4T= "T st MTMethods For Evaluating Physical/Chemical Methods", Third Edition, November 19 And .ts pdatT s.T

TestAmerica Savannah:
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<td>Bc</td>
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<td>SW846</td>
<td>6010Cc Bland, Brian c</td>
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<td>Sample ID</td>
<td>Client</td>
<td>Sample ID</td>
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<td>Waterc</td>
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</tr>
<tr>
<td>Benzenec</td>
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<td>Uc</td>
</tr>
<tr>
<td>Bromoformc</td>
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</tr>
<tr>
<td>Bromomethane</td>
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<td>Uc</td>
</tr>
<tr>
<td>Carbon disulfide</td>
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<td>Uc</td>
</tr>
<tr>
<td>Carbon tetrachloride</td>
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<td>Uc</td>
</tr>
<tr>
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<tr>
<td>Chlorodibromomethane</td>
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<td>Uc</td>
</tr>
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<td>2-Hexanone</td>
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<td>Xylenes, Totalc</td>
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Surrogates:

- 4-Bromofluorobenzene: 97c
- Dibromofluoromethane: 106c
- Toluene-d8 (Surr): 102c
### Analytical Data

**Client:** ARCADIS U.S., Inc.  
**Job Number:** 680-58582-1c  
**Date Sampled:** 06/14/2010 0800c  
**Date Received:** 06/15/2010 0914c  

**Sample ID:** 680-58582-1c  
**Client Matrix:** Waterc

#### 8260Bd/volatile Organic Compounds (GC/MS):

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**Preparation:** 5030Bc  
**Dilution:** 5.0c  
**Date Analyzed:** 06/20/2010 1606c  
**Date Prepared:** 06/20/2010 1606c

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<td>Uc</td>
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<td>Carbon disulfide</td>
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<tr>
<td>Carbon tetrachloride</td>
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<td>Uc</td>
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<td>4-Methyl-2-pentanone (MIBK)c</td>
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**Surrogates**

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<td>Toluene-d8 (Sur)c</td>
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<td>75 - 120c</td>
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Client: ARCADIS U.S., Inc.

Client Sample ID: d  Effluent
ab Sample ID: c  680-58582-1c  Date Sampled: 06/14/2010 0800c
Client Matrix: c  Waterc  Date Received: 06/15/2010 0914c

| Method: c    | 6010Cc |
| Preparation: c | 3030Cc |
| Dilution: c   | 1.0c   |
| Date Analyzed: c | 06/21/2010 2042c |
| Date Prepared: c | 06/16/2010 1436c |

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<td>Copper: c</td>
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<tr>
<td>Zn: c</td>
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<td>Uc</td>
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</table>
**Lab Section** | u_alifierL | Description
---|---|---
GC/MS VOAc

| Uc | Indicates, the a. alyte was,a. alyzed but not detected. |
| E, | e. result ex ee dedNalibration ra. ge.c |
| Dc | Surrogate or matrix spike recoveries, were not obtainedN because the extract was,diluted for a. alysis; also compounds, a. alyzed at a. dilution may, be flagged with a. D.c |

Metals,

| Uc | Indicates, the a. alyte was,a. alyzed but not detected. |
Quality Control Results

Method: 8260BI
Preparation: 5030BI

Meth1 Blank - Batc h1 0 -17º 98L

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**Quality Control Results**

**Lab Control Sample 1**
**Lab Control Sample Duplicate Recovery Report - Batch: 680-1720981**

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Quality Control Results

Lab Control Sample

| Analysis Batch | 680-17209h
|----------------|----------------|
| LCS'ToLab amplT. | LCS'To80-17209h/c
| LCS'DoLab amplT. | LCS'Do80-17209h/7c
| LCS'ToVialT | WatT
| LCS'DoVialT | WAT
| LCS'ToAnalyzUt | 1.0 |
| LCS'DoAnalyzUt | 06/18/2010 0958. |
| LCS'ToPc pac dc | 06/18/2010 0958. |
| LCS'DoPc pac dc | 06/18/2010 0958. |
| LCS'ToPc | 06/18/2010 1029h |
| LCS'DoPc | 06/18/2010 1029h |
| LCS'ToLimit | 4 - 118 |
| LCS'DoLimit | 12T |
| LCS'ToPc | 30 |
| LCS'DoPc | 75 - 120 |
| LCS'ToPc | 12T |
| LCS'DoPc | 30 |
| LCS'ToPc | 75 - 120 |

Method: 8260BI
Preparation: 5030BI

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TestAmerica Savannah
Quality Control Results

**Method Blank - Batch: 680-172112l**

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**Analysis Batch, 680-172112T**

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**Method: 8260BI**

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### AnalyT

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Quality Control Results

Lab Control Sample
Lab Control Sample Duplicate Recovery Report - Batch: 680-172112I

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<td>2-ButanoneT (MEK)S</td>
<td>9h</td>
<td></td>
<td>33 - 157c</td>
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<tr>
<td>4-M) thyl-2-pctanalT (MBK)S</td>
<td>9h</td>
<td>7c</td>
<td>40 - 151.</td>
<td>2T</td>
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<tr>
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<td>103S</td>
<td>2 - 122T</td>
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<td>1,1,2,2-Tct\textsubscript{C} bchloroethanT</td>
<td>92T</td>
<td>91.</td>
<td>9 - 129h</td>
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<td>Tct\textsubscript{C} bchloroth, nT</td>
<td>101.</td>
<td>100.</td>
<td>7c - 12T</td>
<td>1.</td>
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<td>ToluenT</td>
<td>102T</td>
<td>104S</td>
<td>1 - 117c</td>
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<tr>
<td>3\textsubscript{-}ns-1,2-ic hloroeth, nT</td>
<td>110.</td>
<td>109h</td>
<td>72 - 131.</td>
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<td>3\textsubscript{-}ns-1,3-ic hloro\textsubscript{ox}pcnT</td>
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**Quality Control Results**

**Lab Control Sample**
**Lab Control Sample Duplicate Recovery Report - Batch: 680-172112**

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<tr>
<th>LCSLab amplT</th>
<th>LCS80-172112/5</th>
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<th>Oi</th>
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<tbody>
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<td>WatT</td>
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<td>il uTionT</td>
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<td>nit s: ug/Lc</td>
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<tr>
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<td>Pc p Batch, N/A</td>
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<th>LimitT</th>
<th>Pc</th>
<th>Pc LimitT</th>
<th>LCSQualT</th>
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<td>urrogatT</td>
<td>LCS% . cT</td>
<td>LCSDT% . cT</td>
<td>AccTpancT Limits.</td>
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<td>4-BrorofluorobenzLnT</td>
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<td>75 - 120.</td>
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<td>109h</td>
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<td>Toluene dc (hurr)S</td>
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### Lab Control Sample - Batch: 680-171730I

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**Quality Control Results**

Matrix Spike/l

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<td>Effluent</td>
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*Report: Arsenic, chromium, copper, lead, and zinc.*

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

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<td>Reinhart Thomas</td>
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Temp 3.4 | 680.38562

Delivery Method:  
☑ Common Carrier  
☐ In Person  
☐ Lab Courier  
☐ Other
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<th>Comment1</th>
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<td>bc kgroundc</td>
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<tr>
<td>The cooler's, u stody/secl, lft/present, is,int cl.c</td>
<td>Truec</td>
<td></td>
</tr>
<tr>
<td>The cooler or e, mples,do not cppecr to babe been compromisedor c</td>
<td>Truec</td>
<td></td>
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<td>tcmperedawith.c</td>
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<td>Smiples,were receivedaon ice.c</td>
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<td>the COC.c</td>
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<td>Smple continers,hae legible Icvels.c</td>
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<td>Contciners, re not broken or lecking.c</td>
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<td>Smple collection dceetimes, re provided.c</td>
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<td>Appropriate e, mple contciners, re used.c</td>
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<td>Smple bottles, re completely/ffilled.c</td>
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<td>There is,sufficient vol. for all requestedc lyses, incl. c y-Requestedc</td>
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<td>VOA e, mple wics,do not bae becdsp ce or bubble is,&lt;6mm (1/4&quot;)in c</td>
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<td>dicmeter,c</td>
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<td>Ifbece ss, ry staffthabve been informedaofb y)short boldtme or quickSATc</td>
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<td>Is, the FieldSmpler's, me present on COC?,</td>
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<tr>
<td>Smple Preservation Verifiedc</td>
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</table>
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

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 (LA00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-08-TX), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).
Comment:
No additional co. n  tS k

Receipt D
All samples weks rSved in g ood condition within tSpek raturS rS uirS n  tSS

Metals D
Method 1631E: The matrix spike / matrix spike duplicatS(MS/MSD) rScoevses for batch 400-111162\ 400-111279 weks outSde contro. k
imSle. The assblciatiS la boratory contro. samples (LCS\LCSD) rScoevses mekacc$ tancScritSria. Data was fagged and r$i rS as iskS

No othe analytiS or quality isS evS wekrS ot$. S
**METHOD SUMMARY:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
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<td>Matrix: Water:</td>
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<tr>
<td>MF cury, Low LFvFl (CVAFS)F</td>
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<td>EPAR631EF</td>
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**Lab References:**
TAL PEN = TFSťAřer.ca PF sac olaF

**Method References:**
EPAR= US Enviř. me. al Přo. ctiš. .gF cyF
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<td>EPA 1631EU</td>
<td>Jones, RandyU</td>
<td>RJU</td>
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## SAMPLD SUMMARY2

**Client:** ARCADIS U.S., Inc.U  
**Job Number:** 400-48250-1U

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<th>a:e/Ti²he : Rel elvedb</th>
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<td>EFFLUENT,</td>
<td>Water,</td>
<td>06/14/2010 0800U</td>
<td>06/15/2010 1005U</td>
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*Test@mer1 a Pels a: ola:*
Client: ARCADIS U.S., Inc.
Job Number: 400-48250-1,

**Sample ID:** EFFlUENTa

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**Date Sampled:** 06/14/2010 0800-

**Received:** 06/15/2010 1005-

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### 1631E Mercury, low Level (CVAFS)D

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<th>06/21/2010 1236-</th>
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<td>Prepared:</td>
<td>06/18/2010 1100-</td>
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<thead>
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<th>RL:</th>
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<tr>
<td>Mercury</td>
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<td>400-11162-</td>
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<th>Initial Weight/Volume:</th>
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<tr>
<td>Final Weight/Volume:</td>
<td>40 mL-</td>
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QUALITYpCI TROLp SULTSp
# Quality Control Results

Client: ARCADIS U.S., Inc.  
Job Number: 400-48250-1-

## QC Association Summary

<table>
<thead>
<tr>
<th>Sample</th>
<th>Relortal Basis</th>
<th>Client Matrix</th>
<th>Method</th>
<th>Prel</th>
<th>Batch</th>
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<tr>
<td>LCS 400-111162/2-AM</td>
<td>Lab Control Sample-</td>
<td>TM</td>
<td>Wc r-</td>
<td>1631EM</td>
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<tr>
<td>LCSD 400-111162/3-AM</td>
<td>Lab Control Sample DuplicateM</td>
<td>T</td>
<td>WaterM</td>
<td>31EM</td>
<td></td>
</tr>
<tr>
<td>B 400-111162/1-AM</td>
<td>Ethanol BlankM</td>
<td>TM</td>
<td>WaterM</td>
<td>31E</td>
<td></td>
</tr>
<tr>
<td>400-48250-1M</td>
<td>EFFLUENTM</td>
<td>T</td>
<td>WaterM</td>
<td>31EM</td>
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<tr>
<td>400-48348-A-4-B MSM</td>
<td>Matrix SpikeM</td>
<td>T</td>
<td>WaterM</td>
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<tr>
<td>400-48348-A-4-C MSDM</td>
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## Analysis Batch 400-111279C

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<td>Lab Control SampleM</td>
<td>TM</td>
<td>WaterM</td>
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<td>400-111162M</td>
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<tr>
<td>LCSD 400-111162/3-AM</td>
<td>Lab Control Sample DuplicateM</td>
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<td>WaterM</td>
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<td>400-111162M</td>
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<tr>
<td>B 400-111162/1-AM</td>
<td>Ethanol BlankM</td>
<td>TM</td>
<td>WaterM</td>
<td>31E</td>
<td>400-111162M</td>
</tr>
<tr>
<td>400-48250-1M</td>
<td>EFFLUENTM</td>
<td>T</td>
<td>WaterM</td>
<td>31EM</td>
<td>400-111162M</td>
</tr>
<tr>
<td>400-48348-A-4-B MSM</td>
<td>Matrix SpikeM</td>
<td>T</td>
<td>WaterM</td>
<td>31EM</td>
<td>400-111162M</td>
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<tr>
<td>400-48348-A-4-C MSDM</td>
<td>Matrix Spike DuplicateM</td>
<td>TM</td>
<td>WaterM</td>
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**Report Basis**

T = TotalM

TestAmerica PensacolaC
**Method Blank - Batch: 400-111162y**

<table>
<thead>
<tr>
<th>aly.</th>
<th>sultF</th>
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<th>Lc</th>
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<tbody>
<tr>
<td>&gt;0.50M</td>
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**Lab Control Sample/y**

**Lab Control Sample Duplicate Recovery Report - Batch: 400-111162y**

<table>
<thead>
<tr>
<th>LCS Lab SampIIF IDLCS 400-111162/2-AF</th>
<th>alys-s BamlhM 400-111279, P, p BamlhM 400-111162</th>
<th>Inß- ume. IDFHYDRAF</th>
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</thead>
<tbody>
<tr>
<td>CliF</td>
<td>MaM</td>
<td>Lab F,IF IDF 062110b,P, N.</td>
</tr>
<tr>
<td>Dilu. o.</td>
<td>1.0M</td>
<td>Initilàl WT ghM/olume.: 40 mLc</td>
</tr>
<tr>
<td>DaM. alyzUd-</td>
<td>06/21/2010 0939,</td>
<td>F, al WT ghM/olume.: 40 mLc</td>
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<td>DaM P, paMd-</td>
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<table>
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<th>LCSD Lab SampIIF IDLCSD 400-111162/3-AF</th>
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<th>Inß- ume. IDF HYDRAF</th>
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<tr>
<td>CliF</td>
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<td>Lab F,IF IDF 062110b,P, N.</td>
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<td>Dilu. o.</td>
<td>1.0M</td>
<td>Initilàl WT ghM/olume.: 40 mLc</td>
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<tr>
<td>DaM. alyzUd-</td>
<td>06/21/2010 0947M</td>
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**% c.F**

<table>
<thead>
<tr>
<th>aly.</th>
<th>LCSF</th>
<th>LCSDF</th>
<th>Lm.</th>
<th>PDF</th>
<th>PD Lm.</th>
<th>LCS QualF</th>
<th>LCSD QualF</th>
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<tr>
<td>&gt;94h</td>
<td>95M</td>
<td>79 - 121</td>
<td>1.</td>
<td>20M</td>
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Quality Control Results

Matrix Spike/y
Matrix Spike Duplicate Recovery Report - Batch: 400-111162y

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<thead>
<tr>
<th>MS Lab Sample IDF</th>
<th>400-48348-A-4-B MSF</th>
<th>alys-s BaMhM 400-111279, P, p BaMhM 400-111162</th>
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<tbody>
<tr>
<td>CliF MaM</td>
<td>WaM</td>
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</tr>
<tr>
<td>Dilu. o.</td>
<td>1.0M</td>
<td></td>
</tr>
<tr>
<td>DaM alyzUd</td>
<td>06/21/2010 1108F</td>
<td></td>
</tr>
<tr>
<td>DaM P, paMd</td>
<td>06/18/2010 1100M</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MSD Lab Sample IDF</th>
<th>400-48348-A-4-C MSDF</th>
<th>alys-s BaMhM 400-111279, P, p BaMhM 400-111162</th>
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</thead>
<tbody>
<tr>
<td>CliF MaM</td>
<td>WaM</td>
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</tr>
<tr>
<td>Dilu. o.</td>
<td>1.0M</td>
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<tr>
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<thead>
<tr>
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<th>MSDF</th>
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<td>M) cury.</td>
<td>43</td>
<td>41.</td>
<td>71 - 125M</td>
<td>4h</td>
<td>24h</td>
<td>F, F,</td>
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Method: 1631Ey
Preparation: 1631Ey

In- ume. IDF HYDRAF
Lab F,IF IDF 062110b.P, N.
InitiWTghMVolume: 40 mLc
F, alWTghMVolume: 40 mLc
<table>
<thead>
<tr>
<th>Lab Section</th>
<th>u alifierC</th>
<th>Description</th>
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<tbody>
<tr>
<td>etalsb</td>
<td></td>
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</tr>
<tr>
<td>Fb</td>
<td>S or MSD eMeeds the control limitsb</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Time</td>
<td>Sample Identification</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>6/14/10</td>
<td>800</td>
<td>Effluent</td>
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<table>
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<tr>
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<th>Time</th>
<th>Signature</th>
<th>DATE</th>
<th>Time</th>
<th>Signature</th>
<th>DATE</th>
<th>Time</th>
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<tbody>
<tr>
<td>5/6/08</td>
<td>1320</td>
<td></td>
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<tr>
<td>6/14/10</td>
<td>1200</td>
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SPECIAL INSTRUCTIONS/CONDITIONS OF RECEIPT: 

REMARKS: 0.02
### L1gin Sam1le Recei1t CheckList

**Client:** ARCADIS U.S., Inc.  
**Job Number:** 400-48250-1M

**L1gin Number:** 48250N  
**List Source:** TestAmerica PensacolaN

**Creator:** Hor, KomaN  
**List Number:** 1N

<table>
<thead>
<tr>
<th>Question</th>
<th>F/ NAN</th>
<th>Comment</th>
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<tr>
<td>RMtiehty either w) s not meMured or, if meMured, is M or below M</td>
<td>N/AM</td>
<td></td>
</tr>
<tr>
<td>bMkgroumdc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seM, if present, is intMbt.-</td>
<td>N/AM</td>
<td></td>
</tr>
<tr>
<td>The cooler or s, mple do not MpeM to have been compromised or M tMpered with.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>SMmples were received on ice.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>Cooler TemperMure is MceptMble.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>Cooler TemperMure is recorded.-</td>
<td>TrueM</td>
<td>0.0°C M</td>
</tr>
<tr>
<td>COC is present.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink Md legible.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with Md pertinent information.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>There Me no discrep Meies between the s, mple IDs on the contMners Md M</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>the COC.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>SMmples Me received within Holding Time.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>SMmple contMners habe legible lMbels.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>ContMners Me not broken or leMing.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>SMmple collection dcte/times Me provided.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>AppropriMe s, mple contMners Me used.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>SMmple bottles Me completely filled.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for Md requested MMyes, incl. MMy requested M</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>MS/MSDs,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA s, mple vMls do not have heMisp ce or bubble is &lt;6mm (, /4&quot;) in M</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>diMheter.-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necess, ry, stIf have been informed of MMy short hold time or quick TAT M needs,</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>Multiplabic s, mple Me not present.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>SMmples do not require splitting or compositing.-</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>Is the Field SMplier's nMne present on COC?M</td>
<td>TrueM</td>
<td></td>
</tr>
<tr>
<td>SMmple PreservStion Verifiedc</td>
<td>TrueM</td>
<td></td>
</tr>
</tbody>
</table>
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

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
## METHOD SUMMARY:

Client: ARCADIS U.S., Inc.  
Job Number: 680-59C24-1C

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<th>Preparation Method:</th>
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<td>TAL SAVC</td>
<td>SW84C0.25 BC</td>
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</tr>
<tr>
<td>Pur. an. TqaPc</td>
<td>TAL SAVC</td>
<td>SW84C20 30BC</td>
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</tr>
<tr>
<td>M£al. (ICP)C</td>
<td>TAL SAVC</td>
<td>SW84O80 10C.</td>
<td>SM 3030C.</td>
</tr>
<tr>
<td>PrepaQtion, Extractable M£al.</td>
<td>TAL SAVC</td>
<td></td>
<td></td>
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</tbody>
</table>

TAL SAV = TC tAmerica SavannahC

### Method References:

SM = "Stan.aC M£ho. For ThC Examination. Water An. Water@water".

SW84C = "TC I M£ho. For Evaluatin. Soli. Water@Physical/Chemical M£ho. " Thir. Ed@on, Nov@ber 19C An. It. U. a le.

TestAmerica Savannah:
<table>
<thead>
<tr>
<th>M: thN</th>
<th>AnalystN</th>
<th>Analyst ID</th>
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<tbody>
<tr>
<td>SW846</td>
<td>8260BC</td>
<td>Bearden, RobertC</td>
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<tr>
<td>SW846</td>
<td>6010C</td>
<td>BC</td>
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<td></td>
<td>Bland, BrianCC</td>
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</table>
### SAMPLD SUMMARY2

**Client:** ARCADIS U.S., Inc.C  
**Job Number:** 680-59824-1C

<table>
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<tr>
<th>Lab Sample ID</th>
<th>Client Sample ID</th>
<th>Client Material</th>
<th>Sample Date</th>
<th>Sampled By</th>
<th>Reported Date</th>
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Tested by: ah2
### Analytical atay

Client: ARCADIS U.S., Inc.U

Job Number: 680-59824-1U

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<tbody>
<tr>
<td>Lab Sample ID:U</td>
<td>0-59824-1U</td>
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<tr>
<td>Client U:</td>
<td>WaterU</td>
</tr>
<tr>
<td>Date Sampled:</td>
<td>07/27/2010 1440U</td>
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<tr>
<td>Date Received:</td>
<td>07/28/2010 0856U</td>
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#### 8260Bd/volatile Organic Compounds (GC/MS):

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<th>Preparation</th>
<th>Dilution</th>
<th>Date Analyzed</th>
<th>Date Prepared</th>
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<tbody>
<tr>
<td>Acetone</td>
<td>260BU</td>
<td>003BU</td>
<td>1.0U</td>
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<td>07/29/2010 1533U</td>
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<table>
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<th>Result (ug/L)</th>
<th>Qualifier</th>
<th>RL</th>
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<td>25U</td>
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<tr>
<td>Benzene</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>Bromoform</td>
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<td>Bromomethane</td>
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<td>1.0U</td>
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TestAmerica Savannah: Page 6 of 13
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## Method Blank - Batch: y80 -175708u

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### Analyte Results

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### Surrogate Results

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# Quality Control Results

**Lab Control Sample/U**  
**Lab Control Sample Duplicate Recovery Report - Batch: 680-175708u**  
**Method:** 8260Bu  
**Preparation:** 5030Bu

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<td>101C</td>
<td>101C</td>
<td>7N - 127N</td>
<td>0.</td>
<td>30.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1,2-Tur,chloroethane.</td>
<td>99C</td>
<td>99C</td>
<td>75 - 121C</td>
<td>0.</td>
<td>30.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tur,chloroethMe.</td>
<td>94C</td>
<td>97N</td>
<td>4 - 115.</td>
<td>3U</td>
<td>30.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl chloridU</td>
<td>9C</td>
<td>9C</td>
<td>59 - 144C</td>
<td>2C</td>
<td>50.</td>
<td></td>
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</tr>
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</table>
**Quality Control Results**

**Lab Control Sample**
**Lab Control Sample Duplicate Recovery Report - Batch: 680-175708u**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Client Matrixe:</td>
<td>Water.</td>
<td>PU p BatchM/N/A.</td>
<td>Lab File ID.:</td>
<td>oq212QU</td>
</tr>
<tr>
<td>Dilution:.</td>
<td>1.0.</td>
<td>Units- ug/Le</td>
<td>Initial Weight/Volume.:</td>
<td>5 mL</td>
</tr>
<tr>
<td>Date Analyz4dU:</td>
<td>07/29/2010 0949C</td>
<td></td>
<td>Final Weight/Volume.:</td>
<td>5 mL</td>
</tr>
<tr>
<td>Date PU pa. dU:</td>
<td>07/29/2010 0949C</td>
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<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Client Matrixe:</td>
<td>Water.</td>
<td>PU p BatchM/N/A.</td>
<td>Lab File ID.:</td>
<td>oq214QU</td>
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<tr>
<td>Dilution:.</td>
<td>1.0.</td>
<td>Units- ug/Le</td>
<td>Initial Weight/Volume.:</td>
<td>5 mL</td>
</tr>
<tr>
<td>Date Analyz4dU:</td>
<td>07/29/2010 101C</td>
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<td>Final Weight/Volume.:</td>
<td>5 mL</td>
</tr>
<tr>
<td>Date PU pa. dU:</td>
<td>07/29/2010 101C</td>
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<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Analyte.</th>
<th>% Rec.</th>
<th>LCS.</th>
<th>LCSD.</th>
<th>Limit.</th>
<th>RPD.</th>
<th>RPD Limit.</th>
<th>LCS Qual.</th>
<th>LCSD Qual.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes, Total.</td>
<td></td>
<td>958.</td>
<td>95.</td>
<td>4 - 11C</td>
<td>0.</td>
<td>30.</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Surrogate.</th>
<th>LCS % Rec.</th>
<th>LCSD % Rec.</th>
<th>Acceptance Limits-</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-BQ methyfluorobenzene.</td>
<td>9C</td>
<td>99C</td>
<td>75 - 120.</td>
</tr>
<tr>
<td>Dibromofluoromethane.</td>
<td>99C</td>
<td>99C</td>
<td>75 - 121C</td>
</tr>
<tr>
<td>Toluene-dU(Surr)M</td>
<td>102C</td>
<td>101C</td>
<td>75 - 120.</td>
</tr>
</tbody>
</table>

TestAmerica Savannahu
Quality Control Results

Client: ARCADIS U.S., Inc.  
Job Number: 680-59C24-1C

Method Blank - Batch: 680-175681u

| Lab Sample ID: | MB 680-175681/7-A. |
| Client Matrix: | Water. |
| Dilution: | 1.0. |
| Date Analyzed: | 08/06/2010 2142C |
| Date PU: | 07/29/2010 1241C |

<table>
<thead>
<tr>
<th>Analyte.</th>
<th>Result.</th>
<th>Qual.</th>
<th>RLe</th>
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</thead>
<tbody>
<tr>
<td>ChMnium.</td>
<td>10.</td>
<td>U.</td>
<td>10.</td>
</tr>
<tr>
<td>Zinc.</td>
<td>100.</td>
<td>U.</td>
<td>100.</td>
</tr>
</tbody>
</table>

Lab Control Sample - Batch: 680-175681u

| Lab Sample ID: | LCS 680-175681/FA. |
| Client Matrix: | Water. |
| Dilution: | 1.0. |
| Date Analyzed: | 08/06/2010 214C |
| Date PU: | 07/29/2010 1241C |

<table>
<thead>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ChMnium.</td>
<td>200.</td>
<td>204C</td>
<td>102C</td>
<td>75 - 125.</td>
<td></td>
</tr>
<tr>
<td>CoppU</td>
<td>250.</td>
<td>254C</td>
<td>101C</td>
<td>75 - 125.</td>
<td></td>
</tr>
<tr>
<td>LeadU</td>
<td>500.</td>
<td>512C</td>
<td>102C</td>
<td>75 - 125.</td>
<td></td>
</tr>
<tr>
<td>Zinc.</td>
<td>500.</td>
<td>51C</td>
<td>103U</td>
<td>75 - 125.</td>
<td></td>
</tr>
<tr>
<td>Matrix Type</td>
<td>Project Location (State)</td>
<td>Contract No.</td>
<td>Client Phone</td>
<td>Client Fax</td>
<td>Client Email</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------</td>
<td>--------------</td>
<td>--------------</td>
<td>------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Air/Soil/Sludge</td>
<td>NC</td>
<td>1282</td>
<td>919-885-4128</td>
<td>386-6080</td>
<td>Kevin Smith</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Sample Identification</th>
<th>Sample Type</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/7/10</td>
<td>12:00 PM</td>
<td>Effluent</td>
<td>Cattle 1440</td>
<td>See contract</td>
</tr>
</tbody>
</table>

Remarks:
- VOCs 8260
- Metals Color
- Non-Volatile Organic Solvent
<table>
<thead>
<tr>
<th>Question</th>
<th>F/ NAN</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below</td>
<td>N/AU</td>
<td></td>
</tr>
<tr>
<td>background</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TFe cooler's custody seal, if present, is intact.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>TFe cooler or samples do not appear to have been compromised or tampered</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>were received on ice.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>COC is present.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Is the Field Sampler's name present on COC?</td>
<td>FalseU</td>
<td></td>
</tr>
<tr>
<td>TFe are no discrepancies between the sample IDs on the containers and U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>the COC.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samples are received with holding time.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Sample containers are legible labels.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are completely filled.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Sample Preservation Verified.</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>TFe is sufficient vol. for all requested analyses, incl. any requested</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>MS/MSDsC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have leadspace or bubble is &lt;1mm (1/4&quot;) in U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>diameter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short lead time or quick TAT</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>needs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple sic samples are not present.</td>
<td>N/AU</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or compositing.</td>
<td>N/AU</td>
<td></td>
</tr>
</tbody>
</table>
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
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-FLC094), Michigan (9912), New Hampshire (250509), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (88-00467), 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).

TestAmerica Laboratories, Inc.
TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514
Tel (850) 474-1091 Fax (850) 478-2671 www.testamericainc.com
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

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury, Low Level (CVAFS)</td>
<td>TAL PEN</td>
<td>EPA 1631E</td>
<td></td>
</tr>
<tr>
<td>Preparation, Mercury, Low Level</td>
<td>TAL PEN</td>
<td>EPA 1631E</td>
<td></td>
</tr>
</tbody>
</table>

Lab References:
TAL PEN = TestAmerica Pensacola

Method References:
EPA = US Environmental Protection Agency
## METHOD / ANALYST SUMMARY

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyst</th>
<th>Analyst ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA 1631E</td>
<td>Jones, Randy</td>
<td>RJ</td>
</tr>
</tbody>
</table>

Client: ARCADIS U.S., Inc.  
Job Number: 400-49244-1
# SAMPLE SUMMARY

Client: ARCADIS U.S., Inc.  
Job Number: 400-49244-1

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Client Sample ID</th>
<th>Client Matrix</th>
<th>Date/Time Sampled</th>
<th>Date/Time Received</th>
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</thead>
<tbody>
<tr>
<td>400-49244-1</td>
<td>EFFLUENT</td>
<td>Water</td>
<td>07/27/2010 1440</td>
<td>07/28/2010 0924</td>
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</tbody>
</table>
SAMPLE RESULTS
Analytical Data

Client: ARCADIS U.S., Inc.

Client Sample ID: EFFLUENT
Lab Sample ID: 400-49244-1
Client Matrix: Water

Job Number: 400-49244-1
Date Sampled: 07/27/2010 1440
Date Received: 07/28/2010 0924

1631E Mercury, Low Level (CVAFS)

Method: 1631E
Preparation: 1631E
Dilution: 1.0
Date Analyzed: 07/29/2010 1101
Date Prepared: 07/23/2010 1445

Analysis Batch: 400-113658
Prep Batch: 400-113818

Instrument ID: HYDRA
Lab File ID: 072910b.PRN
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte | Result (ng/L) | Qualifier | RL
Mercury | <0.50 | | 0.50
QUALITY CONTROL RESULTS
Quality Control Results

Client: ARCADIS U.S., Inc.  
Job Number: 400-49244-1

QC Association Summary

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Client Sample ID</th>
<th>Report Basis</th>
<th>Client Matrix</th>
<th>Method</th>
<th>Prep Batch</th>
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</thead>
<tbody>
<tr>
<td><strong>Metals</strong></td>
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<tr>
<td>Prep Batch: 400-113618</td>
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</tr>
<tr>
<td>LCS 400-113618/2-A</td>
<td>Lab Control Sample</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td></td>
</tr>
<tr>
<td>LCSD 400-113618/3-A</td>
<td>Lab Control Sample Duplicate</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td></td>
</tr>
<tr>
<td>MB 400-113618/1-A</td>
<td>Method Blank</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td></td>
</tr>
<tr>
<td>400-49231-A-1-B MS</td>
<td>Matrix Spike</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td></td>
</tr>
<tr>
<td>400-49231-A-1-C MSD</td>
<td>Matrix Spike Duplicate</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td></td>
</tr>
<tr>
<td>400-49244-1</td>
<td>EFFLUENT</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td></td>
</tr>
<tr>
<td><strong>Analysis Batch:400-113658</strong></td>
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</tr>
<tr>
<td>LCS 400-113618/2-A</td>
<td>Lab Control Sample</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td>400-113618</td>
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<td>LCSD 400-113618/3-A</td>
<td>Lab Control Sample Duplicate</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td>400-113618</td>
</tr>
<tr>
<td>MB 400-113618/1-A</td>
<td>Method Blank</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td>400-113618</td>
</tr>
<tr>
<td>400-49231-A-1-B MS</td>
<td>Matrix Spike</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td>400-113618</td>
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<tr>
<td>400-49231-A-1-C MSD</td>
<td>Matrix Spike Duplicate</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td>400-113618</td>
</tr>
<tr>
<td>400-49244-1</td>
<td>EFFLUENT</td>
<td>T</td>
<td>Water</td>
<td>1631E</td>
<td>400-113618</td>
</tr>
</tbody>
</table>

Report Basis
T = Total

TestAmerica Pensacola
### Method Blank - Batch: 400-113618

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Qual</th>
<th>RL</th>
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<tbody>
<tr>
<td>Mercury</td>
<td>&lt;0.50</td>
<td></td>
<td>0.50</td>
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</tbody>
</table>

### Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 400-113618

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

<table>
<thead>
<tr>
<th>Analyte</th>
<th>LCS</th>
<th>LCSD</th>
<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>LCS Qual</th>
<th>LCSD Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>94</td>
<td>92</td>
<td>79 - 121</td>
<td>2</td>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Quality Control Results

Client: ARCADIS U.S., Inc.
Job Number: 400-49244-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-113618

<table>
<thead>
<tr>
<th>MS Lab Sample ID</th>
<th>Analysis Batch</th>
<th>Prep Batch</th>
<th>Client Matrix</th>
<th>Dilution</th>
<th>Date Analyzed</th>
<th>Date Prepared</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-49231-A-1-B MS</td>
<td>400-113658</td>
<td>400-113618</td>
<td>Water</td>
<td>1.0</td>
<td>07/29/2010 1004</td>
<td>07/28/2010 1215</td>
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<table>
<thead>
<tr>
<th>MSD Lab Sample ID</th>
<th>Analysis Batch</th>
<th>Prep Batch</th>
<th>Client Matrix</th>
<th>Dilution</th>
<th>Date Analyzed</th>
<th>Date Prepared</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-49231-A-1-C MSD</td>
<td>400-113658</td>
<td>400-113618</td>
<td>Water</td>
<td>1.0</td>
<td>07/29/2010 1012</td>
<td>07/28/2010 1215</td>
</tr>
</tbody>
</table>

Method: 1631E
Preparation: 1631E

Instrument ID: HYDRA
Lab File ID: 072910b.PRN
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

<table>
<thead>
<tr>
<th>Analyte</th>
<th>% Rec. MS</th>
<th>% Rec. MSD</th>
<th>Limit</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>MS Qual</th>
<th>MSD Qual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>81</td>
<td>67</td>
<td>71 - 125</td>
<td>12</td>
<td>24</td>
<td>F</td>
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</tr>
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</table>
**DATA REPORTING QUALIFIERS**

Client:  ARCADIS U.S., Inc.  
Job Number:  400-49244-1

<table>
<thead>
<tr>
<th>Lab Section</th>
<th>Qualifier</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Metals</td>
<td>F</td>
<td>MS or MSD exceeds the control limits</td>
</tr>
<tr>
<td>DATE</td>
<td>TIME</td>
<td>SAMPLE IDENTIFICATION</td>
</tr>
<tr>
<td>------------</td>
<td>------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>7/27/10</td>
<td>1440</td>
<td>Effluent</td>
</tr>
</tbody>
</table>

**Sample Date:** 7/27/10

**Sample Time:** 1440

**Sample Description:** Effluent

**Sample Identification:** Effluent

**Preservative:** X

**Matrix:** X

**Number of Containers Submitted:** 3

**Laboratory Use Only**

**Remarks:** 2.4°C
<table>
<thead>
<tr>
<th>Question</th>
<th>T / F / NA</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below background</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or tampered with.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.</td>
<td>True</td>
<td>2.4°C</td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Is the Field Sampler's name present on COC?</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and the COC.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples are received within Holding Time.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample containers have legible labels.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are completely filled.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample Preservation Verified</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in diameter.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT needs.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Multiphasic samples are not present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or compositing.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>PROJECT NAME</td>
<td>PROJECT NO.</td>
<td>CLIENT PROJECT MANAGER</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>UNC - Airport Rd.</td>
<td>NCC00233</td>
<td>Alan Pinnix</td>
</tr>
</tbody>
</table>

**SAMPLED BY:** David Twamley  
**CLIENT PHONE:** 919-854-1282  
**CLIENT E-MAIL OR FAX:** apinnix@arcadis-us.com

**TAT REQUESTED:** RUSH NEEDS LAB PREAPPROVAL  
**SAMPLING:** 1 DAY  
**SAMPLE DISPOSAL:** RETURN TO CLIENT

**DATE:** 7/27/10  
**TIME:** 1:40  
**SAMPLE IDENTIFICATION:** Effluent

**NUMBER OF CONTAINERS SUBMITTED:** 3

**RELIQUIFIED BY:** (SIGNATURE)  
**DATE:** 6/24/10  
**TIME:** 11:00

**RECEIVED BY:** (SIGNATURE)  
**DATE:** 6/24/10  
**TIME:** 9:24

**CUSTODY INTACT:** \( \Delta \text{ YES} \) \( \Delta \text{ NO} \)  
**CUSTODY SEAL NO.:** 2.4°C
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

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
n: sS
No additional co. n  tS. k

Receipt S
All samples were saved in good condition within tSpek raturS r@ 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:

**Matrix:** Water

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatile Organic Compounds (GC/MS)</td>
<td>T2L S2V2</td>
<td>SW2428</td>
<td>0 B2</td>
</tr>
<tr>
<td>Purg2 and T2p2</td>
<td>T2L S2V2</td>
<td>SW24250</td>
<td>30B2</td>
</tr>
<tr>
<td>M2 als (ICP)</td>
<td>T2L S2V2</td>
<td>SW24260</td>
<td>10CM</td>
</tr>
<tr>
<td>Prepa2al2on, Ex2ac2abl2 M2 als2</td>
<td>T2L S2V2</td>
<td>SM 3030CM</td>
<td></td>
</tr>
</tbody>
</table>

**Lab References:**

T2L S2V = T2s2 merica Savannah2

**Method References:**

SM = "S2anda2f M2 hods For Th2 Examina20n Of Wa2 . nd Was2 wa2 ",2

SW242 = "T2s2M2 hods For Evalua2ng Solid Was2 , Physical/Ch2n ical M2 hods", Thi2d Edi2on, Nov2nber 19. . nd I2. Upda2 s.2
<table>
<thead>
<tr>
<th>M: thN</th>
<th>AnalystN</th>
<th>Analyst ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWMic 82.0 B4</td>
<td>Lanier, CarolynU</td>
<td>CLM</td>
</tr>
<tr>
<td>SWMic 60 10CU</td>
<td>Bland, BrianU</td>
<td>BCB4</td>
</tr>
</tbody>
</table>
## AMPLS: UMMARY2

<table>
<thead>
<tr>
<th>Lab: ample IDS</th>
<th>Cli•u: ample IDS</th>
<th>Cli•u Mat•H2</th>
<th>Date/Time: ampliedb</th>
<th>Date/Time: Reuevedb</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-60SUf9-1b</td>
<td>lu•ntU</td>
<td>WaterU</td>
<td>08JU/2010 0800U</td>
<td>08JU/2010 0931</td>
</tr>
</tbody>
</table>
8260Bd/volatile Organic Compounds (GC/MS):

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Res.Lt (Rg2L)c</th>
<th>QMiUfierU</th>
<th>RLM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>24</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Bromoform</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Bromomethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Carbon dis.I fluoride</td>
<td>2.0U</td>
<td>2.0U</td>
<td></td>
</tr>
<tr>
<td>Carbon tetrachloride</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Chlorobenzene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Chlorodibromomethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Chloroethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Chloroform</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Chloromethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>cis-1,2-Dichloroethene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>cis-1,3-Dichloropropene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Dichlorobromomethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloroethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>1,1-Dichloroethene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>1,2-Dichloropropane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Diethyl ether</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>2-Hexanone</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Methylylene Chloride</td>
<td>10U</td>
<td>10U</td>
<td></td>
</tr>
<tr>
<td>2-B-tanone (MEK)c</td>
<td>10U</td>
<td>10U</td>
<td></td>
</tr>
<tr>
<td>4-Methyl-2-pentanone (MIBK)c</td>
<td>10U</td>
<td>10U</td>
<td></td>
</tr>
<tr>
<td>Styrene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Tetrachloroethene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>trans-1,2-Dichloroethene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>trans-1,3-Dichloropropene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Trichloroethene</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Vinyl chloride</td>
<td>1.0U</td>
<td>1.0U</td>
<td></td>
</tr>
<tr>
<td>Xylenes, Total2</td>
<td>2.0U</td>
<td>2.0U</td>
<td></td>
</tr>
</tbody>
</table>

**SUrrogateU**

- 4-Bromofluorobenzene U: 103U
- Dibromofluoromethane U: 9.0
- Toluene-d (SU) c: 101b

**Acceptance Limits**

- 7c-120U
- 7c-121b
- 7c-120U
<table>
<thead>
<tr>
<th>Analytical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client: ARCADIS U.S., Inc.2</td>
</tr>
<tr>
<td>Sample ID: 0-605U9-1b</td>
</tr>
<tr>
<td>Client Matrix: WaterU</td>
</tr>
</tbody>
</table>

### 6010C Metals(ED): 

<table>
<thead>
<tr>
<th>Method</th>
<th>Preparation</th>
<th>Dilution</th>
<th>Date Analyzed</th>
<th>Date Prepared</th>
</tr>
</thead>
<tbody>
<tr>
<td>6U</td>
<td>010CU</td>
<td>1.0U</td>
<td>08/02/2010 1934M</td>
<td>08/09/2010 1b324</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Res. I (µg/L)</th>
<th>QMilifier</th>
<th>RLM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>20U</td>
<td>20U</td>
<td></td>
</tr>
<tr>
<td>ChromiUm</td>
<td>10U</td>
<td>10U</td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>20U</td>
<td>20U</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>10U</td>
<td>10U</td>
<td></td>
</tr>
<tr>
<td>Zinc</td>
<td>100U</td>
<td>100U</td>
<td></td>
</tr>
</tbody>
</table>
**Lab Section** | **u alifierN** | **Description**  
--- | --- | ---  
GC/MS VOAU |  | Indicates the analyte was analyzed for bUt not detected.2  
Metals, |  | Indicates the analyte was analyzed for bUt not detected.2
### Method Blank - Batch: 680-177793y

<table>
<thead>
<tr>
<th>Lab Sample ID2</th>
<th>MB 680-177793/7c</th>
<th>nalysis BaM2</th>
<th>680-177793F</th>
<th>Inshumen2ID2</th>
<th>MSP2N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cli2n2MaM2</td>
<td>WaM</td>
<td>Ph p BaM2</td>
<td>N/c</td>
<td>LabFil2 ID2</td>
<td>pq390d-</td>
</tr>
<tr>
<td>Dilution2</td>
<td>1.0.</td>
<td>Uni2h ug/Lc</td>
<td></td>
<td>In2al W2igh</td>
<td>/Volume: 5 mLc</td>
</tr>
<tr>
<td>DaM. nalyzUt.</td>
<td>08/20/2010 1202N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DaM Ph paMd-</td>
<td>08/20/2010 1202N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Method: 8260By

<table>
<thead>
<tr>
<th>Preparation: 5030By</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Number: 680-60519-12</td>
<td></td>
</tr>
</tbody>
</table>

### Summary

<table>
<thead>
<tr>
<th>Substance</th>
<th>sul2</th>
<th>Qual2</th>
<th>Lc</th>
</tr>
</thead>
<tbody>
<tr>
<td>c2 on2</td>
<td>25.</td>
<td>U2</td>
<td>25.</td>
</tr>
<tr>
<td>BMHzUh2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>Błmiform.</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>Błmome. an2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>CaMőn disulfid</td>
<td>2.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>CaMőn. ac2lorid</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>CMorobenzUh2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>CMorodibromone. an2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>CMoroe. an2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>CMoroform.</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>CMorone. an2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>cis-1,2-Dic2loroe. n2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>cis-1,3-Dic2lorop2p2n2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>Dic2lorobromone. an2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>1,1-Dic2loroe. an2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>1,2-Dic2loroe. an2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>1,1-Dic2loroe. n2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
<tr>
<td>1,2-Dic2lorop2pan2</td>
<td>1.0.</td>
<td>U</td>
<td>2.0.</td>
</tr>
</tbody>
</table>
| Di2 yl e.          | 10.  | U2    | 10.
| EtFylbenzUh2       | 1.0. | U    | 2.0.|
| M) yl2n2 CMorid-   | 5.0. | U2    | 5.0.|
| 2-Bu.anon2 (MEK)U | 10.  | U2    | 10.|
| S9y. n2            | 1.0. | U    | 2.0.|
| 1,1,2,2-Te. ac2loroe. an2 | 1.0. | U | 2.0.|
| Te. ac2loroe. n2   | 1.0. | U    | 2.0.|
| Toluen2            | 1.0. | U    | 2.0.|
| ans-1,2-Dic2loroe. n2 | 1.0. | U | 2.0.|
| ans-1,3-Dic2lorop2p2n2 | 1.0. | U | 2.0.|
| 1,1,1-Tric2loroe. an2 | 1.0. | U | 2.0.|
| 1,1,2-Tric2loroe. an2 | 1.0. | U | 2.0.|
| Tric2loroe. n2     | 1.0. | U    | 2.0.|
| Vinyl c2lorid-     | 1.0. | U    | 2.0.|
| Xyl2n2s, To.al2    | 2.0. | U2   | 2.0.|

### Surrogate % c2 cc2p2anc2 Lim2sh

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-BlmofluorobenzUh2</td>
<td>104M</td>
<td>75 - 120.</td>
</tr>
<tr>
<td>Dibromofluorome. an2</td>
<td>99.</td>
<td>75 - 1212</td>
</tr>
<tr>
<td>Toluen2 d- (Sur)U</td>
<td>1012</td>
<td>75 - 120.</td>
</tr>
</tbody>
</table>
Quality Control Results

Lab Control Sample
Lab Control Sample Duplicate Recovery Report - Batch: 680-177793y

<table>
<thead>
<tr>
<th>LCS Lab Sample ID</th>
<th>LCS Lab Sample ID</th>
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### Quality Control Results

**Lab Control Sample**

**Lab Control Sample Duplicate Recovery Report - Batch: 680-177793y**

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naly: shnic2, CMomium, Copp2, Lcad-, Zinc2

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Lab Control Sample - Batch: 680-177710y

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naly: shnic2, CMomium, Copp2, Lcad-, Zinc2

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Lab Use Only:
- Custody Intact: Yes
- Custody Seal No: 
- Savannah Log No: 6080-60519
- Laboratory Remarks: Temp 33
**LNGin SamNle ReceiNt Check**

Client: ARCADIS U.S., Inc.2  
Job NUmber: 680-60588-1b

**LNGin Number: N0519y**  
List SNurce: TestAmerica Savannah

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<th>CNmmentN</th>
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<td>RUiioUtivity either w) s not meUs, red or, if meUs, red, is U or below U bUkgrouUndc</td>
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<td>The cooler's cUstody seU, if present, is intUct.2</td>
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<tr>
<td>The cooler or s, mple do not UppeUr to hae been compromised or U tUnpered with.2</td>
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<td>SUmple were received on ice.2</td>
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<tr>
<td>Cooler TemperUTure is UceptUble.2</td>
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<td>Cooler TemperUTure is recorded.2</td>
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<td>COC is fIlled oUt in ink Und legible.2</td>
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<tr>
<td>COC is fIlled oUt with UI pertinnt informUtion.2</td>
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<td>SUmple Ure received within Holding Time.2</td>
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<td>SUmple contUners have legible l2bel.2</td>
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<td>ContUners Ure not broken or leUking.2</td>
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<td>SUmple collection dCte/times Ure provided.2</td>
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<td>SUmple PreservSlion VerifIedc</td>
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<td>There is s, fIcient vol. for UI reqUsted UnUyse, incl. Uhy reqUsted U MS/MSDs.</td>
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<tr>
<td>If necess, ry, stIf I have been informed of Uhy short hold time or quck TAT U needs,</td>
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<td>M,tiphabet c, mple Ure not present.2</td>
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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

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:

**Description:**

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<th>Matrix</th>
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<tr>
<td>M) cury, Low L) v) l (CVAFS)</td>
<td>TAL PEN.</td>
</tr>
<tr>
<td>P) pa(atip., M) cury, Low L) v) l)</td>
<td>TAL PEN.</td>
</tr>
</tbody>
</table>

**Lab References:**

TAL PEN = T) stAmer.ca P) sac ola)

**Method References:**

EPA= US Envi)o. me. al P)lo. ctiφ. .g) cy)
### METHOD / ANALYST SUMMARY

**Client:** ARCADIS U.S., Inc.2  
**Job Number:** 400-49786-1c

<table>
<thead>
<tr>
<th>M: thN</th>
<th>Analyst N</th>
<th>Analyst ID</th>
</tr>
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<tbody>
<tr>
<td>EPA 1631Ec</td>
<td>Jones, Randyc</td>
<td>Rjc</td>
</tr>
</tbody>
</table>

T: stAmNic a PunsacD ap

**Page 3 of 12**
# AMPLS : SUMMARY2

Client: ARCADIS U.S., Inc.c  
Job Number: 400-49786-1c

<table>
<thead>
<tr>
<th>Lab : ample IDS</th>
<th>CIDy : ample IDS</th>
<th>CIDy Ma:ng2</th>
<th>Da:e/Ti:ihe : ampledb</th>
<th>Da:e/Ti:ihe : Reyewebd</th>
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</thead>
<tbody>
<tr>
<td>400-49786-1c</td>
<td>LUC NTI</td>
<td>Waterc</td>
<td>08/18/k010 0800c</td>
<td>08/19/k010 0948c</td>
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AMPL : LS
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<tr>
<th>Method:</th>
<th>1631E2</th>
<th>Analysis Batch:</th>
<th>400-1152832</th>
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<th>HYDRA2</th>
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<tr>
<td>Preparation:</td>
<td>1631E2</td>
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<td>Dilution:</td>
<td>1.02</td>
<td>Initial Weight/Volume:</td>
<td>40 mL2</td>
<td>Final Weight/Volume:</td>
<td>40 mL2</td>
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<td>Date Analyzed:</td>
<td>08/23/2010</td>
<td>12062</td>
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<tr>
<td>Date Prepared:</td>
<td>08/19/2010</td>
<td>15002</td>
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<th>RL2</th>
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<tr>
<td>Mercury2</td>
<td>&lt;0.502</td>
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<td>0.502</td>
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Client: ARCADIS U.S., Inc.
Job Number: 400-49786-1c

Client Sample ID: EFFLUENTa
Lab Sample ID: 2 400-49786-12
Client Matrix: Water2
ate Sampled: 08/18/2010 08002
ate Received: 08/19/2010 09482

1631E Mercury, low Level (CVAFS) D
QUALITYpCyTROLp   SULTSp
## QC Association Summary

<table>
<thead>
<tr>
<th>Lay Sample YP-</th>
<th>Client Sample YP-</th>
<th>Report Y asis</th>
<th>Client Matrix-</th>
<th>Method-</th>
<th>PrepC attchC</th>
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<tr>
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<tr>
<td>PrepC attchC400-115244C</td>
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<tr>
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<td>Lab Control Sample2</td>
<td>Tc</td>
<td>Water2</td>
<td>1631EM</td>
<td></td>
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<tr>
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<td>Tc</td>
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<tr>
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<td>Md hod Bænk</td>
<td>Tc</td>
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<tr>
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<td><strong>Analysis y attch@00-115283y</strong></td>
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<td>Tc</td>
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<td>400-1152442</td>
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**Report y asis**

T = Total2

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TestAmerica Pensacolay
**Quality Control Results**

**Method Blank - Batch: #00-y 5244y**

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<tr>
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<th>R5ult5</th>
<th>Qual5</th>
<th>RL5</th>
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<td>M5 cury5</td>
<td>&lt;0.505</td>
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**Lab Control Sample/h**

**Lab Control Sample Duplicate Recovery Report - Batch: 400-115244h**

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<tr>
<th>LCS Lab Samp5 ID5 LCS 400-115244/2-A5</th>
<th>Analysis Batch5 400-1152835</th>
<th>Inst5ument ID5 HYDRA5</th>
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<tr>
<td>Cl5nt Mat5x5</td>
<td>P5p Batch5 400-1152445</td>
<td>Lab Fil5 ID5 3105 b.PRN.</td>
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<tr>
<td>il ution5</td>
<td>Units5 ng/L5</td>
<td>Initial W5ight/Volume:. 405 mL5</td>
</tr>
<tr>
<td>at5 Analyz5d5</td>
<td></td>
<td>Final W5ight/Volume:. 405 mL5</td>
</tr>
<tr>
<td>at5 P5p a5 d5</td>
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<th>LCSD Lab Samp5 ID5 LCSD#400-115244/3-A5</th>
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<th>Inst5ument ID5 HYDRA5</th>
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<td>Lab Fil5 ID5 3105 b.PRN.</td>
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<tr>
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<td>Units5 ng/L5</td>
<td>Initial W5ight/Volume:. 405 mL5</td>
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<tr>
<td>at5 Analyz5d5</td>
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<td>Final W5ight/Volume:. 405 mL5</td>
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<tr>
<td>at5 P5p a5 d5</td>
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<tr>
<th>% R5c.5</th>
<th>LCS5</th>
<th>LCSD5</th>
<th>Limit5</th>
<th>RPD5</th>
<th>RPD%Limit5</th>
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<th>LCSD Qual5</th>
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<tbody>
<tr>
<td>M5 cury5</td>
<td>115</td>
<td>1215</td>
<td>79 - 1215</td>
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<td></td>
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</tbody>
</table>
DATA RhPORT:NS S  ALiña RSh

<table>
<thead>
<tr>
<th>Lab Section</th>
<th>u alifierN</th>
<th>Description</th>
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</thead>
</table>


<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Sample Identification</th>
<th>MATRIX</th>
<th>No</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/18/10</td>
<td>0800</td>
<td>Effluent</td>
<td>Water</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Question</td>
<td>F/NAN</td>
<td>Comment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>-------</td>
<td>---------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below S</td>
<td>N/AS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>background</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.</td>
<td>N/AS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or S</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tampered with.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>samples were received on ice.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is acceptable.</td>
<td>TrueS</td>
<td>2.2°C S</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC is present.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the Field Sampler's name present on COC?</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and S</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>the COC.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>samples are received within Holding Time.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ample containers have legible labels.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ample collection date/times are provided.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ample bottles are completely filled.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ample Preservation Verified.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested S</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M/MSDsS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in S</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>diameter.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT S</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>needsS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiphasic samples are not present.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ample do not require splitting or compositing.</td>
<td>TrueS</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
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
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: LA000244; 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
Comment:
No additional co.... n tS 2

Receipt M
All samples were received in good condition within TSP... n tS S

GC/MS VOA M
No analytical or quality issues were noted.

Metals M
No analytical or quality issues were noted.

VOA Prep M
No analytical or quality issues were noted.
## METHOD SUMMARY:

**Matrix:**  Water:

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method:</th>
<th>Preparation Method:</th>
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<tr>
<td>Volatile Organic Compounds (GC/MS)</td>
<td>TAL: VM</td>
<td>WM4M8:2BM</td>
<td>WM4M5030BM</td>
</tr>
<tr>
<td>Purge and Trap</td>
<td>TAL: VM</td>
<td>WM4M60 10CM</td>
<td>3030CM</td>
</tr>
<tr>
<td>ICP</td>
<td>TAL: VM</td>
<td>WM4M60 10CM</td>
<td>3030CM</td>
</tr>
</tbody>
</table>

**Lab References:**

TAL. V = TestAmerica.avannahM

**Method References:**

= "Standards:  thods For ThMExamination Of WatM. nd  WastMwatM",M

### METHOD / ANAL1ST SUMMARY

**Client:** ARCADIS U.S., Inc.S  
**Job Number:** M80-S1207-11

<table>
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<tr>
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<th>AnalystM</th>
<th>Analyst ID</th>
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<tbody>
<tr>
<td>SW846 8260BI</td>
<td>Lanier, Carolyn</td>
<td>LI</td>
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<tr>
<td>SW846 6010CI</td>
<td>Robertson, Bryn</td>
<td>BRI</td>
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<td>Lab Sample IDM</td>
<td>CIMh</td>
<td>Sample IDM</td>
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<tr>
<td>---------------</td>
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<tr>
<td>680-61207-1U</td>
<td>uentU</td>
<td>WaterU</td>
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Client: ARCADIS U.S., Inc.U
Job Number: 680-61207-1U

ClienSMnpieND:d Effluena
Lab SampM ID:U 680-61207-1U
Client Matrix:U WaterU
Date Sampled: 09/12/2010 1730U
Date Received: 09/14/2010 0907U

8260BD/volatleVolamic Compounas(GC/MS):
Method:U 8260BU
Preparation:U 5030BU
Analysis Batch: 680-180258U
Dilution:U 1.0U
Instrument ID:U MSPU
Date Analyzed:U 09/17/2010 1928U
Lab File ID:U p0209.d-
Date Prepared:U 09/17/2010 1928U
Initial Weight/Volume:U 5 mL
Final Weight/Volume:U 5 mL

<table>
<thead>
<tr>
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<th>Result (ug/L)</th>
<th>QualifierU</th>
<th>RLI</th>
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<td>25</td>
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<td>25U</td>
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<td>BenzeneU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>BromofomU</td>
<td>1.0</td>
<td>U</td>
<td>1.0U</td>
</tr>
<tr>
<td>BromomethaneU</td>
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</tr>
<tr>
<td>Carbon disulfideU</td>
<td>2.0</td>
<td>U</td>
<td>2.0U</td>
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<td>1.0U</td>
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## 6010C Me(Ni) sqICP:

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**Method:** 6010CU  
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**Lab Sample ID:** 680-61207-1U  
**Client Matrix:** WaterU  
**Date Sampled:** 09/12/2010 1730U  
**Date Received:** 09/14/2010 0907U  
**Instrument ID:** 091910.1U  
**Initial Weight/Volume:** 50 mL  
**Final Weight/Volume:** 50 mL
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### Method: h2l0 Bh

**Preparation:** 5030Bh

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### Quality Control Results

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<td>TolueneM- (i urj)</td>
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Quality Control Results

Lab Control Sample/6
Lab Control Sample Duplicate Recovery Report - Batch: 680-1802586

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</tr>
<tr>
<td>2-Butanom EMKJ</td>
<td>95</td>
<td>33</td>
<td>157</td>
<td>3I</td>
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<tr>
<td>4-M) thyl-2-pntanom EMKJ</td>
<td>1M</td>
<td>40 - 151</td>
<td>1M</td>
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<tr>
<td>t yS M</td>
<td>101M</td>
<td>2 - 122</td>
<td>0.5U</td>
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<tr>
<td>1,1,2,2-TetMChloroethanM</td>
<td>95</td>
<td>9 - 129</td>
<td>0.1M</td>
<td></td>
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<tr>
<td>TetMChloroeth nM</td>
<td>102M</td>
<td>7M</td>
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<td>0.1M</td>
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<td>ToluenM</td>
<td>95U</td>
<td>1 - 117</td>
<td>0.03I</td>
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<td>tMns-1,2.-ic hloroeth nM</td>
<td>102M</td>
<td>72 - 131</td>
<td>3I</td>
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<td>tMns-1,3.-ic hlorop2p2nM</td>
<td>95</td>
<td>73 - 123</td>
<td>3I</td>
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<td>1,1,1-TrichloroethanM</td>
<td>101M</td>
<td>7M</td>
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<td>Trichloroeth nM</td>
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<td>0.08.</td>
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TestAmerica Savannah6 Page 10 of 15
## Lab Control Sample/6

**Lab Control Sample Duplicate Recovery Report - Batch: 680-1802586**

<table>
<thead>
<tr>
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<th>LCSN80-1N0 25U</th>
<th>nalysis Batch</th>
<th>680-1N0 25U</th>
<th>nstrument . M</th>
<th>Ph</th>
<th>Lab FilM</th>
<th>pq131.d-</th>
<th>nitial WMghtVolume .</th>
<th>5 mLc</th>
<th>Final WMghtVolume .</th>
<th>5 mLc</th>
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<td>il utionM</td>
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<tr>
<td>atM n alyzUdi- atMPh pal d-</td>
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<th>nstrument . M</th>
<th>Ph</th>
<th>Lab FilM</th>
<th>pq133.d-</th>
<th>nitial WMghtVolume .</th>
<th>5 mLc</th>
<th>Final WMghtVolume .</th>
<th>5 mLc</th>
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<tr>
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<table>
<thead>
<tr>
<th>nalyM</th>
<th>% . c.M</th>
<th>LCSM</th>
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<th>LimitM</th>
<th>Ph</th>
<th>Ph LimitM</th>
<th>LCSDNualM</th>
<th>LCSDNualM</th>
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<tr>
<td>Vinyl chlorid-</td>
<td></td>
<td>11M</td>
<td>114U</td>
<td>59 - 144U</td>
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<td>XylMMe, TotalM</td>
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<td>106.</td>
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<th>LCSD% . cM</th>
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<tr>
<td>4-BlomofluorobenzLm</td>
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<tr>
<td>i bromofluoromethaN</td>
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<tr>
<td>ToluenM- (i urrr)</td>
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<td>95</td>
<td>95</td>
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Method Blank - Batch: 680-1800016

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<td>ug/Lc</td>
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<td>atMPH pal d-</td>
<td>09/35/2010 1232M</td>
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<table>
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<tr>
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<td>shnicM</td>
<td>20.</td>
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</tr>
<tr>
<td>ChloMium.</td>
<td>10.</td>
<td>UM</td>
<td>10.</td>
</tr>
<tr>
<td>Copp2</td>
<td>20.</td>
<td>UM</td>
<td>20.</td>
</tr>
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<td>Lcad-</td>
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Lab Control Sample - Batch: 680-1800016

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<td>il utionM</td>
<td>1.0.</td>
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<td>ug/Lc</td>
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<td>atM n alyzUt</td>
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<th>nalytM</th>
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<th>c.M</th>
<th>LimitM</th>
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<tr>
<td>shnicM</td>
<td>2000.</td>
<td>2110.</td>
<td>105U</td>
<td>75 - 125U</td>
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<td>ChloMium.</td>
<td>200.</td>
<td>211M</td>
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<td>Copp2</td>
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<td>254U</td>
<td>101M</td>
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<td>500.</td>
<td>534U</td>
<td>107M</td>
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<td>ZincM</td>
<td>500.</td>
<td>54U</td>
<td>110.</td>
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## Quality Control Results

**Matrix Spike/6**

**Matrix Spike Duplicate Recovery Report - Batch: 680-1800016**

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<th>nMent . CPh</th>
<th>Lab FillM 091910.chl</th>
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<td>09/30/2010 0225U</td>
<td>104U</td>
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<td>106.</td>
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<td>103I</td>
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<th>% . c.M</th>
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<th>LimitM</th>
<th>Ph</th>
<th>Ph LimitM</th>
<th>M)</th>
<th>QualM</th>
<th>M)</th>
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<tbody>
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<td>shnicM</td>
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<td></td>
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<td>Chliomium.</td>
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<td>75 - 125U</td>
<td>2M</td>
<td></td>
<td>75 - 125U</td>
<td>2M</td>
<td></td>
</tr>
<tr>
<td>Copp2</td>
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<td></td>
<td>75 - 125U</td>
<td>2M</td>
<td></td>
<td>75 - 125U</td>
<td>2M</td>
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</tr>
<tr>
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<td>2M</td>
<td></td>
<td>75 - 125U</td>
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**Method: 6010C6**

**Preparation: 3030C6**
# Analysis Request and Chain of Custody Record

## TestAmerica

**The Leader in Environmental Testing**

### Project Reference

**UNC-Airport Rd.**

### TAL (LAB) Project Manager

**Kathy Smith**

### Client (GSI) PM

**Alan Pinix**

### Client Name

**ARCADIS**

### Client Address

**801 Corporate Center Dr., Raleigh, NC 27607**

### Company Contracting This Work (if applicable)

**ARCADIS**

---

## Required Analysis

<table>
<thead>
<tr>
<th>Receiver</th>
<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Effluent</td>
<td>6/12/10</td>
<td>1730</td>
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---

**Number of coolers submitted:** 1

---

**Relinquished by:**

**Date:** 9/13/10, **Time:** 0900

**Relinquished by:**

**Date:** 9/14/10, **Time:** 09:07

---

**Laboratory Remarks**

**Serial Number:** 031108

**Website:** www.testamerica-inc.com

**Phone:** (912) 354-7858

**Fax:** (912) 352-0165

**Savannah Log No.:** 689-60207

**Laboratory Remarks:** 0.2
<table>
<thead>
<tr>
<th>Question</th>
<th>/ F/ NAL</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RudioUctivity either w) s not meUsured or, if meUsured, is U or below U</td>
<td>NIAU</td>
<td></td>
</tr>
<tr>
<td>bUkgroundc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seU, if present, is intUct.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>The cooler or sl mp es do not UppeU to have been compromised or U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Unpered with.U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SImp es were received on ice.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Cooler TemperUture is UceptUle.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Cooler TemperUture is recorded.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>COC is present.U</td>
<td>TrueU</td>
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</tr>
<tr>
<td>COC is fill ed out in ink Und legible.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>COC is fill ed out with U pertinent informUlion.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Is the Field SImp er's nUme present on COC?U</td>
<td>NIAU</td>
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<tr>
<td>There Ure no discrep ncies between the sl mp e IDs on the contUners Und U</td>
<td>TrueU</td>
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<tr>
<td>the COC.U</td>
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<tr>
<td>SImp es Ure received within HoldUng Time.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>SImp e contUners have legible Ubells U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>ContUners Ure not broken or leUking.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>SImp e collection dcleUmes Ure provided.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>AppropriUe sl mp e contUners Ure used.U</td>
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<td></td>
</tr>
<tr>
<td>SImp e bottles Ure comp eUlyfilled.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>SImp e PreservUlion Verifedc</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for U requested UhUyses, incl. Uhy requested U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>MSUSSdsi</td>
<td></td>
<td></td>
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<tr>
<td>VOA sl mp e vUUs do not have heUsp ce or bubble is &lt;6mm (1U&quot;) in U</td>
<td>TrueU</td>
<td></td>
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<tr>
<td>diUmeter.U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If necessF ry, stuf I have been informed of Uhy short hold time or quick TAT U needs!</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Multiphagic sl mp es Ure not present.U</td>
<td>NIAU</td>
<td></td>
</tr>
<tr>
<td>SImp es do not require sp iting or compositing.U</td>
<td>NIAU</td>
<td></td>
</tr>
</tbody>
</table>
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

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
09/17/2010

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Comme\$:
No additional co. n tS. 2

Ipt D
All sa\$p les we\$ık ScS vld in good condition withn tS pk raturS rS uirS n tS.S

Metals D
Mkthod 1631E: Thk2 atrix s\$i2 / 2 atrix s\$i2 duplicatS (MS/MSD) rScovkries for batch 400-116788\$ 400-116818 we\$ outsiders control 2 li2 tS. Thkass2bicatS la boratory control sa\$p les (LCS/LCSD) rScovkries 2 t accSpIncaS critSria. Data was flagged and rSport as is2S

No othkr analytical or q\$ality iss\$U we\$rSn otS\$ S
### METHOD SUMMARY:

Matrix: D Water:

<table>
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<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
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<td>EPA631Ep</td>
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<tr>
<td>P prep, Mn cury, Low Lvppl</td>
<td>TAL PEN.</td>
<td>EPA631Ep</td>
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**Lab References:**

TAL PEN = TestAmerica Pensacola

**Method References:**

EPA\# US Environmental Protection. ction .gp ncyp
<table>
<thead>
<tr>
<th>MethN</th>
<th>AnalystM</th>
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<tr>
<td>EPA</td>
<td>1631Eb</td>
<td>Jones, Randyb</td>
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## SAMPLD SUMMARY2

**Client:** ARCADIS U.S., Inc.  
**Job Number:** 400-50360-1b

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<th>Lab Sample I2</th>
<th>CIR6 Sample I2</th>
<th>CIR6 Marlx2</th>
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<th>a:e/Tlhe : Re66&amp;vedb</th>
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<td>LUENTR</td>
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SAMPL : S L SD
Client: ARCADIS U.S., Inc.R
Job Number: 400-50360-1R

ClientSampleID: EFFLUENTa
Lab Sample ID:R 400-50360-1R
Client Matrix:R WaterR

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<td>Dilution:R</td>
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<td>09/14/2010 1515R</td>
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<table>
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<tr>
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<th>Result (ng/L)R</th>
<th>QualifierR</th>
<th>LI</th>
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<td>MercuryR</td>
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<td>0.50R</td>
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1631E Mercury, low level (CVAFS) D
QUALITY pC6TROLp  SULTSp
# Quality Control Results

**Client:** ARCADIS U.S., Inc.R  
**Job Number:** 400-50360-1R

## QC Association Summary

<table>
<thead>
<tr>
<th>L- S- mple ID-</th>
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<th>Method-</th>
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**Analysis 6 t chG00-116818M**

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**Report 6 sis6**

T = Total0
**Method Blank - Batch**: 800-116788v

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<tr>
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<td>Unitgp ngLR</td>
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**Lab Control Sample/v**

**Lab Control Sample Duplicate Recovery Report - Batch**: 400-116788v

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**Method**: 1631Ev

**Preparation**: 1631Ev

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<td>Finpl WMghbVolume.:</td>
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Quality Control Results6

Job Number: 400-50360-1.
### Quality Control Results

**Matrix Spike/v**
**Matrix Spike Duplicate Recovery Report - Batch: 400-116788v**

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<th>Test</th>
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**Method: 1631Ev**
**Preparation: 1631Ev**

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<td>etalsb</td>
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<td>Questib</td>
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<td>R0dio0ctivityether 0psnot mel0suredcr ,Rfme0sured,Rbl t or bel0eckgroundc</td>
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<tr>
<td>The cooler's1cust0yze0l,Repres,Reint0ct.R</td>
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<td>M50MSd0i</td>
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</tbody>
</table>
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

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
CommC
No additional co. n tS. 2

Clin pt D
All sapa les were rS:3 vld in good condition within tS pks. raturS rS uirS n tS.S

GC/MS VOA M
No analytical or qality iss@0 we2rSn of9l. 6

Metals M
No analytical or qality iss@0 we2rSn of9l. 6

OA Prep M
No analytical or qality iss@0 we2rSn of9l. 6
### Method Summary:

**Matrix**

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<td>TML</td>
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<td>SW, 4U8.2.0 BM</td>
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**Lab References:**

TML SAY = TM:Merica SavaM ahb

**Method References:**

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### 8260B Volatile Organic Compounds (GC/MS)

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**Prep4rption: 0**  5030Bc  
**Dilution: 0**  1.0U  
**Date Analyzed: 0**  10/11/2010U612c  
**Date Prep4red: 0**  10/11/2010U612c

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## Method Bv nk - Bv ch: 680-1826716

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## Method: 9260Bv

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## Surrogc

| 4-Bla\nfluorobe. zB | 100. | 75 - 120. |
| i bromofluorome.h, | 100. | 75 - 121M |
| Tolue. - dN (Surr)0 | 104 | 75 - 120. |
### LMB ConvromSMnp8/M

**LMB ConvromSMnp8 Dup6cv e Recovery Reporv- Bv ch: 680-1826716**

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<td>102b</td>
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### Quv ivy ConvovResuvsv

**Method**: 8260Bv  
**Prep6rv ion**: 9030Bv

**LMBConvovSMnp8/M**  
**LMBConvovSMnp8 9upBcv e Recovery Reporv- Bv ch**: 680-1826716

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Method: 6010Cv
Prep6rv ion: 9005AM
Tov RecoveryMv

Inj. ume. ID) ICPc
L) b Fil4 ID) 1015101039.ch,
Init) l W, igh./Volume: 50 mL
Fin) l W, igh./Volume: 50 mL

Method Bv nk - Bv ch: 680-1827L9M

L) b S) mpl4 ID) MB 680-1M27c9/14-
Cli) Mc ixc W,
i lu.io. 1.0.
  - lyzBdtN 10/15/2010 213
  Pc pM dN 10/13/2010 0953

lyb su l4 Qu l4 L)
Ch.omium. 10. U) 10.

Method: 6010Cv
Prep6rv ion: 9005AM
Tov RecoveryMv

Inj. ume. ID) ICPc
L) b Fil4 ID) 1015101039.ch,
Init) l W, igh./Volume: 50 mL
Fin) l W, igh./Volume: 50 mL

Method 6010Cv
Prep6rv ion: 9005AM
Tov RecoveryMv

Inj. ume. ID) ICPc
L) b Fil4 ID) 1015101039.ch,
Init) l W, igh./Volume: 50 mL
Fin) l W, igh./Volume: 50 mL

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

Tes Americv SM/Mnvhv
Page 12 of 14
# Chain of Custody Record

**Client Contact**

**Project Manager:** Alan Pinnix  
**Tel/Fax:** 919-854-1282

**Site Contact:** Alan Pinnix  
**Lab Contact:** Kathy Smith

**Date:** 10/1/2010  
**Carrier:** Fed Ex  
**COC No.**

**Job No.**

**SDG No.**

---

**Sample Identification**

<table>
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<th>Sample Date</th>
<th>Sample Time</th>
<th>Sample Type</th>
<th>Matrix</th>
<th>No. of Cont.</th>
<th>Test Results</th>
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<td>10/1/2010</td>
<td>10:30</td>
<td>GW</td>
<td>WTR</td>
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</tbody>
</table>

**Test Results:**

- VOC's (BTEX)
- Metals (600)*

**Sample Specific Notes:**

- * ARSENIC, LEAD, CHROMIUM, COPPER, & ZINC ONLY

---

**Preservation Used:** 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

**Possible Hazard Identification**

- [X] 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
- [X] Disposal by Lab
- [ ] Archive for Months

**Special Instructions/QC Requirements & Comments:**

- [ ] ARCADIS
- [ ] 10/1/10 15U
- [ ] 10/24/10 1010

**Relinquished by:**

- [ ] ARCADIS
- [ ] Date/Time: 10/10/15U  
- [ ] Received by: [Name]

- [ ] [Company]
- [ ] Date/Time:  
- [ ] Received by: [Name]

- [ ] Company
- [ ] Date/Time:  
- [ ] Received by: [Name]
Login Sam/ le ReTei/ t CheTk List/
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

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 (LA00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-09-1), Virginia (00008), Washington (C915), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).
CohmeMtsM
No additional co. n TS 2

except M
All samples were in good condition within TS pk rates rS uirS n TS S

MetalLM
Method 1631E: Thk2 atrix sβ/2 l rScovkries for batch 400-118193 \ 400-118025 were outside cgr tr ol g limits. The assg. ated laboratory cgr 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 nted.g
METHOD SUMMARY:

<table>
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<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
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<td>TgL PEN.</td>
<td>EPg 16g1Eg</td>
<td>EPg 16g1Eg</td>
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<td>Pg pagigo. M5 cury, Lo. LhvTI4</td>
<td>TgL PEN.</td>
<td>EPg 16g1Eg</td>
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</table>

Lab References:D
TgL PEN = TgsR merica Pg sacolag

Method References:D
EPg = US Egvjo. me. al Pgp. clio. . gT c yS
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<td>PA 031b</td>
<td>Jones, Rndyl</td>
<td>RJR</td>
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### SAMPLMSU MA RY2

**Client:** ARCADIS U.S., Inc.  
**JRNumber:** 40-50885-1b

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<td>40-50885-1b</td>
<td>EFFLUENT</td>
<td>Water0</td>
<td>1 / 1/2 1 1 3)</td>
<td>1 / 2/2 1 11 8u</td>
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*Test&mev a Pets a: ola:
SAMPL : S L SM
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<td>D0te S0mpled:</td>
<td>0b/c1/2c1b 1b34</td>
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<td>D0te Received:</td>
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1631E Mercury, Low Level (CVAFS)D

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QUALITY pCvTROLp  SULTSp
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**Analysis Batch400-118193u**

| CS 40 -118u25/2-A0 | ntno0 IgS0mple0 | TR | W. ter0 | 1631b | 40 -118u250 |
| CSD 40 -118u25/3-A0 | ntno0 IgS0mple Duplic0te0 | TR | W. ter0 | 1631b | 40 -118u250 |
| BM40 -118u25/1-A0 | ethMtBlnkM | TR | W. ter0 | 1631 | 40 -118u250 |
| 640-3c220-A-14-BM S0 | trix*Sike0 | TR | W. ter0 | 1631b | 40 -118u250 |
| 640-3c220-A-14-C 0 SD0 | trix*Sike Duplic0te0 | TR | W. ter0 | 1631b | 40 -118u250 |
| 40 -50885-1b | FF5U0NTR | TR | W. ter0 | 1631b | 40 -118u250 |

**Report Basis**

TR | TR | TR | Ig

TestAmerica Pensacolau
### Quality Control Results

**Method Blank - Batch: 400-1180256**

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**LabControl Bampæ/T**

**LabControl Bampæ D/ pccate Recovery Report - Batch: 400-1180256**

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Quality Control Results

Matrix Spk/T  
Matrix Spk D/ pccate Recovery Report - Batch: 400-1180256  

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<td>Dilu.io.</td>
<td>lgtj I W, igh5Volume.: 40 mL</td>
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<tr>
<td>Dg . lyzBxN</td>
<td>Finj I W, igh5Volume.: 40 mL</td>
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<td>Dg . PU pm dN</td>
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<td>10/05/2010 11300</td>
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<th>MSDg</th>
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<th>PDg</th>
<th>PD Limit</th>
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<td>200</td>
<td>71 - 125C</td>
<td>19,</td>
<td>245</td>
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**Chain of Custody Record**

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<tr>
<th>Client Contact</th>
<th>Project Manager: Alan Pinnix</th>
<th>Site Contact: Alan Pinnix</th>
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<tbody>
<tr>
<td>ARCADIS</td>
<td>Tel/Fax: 919-854-1282</td>
<td>Lab Contact: Kathy Smith</td>
<td>Carrier: Fed Ex</td>
<td>1 of 1 COCs</td>
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<tr>
<td>801 Corporate Center Drive, Suite 300</td>
<td>Analysis Turnaround Time</td>
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</tr>
<tr>
<td>Raleigh, NC 27807</td>
<td>Calendar (C) or Work Days (W)</td>
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<tr>
<td>919-854-1282</td>
<td>Phone</td>
<td>TAT if different from Below</td>
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<tr>
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<td>Site:</td>
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<td>10:30</td>
<td>GW</td>
<td>WTR</td>
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**Preservation Used:** 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

**Possible Hazard Identification**
- [ ] Non-Hazard
- [ ] Flammable
- [ ] Skin Irritant
- [ ] Poison
- [ ] 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:**

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<td></td>
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**Observations:**

- 3-4°C
### Login NumbeT: 50885T

**Cleator:** H1, K1ma/

**List NumbeT:**

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<th>IF/NAM</th>
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<td>Tce coolor or &amp;amoles&amp;cnot &amp;ah ear to 0ave been com0romisedcr 0 tam0eredavit0, R</td>
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<td>ler &amp;tem0erature is&amp;esccorded, R</td>
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<td>3.4&quot;,</td>
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<tr>
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<td>Tcere &amp;Qre no disc0reanciesQet ween 10e &amp;amole &amp;DsCn 10 e containers&amp;andc t e CQ, R</td>
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<tr>
<td>SamõolesQere receivedavit0in B) IIding, Time, R</td>
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<td>Samõle 6FFLUENTcwas&amp;eceivedcn &amp;ah Saturday, &amp;andwas&amp;ot 0reservedavit0in 48urs, R</td>
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<tr>
<td>Tcere isGefficient VQ, Rg all&amp;questedanalyses, Rncl.Rny&amp;questedc MS/MSDaC</td>
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<tr>
<td>VOA &amp;amõle Qals&amp;cnot 0ave 0eadsQace or b0g &amp; le is&amp;G6mm (0/4&quot;) in 0 diameter, R</td>
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<td></td>
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<tr>
<td>If nec0esary, Rstaff ave been infgrme dc f&amp;nyshQt 0 Idtime or QickTATc needsC</td>
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<td>Mulit0 asic &amp;amõles&amp;Qre not 0resent, R</td>
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<tr>
<td>Samõoles&amp;cnot re quire &amp;Clitting, r com0 siting, R</td>
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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

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.

**METHOD SUMMARY:**

<table>
<thead>
<tr>
<th>Description:</th>
<th>Lab Location:</th>
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**Lab References:**

TML SAI/ = TML:merica Savannah.

**Method References:**


TestAmerica Savannah:
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Testameu a Sava: ah2
### 8260B Vodtue Organic Compounds (GC/MS):

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<th>AcceptUnce LimitsU</th>
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<td>Dibromofluorometh neU</td>
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<td>75 - 121U</td>
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<td>Toluene-d8 (Sur)U</td>
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## 6010C Metals (ICP) - Total Recoverable Test

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### Dilution U:
- Dilution U: 1.0U
- Use 1:100 for Dilution U:

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<th>RL U</th>
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</tr>
<tr>
<td>GC/MS VOAU</td>
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Quality Control Results

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**LabControl Amp@/M**  
**LabControl Amp@ DMPcate Recovery Report - Batch: 680-186141**

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Quality Control Results

LabControl 8amp@/M
LabControl 8amp@ MDPscate Recovery Report - Batch: 680-186141

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| . np lyzUdb     | 11/14/2010 10.    |                |          |            |     
| Ph p2 db        | 11/14/2010 10.    |                |          |            |     

| LCSDjLRb Spmplp. | LCSDj680-18614U10. | np lysis BR chl | 680-18614U | nshumenutm | MSO2
|------------------|---------------------|-----------------|----------|------------|-----
| CliptnpMp ip     | WM                  | Ph p BR chl N/c |          |            |     
| il u.ionp        | 1.0.                | Unitg ug/LR     |          |            |     
| . np lyzUdb      | 11/14/2010 1123F    |                |          |            |     
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**Method Blank - Batch: 680-185495u**

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**LabControl Bampb - Batch: 680-185495u**

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| 11-5-10| 1600 | Effluent               | 3                              | 1       | *Report:

**Sample Collection Details**

- **Sample Date:** 11-5-10
- **Sample Time:** 1700
- **Sample Location:** Effluent
- **Sample Type:** GC
- **Sample Description:** Metals (GC/ICP)
- **Sample Media:** Effluent
- **Sample Container:** 1
- **Sample Quantity:** 1

**Laboratory Remarks:** Temp 0.2
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<tr>
<td>Backround</td>
<td></td>
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</tr>
<tr>
<td>The cooler's custody seU, if present, is intUct.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>The cooler or sl mp es do not UppUer to habe been compromised or U</td>
<td>TrueU</td>
<td></td>
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<tr>
<td>Unpered with U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slmp es were received on ice.U</td>
<td>TrueU</td>
<td></td>
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<tr>
<td>Cooler TemperUture is UceptUble.U</td>
<td>TrueU</td>
<td></td>
</tr>
<tr>
<td>Cooler TemperUture is recorded.U</td>
<td>TrueU</td>
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</tr>
<tr>
<td>COC is present.U</td>
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<tr>
<td>COC is filled out in ink Und legible.U</td>
<td>TrueU</td>
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<tr>
<td>COC is filled out with U pertinent informUtion.U</td>
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<tr>
<td>Is the Field Slmp er's nUme present on COC?U</td>
<td>F5 seU</td>
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<tr>
<td>There Ure no discrep ncies between the sl mp e IDs on the contUners Und U</td>
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<tr>
<td>Slmp es Ure received within HoldUing Time.U</td>
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<tr>
<td>Slmp e contUners habe legible UbeUleU</td>
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<tr>
<td>ContUners Ure not broken or leUkng.U</td>
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<tr>
<td>Slmp e collection dteTimes Ure provided.U</td>
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<td></td>
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<tr>
<td>AppropriUe sl mp e contUners Ure used.U</td>
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<tr>
<td>Slmp e bottles Ure comp etelUfilled.U</td>
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<td>Slmp e PreservUlon Verified.</td>
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<tr>
<td>There is sufficient vol. for U requested UnUyes, incl. Uhy requested U</td>
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<tr>
<td>MSUSSDsI</td>
<td></td>
<td></td>
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<tr>
<td>VOA sl mp e viUs do not habe heUsp ce or bubble is &lt;6mm (1U&quot;) in U</td>
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<tr>
<td>dUmeter.U</td>
<td></td>
<td></td>
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<tr>
<td>If necesSI ry, stll habe been informed of Uhy short holdUme or quick TAT U</td>
<td>TrueU</td>
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<td>needsI</td>
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<tr>
<td>Multiphabic sl mp es Ure not present.U</td>
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<tr>
<td>Slmp es do not require sp iting or compositing.U</td>
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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

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:

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<td>TAL PEN.</td>
<td>EPA(1631E)</td>
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<td>EPA(1631E)</td>
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Lab References:
TAL PEN = T) stAmerica P) sacola

Method References:
EPA= US Envi)o. me. al P)jo. ctio. .g) cy
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<td>EPA 1631Ec</td>
<td>Jones, Randyc</td>
<td>Jc</td>
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## SAMPLMSU MA RY2

Client: ARCADIS U.S., Inc.c  
Job Number: 400-51787-1c

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<th>Sample I2</th>
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SAMPL: S L SM
**1631E Mercury, Low Level (CVAFS)**

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**CTent Sample ID:** EFFlUENT

- **Lab Sample ID:** 400-51787-1c
- **Client Matrix:** Water
- **Date Sampled:** 11/05/2010 1600c
- **Date Received:** 11/06/2010 1040c

**Analytical Data**

- **Method:** 1631E
- **Preparation:** 1631E
- **Dilution:** 1.0c
- **Date Analyzed:** 11/09/2010 1105c
- **Date Prepared:** 11/08/2010 1515c

**Analysis Batch:** 400-120331c
**Prep Batch:** 400-120303
**Instrument ID:** HYDRAc
**Lab File ID:** 110910b.PRNc
**Initial Weight/Volume:** 40 mL
**Final Weight/Volume:** 40 mL
QUALITY\textsubscript{CuTROLP} SULT\textsubscript{Sp}
## QC Association Summary

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**Method Bank - Batch: 400-120303T**

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### Lab Control Sample

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**Preparation:** 1631Ey  

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Page 11 of 13
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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

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

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## Lab References:

AL SAV = TestAmerica SavannahT

## Method References:

SM = “Standard Methods For The Examination Of Water And Wastewater”, T

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**Analytical Data**

**Client:** ARCADIS U.S., Inc.  
**Job Number:** 680-64168-1J

**Client Sample ID:** V  
**Effluent:** V

**LJb Sample ID:** 680-64168-1J  
**Client Matrix:** WNerJ

**Date Sampled:** 12/N/2010 1700J  
**Date Received:** 12/N/2010 0934J

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**4-BfomofluorobenzFnF** 97F 70 - 130. 70 - 130.

**TolueneF dF (Surr)F** 103F 70 - 130. 70 - 130.
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Lab Control Sample
Lab Control Sample V Viate Recovery Report V Batch: 680-190069u

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<tr>
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### Lab\Control\Sample\ Batch: 680-189355u

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### Method: 6010Cu

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### Method: 6010Cu

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Matrix\Sp8k\e/V
Matrix\Sp8k\e/V\Vp\Vate\Rec\Vey Report\V Batch: 680-189355u

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Chain of Custody Record

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<th>Client Contact</th>
<th>Project Manager: Alan Pinnix</th>
<th>Site Contact: Alan Pinnix</th>
<th>Date: December 14, 2010</th>
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<tbody>
<tr>
<td>ARCADIS</td>
<td>Tel/Fax: 919-854-1282</td>
<td>Lab Contact: Kathy Smith</td>
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<td>1 of 1 COCs</td>
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<tr>
<td>801 Corporate Center Drive, Suite 300</td>
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<th>Sample Identification</th>
<th>Sample Date</th>
<th>Sample Time</th>
<th>Sample Type</th>
<th>Matrix</th>
<th># of Cont.</th>
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<tr>
<td>Effluent</td>
<td>12/14/2010</td>
<td>7:00</td>
<td>Grab</td>
<td>4</td>
<td>3 1</td>
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</tbody>
</table>

| Sample Specific Notes: | Please report: As, Cr, Cu, Pb, and Zn. |

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 12 Months

Special Instructions/QC Requirements & Comments:

TEMP 2.4
680 - 64168

Relinquished by: [Signature]
Company: ARCADIS
Date/Time: 12/15/16 10:00

Relinquished by: [Signature]
Company: [Signature]
Date/Time: 12/16/16 09:34

Relinquished by: [Signature]
Company: [Signature]
Date/Time: 12/16/16 09:34
<table>
<thead>
<tr>
<th>Question</th>
<th>/</th>
<th>F</th>
<th>NAc</th>
<th>CommeV</th>
</tr>
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<tbody>
<tr>
<td>Radioactivity eitFeFwas not measured or, if measured, is at or below F</td>
<td></td>
<td></td>
<td></td>
<td>N/AF</td>
</tr>
<tr>
<td>backg.oundc</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tce cooleFs custody seal, if p esent, is intact.J</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tce cooleFor, samples do not appeahto Fave been comp omised or.</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tampeFed witF.J</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Samples weF received on ice.J</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CooleFTempeFature is acceptable.J</td>
<td>TaeF</td>
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<tr>
<td>CooleFTempeFature is recorded.J</td>
<td>TaeF</td>
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<td></td>
</tr>
<tr>
<td>COC is p esent.J</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.J</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC is filled out witF all peFtinent information.J</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Is tFe Field SampleFs name p esent on COC?N</td>
<td>N/AF</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>TceFe are no discrepencies between tFe sample IDs on tFe containeFs and F</td>
<td>TaeF</td>
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<tr>
<td>tFe COC.J</td>
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<td></td>
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<tr>
<td>Samples are received witFin Holding Time.J</td>
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</tr>
<tr>
<td>Sample containeFs Fave legible labels.J</td>
<td>TaeF</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ContaineFs are not broken orJeaking.J</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are p ovided.J</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>App op iate sample containeFs are used.J</td>
<td>TaeF</td>
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<tr>
<td>Sample bottles are completely filled.J</td>
<td>TaeF</td>
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<td></td>
</tr>
<tr>
<td>Sample PFeSeFation VeFflede</td>
<td>TaeF</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>TceFe is sufficient vol. for all requested analyses, incl. any requested F</td>
<td>TaeF</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>MS/MSDST</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>VOA sample vials do not Fave Feadspace or bubble is &lt;6mm (1IJ”) in F</td>
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<td></td>
<td></td>
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<tr>
<td>diameteF.J</td>
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<tr>
<td>If neccessaty, staff Fave been informed of any sTordFold time or quick TAT F</td>
<td>TaeF</td>
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<td></td>
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<tr>
<td>needsT</td>
<td></td>
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<tr>
<td>Multip asic samples are not p esent.J</td>
<td>N/AF</td>
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<td></td>
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<tr>
<td>Samples do not FequFe splitting or composting.J</td>
<td>N/AF</td>
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<td></td>
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</table>
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 (LA00307), 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

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<td>AL PENv</td>
<td>A 1631Ev</td>
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**Lab References:**
AL PEN = TestAmerica Pensacola

**Method References:**
A = US Environmental Protection Agency

TestAmerica Pensacola: Page 2 of 13
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<tr>
<td>EPA 1631Ec</td>
<td>Jonev, RvndyF</td>
<td>RJv</td>
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<tr>
<td>Lab Sa:</td>
<td>Client Sa:</td>
<td>Client:</td>
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<tr>
<td>400-52750-1v</td>
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SAV PL : S L SV
### 1631E Mercury, Low Level (CVAFS)D

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QUALITYpCuTROLp  SULTSp
## QC Association Summary

<table>
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<tr>
<th>LaV Sample</th>
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<th>Method-</th>
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<tr>
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<td>W0</td>
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ReportV BaV

= Sot3S
### Method Blank - Batch: 400-123009y

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<td>Unit$F g/LR</td>
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<tr>
<th>sult) Qu. (LR)</th>
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<td>&lt;0.500 0.500</td>
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### Lab\textbf{C}ontrol\textbf{S}ample\textbf{v} | Lab\textbf{C}ontrol\textbf{S}ample\textbf{V} plate\textbf{R}ecovery Report\textbf{V} Batch: 400-123009y

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| LCS) LCSD) Limit) PF PF Limit) LCS Qu. l) LCSD)Qu. l) |
|----------------|----------------|----------------|----------------|----------------|
| MN curyS       | 945            | 945            | 79 - 121.      | 00             | 200             |
MatrixSpokev
MatrixSpoke/ pVateRecovery ReportV Batch: 400-123009y

| MS LRB S mpl ID | lysis BF chF 400-123101. | Method: 1631Ev
|-----------------|----------------------------|----------------------------|
| Cli) MaNxJ WM   | PF p BF chF 400-123009S    | PreparatVon: 1631Ev
| il u/io.        | 1.00                       | InjFume. ID) HYv
| . lyzUlb        | 12/21/2010 1111.           | LRB . ii) ID) 122110b PF N.
| PF p2 db        | 12/20/2010 1445C            | ini) WMghfVolume: 40 mL R

| MS (LRB S) mpl ID | lysis BF chF 400-123101. | InjFume. ID) HYv
|-----------------|----------------------------|----------------------------|
| Cli) MaNxJ WM   | PF p BF chF 400-123009S    | LRB . ii) ID) 122110b PF N.
| il u/io.        | 1.00                       | ini) WMghfVolume: 40 mL R
| . lyzUlb        | 12/21/2010 1119S           | in) WMghfVolume: 40 mL R
| PF p2 db        | 12/20/2010 1445C            |

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<th>lyS</th>
<th>% c.)</th>
<th>MS</th>
<th>MSD</th>
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D T R PORT N M LI Fa RSh
<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>DATE</th>
<th>TIME</th>
<th>SAMPLE IDENTIFICATION</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
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</table>

**Requested Analysis**: 27657

**Possible Hazards**: Normal

**TAT Requested**: Rush Needs Lab Preapproval, Normal - 10 Business Days

**Sample Disposal**: Return to Client, Disposal by Lab

**Sample Description**: Effluent

**Preservative**: Mercury (Hg)

**Matrix**: Liquid

**No. of Coolers per Shipment**: 1

**Special Instructions/Conditions of Receipt**: None

**Relinquished By**: (Signature)

**Received By**: (Signature)

**Laboratory Use Only**: Sample 186019

**Remarks**: 0.0
### Questions

<table>
<thead>
<tr>
<th>Question</th>
<th>/F</th>
<th>NAc</th>
<th>Comment</th>
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<tbody>
<tr>
<td>Radioactivity was not measured or, if measured, is below background.</td>
<td>N/A</td>
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<tr>
<td>hbrooler is custody s/ al, if p/ slnt, is intact.</td>
<td>usS</td>
<td></td>
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<tr>
<td>hbrooler or sample do not app/ ro hard been com/ p omis/ d or S</td>
<td>usS</td>
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<tr>
<td>amp/ d with S</td>
<td>usS</td>
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<td>ample/or receive vS on ice.</td>
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<td>Cooler S m p/ 0°C</td>
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<td>COC is filled out in ink and legible.</td>
<td>usS</td>
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<td>COC is filled out with all p/ int in form.</td>
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<td></td>
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<tr>
<td>Is the Field Sampler's name p/ slnt on C OC?</td>
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<tr>
<td>hbaF no discrepancies between sample IDs on container and S</td>
<td>usS</td>
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<tr>
<td>hbrooler receive S/ in Holding S/ m.</td>
<td>usS</td>
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<tr>
<td>ample/container/ s/ holdable labels.</td>
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<td>App op iaF/ sample container/ S/ u/ sl d.</td>
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<td>ample P/ sl vaffon Verif/ c.</td>
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<td>hbaF/ s sufficient vol. for all requeF/ d analysis, incl. any requeF/ d S</td>
<td>usS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MN MSDs/</td>
<td></td>
<td></td>
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<tr>
<td>VOA sample vials do not have space or bubble is &lt;6mm (N4&quot;) in S</td>
<td>usS</td>
<td></td>
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</tr>
<tr>
<td>diameter.</td>
<td></td>
<td></td>
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<tr>
<td>If necessary, staff have been in formed/ of any short hold time or quick SAS S needs.</td>
<td>usS</td>
<td></td>
<td></td>
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<tr>
<td>Multiphasic sample/ S/ 0°C</td>
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<td>ample do not require splitting or compositing.</td>
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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.

ceipt
All samples were received in good condition and within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.
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TML. V = TMstAmerica. avannahF

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## 60B Volatile Organic Compounds (GC/MS)

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### Analytical Data

**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-61778-1A

---

**Client Sample ID:** MW-2 (09302010)d

**Lab Sample ID:** 680-61778-2b

**Client Ma. ix:** Wa.

**Da. Sample:** 09/30/2010 1115A

**Da. Receive:** 10/01/2010 0941A

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#### 60B Volatile Organic Compounds (GC/MS)d

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#### Surrogate

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*TestAmerica Savannah*
### 60B Volatile Organic Compounds (GC/MS)

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### 60B Volatile Organic Compounds (GC/MS)

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**Notes:**
- Method: 8260B
- Analysis Batch: 680-182149J
- Instrument ID: MSP
- Lab File ID: p0755
- Initial WS h: 5 mL
- Final WS h: 5 mL
### Analytical Data

**Client Sample ID:** d<br>**Lab Sample ID:** d<br>**Client Ma. ix:** d<br>**Da. Sample:** d<br>**Da. Receivd:** d

**60B Volatile Organic Compounds (GC/MS)**

<table>
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<th>Compound</th>
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<th>RLJ</th>
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**TestAmerica Savannah**

Page 12 of 48
### 60B Volatile Organic Compounds (GC/MS)

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Job Number: 680-61778-1A

Client Sample ID: d  MW-38 (09302010)d
Lab Sample ID:A 680-61778-5A
Client Ma. ix:A Wa.

Da. Sampled: 09/30/2010 1330A
Da. Received: 10/01/2010 0941A

60B Volatile Organic Compounds (GC/MS)d

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TestAmerica Savannahd  Page 14 of 48
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### 60B Volatile Organic Compounds (GC/MS)

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### Surrogates

- 4-Bromofluorobenzene: 95A, 75 - 120A
- Dibromofluoromethane: 87A, 75 - 121A
- Toluene-d8 (Surr): 96A, 75 - 120A
**Analytical Data**

Client: ARCADIS U.S., Inc. A  
Job Number: 680-61778-1A

---

**Client Sample ID:d**  
**Lab Sample ID: A**  
**Client Ma. ix:A**  

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### 60B Volatile Organic Compounds (GC/MS)d

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  - 8260B

- **P. pa.a.ion:A**  
  - 5030BA

- **Dilution:A**  
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### Analytical Data

**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-61778-1A

**Sample Information:**
- **Client Sample ID:**
- **Trip Blank:**
- **Lab Sample ID:** 680-61778-7A
- **Client:**
- **Ma. i.x.:** Wa.
- **Date:** 09/30/2010 0000A
- **Received:** 10/01/2010 0941A

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- **Qualifier:**
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  - DibromofluoromethaneA: 88A, 75 - 121A
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**Analytical Data**

**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-61778-1A

**Client Sample ID:** MW-1 (09302010d)

**Lab Sample ID:** 680-61778-1A

**Client Ma. ix:** Wa.

**Da. Sampled:** 09/30/2010 1230A

**Da. Received:** 10/01/2010 0941A

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**TestAmerica Savannah**

**Page 20 of 48**
### 6010C Metals (ICP)-Total Recovered

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**Client:** ARCADIS U.S., Inc.A

**Job Number:** 680-61778-1A
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**Analytical Datad**

Client: ARCADIS U.S., Inc.A  
Job Number: 680-61778-1A

**Client Sample ID:** MW-3 (09302010)d  
**Lab Sample ID:** 680-61778-34  
**Client Ma. ix:** Wa.

**Da. Sampled:** 09/29/2010 1645A  
**Da. Receivcd:** 10/01/2010 0941A

**6010C Metals (ICP)-Total Recovered**

- **Sample Ba:** 680-183127A
- **Lab File ID:** 1015101039.ch
- **Initial Wt:** 50 mLJ
- **Final Wt:** 50 mLJ

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**7470A Mercury (CVAA)**

- **Sample Ba:** 680-182280A
- **Lab File ID:** b100710a.ch
- **Initial Wt:** 50 mLJ
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| Dilution:A | 1.0A | Initial WSmh /Volume:A | 50 | mLJ |
| Da. Analyze:A | 10/07/2010 1312b | Final WSmh /Volume:A | 50 | mLJ |

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### General Chemistry

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<th>ResultA</th>
<th>QualA</th>
<th>UnitsA</th>
<th>RLJ</th>
<th>DilA</th>
<th>MNhodF</th>
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<td>100A</td>
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<td>9038</td>
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*Analysis Batch: 680-182274U*  
*Date Analyzed: 10/07/2010*  
*Date Received: 10/01/2010*  
*Date Sampled: 09/30/2010*  
*Date Received: 10/01/2010*
### General Chemistry

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<th>RLJ</th>
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Analysis by: 680-182274U  Date: 10/07/2010 1222b
**Analytical Data**

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**General Chemistry**

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Client: ARCADIS U.S., Inc.A

Job Number: 680-61778-1A

Sample ID: MW-3 (09302010)d

Lab Sample ID: 680-61778-34

Client: WA.

Sample Date: 09/29/2010 1645A

Received Date: 10/01/2010 0941

Analysis Batch: 680-182274U

Analysis Date: 10/07/2010 1131A
# General Chemistry

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Analysis Batch: 680-182274U  
Date Analyzed: 10/07/2010 1105A
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### General Chemistry

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**Analysis**: 680-182274U

**Date Analyzed**: 10/07/2010

**Sample**: 680-61778-6A

**Client**: ARCADIS U.S., Inc.A

**Client Sample ID**: MW-39 (09302010)d

**Lab Sample ID**: 680-61778-6A

**Client Mailing Address**: Wa.

**Sample Date**: 09/30/2010

**Received Date**: 10/01/2010

**Job Number**: 680-61778-1A
### Lab Section | u alifierM | Description
--- | --- | ---
GC/MS VON | UA | Indicates the analyte was analyzed for but not detected.
| ET | Exceeded calibration range.
MetalsT | UT | Indicates the analyte was analyzed for but not detected.
| 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.
General ChemistryT | UT | Indicates the analyte was analyzed for but not detected.
### Method Blank - Batch: 680-182149l

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<td>10/06/2010 1329.</td>
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<td>at T, pa T, d T</td>
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| n alyz Batch. | 680-1) 2149. |

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### Method: 8260Bv

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<td>Final WFight/Volume.: 5 mL</td>
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<th>cT</th>
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**LabControlSample\U**  
**LabControlSample\UUpdate\Recovery Report**  
**Batch: 680-182149**

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<th>680-1) 2149.</th>
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<th>MSP</th>
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<th>Preparat\bn: 8030Bv</th>
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<td>P</td>
<td>p Batch. N/T</td>
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<td>p Batch. N/T</td>
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### Analyte

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### Method Blank - Batch: 680-182239I

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Method Blank - Batch: 680-182239I

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at T nalyT 10/07/2010 1153F
at T paT dF 10/07/2010 1153F
hydratc Batch. 680-1) 2239.

nalyT sultT QualT LF
NaphthaleneF 5.0. UT 5.0.
 n-ButylbenzeneF 1.0. UT 1.0.
 N-PentylbenzeneF 1.0. UT 1.0.
 o-XyleneF 1.0. UT 1.0.
p-IsopropyltolueneF 1.0. UT 1.0.
sy-ButylbenzeneF 1.0. UT 1.0.
StyreneF 1.0. UT 1.0.
TolueneF 1.0. UT 1.0.
Toluenes, 1,2,3-i chloroetheneF
Toluenes, 1,2,3-i chloropropeneF 1.0. UT 1.0.
1,2,4-TetrachlorobenzeneF 1.0. UT 1.0.
1,2,3-TetrachlorobenzeneF 1.0. UT 1.0.
1,1,1-TetrachloroethaneF 1.0. UT 1.0.
1,1,2-TetrachloroethaneF 1.0. UT 1.0.
TetrachloroethyleneF 1.0. UT 1.0.
TetrachloroethyleneF 1.0. UT 1.0.
TetrachlorofluoromethaneF 1.0. UT 1.0.
1,2,3-TetrachloropropeneF 1.0. UT 1.0.
1,2,4-TetrachlorobenzeneF 1.0. UT 1.0.
1,3,5-TetrachlorobenzeneF 1.0. UT 1.0.
Vinyl acetateF 2.0. UT 2.0.
Vinyl chlorideF 1.0. UT 1.0.
Xylenes, TotalF 2.0. UT 2.0.

Surrogates % cT ccTptd cT Limits
4-Bromo-2-fluorobenzeneF 92b 75 - 120.
4-Bromo-2-fluorobenzeneF 90. 75 - 121.
TolueneF (Sum) F 9. 75 - 120.
### Lab Control Sample/P;
**Lab ControlSample\U\Update\Recovery Reportd Batch: 680-182239I**

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### Lab Control Sample/UU

**Lab Control Sample/Update/Recovery Report**

**Batch:** 680-182239

**Method:** 8260Bv

**Preparation:** 8030Bv

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<th>MST</th>
<th>LimitT</th>
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<th>P</th>
<th>LimitT</th>
<th>MS QualT</th>
<th>MST QualT</th>
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<tr>
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<td>109.</td>
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<td>0.</td>
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<td>108.</td>
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<td>103F</td>
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Matrix Spike/U
Matrix Spike\DUplode\Recovery Reportd Batch: 680-1827U9I

<table>
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<th>nalysis Batch. 680-1) 3394.</th>
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<td>WatT</td>
<td>P p Batch. 680-1) 27) 9.</td>
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<th>LimitT</th>
<th>P</th>
<th>P</th>
<th>LimitT</th>
<th>MS QualT</th>
<th>MST QualT</th>
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<td>530.</td>
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### Method Blank - Batch: 680-182103I

| Sample | MB 680-1) 2103/1-.
| Lab SampIT T | ICIFnT MatfT X T | 1.0.
| i lutionF | atT. n alyzFdF | atT P paT dF | 10/07/2010 | 1159.
| 10/06/2010 | 1220. |
| nalyT | sulT | QualT | LF |
| 680-1) 220I. | | | |
| nalyT | sulT | QualT | LF |
| 0.20. | UT | 0.20. |

### Lab Control Sample V Batch: 680-182103I

| Sample | LCS 680-1) 2103/2-.
| Lab SampIT T | ICIFnT MatfT X T | 1.0.
| i lutionF | atT. n alyzFdF | atT P paT dF | 10/07/2010 | 1201.
| 10/06/2010 | 1220. |
| nalyT | SpikT. mountT | sulT | % . c. | LimitT | QualT |
| 2.50. | 2.39. | 9. | 0 - 120. |

### Matrix Spoke /U

#### Matrix Spoke V Update Recovery Reportd Batch: 680-182103I

| Sample | MS Lab SampIT T IT | ICIFnT MatfT X T | 1.0.
| Lab SampIT T | i lutionF | atT. n alyzFdF | atT P paT dF | 10/07/2010 | 1315T |
| 10/06/2010 | 1220. |
| nalyT | sulT | % . c. | LimitT | P | P | LimitT | MS QualT | MST QualT |
| 680-1) 220I. | 680-1) 2103F | 0.20. | 93F | 95T | 0 - 120. | 3F | 20. |

---

**QualdCon trolDReV ltd**

Job Number: 680-6177-1)
### Method Blank - Batch: 680-182274P

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<td>CilFnt MatTxT</td>
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### Lab Control Sample V Batch: 680-182274P

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<td>Spik T. mount T</td>
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<td>sal T</td>
<td>20.0.</td>
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<td>% c. Limit T</td>
<td>94. 75 - 125T</td>
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### Method: 90386

- Preparatbn: N/AU
- Instrument IT KONELAB1)
- Lab Fill IT KONE11007101SO4B.xlsb
- Initial W/Volume: 2 mL
- Final W/Volume: 2 mL

### Method: 90386

- Preparatbn: N/AU
- Instrument IT KONELAB1)
- Lab Fill IT KONE11007101SO4B.xlsb
- Initial W/Volume: 2 mL
- Final W/Volume: 2 mL
## Analysis Request and Chain of Custody Record

### TestAmerica

**THE LEADER IN ENVIRONMENTAL TESTING**

**TestAmerica Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

**Web site:** www.testamericainc.com
**Phone:** (912) 354-7858
**Fax:** (912) 352-0165

### Project Information

**Project Reference:** UNC-Chapel Hill

**Project No.:** NC0209000-000006

**Client (Site) PM:**

- **Name:** Glen Pinnix
- **Phone:** 919-854-1282
- **Fax:** 919-854-5700

**Client Name:** Arcadis

**Client E-mail:** glen.pinnix@arcadis-us.com

**Client Address:**
801 Corporate Center Dr. *300 Peachtree* NC 27607

**Company Contracting this Work (If Applicable):**

### Required Analysis

- **UOCs:**
- **RAA:**
- **RA:**
- **Sulfate**

### Preservation

**Preservative:**

### Sample Information

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<th>Sample Identification</th>
<th>COMPOSITES (G. D. GRAB &amp; AGW)</th>
<th>AQUEOUS SOLUTIONS</th>
<th>SOILS &amp; SEDIMENTOLOGY</th>
<th>NORMATIVE</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
<th>REMARKS</th>
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<td>9-29-10</td>
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**Trip Blank**

**Temp Blank**

### Other Information

- **Received By (Signature):**
- **Date:** 9-30-10
- **Time:** 1600

- **Relinquished By (Signature):**
- **Date:** 9-30-10
- **Time:** 1600

- **Received By (Signature):**
- **Date:**
- **Time:**

- **Relinquished By (Signature):**
- **Date:**
- **Time:**

### Laboratory Use Only

- **Received for Laboratory By (Signature):**
  - **Date:** 10/11/2011
  - **Time:** 0945
  - **Custody Intact:** Yes
  - **Custody Seal No.:**
  - **Savannah Log No.:** 1080-10318
  - **Laboratory Remarks:** Temp 1.8
Login Sample Reded    Chedk Listc

Client: ARCADIS U.S., Inc.T

Login Number: c177c    List SourVe: TestAmerVa Sa vannahc
Creator: Daughtey, Bedhc
List Number: 1u

<table>
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<tr>
<th>Question</th>
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<th>Comment</th>
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<tr>
<td>Radi cal acti vity eitTer was not measured or, if measured, is ahor below T</td>
<td>N/AT</td>
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</tr>
<tr>
<td>ackg, un dc</td>
<td></td>
<td></td>
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<tr>
<td>TAe cooler's cts seal, ifp esent, is int!cl.T</td>
<td>TAeT</td>
<td></td>
</tr>
<tr>
<td>TAe cooler or samples dcnor appeahto Tave been comp. m!led or T</td>
<td>TAeT</td>
<td></td>
</tr>
<tr>
<td>ampered wC. T</td>
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<tr>
<td>Samples were rcei ved on ice.T</td>
<td>TAeT</td>
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<tr>
<td>Cooler Temp !ature is accep alle.T</td>
<td>TAeT</td>
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<tr>
<td>Cooler Temp !ature is recordd.T</td>
<td>TAeT</td>
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<tr>
<td>COC if p esent.T</td>
<td>TAeT</td>
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<tr>
<td>COC if fglde out in ink and leg. le.T</td>
<td>TAeT</td>
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<tr>
<td>COC if fglde out wC all pertinent infgmn ah n.T</td>
<td>TAeT</td>
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<tr>
<td>Is TTe F.eid Sampler's name p esent on COC?N</td>
<td>FalseT</td>
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<tr>
<td>TAere are no daccrepancies between TTe sample IDs on TTe cont!nens and T</td>
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<td>e COC.T</td>
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<td>Samples are rcei ved wC n H!ding TAe.T</td>
<td>TAeT</td>
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<tr>
<td>Sample cont!nens Tave leg. le l abel s.T</td>
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<tr>
<td>Cont!nens are not bro!ken or leakng.T</td>
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<tr>
<td>Sample collection date/Fmes are p v!led.T</td>
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<td>App p are sample cont!nens are used.T</td>
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<td>Sample bottles are completely fglde.T</td>
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<tr>
<td>Sample PAservah n Verf!pc</td>
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<tr>
<td>TAere is sufifent vC fgl all requestd analyses, incl. any requestd T</td>
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<tr>
<td>MS/MSDdT</td>
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<tr>
<td>VOA sample v!ls dcnor T ave Teadspace or bubble if &lt;6mm (1/4&quot;) in T</td>
<td>TAeT</td>
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<tr>
<td>d!meter.T</td>
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<td>If necessaty, s!ff Tave been infgme d off any sT T d time or quick TAT T</td>
<td>TAeT</td>
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<td>needsT</td>
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<td>Multif as T samples are not p esent.T</td>
<td>N/AT</td>
<td></td>
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<tr>
<td>Samples dcnor re quire splitting or comp sT m.T</td>
<td>N/AT</td>
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</table>
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: LA000244; 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 additional comments.

pDU
All samples were received in good condition and within temperature requirements.

GC/MS VOA U
No analytical or quality issues were noted.

MMb Is U
No analytical or quality issues were noted.

GM:ra ChdmiUry U
No analytical or quality issues were noted.

VOA Pre# U
No analytical or quality issues were noted.
### METHOD SUMMARY:

**Matrix:** Water

<table>
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<th>Description</th>
<th>Lab Location</th>
<th>Method:</th>
<th>Preparation Method:</th>
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<tr>
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<td>T2L SAV/2</td>
<td>SW/M 820 B2</td>
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<td>Purg 2 aTD T 2pLK</td>
<td>T2L SAV/2</td>
<td>SW/M 5030B2</td>
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<tr>
<td>M2 als (ICP)</td>
<td>T2L SAV/2</td>
<td>SW/M 010C</td>
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<td>PR patTo.. To.al.. covN abl or i ssolvNd M2 als2</td>
<td>T2L SAV/2</td>
<td>SW/M 3005M</td>
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<tr>
<td>M2 cury (CV2)</td>
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<td>SW/M 7470.</td>
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<td>SW/M 903T</td>
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### Lab References:

T2L SAV = T2s2 merica SavaT ah.

### Method References:

SW/M 820 M = "T2s2M2 hods For Evaluating Solid Was2, Physical/Chemical M2 hods", Thijd Editio., November 19. 

TestAmerica Savannah:
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<th>Analyst ID</th>
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<td>6010CT</td>
<td>BlTnd, B4 nT</td>
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<td>W846</td>
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# Analytical Data

**Client Sample ID:** MW-1d  
**Lab Sample ID:** 680-61853-1b  
**Matrix:** Water  
**Date Sampled:** 10/04/2010 1338b  
**Date Received:** 10/05/2010 0938b

## 8260B Volatile Organic Compounds (GC/MS)T

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<td>Benzeneb</td>
<td>910b</td>
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*estAmerica SavannahT*  
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**Client Sample ID:** MW-2T  
**Lab Sample ID:** 680-61853-2b  
**Matrix:** Water  
**Date Sampled:** 10/04/2010 1415b  
**Date Received:** 10/05/2010 0938b

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### Analytical Data

**Client Sample ID:** MW-3T  
**Lab Sample ID:** 680-61853-3b  
**Matrix:** Water  
**Date Sampled:** 10/04/2010 1300b  
**Date Received:** 10/05/2010 0938b

#### 8260B Volatile Organic Compounds (GC/MS)T

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# 8260B Volatile Organic Compounds (GC/MS)T

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### Analytical Data

**Client Sample ID:** MW-38T  
**Lab Sample ID:** 680-61853-4c  
**Matrix:** Waterb  
**Date Sampled:** 10/04/2010 1600b  
**Date Received:** 10/05/2010 0938b

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Client Matrix: | Water
Date Sampled: | 10/04/2010 1200b
Date Received: | 10/05/2010 0938b

### 8260B Volatile Organic Compounds (GC/MS) T

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## 8260B Volatile Organic Compounds (GC/MS)T

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**8260B Volatile Organic Compounds (GC/MS)**

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Lab Sample ID:b 680-61853-7b
Matrix: Waterb
Date Sampled: 10/04/2010 0000b
Date Received: 10/05/2010 0938b

8260B Volatile Organic Compounds (GC/MS)T

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### 7470A Mercury (CVAA)

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### 7470A Mercury (CVAA)

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Lab Sample ID:b  680-61853-6b
Matric:b  Water

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Analysis Batch: 680-183035b  
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Analysis Batch: 680-183035b  Date Analyzed: 10/14/2010 1708
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### Method: 8260Bv

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**Surrogab**

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**LabID: LuluConrouSVMpe/I**

**Lab ID: LuluConrouSVMpe/UPucv eRcovery Reporu- Bv ch: 680-1822u9l**

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**Method: 8260Bv**

**Prepuri on: 8060Bv**

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| 1.1.-ic hlorop2p2 | 104c | 103T | 77 - 122b | 1) | 30.  
| Efhyb, zU        | 9c   | 9c   | - 11) 0  | 30. |
| Hbxchlororbu.adij | 101) | 101) | 2 - 142b | 1) | 30. |
| 2-Hbxabo.        | 95M  | 94c  | 34 - 11) 1 | 30. |
| Isop2pylbe. zU   | 100. | 99c  | 2 - 121) 1 | 30. |
| Mhnylel Chlorid  | 95M  | 92b  | 70 - 125M 4c | 30. |
| 4-Mhnylel-2-p2 abo. (MBK)N | 95M | 9c   | 40 - 151) 3T | 30. |
| Mhnylel -bu.yl e.h. | 94c | 93T  | 77 - 121) 2b | 30. |
| m-Xyl & p-Xyl     | 97b  | 9c   | 3 - 11) 1) | 30. |
| Naph.alal        | 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-Iso2pylblue.   | 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 achirole.hab | 91) | 93T  | 9 - 129c 2b | 30. |
| 1,1,1,2-Tb achirole.hab | 106. | 107b | 1 - 12b 1) | 30. |
| Tb achirole.h.   | 91) | 92b  | 7b - 12b 1) | 30. |
| Tolue.           | 99c  | 101) | 1 - 117b 1) | 30. |
| abs-1,2,-ic hlorole.h. | 9c   | 9c   | 72 - 131) 1 | 30. |
| abs-1,3,-ic hlorop2p2 | 107b | 106. | 73 - 12b 1) | 30. |
| 1,2,4-Tbchloro. zU | 93T | 95M  | 0 - 135M 2b | 30. |
| 1,2,3-Tbchloro. zU | 92b | 9c   | 0 - 132b 4c | 30. |
| 1,1,1-Tbchloro.hab | 107b | 108. | 7b - 127b 1) | 30. |
| 1,1,2-Tbchloro.hab | 9c  | 9c   | 75 - 121) 0. | 30. |
| Tbcchloro.h.     | 9c   | 97b  | 4 - 115M 2b | 30. |
| Tbcchlorofluorome.hab | 117b | 117b | 5M 149c 0. | 50. |
| 1,2,3-Tbchlorop2pab | 91) | 9c   | 70 - 130. 2b | 30. |
| 1,2,4-Tbme.hylbe. zU | 103T | 106. | 72 - 132b 2b | 30. |
| 1,3,5-Tbme.hylbe. zU | 9c  | 9c   | 72 - 133T 2b | 30. |
| Vinyl ac) ab | 108. | 104c | 10 - 217b 4c | 30. |
### Quality Control Report

**Method**: 8260Bv  
**Preparation**: 8060Bv

**Lab**: ConrouStream

**Sample ID**: LCS 680-1-2239c

**Batch**: 680-1-2239c

**Sample ID**: LCS 680-1-3201c

**Batch**: 680-1-3201c

#### Table 1: Analytical Data

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<td>Initial WMgh./Volume.: 5 mL</td>
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<td>ab P pab d</td>
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<td>Final WMgh./Volume.: 5 mL</td>
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<th>Instrume. ID) MSP</th>
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<th>% c) LCSD)</th>
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**Method: 8260Bv**

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\[ \text{Job Number: 680-61) 53-1} \]

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**MeVod: 8260Bv**

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Quy ConrouReV
## QUy ConrouReV

**Method:** 8260Bv  
**Preparation:** 8060Bv

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**MeVhid: 8260Bv**
Prepurr on: 8060Bv

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<td>95M</td>
<td>1 - 117b</td>
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<tr>
<td>abs-1,2-ic hloroe.h.</td>
<td>97b</td>
<td>100.</td>
<td>72 - 131)</td>
<td>3T</td>
<td>30.</td>
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<tr>
<td>abs-1,3-ic hlorop2p2</td>
<td>103T</td>
<td>104c</td>
<td>73 - 12b</td>
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<td>90.</td>
<td>92b</td>
<td>0 - 135M</td>
<td>2b</td>
<td>30.</td>
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<tr>
<td>1,2,3-Thchlorebe. ZU</td>
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<td>92b</td>
<td>0 - 132b</td>
<td>2b</td>
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<td>75 - 121)</td>
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<td>101)</td>
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<td>101)</td>
<td>5M 149c</td>
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<tr>
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<td>93T</td>
<td>95M</td>
<td>72 - 132b</td>
<td>2b</td>
<td>30.</td>
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<td></td>
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<tr>
<td>1,3,5-Tbme. ylb. ZU</td>
<td>93T</td>
<td>95M</td>
<td>72 - 133T</td>
<td>2b</td>
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<td>Vinyl ac) ab</td>
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<td>108.</td>
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### LC Sample ID: 680-1 2508/20

<table>
<thead>
<tr>
<th>Client</th>
<th>Lab Sample ID</th>
<th>Lab</th>
<th>Wab</th>
<th>P</th>
<th>Batch</th>
<th>ID</th>
<th>ug/LR</th>
<th>Initial Volume</th>
<th>Final Volume</th>
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<tr>
<td>451</td>
<td>LCS 680-1 2508/20</td>
<td>680-1</td>
<td>2508.</td>
<td>1.0</td>
<td>ab_P_pab_d</td>
<td>10/08/2010 1000.</td>
<td>10/08/2010 1000.</td>
<td>5 mL</td>
<td>5 mL</td>
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### LCSD Sample ID: 680-1 2508/21

<table>
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<th>Wab</th>
<th>P</th>
<th>Batch</th>
<th>ID</th>
<th>ug/LR</th>
<th>Initial Volume</th>
<th>Final Volume</th>
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<tr>
<td>452</td>
<td>LCSD 680-1 2508/21</td>
<td>680-1</td>
<td>2508.</td>
<td>1.0</td>
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<td>10/08/2010 1029c</td>
<td>5 mL</td>
<td>5 mL</td>
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### Analyses

<table>
<thead>
<tr>
<th>Substance</th>
<th>LCS</th>
<th>LCSD</th>
<th>Limit</th>
<th>P</th>
<th>P Limit</th>
<th>LCS Qual</th>
<th>LCSD Qual</th>
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<tbody>
<tr>
<td>Vinyl chloride</td>
<td>99c</td>
<td>101</td>
<td>59 - 144c</td>
<td>2b</td>
<td>50</td>
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<tr>
<td>Xylenes</td>
<td>95M</td>
<td>9c</td>
<td>4 - 11</td>
<td>2b</td>
<td>30</td>
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### Surrogates

<table>
<thead>
<tr>
<th>Substance</th>
<th>LCS</th>
<th>LCSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Bromo-5-fluorobenzene (zU)</td>
<td>93T</td>
<td>94c</td>
</tr>
<tr>
<td>i Bromo-5-fluorobenzene (hab)</td>
<td>9c</td>
<td>97b</td>
</tr>
<tr>
<td>Toluene (SurrN)</td>
<td>95M</td>
<td>95M</td>
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<table>
<thead>
<tr>
<th>Substance</th>
<th>LCS</th>
<th>LCSD</th>
</tr>
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<tr>
<td>4-Bromo-5-fluorobenzene (zU)</td>
<td>93T</td>
<td>94c</td>
</tr>
<tr>
<td>i Bromo-5-fluorobenzene (hab)</td>
<td>9c</td>
<td>97b</td>
</tr>
<tr>
<td>Toluene (SurrN)</td>
<td>95M</td>
<td>95M</td>
</tr>
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### MeVhod Bv nk - Bv ch: 680-182769l

<table>
<thead>
<tr>
<th>Lab SampI) ID</th>
<th>MB 680-1) 27b9/14-</th>
<th>alysis Batch. 680-1) 3127b</th>
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</thead>
<tbody>
<tr>
<td>Cli) MabixJ</td>
<td>Wab</td>
<td>P p Batch. 680-1) 27b9c</td>
</tr>
<tr>
<td>il u.i.o.</td>
<td>1.0</td>
<td>Unit# ug/LR</td>
</tr>
<tr>
<td>ab. alyzUd</td>
<td>10/15/2010 213T</td>
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</tr>
<tr>
<td>ab P pab d</td>
<td>10/13/2010 0953T</td>
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<table>
<thead>
<tr>
<th>alyS</th>
<th>sult()</th>
<th>QualR()</th>
<th>LR</th>
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<tbody>
<tr>
<td>Babium.</td>
<td>10.</td>
<td>U)</td>
<td>10.</td>
</tr>
<tr>
<td>Cadmium.</td>
<td>5.0</td>
<td>U)</td>
<td>5.0</td>
</tr>
<tr>
<td>Ch.onium.</td>
<td>10.</td>
<td>U)</td>
<td>10.</td>
</tr>
<tr>
<td>lJo.</td>
<td>50.</td>
<td>U)</td>
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<tr>
<td>Sodium.</td>
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### LUBlConrouSVMpeV Bv ch: 680-182769l

<table>
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<tr>
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<th>LCS 680-1) 27b9/15-</th>
<th>alysis Batch. 680-1) 3127b</th>
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<tr>
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<table>
<thead>
<tr>
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<th>sult()</th>
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<th>Limit()</th>
<th>Qual()</th>
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<tr>
<td>sb ic)</td>
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<td>2030.</td>
<td>101)</td>
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<tr>
<td>Babium.</td>
<td>2000.</td>
<td>2010.</td>
<td>101)</td>
<td>75 - 125M</td>
<td></td>
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<td>50.4c</td>
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<td>Ch.onium.</td>
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<td>99c</td>
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<td>lJo.</td>
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<td>1010.</td>
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### MeVnod Bv nk - Bv ch: 680-182u42u

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<th>Lab Sample ID</th>
<th>MB 680-1) 2342/1-</th>
<th>alysis Batch. 680-1) 2b41</th>
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<td>Cil</td>
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<tr>
<td>ab. alyzUd</td>
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<td>ab P pab d</td>
<td>10/08/2010 1022b</td>
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<tr>
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### MeVnod: b470AV

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### LUbLConrouSVMpeV Bv ch: 680-182u42u

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<tr>
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<th>% . c.)</th>
<th>Limit()</th>
<th>Qual()</th>
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<tr>
<td>MN curyS</td>
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<td>2.17b</td>
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### Bv measurement

**Me hod Bv nk - Bv ch: 680-186065l**

<table>
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<tr>
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<th>alysis Batch. 680-1) 3035M</th>
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<tbody>
<tr>
<td>Cll</td>
<td>MabixJ Wab</td>
<td>P p Batch. N/F</td>
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<tr>
<td>il u.i.o.</td>
<td>1.0.</td>
<td>Unitlb mg/LR</td>
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<tr>
<td>ab. alyz Ud</td>
<td>10/14/2010 173T</td>
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<td>a e P pa d</td>
<td>N/F</td>
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<th>LR</th>
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<tr>
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**Me hod: 90686**

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<tr>
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<td>Unitlb mg/LR</td>
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<th>Qual()</th>
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## Chain of Custody Record

### Client Contact
- **Project Manager:** Alan Pinnix
- **Tel/Fax:** 919-854-1282

### Site Contact
- **Lab Contact:** Kathy Smith

### Analysis Turnaround Time
- **Calendar (C) or Work Days (W):**
  - 2 weeks
  - 1 week
  - 2 days
  - 1 day

### Sample Identification

<table>
<thead>
<tr>
<th>Sample</th>
<th>Date</th>
<th>Time</th>
<th>Type</th>
<th>Matrix</th>
<th>No. of</th>
<th>VOC</th>
<th>Metals</th>
<th>TSP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-1</td>
<td>10/4/10</td>
<td>1300</td>
<td>GW</td>
<td>GW</td>
<td>5</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>MW-2</td>
<td>10/4/10</td>
<td>1415</td>
<td>GW</td>
<td>GW</td>
<td>5</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>MW-3</td>
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<td>GW</td>
<td>GW</td>
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<td>X</td>
<td>X</td>
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<td>MW-38</td>
<td>10/4/10</td>
<td>1600</td>
<td>GW</td>
<td>GW</td>
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<td>GW</td>
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<td>X</td>
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</table>

### Special Instructions/QC Requirements & Comments:
- **Temperature:** 680 - 61853
- **Sample Disposal:** A fee may be assessed if samples are retained longer than 1 month
- **Sample Disposal Options:**
  - Return to Client
  - Disposal By Lab
  - Archive For

### 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

### Remarks:
- Trip Blank 2 Vials only

### Date/Time:
- **10/4/10**
<table>
<thead>
<tr>
<th>Question</th>
<th>/F/</th>
<th>NA/</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either was not measured or, if measured, is at or below background</td>
<td>N/A</td>
<td>Ab</td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal is present, is intact.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The cooler or sample es do not appear to have been compromised or tampered with.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The amp es were received on ice.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The cooler temperature is acceptable.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The cooler is recorded.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>Ocibus present.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>Ocibus filed out in ink and legible.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>Ocibus filed out with pertinent information.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>Is the Field Stamp er's name present on CDC?</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and the CDC.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The amp es are received without holding on me.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The amp es containers have legible labels.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The athers are not broken or leaking.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The amp es collection dates times are provided.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The amp es bottles are complete and filed.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The amp es preservation verified.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested by the CDC.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>The VOA sample es vs are do not have headspace or bubbling, i.e., &lt;6mm (1/4&quot;) in diameter.</td>
<td></td>
<td></td>
<td>rueb</td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick ball needs.</td>
<td></td>
<td></td>
<td>rueb</td>
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<tr>
<td>Multiphasic sample es are not present.</td>
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<td>The amp es do not require spacing or composting.</td>
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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

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.


TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com
Comments
No additional comments.

ceipt U
All samples were received in good condition within temperature requirements.

GC/MS VOA U
Method: 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.

No other analytical or quality issues were noted.

Metals U
No analytical or quality issues were noted.

General Chemistry U
No analytical or quality issues were noted.

VOA Prep U
No analytical or quality issues were noted.
**METHOD SUMMARY:**

CiFntT, CADF IS U.S., Inc.  
Job Number: 680-6202M1F

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**Lab References:**

TAL SAV = T, stAmerica Savannah,

**Method References:**

SM = "Stand,a,d M, thods For Th, Examinatio. Of Wat, And Wast, wat,".  
Updat, s.,

TestAmerica Savannah:
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**8260B Volatile Organic Compounds (GC/MS)**

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<th>QualifierM</th>
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8260B Volatile Organic Compounds (GC/MS)

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### 8260B Volatile Organic Compounds (GC/MS)

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### Analytical Data

**Client:** ARCADIS U.S., Inc.  
**Job Number:** 680-62026-1M

**Client Sample ID:** MW-3T  
**Lab Sample ID:** 680-62026-3M  
**Received:** 10/09/2010 1006M  
**Sampled:** 10/08/2010 1550M

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**8260B Volatile Organic Compounds (GC/MS)**

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**Analytical Data**

**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-62026-1M

**Client Sample ID:** MW-3T

**Lab Sample ID:** 680-62026-3M

**Client Matrix:** Ground Water

**Received:** 10/09/2010 1006M

**Sampled:** 10/08/2010 1550M

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**8260B Volatile Organic Compounds (GC/MS)**

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**Surrogate**

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| BromofluoromethaneM     | 93M           | 75 - 121M |
| Toluene-d8 (Surr)       | 114M          | 75 - 120M |
**8260B Volatile Organic Compounds (GC/MS)**

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<th>Result (ug/L)</th>
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### 7470A Mercury (CVAA)

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## 7470A Mercury (CVAA)

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**7470A Mercury (CVAA)**

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## 6010C Metals (ICP)

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## 7470A Mercury (CVAA)

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**6010C Metals (ICP)**

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**7470A Mercury (CVAA)**

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**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-62026-1M

**Sampled:** 10/08/2010 1500M

**Received:** 10/09/2010 1006M
# General Chemistry

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Analysis Batch: 680-183526M Analyzed: 10/20/2010 1239
## General Chemistry

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**Received:** 10/09/2010 1006M

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**Analysis Batch:** 680-183526M  
**Analyzed:** 10/20/2010 1239
### General Chemistry

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Analysis Batch: 680-183526M
Analyzed: 10/20/2010 1239
### General Chemistry

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Analysis Batch: 680-183526M  Analyzed: 10/20/2010 1231
### General Chemistry

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Analysis Batch: 680-183526M
Analyzed: 10/20/2010 1231
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**Method Bv nk - Bv ch: 880-183T9**

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**Surrog t, %, Acc, pt, Limits.**

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Luby ConrousVmpqev
Luby ConrousVmpqev
Vpucv eRecovery Rerporu - Bv ch: 880-183791

<table>
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Qu y ConrouRev

Job Number: 680-6202M1,

Method: 8660Bv
Preparation: 8030Bv
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### Recovery Report - Bv ch: 880-183T9l

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<td>75 - 120.</td>
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Qu y ConrouReV
**Method Bv**<br><br>**Liv, t, A, A, IS U.S., Inc.**<br><br>**Method: 880-183T451**<br><br>**LFB S, mpl, l, MB 680-1, 3245/9M**<br><br>| Li, t MTT,ixT | W, t, ilution. | 1.0. | t, An, lyzFdM | 10/1, 2010 1212M | t, pF dM | 10/1, 2010 1212M |<br><br>**An, lysis BMchM 680-1, 3245M**<br><br>| p BMchMN/A, | Units.: ug/LF |<br><br>**Method: 8660Bv**<br><br>**Preparation: 8030Bv**<br><br>| Instume, t l, | MSOM |<br><br>**LFB Fil, l, ogq3, 3.dM**<br><br>| Ini., l W, ight/Volume.: | 5 mL |<br><br>| Fin, l W, ight/Volume.: | 5 mL |<br><br>**A, lyt, su It, Qu, l, LF**<br><br>| A, to. | 25M | U | 25M |<br><br>| BM zF | 1.0. | U | 1.0. |<br><br>| BMmobe, zF | 1.0. | U | 1.0. |<br><br>| BMmgo, hloromethM | 1.0. | U | 1.0. |<br><br>| BMmform. | 1.0. | U | 1.0. |<br><br>| BMmomethM | 1.0. | U | 1.0. |<br><br>| 2-But, o, (MEK)l | 10. | U | 10. |<br><br>| bo, disulfidM | 2.0. | U | 2.0. |<br><br>| bo, t, t, hloridM | 1.0. | U | 1.0. |<br><br>| hlorobe, zF | 1.0. | U | 1.0. |<br><br>| hlorodibromomethM | 1.0. | U | 1.0. |<br><br>| hloroethM | 1.0. | U | 1.0. |<br><br>| hlorform. | 1.0. | U | 1.0. |<br><br>| hloromethM | 1.0. | U | 1.0. |<br><br>| 2- hlorotoluue. | 1.0. | U | 1.0. |<br><br>| 4- hlorotoluue. | 1.0. | U | 1.0. |<br><br>| i-s-1.2- hloroethM | 1.0. | U | 1.0. |<br><br>| i-s 1-3- hloropbopF | 1.0. | U | 1.0. |<br><br>| 1.2- hibromo-3- hloropbopF | 1.0. | U | 1.0. |<br><br>| 1.2- hibromothM | 1.0. | U | 1.0. |<br><br>| ibromomethM | 1.0. | U | 1.0. |<br><br>| 1.2- hichloroze, zF | 1.0. | U | 1.0. |<br><br>| 1.2- hichloroze, zF | 1.0. | U | 1.0. |<br><br>| 1.4- hichloroze, zF | 1.0. | U | 1.0. |<br><br>| hichlorobromomethM | 1.0. | U | 1.0. |<br><br>| hichlorodifluoromethM | 1.0. | U | 1.0. |<br><br>| hichloroethM | 1.0. | U | 1.0. |<br><br>| hichloroethM | 1.0. | U | 1.0. |<br><br>| hichloroethM | 1.0. | U | 1.0. |<br><br>| hichloroethM | 1.0. | U | 1.0. |<br><br>| hichloroethM Tot, l, | 2.0. | U | 2.0. |<br><br>| hichloropbopF | 1.0. | U | 1.0. |<br><br>| 2-hloropbopF | 1.0. | U | 1.0. |<br><br>| 1.3- hichloropbopF | 1.0. | U | 1.0. |<br><br>| 1.1- hichloropbopF | 1.0. | U | 1.0. |<br><br>| i, thyl ethM | 10. | U | 10. |<br><br>| Ethylbe, zF | 1.0. | U | 1.0. |<br><br>| Hi xT hlorobut, d i, | 1.0. | U | 1.0. |<br><br>| 2-Hi xT o. | 10. | U | 10. |<br><br>| Isopbopylbe, zF | 1.0. | U | 1.0. |<br><br>| MThyl, hloridM | 5.0. | U | 5.0. |<br><br>| 4-MThyl-2-pF t, o, (MBK)l | 10. | U | 10. |<br><br>| MThyl t, t-butyly ethM | 10. | U | 10. |<br><br>| m-Xyl, & p-Xyl, | 2.0. | U | 2.0. |
Qu y ConrouReV

Method Bv nk - Bv ch: 680-183T451

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Surrog t, %, Acc, pt, Limits.

| 4-BMmofluorobenzene zF         | 101    | 75 - 120 |
| ibromofluoromethM              | 95M    | 75 - 121 |
| Toluene - dM(Surj)             | 110    | 75 - 120 |
**Lucy ConrouReV**

**Lucy ConrouReV**

**Method: 8660Bv**

**Preparation: 8030Bv**

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2-But, o. (MEK)I
bo. disulfidM
bo. t, t, hloridM
hloro. zF
hlorodibromomethM
hloroethM
hloroform.
hloromethM
hlorotolue.
4-. hlorotolue.
i s-1,2-. ichoroethM
i s-1,3-. ichororPbF
1,2-. ibromo-3-. hloropPbF
1,2-. ibromoethM
1,3-. ibromomethM
1,3-. i chloro. zF
1,2-. i chloro. zF
1,4-. i chloro. zF
ichlorobromomethM
ichlorodifluoromethM
i chloroethM
i chlorothetaM
i chlorothetaM
1,2-. ichloroporPbF
2M-. ichloroporPbF
1,3-. ichloroporPbF

**TeV Americo**

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**LubConrouSvmpeV**
**LubConrouSvmpeVpucv eRecovery Reporu- Bv ch: 680-183T45I**

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### Quy ConrouReV

**Lub\ConrouSVmples/V**  
**Lub\ConrouSVmples\vRcovery Report:** Bv ch: 880-183T451  
**Me\hod:** 8660Bv  
Prepuru on: 8030Bv

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<td>t t,</td>
<td>172M</td>
<td>1 9M</td>
<td>10 - 217I</td>
<td>2M</td>
<td>30.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl hloridM</td>
<td>11,</td>
<td>11,</td>
<td>59 - 144I</td>
<td>0.</td>
<td>50.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xyl, es. Tot, l,</td>
<td>105M</td>
<td>108,</td>
<td>4 - 11,</td>
<td>2M</td>
<td>30.</td>
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<table>
<thead>
<tr>
<th>Surrog t,</th>
<th>LFS %</th>
<th>LFS, %</th>
<th>Acc, pt,</th>
<th>Limits,</th>
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<tbody>
<tr>
<td>4-BMmoflourobe. zF</td>
<td>105M</td>
<td>108.</td>
<td>75 - 120.</td>
<td></td>
</tr>
<tr>
<td>ibromofluoromethM</td>
<td>103,</td>
<td>103,</td>
<td>75 - 121.</td>
<td></td>
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<tr>
<td>Tolu. - dM(Surr)</td>
<td>107I</td>
<td>107I</td>
<td>75 - 120.</td>
<td></td>
</tr>
</tbody>
</table>
### Method Bv nk - Bv ch: 680-1865 13T

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFb S, mpl, l</td>
<td>MB 680-1, 2513/1-A</td>
</tr>
<tr>
<td>li, t MTT,ixT</td>
<td>W, t</td>
</tr>
<tr>
<td>ilutio.</td>
<td>1.0</td>
</tr>
<tr>
<td>t, An, lyzFdm</td>
<td>10/12/2010 2131</td>
</tr>
<tr>
<td>t, pF dM</td>
<td>10/11/2010 1141</td>
</tr>
<tr>
<td>An, lysis BMchM 680-1, 2792M</td>
<td>p BMchM 680-1, 2513,</td>
</tr>
<tr>
<td>Units:</td>
<td>ug/LF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>su lt,</th>
<th>Qu. l,</th>
<th>LF</th>
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<tbody>
<tr>
<td>BMium.</td>
<td>50.</td>
<td>U</td>
<td>50.</td>
</tr>
<tr>
<td>d mium.</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
<tr>
<td>hdmium.</td>
<td>10.</td>
<td>U</td>
<td>10.</td>
</tr>
<tr>
<td>l.o.</td>
<td>100.</td>
<td>U</td>
<td>100.</td>
</tr>
<tr>
<td>S, l, i um.</td>
<td>20.</td>
<td>U</td>
<td>20.</td>
</tr>
<tr>
<td>Sodium.</td>
<td>1000.</td>
<td>U</td>
<td>1000.</td>
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### LubCounrouSvmpeV Bv ch: 680-1865 13T

<table>
<thead>
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<th>Item</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>LFb S, mpl, l</td>
<td>MB 680-1, 2513/2-A</td>
</tr>
<tr>
<td>li, t MTT,ixT</td>
<td>W, t</td>
</tr>
<tr>
<td>ilutio.</td>
<td>1.0</td>
</tr>
<tr>
<td>t, An, lyzFdm</td>
<td>10/12/2010 2131</td>
</tr>
<tr>
<td>t, pF dM</td>
<td>10/11/2010 1141</td>
</tr>
<tr>
<td>An, lysis BMchM 680-1, 2792M</td>
<td>p BMchM 680-1, 2513,</td>
</tr>
<tr>
<td>Units:</td>
<td>ug/LF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>Spike Amou.t,</th>
<th>su lt,</th>
<th>%,</th>
<th>Limit,</th>
<th>Qu. l,</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.se,ic</td>
<td>2000.</td>
<td>2000.</td>
<td>100.</td>
<td>75 - 125M</td>
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</tr>
<tr>
<td>BMium.</td>
<td>2000.</td>
<td>2070.</td>
<td>104I</td>
<td>75 - 125M</td>
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<tr>
<td>d mium.</td>
<td>50.0</td>
<td>50.4I</td>
<td>101,</td>
<td>75 - 125M</td>
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</tr>
<tr>
<td>hdmium.</td>
<td>200.</td>
<td>204I</td>
<td>102M</td>
<td>75 - 125M</td>
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<tr>
<td>l.o.</td>
<td>1000.</td>
<td>9M</td>
<td>99M</td>
<td>75 - 125M</td>
<td></td>
</tr>
<tr>
<td>LF dM</td>
<td>500.</td>
<td>510.</td>
<td>102M</td>
<td>75 - 125M</td>
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<tr>
<td>S, l, i um.</td>
<td>2000.</td>
<td>2050.</td>
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<td>75 - 125M</td>
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<tr>
<td>Silv</td>
<td>50.0</td>
<td>41.5M</td>
<td>97I</td>
<td>75 - 125M</td>
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<tr>
<td>Sodium.</td>
<td>5000.</td>
<td>41.20.</td>
<td>9M</td>
<td>75 - 125M</td>
<td></td>
</tr>
</tbody>
</table>
### **Mv ria Spuke/V**

**Mv ria Spuke/V Recovery Repor- By ch: 680-1865 13T**

| MS LfB S, mpl, i, | 0-6. 202M1, | An, lysis BMchM 680-1, 2792M | **Method: 8010Cu**
| - | - | - | 1.0, IC,
| li, t MTT,ixT | W, t, | p BMchM 680-1, 2513, | LfB Fil, i, 1012101012105.chM
| li. | | | Ini, I W, icht/Volume:. 50 mL
| ti, An, lyzFdM | 10/12/2010 215M | | Fin, I W, icht/Volume:. 50 mL
| t. | pF dM | 10/11/2010 114I | |
| An, lysis BMchM 680-1, 2792M | p BMchM 680-1, 2513, | |

### **Mv ria Spuke/V**

**Mv ria Spuke/V Recovery Repor- By ch: 680-1865 13T**

<table>
<thead>
<tr>
<th>A, lyt.</th>
<th>MS,</th>
<th>MS,</th>
<th>Limit,</th>
<th>MS Qu. I,</th>
<th>MS, Qu. I,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bmium.</td>
<td>103,</td>
<td>105M</td>
<td>75 - 125M</td>
<td>2M</td>
<td>20.</td>
</tr>
<tr>
<td>d mium.</td>
<td>104I</td>
<td>106.</td>
<td>75 - 125M</td>
<td>2M</td>
<td>20.</td>
</tr>
<tr>
<td>hdmium.</td>
<td>104I</td>
<td>106.</td>
<td>75 - 125M</td>
<td>2M</td>
<td>20.</td>
</tr>
<tr>
<td>F, l.o.</td>
<td>5M</td>
<td>75 - 125M</td>
<td>0.</td>
<td>20.</td>
<td>4I</td>
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<tr>
<td>S, i um.</td>
<td>107I</td>
<td>109M</td>
<td>75 - 125M</td>
<td>2M</td>
<td>20.</td>
</tr>
<tr>
<td>Silv</td>
<td>99M</td>
<td>100.</td>
<td>75 - 125M</td>
<td>2M</td>
<td>20.</td>
</tr>
</tbody>
</table>

### **Mv ria Spuke/V**

**Mv ria Spuke/V Recovery Repor- By ch: 680-1865 13T**

| MS LfB S, mpl, i, | 0-6. 202M1, | An, lysis BMchM 680-1, 4533, | **Method: 8010Cu**
| - | - | - | 1.0, VMI, IC,
| li, t MTT,ixT | W, t, | p BMchM 680-1, 2513, | LfB Fil, i, E102M010.csvl
| li. | | | Ini, I W, icht/Volume:. 50 mL
| ti, An, lyzFdM | 10/2M2010 1435M | | Fin, I W, icht/Volume:. 50 mL
| t. | pF dM | 10/11/2010 114I | |
| An, lysis BMchM 680-1, 4533, | p BMchM 680-1, 2513, | |

### **Mv ria Spuke/V**

**Mv ria Spuke/V Recovery Repor- By ch: 680-1865 13T**

<table>
<thead>
<tr>
<th>A, lyt.</th>
<th>MS,</th>
<th>MS,</th>
<th>Limit,</th>
<th>MS Qu. I,</th>
<th>MS, Qu. I,</th>
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<tbody>
<tr>
<td>Sodium.</td>
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<td>-54I</td>
<td>75 - 125M</td>
<td>1,</td>
<td>20.</td>
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<tr>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td>4I</td>
<td>4I</td>
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</table>

**TeV Americv S v nn hc**
**MeVod Bv nk - Bv ch: 880-1866516**

<table>
<thead>
<tr>
<th>LFb S, mpl, l,</th>
<th>MB 680-1, 2M51/1-A, lltio.</th>
<th>W, t, t. An, lyzFdM</th>
<th>10/13/2010 1357L</th>
<th>pF dM</th>
<th>10/12/2010 1047L</th>
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</thead>
<tbody>
<tr>
<td>An, lysis BMchM 680-1, 2M#1, p BMchM 680-1, 2M#1, Units.: ug/LF</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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**MeVod: 8470AV**  
Prepuru on: 8470AV

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>su lt,</th>
<th>Qu, l,</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT uryT</td>
<td>0.20.</td>
<td>U</td>
<td>0.20.</td>
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</table>

**Lub\ConouroSVmpueV Bv ch: 880-1866516**

<table>
<thead>
<tr>
<th>LFb S, mpl, l,</th>
<th>LFS 680-1, 2M51/2-A, lltio.</th>
<th>W, t, t. An, lyzFdM</th>
<th>10/13/2010 1400.</th>
<th>pF dM</th>
<th>10/12/2010 1047L</th>
</tr>
</thead>
<tbody>
<tr>
<td>An, lysis BMchM 680-1, 2M#1, p BMchM 680-1, 2M#1, Units.: ug/LF</td>
<td></td>
<td></td>
<td></td>
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</table>

**MeVod: 8470AV**  
Prepuru on: 8470AV

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>Spike Amou.t,</th>
<th>su lt,</th>
<th>% . ,</th>
<th>Limit,</th>
<th>Qu, l,</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT uryT</td>
<td>2.50.</td>
<td>2.11,</td>
<td>5M</td>
<td>0 - 120.</td>
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</tbody>
</table>

**Mv ria Spuke/V**  
**Mv ria SpukeV\Vpucv e\Recovery Reporu - Bv ch: 880-1866516**

| MS LFb S, mpl, l, | 0-6. 202M5M | lltio. | W, t, t. An, lyzFdM | 10/13/2010 1424L | pF dM | 10/12/2010 1047L |
|------------------|-------------|--------|-------------------|------------------|------------------|
| An, lysis BMchM 680-1, 2M#1, p BMchM 680-1, 2M#1, Units.: ug/LF | | | | |

**MeVod: 8470AV**  
Prepuru on: 8470AV

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>MS,</th>
<th>MS,</th>
<th>Limit,</th>
<th>Limit,</th>
<th>MS Qu, l,</th>
<th>MS, Qu, l,</th>
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<tbody>
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<td>MT uryT</td>
<td>4L</td>
<td>0 - 120.</td>
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</tbody>
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---

**Qu y ConouroReV**

Job Number: 680-6202M1,
### Method Bv nk - Bv ch: 680-183526T

- **LFB S, mpl, 1:** MB 680-1, 352M
- **LFB S, mpl, 2:** MB 680-1, 352M
- **Li, t:** MTT, ixT
- **lli, t:** MTT, ixT
- **Ilutio:** 1.0
- **t:** An, lyzFdB
- **t:** pF, dM N/A
- **An, lysis BMchM 680-1, 352M**
- **p BMchMN/A,**
- **Units:** mg/LF

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>su lt,</th>
<th>Qu, l,</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulf t</td>
<td>5.0</td>
<td>U</td>
<td>5.0</td>
</tr>
</tbody>
</table>

### LUB V conrouSVmpeV Bv ch: 680-183526T

- **LFB S, mpl, 1:** LFB 680-1, 352M
- **LFB S, mpl, 2:** LFB 680-1, 352M
- **Li, t:** MTT, ixT
- **lli, t:** MTT, ixT
- **Ilutio:** 1.0
- **t:** An, lyzFdB
- **t:** pF, dM N/A
- **An, lysis BMchM 680-1, 352M**
- **p BMchMN/A,**
- **Units:** mg/LF

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>Spike Amou.t,</th>
<th>su lt,</th>
<th>% ,</th>
<th>Limit,</th>
<th>Qu, l,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulf t</td>
<td>20.0</td>
<td>1 .5M</td>
<td>92M</td>
<td>75 - 125M</td>
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### DVpucv eV Bv ch: 680-183526T

- **LFB S, mpl, 1:** 0-6. 202M4I
- **LFB S, mpl, 2:** 0-6. 202M4I
- **Li, t:** MTT, ixT
- **lli, t:** MTT, ixT
- **Ilutio:** 1.0
- **t:** An, lyzFdB
- **t:** pF, dM N/A
- **An, lysis BMchM 680-1, 352M**
- **p BMchMN/A,**
- **Units:** mg/LF

<table>
<thead>
<tr>
<th>A, lyt,</th>
<th>S, mpl, .</th>
<th>su lt/Qu, l,</th>
<th>su lt,</th>
<th>Limit,</th>
<th>Qu, l,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulf t</td>
<td>2M</td>
<td>2M2M</td>
<td>7M</td>
<td>30</td>
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</tr>
</tbody>
</table>
## Chain of Custody Record

### Client Contact
- **Project Manager:** Alan Pinnix
- **Site Contact:** Alan Pinnix
- **Date:** 10/3/10
- **Carrier:** Fed Ex
- **COC No:** __ of __ COCs
- **Job No:**
- **SDG No:**

### ARCADIS
- **Address:** 801 Corporate Center Drive, Suite 300
- **Phone:** 919-854-1282
- **Fax:** 919-854-5448
- **Project Name:** UNC Airport Road
- **Site:** Chapel Hill, NC
- **P.O. #:** NC000239.001800006

### Analysis Turnaround Time

<table>
<thead>
<tr>
<th>TAT if different from below</th>
<th>2 weeks</th>
<th>1 week</th>
<th>2 days</th>
<th>1 day</th>
</tr>
</thead>
</table>

### Sample Identification

| MW-1 | 1415 | GW | GW | X | X | X | X | X | X |
| MW-2 | 1630 | GW | GW | 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 |   |

### 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

### Special Instructions/QC Requirements & Comments:

- **Relinquished by:** ARCADIS
  - **Date/Time:** 10/3/10 1700
  - **Received by:** Matha Daharty
  - **Date/Time:** 10-9-10 1000:
  - **Company:**

- **Relinquished by:**
  - **Date/Time:**
  - **Received by:**
  - **Company:**

- **Relinquished by:**
  - **Date/Time:**
  - **Received by:**
  - **Company:**
Login Sample ReTeT  CheTk Listc

Client:  ARCADIS U.S., Inc. M
Job Number: 680-62026-1M

Login Number: c 0T
Creator: Daughtey, BeLhc
List Number: 1/

<table>
<thead>
<tr>
<th>Question</th>
<th>cFR/NAM</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity was not measured or, if measured, is abhor below Mr basegnd: cooler's custody sTal, if preMnt, is intct. M cooler or sample do not appear to have been compromisM or M</td>
<td>rueM</td>
<td></td>
</tr>
<tr>
<td>Sample was receivd on ice.M</td>
<td>rueM</td>
<td></td>
</tr>
<tr>
<td>Cooler Mm phature is acceptable.M</td>
<td>rueM</td>
<td></td>
</tr>
<tr>
<td>Cooler Mm phature is recordcd.M</td>
<td>rueM</td>
<td></td>
</tr>
<tr>
<td>COC is present.M</td>
<td>rueM</td>
<td></td>
</tr>
<tr>
<td>COC is filled with ink and legible.M</td>
<td>rueM</td>
<td></td>
</tr>
<tr>
<td>COC is filled with Mterial pertinent in formation.M</td>
<td>rueM</td>
<td></td>
</tr>
<tr>
<td>Is TM Mield Sampler's name preMnt on COC?1</td>
<td>N/Ay</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and y the COC.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Samples are received within Holding Time.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Sample containers have legible labels.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are completely filled.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Sample Preservation Verifiedy</td>
<td>N/Ay</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested y MS/MSDsy</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in y meter.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT y esdy</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Multiphasic samples are not present.y</td>
<td>TruEY</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or compositing.y</td>
<td>TruEY</td>
<td></td>
</tr>
</tbody>
</table>
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.

Commens:
No additional comments. M

Receipt e
All samples were received in good condition within temperature requirements. y

GC/MS VOA
Method(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 reported 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 reported 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.
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Lab References:

L SAy = . sMmerica SavaM ah/

Method References:

SM = "StMaM My hods For . h/ Exami/ aMh. Of WaM . d WasMwaM ")

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## 8260B Volatile Organic Compounds (GC/MS)e

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### 8260B Volatile Organic Compounds (GC/MS)

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**Client Sample ID:** MW-2T  
**Lab Sample ID:** 680-62283-2M  
**Client Matrix:** Watery  
**Date Sampled:** y0/M8/20M0 y2M8U  
**Date Received:** y0/M8/20M0 0934U  
**Analytical Data**
## Analytical Data

**Client Sample ID:** MW-2T  
**Lab Sample ID:** 680-62283-2M  
**Client Matrix:** Watery  
**Date Sampled:** y0/M/20M y2/M/U  
**Date Received:** y0/N/20M 0934U

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### Surrogates

- 4-Bromofluorobenzene: 0M, Acceptable Units: 75 - y20M
- Dibromofluorobenzene: 85U, Acceptable Units: 75 - y2M
- Toluene-d8 (Sur): 09S, Acceptable Units: 75 - y20M
# 8260B Volatile Organic Compounds (GC/MS)e

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<th>Result (ug/L)</th>
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### 8260B Volatile Organic Compounds (GC/MS)e

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### 8260B Volatile Organic Compounds (GC/MS)e

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**Analytical Data**

**Client Sample ID**: MW-38T

**Lab Sample ID**: 680-62283-4U

**Client Matrix**: Watery

**Date Sampled**: 07/08/2009

**Date Received**: 08/08/2009

**Analytical Method**: 680-M4244U

**Instrument ID**: MSO2M

**Lab FAe ID**: 0096.dl

**Initial Weight/Volume**: 5 mL

**Final Weight/Volume**: 5 mL
### 8260B Volatile Organic Compounds (GC/MS)

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### 820B Volatile Organic Compounds (GC/MS)

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**Date Received:** y0/N8/20M0 0934U
**Client Sample ID:** MW-39e
**Lab Sample ID:** 680-62283-SU
**Client Matrix:** Watery

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TestAmerica SevonnaThe
8260B Volatile Organic Compounds (GC/MS)

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### 7470A Mercury (CVAA)e

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Client Sample ID: MW-1T
Lab Sample ID: 680-62283-M
Client Matrix: Watery
Date Sampled: y0/M8/20M0 y3, 5U
Date Received: y0/M8 /20M0 0934U

TestAmerica SeventeenThe
6010C Metals (ICP)e

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Date Received: y0/M8/20M0 0934U
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### 7470A Mercury (CVAA)e

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Analyte Batch: 680-M-4334U
Date Analyzed: 01/27/20M 09 45U

Date Sampled: 09/28/20M 09 35U
Date Received: 09/28/20M 09 35U
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Analyte: Batch: 680-M64334U  Date Analyzed: y0/27/20M0 y9 45U
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Analyte: Sulfate
Batch: 680-M64334U
Date Analyzed: y0/27/20M0 y9 46y
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**Analytes:**
- Batch: 680-64334U
- Date Analyzed: 06/27/2020 9U

**Client Sample ID:** MW-38T
**Lab Sample ID:** 680-62283-4U
**Client Matrix:** Watery
**Date Sampled:** 06/20/20 5U
**Date Received:** 06/20/20 0934U
**General Chemistry**

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**Notes:**
- Analyte: Sulfate
- Batch: 680-M64334U
- Date Analyzed: 07/27/2020

**Client:** ARCADIS U.S., Inc.

**Sample ID:** MW-39e

**Lab Sample ID/M:** 680-62283-5U

**Client Matrix:** Watery

**Date Sampled:** 07/08/2020

**Date Received:** 07/10/2020
## General Chemistry

**Client Sample ID:** MW-14  
**Lab Sample ID:** 680-62283-6y  
**Client Matrix:** Watery  
**Date Sampled:** y0/M8/20M0 y045U  
**Date Received:** y0/M0 /20M0 0934U

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**Analyte Batch:** 680-M64334U  
**Date Analyzed:** y0/27/20M0 y9 39S
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**LubConrousVmp@yVp6cv eRecovery Reporu- Bv ch: 680-1841441**

**Mehod: 8660Bv**
**Prep6ru on: 8030Bv**

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**L Ub ConrouSvmp eV**  
**LVbConrouSvmp@WVp6cv eRecovery Reporu- Bv ch: 680-1841441**  
**M e hod: 8660Bv**  
**Prep6ru on: 8030Bv**

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**Lub ConrouSVmp e/V**  
**Lub ConrouSVmp & VDp6cv eV Recovery Repor- Bv ch: 880-1841441**  
**Lub ConrouSVmp & VDp6cv eV Recovery Repor- Bv ch: 880-1841441**  
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**Lub ConrouSVmp & VDp6cv eV Recovery Repor- Bv ch: 880-1841441**

### LCS Lab Sample ID)

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### AlyS %, c). LCS (a) LCS (b) Limi/ P P Limi/ LCS Qual/ LCS Qual)

| AlyS %, c) | LCS (a) | LCS (b) | Limi/ P P Limi/ LCS Qual/ LCS Qual |
|------------|---------|---------|-----------------------------------|------------------|-----------------|-----------------|-----------------|
| Vl yl chloridl | 103U   | 109y   | 59 - 144U | 50.                                           |
| Xyl (s, To.al) | 102M     | 104U   | 4 - 118. | 1.               | 30.             |

### Surrogab

| Surrogab | LCS %, c) | LCS (a) | LCS (b) | Limi/ P P Limi/ LCS Qual/ LCS Qual |
|----------|-----------|---------|---------|-----------------------------------|------------------|-----------------|-----------------|
| 4-B.nmoUorone. zU e | 102M     | 101.     | 75 - 120.  |
| 1bromofluorome. hab | 92M     | 95B | 75 - 121.  |
| Tolue. - di (Surj) | 105B   | 103U | 75 - 120.  |
**Method** Bv nk - Bv ch: 880-184306T

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**Method**: 8660Bv

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<td>Final W/mgh./Volume.:</td>
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**TeV Americov S v nn hc**
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Surrogates:

- 4-Bromo-2-fluorobenzene (4-B) 97% 75 - 120.
- 4-Bromo-2-fluorobenzene (4-F) 90% 75 - 121.
- Toluene (Tor) 108% 75 - 120.
**Quity ConrouReV**

**Lub Conrou Svmp eV**

**LubConrouSvmp & lVp6cv eRecovery Reporu- Bv ch: 880-184306T**

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**alyS**

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**Job Number:** 680-622M6-1.

**Method:** 8660Bv
**Prep6ru on:** 8030Bv

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| ab. alyzUdl | 10/27/2010 1018. | Fi al Wmgh./Volume.: 5 mLRR
| ab. pab dl | 10/27/2010 1018. |

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**Lab\ConrouSVmp&\DVp6cv eVRecovery Reporou- Bv ch: 880-184306T**

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**LubConrouSVmp@WVp6cv e/V** Recovery Repor- Bv ch: 680-1844406

**Me hod: 8660Bv**
**Prep6ru on: 8030Bv**

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### Quality Control Report

**Sample:** LUB ConrouSmpl eV

**Method:** 8660Bv

**Prep Code:** 8030Bv

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Surrogates:
- **4-Bromo-fluorobenzene (ZU e)**
  - LCS: 103U, LCSD: 99y
  - Limit: 75 - 120
- **4-Bromo-fluorobenzene (hab)**
  - LCS: 908, LCSD: 9y
  - Limit: 75 - 121
- **Toluene - di (Sur)l**
  - LCS: 104U, LCSD: 102M
  - Limit: 75 - 120
**Method Bv nk - Bv ch: 680-183416T**

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**Method: 6010Cu**

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**Mv rimSp8e/DkVp6cv eRecovery Reporu- By ch: 680-183416T**

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### Mv rimSp8e/V

**Mv rimSp8e/DkVp6cv eRecovery Reporu- By ch: 680-183416T**

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**Quy ConrouReV**

**Method: 8010Cu**

Prep6ru on: 8030Cu
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PrepSr on: B470AV

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## MeVod: B470AV

PrepSr on: B470AV

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# Chain of Custody Record

**Client Contact**
- ARCADIS
  - 901 Corporate Center Drive, Suite 300
  - Raleigh, NC 27607
  - 919-854-1282
  - 919-854-5448
- Project Name: UNC Airport Road
- Site: Chapel Hill, NC
- P O # NC000239.0018.00006

**Site Contact:** Alan Pinnix

**Project Manager:** Alan Pinnix

**Tel/Fax:** 919-854-1282

**Date:** 10/18/10

**Carrier:** Fed Ex

**TestAmerica Laboratories, Inc.**

## Analysis Turnaround Time
- Calendar (C) or Work Days (W)
- TA 1 If different from Below

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<th>Zn (ICP-MS)</th>
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**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:**
- Return To Client
- Disposal By Lab
- Archive For
- Months

**Special Instructions/QC Requirements & Comments:**

**Relinquished by:**
- [Signature]
  - ARCADIS
  - Date/Time: 10/18/10 1:00
  - Received by: [Signature]
  - Date/Time: 10/19/10 09:34
  - Company: MJSU

**Relinquished by:**
- [Signature]
  - Company: [Company Name]
  - Date/Time: [Date]
  - Received by: [Signature]
  - Date/Time: [Date]
  - Company: [Company Name]
  - Date/Time: [Date]

**Relinquished by:**
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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

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.

GC/MS VOA M
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 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. The LCSD 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 M
No analytical or quality issues were noted.
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**Lab References:**

TAL SAV = T2stAmerica Savannah.

**Method References:**

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# 8260B Volatile Organic Compounds (GC/MS)

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### 8260B Volatile Organic Compounds (GC/MS)

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Analytical Data

Client: ARCADIS U.S., Inc.

Client Sample ID:M                  SW-2M
L2b SI mp e ID:I 680-62923-2I
Client MA rix:I ri

8260B Volatile Organic Compounds (GC/MS)

MA hod: 8260B
Anlysis Bl ch: 680-18599#b
Instrument ID:I
MOS2I

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<td>Ul</td>
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<td>Xy enes, Totl</td>
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Surrog: %Rec
| 4-Bromofluorobenzene | 87l |
| Dibromofluoromethane | 7l |
| Toluene-d8 (Surr)l | 103l |

AccepT nce Limits:

- 75 - 120l
### 8260B Volatile Organic Compounds (GC/MS)

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<th>Result (ug/L)</th>
<th>Qu lifierl</th>
<th>RL2</th>
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### 8260B Volatile Organic Compounds (GC/MS)

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### Surrogates

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### 8260B Volatile Organic Compounds (GC/MS)

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<thead>
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<th>RL2</th>
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<tr>
<td>1,1,1,2-Tetra chloroethane</td>
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<td>1,1,1-Trichloroethane</td>
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<td>1,2,3-Trichlorobenzene</td>
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8260B Volatile Organic Compounds (GC/MS)

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### 8260B Volatile Organic Compounds (GC/MS)

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8260B Volatile Organic Compounds (GC/MS)

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Surrogates
- 4-Bromofluorobenzene: 89I
- Dibromofluoromethane: 7I
- Toluene-d8 (Surr): 101I

Acceptance Limits:
- 75 - 120I
### 8260B Volatile Organic Compounds (GC/MS)

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**8260B Volatile Organic Compounds (GC/MS)**

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**Surrogate**

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### 8260B Volatile Organic Compounds (GC/MS)

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# Analytical DataM

Client: ARCADIS U.S., Inc.

Client Sample ID: M - W-31

L2b SI mp e ID: 680-62923-91

Client MA rix: rl

DI Sl mp T d: 11/02/010 15011

DI Re cei vbd: 11/06/010 103 4b

---

## 8260B Volatile Organic Compounds (GC/MS)M

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### 8260B Volatile Organic Compounds (GC/MS)

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**8260B Volatile Organic Compounds (GC/MS)**

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**Analytical Data**

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Job Number: 680-62923-11

Client Sample ID:M  W-5M

L2b Site ID: 680-62923-10I

Client MA rix: rl

Dilution: 1.0I

Dil Anl yzd: 11/13/010 15 41l

Dil PrepTreb: 11/13/010 15 41l

8260B file ID: o1573.1

Init I ig hVolume: 5 mL2

Fin I ig hVolume: 5 mL2

TestAmerica SavannahM  Page 25 of 142
8260B Volatile Organic Compounds (GC/MS)

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# 8260B Volatile Organic Compounds (GC/MS)

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8260B Volatile Organic Compounds (GC/MS)

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**Analysis Bl:** ch: 680-186055l  
**Instrument ID:**  
**MSOL**

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| Dil Anl yzbd: | 11/13/0010 1639l | Fin I I | hgVolume: | 5 mL |
| Dil PrepTreb: | 11/13/0010 1639l |

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## 8260B Volatile Organic Compounds (GC/MS)

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### Surrogates

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**Analytical DataM**

**Client:** ARCADIS U.S., Inc.

**Job Number:** 680-62923-11

**Client Sample ID:** W-26M

**L2b Smp e ID:** 680-62923-15l

**Client MA rix:** rl

**Date:** 11/03/010 1120l

**Received:** 11/06/010 103 4b

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### 8260B Volatile Organic Compounds (GC/MS)

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### Analytical DataM

**Client:** ARCADIS U.S., Inc.  
**Job Number:** 680-62923-11

**Client Sample ID:** W-26M  
**L2b Sl mp e ID:** 680-62923-15l  
**Client MA rix:** rl

**8260B Volatile Organic Compounds (GC/MS)M**

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TestAmerica SavannahM  
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### 8260B Volatile Organic Compounds (GC/MS)

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8260B Volatile Organic Compounds (GC/MS)M

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Surrog: 4-Bromofluorobenzene 5i  75 - 120l  Dibromofluoromethane 88i  75 - 121l  Toluene-d8 (Surr)
8260B Volatile Organic Compounds (GC/MS)

MA hod: 8260Bl
Anl ysb: 8260Bl ch: 680-186273l
PrepTnl ion: 5030Bl
Dilution: 50l

Result (ug/L) Qu lifier RL2

1,1,1,2-Tetr chloroethanel 50l UI 50l
1,1,1-Trichloroethanel 50l UI 50l
1,1,2,2-Tetr chloroethanel 50l UI 50l
1,1,2-Trichloroethanel 50l UI 50l
1,1-Dichloroethanel 50l UI 50l
1,1-Dichloroethneln 50l UI 50l
1,1-Dichloroproplnel 50l UI 50l
1,2,3-Trichlorobenznel 50l UI 50l
1,2,3-TrichloropropTnel 50l UI 50l
1,2,4-Trichlorobenznel 50l UI 50l
1,2,4-Trimethylbenznel 50l UI 50l
1,2-Dibromo-3-ChloropropTnel 50l UI 50l
1,2-Dibromothanel 50l UI 50l
1,2-Dichlorobenznel 50l UI 50l
1,2-Dichloroethanel 50l UI 50l
1,2-Dichloroethneln, Totl 100l UI 100l
1,2-DichloropropTnel 50l UI 50l
1,3,5-Trimethylbenznel 50l UI 50l
1,3-Dichlorobenznel 50l UI 50l
1,3-DichloropropTnel 50l UI 50l
1,4-Dichlorobenznel 50l UI 50l
2-Dic hloropropTnel 50l UI 50l
-Butl nonel 500l UI 500l
-C hlorotoluene 50l UI 50l
-He x nonel 500l UI 500l
4-Chlorotoluene 50l UI 50l
4-MA hy-2-pTnl nonel 500l UI 500l
Acetonel 1300l UI 1300l
Benzenel 50l UI 50l
Bromobenznel 50l UI 50l
Bromochloromethabel 50l UI 50l
Bromodichloromethabel 50l UI 50l
Bromoforml 50l UI 50l
Bromomethanel 50l UI 50l
Cl rbon disulfid, 100l UI 100l
Cl rbon tetl chlorid, 50l UI 50l
Chlorobenznel 50l UI 50l
Chloroethanel 50l UI 50l
Chloroforml 50l UI 50l
Chloromethanel 50l UI 50l
cis-1,2-Dichloroethanel 50l UI 50l
cis-1,3-DichloropropTnel 50l UI 50l
Dibromochloromethabel 50l UI 50l
Dibromomethabel 50l UI 50l
Dichlorodifluormethabel 50l UI 50l
Diethyl etherl 3300l 500l

TestAmerica SavannahM Page 44 of 142
# 8260B Volatile Organic Compounds (GC/MS)M

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### 8260B Volatile Organic Compounds (GC/MS)

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**Job Number:** 680-62923-11

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## 8260B Volatile Organic Compounds (GC/MS)M

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TestAmerica SavannahM  Page 57 of 142
# 8260B Volatile Organic Compounds (GC/MS)

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TestAmerica SavannahM
### 8260B Volatile Organic Compounds (GC/MS)M

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| Analyte                        | Result (μg/L) | Qu ilifier | RL2 |%
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## 8260B Volatile Organic Compounds (GC/MS)

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## Surrogl

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### 8260B Volatile Organic Compounds (GC/MS)

| MA hod:
| 8260Bl |
| PrepTrel ion:
| 5030Bl |
| Dilution:
| 100I |
| Dil Anl yzbd:
| 11/13/010 131 4b |
| Dil PrepTrel:
| 11/13/010 131 4b |

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### 8260B Volatile Organic Compounds (GC/MS)

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<th>Accepl nce Limitsl</th>
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# 8260B Volatile Organic Compounds (GC/MS)

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**Anl ysis Bl ch:** 680-18609#b  
**Instrument ID:**  
**MSP**

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# 8260B Volatile Organic Compounds (GC/MS)

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### Surrogates

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### Analytical DataM

Client: ARCADIS U.S., Inc.

**8260B Volatile Organic Compounds (GC/MS)**

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**8260B Volatile Organic Compounds (GC/MS)**

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## 8260B Volatile Organic Compounds (GC/MS)

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### 8260B Volatile Organic Compounds (GC/MS)

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### 8260B Volatile Organic Compounds (GC/MS)

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## 8260B Volatile Organic Compounds (GC/MS)M

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### 8260B Volatile Organic Compounds (GC/MS)

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**Instrument ID:** L2b File ID: p0161.d.

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8260B Volatile Organic Compounds (GC/MS)M

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PrepTrl ion: 5030Bl
Dilution: 1.0l

Anly ybsd: 11/13/010 1807l
PrepTreb: 11/13/010 1807l

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Surrog: 4-Bromofluorobenzene | 1l | 75 - 120l |
Dibromo Fluoromethane | 7l | 75 - 120l |
Toluene-d8 (Surj) | 7l | 75 - 120l |

TestAmerica SavannahM
### 8260B Volatile Organic Compounds (GC/MS)

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Testmerica SavannahU
### Method Bank - Batch: 880-1859941

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**Method: 8260BI**  
**Preparation: 5030BI**  

**Instrument IDL**: MS02M  
**L5b . ii5 IDL**: os210.d,  
**InitiL WJigt/Volume:** 5 mL5  
**inSI WJigt/Volume:** 5 mL5
Quality Control Results

**Method Blank - Batch: 680-185994I**

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**Method: 8260BI**

**Preparation: 5030BI**

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Quality Control Results

Lab Control Sample

Lab Control Sample Duplicate Recovery Report - Batch: 680-185994L

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LCS L5b SLmP5 IDL  LCS 680-1L5994L10.  An5lysis Batchb 680-1L5994L

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TestAmerica Savannah  Page 95 of 142
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### Quality Control Results

**Lab Control Sample/i**

**Lab Control Sample Duplicate Recovery Report - Batch: 680-185994I**

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**AnSlysis Batchb 680-1L5994L**

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**Inst5ument IDL**

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**L5b . ii5 IDL**

| oq202.d, ini5l WJlight/Volume.: 5 mL5 |

**Preparation: 5030Bl**

| 5 mL5 |

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### Table of Results

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**SurrogFl5**

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## Quality Control Results

**Method Blank - Batch: 680-1860271**

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**Method: 8260BI**  
**Preparation: 5030BI**

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Quality Control Results

Method Blank - Batch: 680-186027I

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Surrog5t5 % RLcL Accdf t5ncL Limits

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<td>Toluene5 d, (Sur)</td>
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**Quality Control Results**

**Lab Control Sample**

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186027I**

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<td>PFp BatbhbN.A5</td>
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**% RLc.L**

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Quality Control Results

Lab Control Sample
Lab Control Sample Duplicate Recovery Report - Batch: 680-186027I

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<th>RPD Limit5</th>
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Quality Control Results

Lab Control Sample/I
Lab Control Sample Duplicate Recovery Report - Batch: 680-186027I

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### Quality Control Results

**Method Blank - Batch: 680-186031L**

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### Method Blank - Batch: 680-186031I

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### Method: 8260BI

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Quality Control Results

Lab Control Sample
Lab Control Sample Duplicate Recovery Report - Batch: 680-186031L

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Quality Control Results

Lab Control Sample I
Lab Control Sample Duplicate Recovery Report - Batch: 680-186031

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LCSD L5b SLmpl5 IDL | LCSD 680-1L0 31L1L | AnSlysis Batchb | 680-1L0 31L | Instument IDL | MSP2M |
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# Quality Control Results

## Lab Control Sample/I

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186031I**

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<td>WJt5</td>
<td>PFp Batch: N/A5</td>
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<td>UnitsF ugL5</td>
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<td>Vinyl chlorid.</td>
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### Quality Control Results

**Method Blank - Batch: 680-186055l**

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**Method: 8260BI**

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TestAmerica Savannah
Quality Control Results

Method Blank - Batch: 680-186055i

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Surrog5t5 | % RLCL | Acclp t5nCL LimitsF |
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Quality Control Results

Lab Control Sample / Lab Control Sample Duplicate Recovery Report - Batch: 680-186051

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<th>680-1L0 55b</th>
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## Quality Control Results

### Lab Control Sample

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186055l**

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<th>Instument IDL</th>
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<tr>
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<td><strong>L5b i5 IDL</strong></td>
<td><strong>ppF BatchbN.A5</strong></td>
<td><strong>UnitsF ug/L5</strong></td>
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### Method: 8260BI

**Preparation: 5030BI**

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### Quality Control Results

#### Lab Control Sample II

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186055I**

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<td>11J32010 102M</td>
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<td>in5I WJlight/Volume:: 5 mL5</td>
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#### AnSlyt5

<table>
<thead>
<tr>
<th>Vinyl chlorid.</th>
<th>103T</th>
<th>106.</th>
<th>59 - 144L</th>
<th>3T</th>
<th>50.</th>
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<tr>
<td>Xyl5n5s, Tot5l5</td>
<td>106.</td>
<td>103T</td>
<td>4 - 11L</td>
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#### SurrogFl5

<table>
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<tr>
<th>4-Brbromofluorobenz5n5</th>
<th>9L</th>
<th>94L</th>
<th>Acclp 15ncL LimitsF</th>
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<tbody>
<tr>
<td>Dibromofluoromethab5</td>
<td>94L</td>
<td>9L</td>
<td>75 - 121L</td>
</tr>
<tr>
<td>Toluenu5 d, (Sur)</td>
<td>B4</td>
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<td>75 - 120. L</td>
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<th>LCS % RLcL</th>
<th>LCS % RLcL</th>
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<tr>
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<td>94L</td>
<td>75 - 120. L</td>
<td>75 - 121L</td>
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<td>94L</td>
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### Quality Control Results!

**Method Blank - Batch: 680-186057I**

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**Method: 8260BI**

**Preparation: 5030BI**

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<th>Instrument IDL</th>
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<td>L5b ili IDL</td>
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<table>
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*TestAmerica Savannah*
### Quality Control Results

**Method Blank - Batch: 680-1860571**

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<tr>
<td>Dichlorodifluoromethane</td>
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<tr>
<td>Diethyl ether</td>
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<tr>
<td>Ethylbenzene5</td>
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<td>Hexachlorobutadiene</td>
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<td>Isopropylbenzene5</td>
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<td>Xylenes5, Toluene5</td>
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**Surrogates**

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<th>Substance</th>
<th>% RLcL</th>
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<tr>
<td>4-Bromofluorobenzene5</td>
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<tr>
<td>Dibromofluoromethane</td>
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<td>75 - 121L</td>
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<tr>
<td>Toluene5, (Surrogate)</td>
<td>103T</td>
<td>75 - 120.</td>
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**Method: 8260BI**

**Preparation: 5030BI**

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<tbody>
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<td>PFP Batchb63 A5</td>
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**Instrument IDL** MSO2M

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**Quality Control Results**

### Lab Control Sample

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186057I**

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<tr>
<th>LCS L5b SLmpl5 iDL</th>
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<th>680-1L0 57L</th>
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<td>CliLnt ML10x5</td>
<td>WJ15</td>
<td>PFP BatchbN.A5</td>
<td>UnitsF ugl5</td>
<td>L5b . iL5 iDL</td>
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<td>PFP BatchbN.A5</td>
<td>UnitsF ugl5</td>
<td>L5b . iL5 iDL</td>
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### % RLC.L

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### Quality Control Results

**Lab Control Sample/ID**

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186057L**

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| DL5 An5lyz25d,    | 11L1 132010 1014L |
| DL5 PFp. d       | 11L1 132010 1014L |

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### An5lysis Batch: 680-1L0 57L

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| in5I WJ/light/Volume: 5 mL5 |
| in5I WJ/light/Volume: 5 mL5 |

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### % RLC-L

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Quality Control Results

Lab Control Sample II
Lab Control Sample Duplicate Recovery Report - Batch: 680-186057I

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| Method: 8260BI |
| Preparation: 5030BI |

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Method Blank - Batch: 680-186094I

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Method: 8260BI
Preparation: 5030BI

Instrument IDL MSPF
L5b . i5 IDL pq37T7.d, L5b . ii5 IDL
Init. WJght/Vol: 5 mL5
inSl WJght/Vol: 5 mL5
### Quality Control Results

**Method Blank - Batch: 680-186094L**

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**SurrogFt5**

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**Method: 8260BI**

**Preparation: 5030BI**

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**Units** ug/L

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# Quality Control Results

**Lab Control Sample**

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186094**

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<td>Dichlorodifluoromethab5</td>
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<td>9L</td>
<td>34 - 154L</td>
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<td>93T</td>
<td>- 11L</td>
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*°L
Quality Control Resultsl

Lab Control Sample/I
Lab Control Sample Duplicate Recovery Report - Batch: 680-186094I

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<th>Inst5ment IDL</th>
<th>MSPF</th>
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<td>WJ5</td>
<td>PFp Batch: N/A5</td>
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<td>Dilution5</td>
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<td>UnitsF ug/L5</td>
<td>InitI WLight/Volume:. 5 mL5</td>
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<tr>
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<td>11J32010 0949L</td>
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<td>in5I WLight/Volume:. 5 mL5</td>
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<th>An5lysis Batchb 680-1L0 94L</th>
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<td>WJ5</td>
<td>PFp Batch: N/A5</td>
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<td>11J32010 1019L</td>
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<td>in5I WLight/Volume:. 5 mL5</td>
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<td>DLt5 PFp. d</td>
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<tr>
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<th>% RLc. L</th>
<th>LCSL</th>
<th>LCSDL</th>
<th>Limit5</th>
<th>RPDL</th>
<th>RPD Limit5</th>
<th>LCS Qu. 15</th>
<th>LCSD Qu. 15</th>
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<tr>
<td>Vinyl . cLi5t5</td>
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<td>105b</td>
<td>10 - 217L</td>
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<td>Vinyl chlorid.</td>
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<td>101L</td>
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<tr>
<td>Xyl5n5s, Tots5t5</td>
<td>9L</td>
<td>97L</td>
<td>4 - 11L</td>
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<th>Acclp t5ncL LimitsF</th>
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<td>4-Bromofluorobenz5n5</td>
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<td>90.</td>
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<td>Dibromofluoromethab5</td>
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Quality Control Results

Method Blank - Batch: 680-1861471

<table>
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<th>Component</th>
<th>Result</th>
<th>Units</th>
<th>Method: 8260BI</th>
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<td>MB 680-1L 147L</td>
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<td>Instrument IDL MSOL</td>
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<tr>
<td>Clrnt ML5x5</td>
<td>WJ15</td>
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<td>L5b ii5 IDL oo237.d,</td>
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<td>Dilution5</td>
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<tr>
<td>DL5 AnSy25d</td>
<td>11L14L2010 1235b</td>
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<td>inSI WJight Volume: 5 mL</td>
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<td>DL5 PFp. d</td>
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AnSy5 | RLsult5 | Qu. | RL5 |
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1.1,1-Tlchloroethab5 | 1.0. | U | 0.0. |
1.1,2,2-TL5 chloroethab5 | 1.0. | U | 0.0. |
1.1,2-Tlchloroethab5 | 1.0. | U | 0.0. |
1.1-Dichloroethab5 | 1.0. | U | 0.0. |
1.1-Dichloroethbn5 | 1.0. | U | 0.0. |
1.1-Dichloropropen5 | 1.0. | U | 0.0. |
1.2,3-Tlchlorobenz5n5 | 1.0. | U | 0.0. |
1.2,3-Tlchlorobprop. n5 | 1.0. | U | 0.0. |
1.2,4-Tlchlorobenz5n5 | 1.0. | U | 0.0. |
1.2,4-Tlmenylbenz5n5 | 1.0. | U | 0.0. |
1.2-Dibromo-3-Chloroprop. n5 | 1.0. | U | 0.0. |
1.2-Dibromoethab5 | 1.0. | U | 0.0. |
1.2-Dibromobenz5n5 | 1.0. | U | 0.0. |
1.2-Dichloroethab5 | 1.0. | U | 0.0. |
1.2-Dichloroethbn5, Tot515 | 1.0. | U | 0.0. |
1.2-Dichloroprop. n5 | 1.0. | U | 0.0. |
1.3,5-Tlmenylbenz5n5 | 1.0. | U | 0.0. |
1.3-Dichlorobenz5n5 | 1.0. | U | 0.0. |
1.3-Dichloroprop. n5 | 1.0. | U | 0.0. |
1.4-Dichlorobenz5n5 | 1.0. | U | 0.0. |
2.2-Dichloroprop. n5 | 1.0. | U | 0.0. |
2-But5n5 | 1.0. | U | 0.0. |
2-Chlorotoluene5 | 1.0. | U | 0.0. |
2-H x non5 | 1.0. | U | 0.0. |
4-Chlorotoluene5 | 1.0. | U | 0.0. |
4-MLHyl-2-pent5non5 | 1.0. | U | 0.0. |
Ac ton5 | 1.0. | U | 0.0. |
B nz n5 | 1.0. | U | 0.0. |
Btmobenz5n5 | 1.0. | U | 0.0. |
Btmochloromethab5 | 1.0. | U | 0.0. |
Btmochloromethab5 | 1.0. | U | 0.0. |
Btmofom. | 1.0. | U | 0.0. |
Btmomethab5 | 1.0. | U | 0.0. |
C5 bon disulfid | 1.0. | U | 0.0. |
C5 bon f5l5 chlorid | 1.0. | U | 0.0. |
Chlorobenz5n5 | 1.0. | U | 0.0. |
Chloroethab5 | 1.0. | U | 0.0. |
Chlorofom. | 1.0. | U | 0.0. |
Chloromethab5 | 1.0. | U | 0.0. |
cis-1,2-Dichloroethbn5 | 1.0. | U | 0.0. |
cis-1,3-Dichloropropen5 | 1.0. | U | 0.0. |
Dibromochloromethab5 | 1.0. | U | 0.0. |
## Quality Control Results

**Method Blank - Batch: 680-186147L**

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<th>RLsult5</th>
<th>Qu. I5</th>
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<td>HLx5chlorbut5diLn5</td>
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<td>MLthyl t5 t-butyl ethb</td>
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<tr>
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<td>75 - 120.</td>
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**Method: 8260BI**

**Preparation: 5030BI**

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<th>Instrument IDL</th>
<th>MSOL</th>
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<tr>
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<td>inSi WJight/Volume:</td>
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**Page 124 of 142**
**Quality Control Results**

**Lab Control Sample/I**
**Lab Control Sample Duplicate Recovery Report - Batch: 680-186147I**

<table>
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<th>LCS 680-1L 147L</th>
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### Quality Control Results

#### Lab Control Sample

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186147I**

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Quality Control Results

**Lab Control Sample/II**
**Lab Control Sample Duplicate Recovery Report - Batch: 680-186147I**

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### Quality Control Results

**Method Blank - Batch: 680-186273I**

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**Method: 8260BI**

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## Lab Control Results

### Lab Control Sample Duplicate Recovery Report - Batch: 680-186273I

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<th>An5ysis Batch b</th>
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### An5yt5

| 1,1,1,2-TLI5 chloroethab5 | 100. 105b 1 - 12M 5b 30. |
| 1,1-Tlchloroethab5 | 93T 9L 7L - 127L 4L 30. |
| 1,1,2,2-TLI5 chloroethab5 | 94L 9L 9 - 129L 4L 30. |
| 1,1,2-Tlchloroethab5 | 92M 95b 75 - 121L 3T 30. |
| 1,1-Dichloroethab5 | 9L 9L 74 - 127L 0. 30. |
| 1,1-Dichloroethab5 | 9L 9L 2 - 141L 2M 30. |
| 1,1-Dichloroethab5 | 9L 9L 77 - 122M 3T 30. |
| 1,2,3-Tlchlorobenz5n5 | 111L 11L 0 - 132M 4L 30. |
| 1,2,3-Tlchloroprop. n5 | 103T 106. 70 - 130. 3T 30. |
| 1,2,4-Tlchlorobenz5n5 | 91L 9L 0 - 135b 7L 30. |
| 1,2,4-Tlthymethaben5n5 | 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-Dichloroethab5 | 9L 9L - 134L 1L 30. |
| 1,2-Dichloroprop. n5 | 91L 92M 73 - 124L 2M 30. |
| 1,3,5-Tlthymethaben5n5 | 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-Chlorotolu5n5 | 103T 104L 2 - 123T 1L 30. |
| 2-HLX5non5 | 97L 102M 34 - 1L1L 30. |
| 4-Chlorotolu5n5 | 99L 104L 3 - 122M 4L 30. |
| 4-Methyl-2-pent5non5 | 90. 95b 40 - 151L 30. |
| AcLt5n5 | 74L 4L 17 - 175b 12M 50. |
| Bbn5n5 | 92M 9L 77 - 119L 4L 30. |
| Btmobenz5n5 | 105b 110. 0 - 124L 4L 30. |
| Btmochloromethab5 | 92M 94L 10 - 150. 3T 30. |
| Btmodchloromethab5 | 92M 9L 7L - 127L 30. |
| Btmoform5 | 106. 109L 2 - 133T 2M 30. |
# Quality Control Results

**Lab Control Sample**
**Lab Control Sample Duplicate Recovery Report - Batch: 680-186273L**

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### Lab Control Sample(s)

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186273L**

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<th>Inst5ment IDL</th>
<th>MSOL</th>
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<tbody>
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<td>WJt5</td>
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<th>Inst5ment IDL</th>
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### AnSyt5

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### SurrogF5

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### Quality Control Results

**Method Blank - Batch: 680-186385I**

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**Method: 8260BI**

**Preparation: 5030BI**

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### Quality Control Results

**Method Blank - Batch: 680-186385L**

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<tr>
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<tr>
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<tr>
<td>Tolu5n d, (Sur)5L</td>
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Quality Control Results

**Lab Control Sample**

**Lab Control Sample Duplicate Recovery Report - Batch: 680-186385I**

<table>
<thead>
<tr>
<th>LCS L5b SLmpl5 IDL</th>
<th>LCS 680-1L 3T5b9L</th>
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## Quality Control Results

### Lab Control Sample/
**Lab Control Sample Duplicate Recovery Report - Batch: 680-186385I**

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<td>UnitsF ugFL5</td>
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### AnSlyt5 (% RLC.L)

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<td>90.</td>
<td>5b- 149L</td>
<td>1L</td>
<td>50.</td>
<td></td>
<td></td>
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</table>
Quality Control Results

Lab Control Sample II
Lab Control Sample Duplicate Recovery Report - Batch: 680-186385I

<table>
<thead>
<tr>
<th>Sample</th>
<th>LCS 680-1L 3T5</th>
<th>Dilution</th>
<th>Date</th>
<th>% Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>AnSlyt5</td>
<td>LCS L5b SLmpl5 iDL</td>
<td>W</td>
<td>1.0</td>
<td>11/11 2010</td>
</tr>
<tr>
<td>PFp BactbN.A5</td>
<td>LCS 680-1L 3T5b</td>
<td>UnitsF</td>
<td>ug/L</td>
<td>6L</td>
</tr>
<tr>
<td>InstMent IDL</td>
<td>MSPF</td>
<td>L5b . i5 IDL</td>
<td>pg/L</td>
<td>5 mL</td>
</tr>
<tr>
<td>InitLi WLight/Volum.:</td>
<td>5 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>in5i WLight/Volum.:</td>
<td>5 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample</th>
<th>LCS 680-1L 3T5</th>
<th>Dilution</th>
<th>Date</th>
<th>% Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>AnSlyt5</td>
<td>LCS L5b SLmpl5 IDL</td>
<td>W</td>
<td>1.0</td>
<td>11/11 2010</td>
</tr>
<tr>
<td>PFp BactbN.A5</td>
<td>LCS 680-1L 3T5b</td>
<td>UnitsF</td>
<td>ug/L</td>
<td>6L</td>
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<tr>
<td>InstMent IDL</td>
<td>MSPF</td>
<td>L5b . i5 IDL</td>
<td>pg/L</td>
<td>5 mL</td>
</tr>
<tr>
<td>InitLi WLight/Volum.:</td>
<td>5 mL</td>
<td></td>
<td></td>
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<tr>
<td>in5i WLight/Volum.:</td>
<td>5 mL</td>
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<table>
<thead>
<tr>
<th>SurrogF5</th>
<th>LCS % RLcL</th>
<th>LCSD % RLcL</th>
<th>Acclp t5mCL LimitsF</th>
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<tbody>
<tr>
<td>4-BromoMethoxybenz5n5</td>
<td>93T</td>
<td>92M</td>
<td>75 - 120.</td>
</tr>
<tr>
<td>Dibromofluoromethab5</td>
<td>95b</td>
<td>94L</td>
<td>75 - 121L</td>
</tr>
<tr>
<td>Toluene5 d, (Surro)</td>
<td>103T</td>
<td>101L</td>
<td>75 - 120.</td>
</tr>
<tr>
<td>SAMPLE</td>
<td>DATE</td>
<td>TIME</td>
<td>SAMPLE IDENTIFICATION</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>SW-1</td>
<td>12-2</td>
<td>1000</td>
<td>SW-3</td>
</tr>
<tr>
<td>SW-2</td>
<td>12-2</td>
<td>1010</td>
<td>SW-4</td>
</tr>
<tr>
<td>SW-3</td>
<td>12-2</td>
<td>1100</td>
<td>SW-5</td>
</tr>
<tr>
<td>SW-4</td>
<td>12-2</td>
<td>1105</td>
<td>SW-5</td>
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<td>12-2</td>
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<td>SW-6</td>
</tr>
<tr>
<td>SW-6</td>
<td>12-2</td>
<td>1140</td>
<td>MW-36</td>
</tr>
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<td>MW-36</td>
<td>12-2</td>
<td>1150</td>
<td>MW-4</td>
</tr>
<tr>
<td>MW-4</td>
<td>12-2</td>
<td>1200</td>
<td>MW-30</td>
</tr>
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<td>MW-30</td>
<td>12-2</td>
<td>1501</td>
<td>MW-31</td>
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<td>MW-31</td>
<td>12-2</td>
<td>1515</td>
<td>MW-32</td>
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<tr>
<td>MW-32</td>
<td>12-2</td>
<td>1550</td>
<td>MW-35</td>
</tr>
<tr>
<td>MW-35</td>
<td>12-2</td>
<td>1555</td>
<td></td>
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**REQUESHER BY:** Signatures

DATE: 11-5-10  TIME: 1700

**RECEIVED BY:** Signatures

DATE: 11-5-10  TIME: 1034

**LABORATORY USE ONLY**

DATE: 11-5-10  TIME: 1034

**CUSTOM INTACT:** YES  NO

**CUSTOM SEAL NO:** 1034

**SAVANNAH LOG NO:** 240-6293

**LABORATORY REMARKS:** Temp 0.2
<table>
<thead>
<tr>
<th>SAMPLE DATE</th>
<th>SAMPLE TIME</th>
<th>SAMPLE IDENTIFICATION</th>
<th>COMPOSTIVE (S) OR GRAB (G) INDICATE</th>
<th>SOLID OR SEASOLID (S)</th>
<th>NONCOUS[O] LIQUID OIL SOLVENT (L)</th>
<th>AIR</th>
<th>REQUIRED ANALYSIS</th>
<th>NUMBER OF CONTAINERS SUBMITTED</th>
<th>REMARKS</th>
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<tr>
<td>11-5-2010</td>
<td>0830</td>
<td>MW-14</td>
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<td>11-5-2010</td>
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<td>MW-23</td>
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<td>11-5-2010</td>
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<td>11-4-2010</td>
<td>0920</td>
<td>MW-12</td>
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<td>11-4-2010</td>
<td>1000</td>
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<td>MW-2</td>
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<td>11-4-2010</td>
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<td>11-4-2010</td>
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<td>11-4-2010</td>
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<td>11-4-2010</td>
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**RECEIVED BY:**  
Signature: [Signature]  
Date: 11-5-10  
Time: 1700

**RECEIVED FOR LABORATORY BY:**  
Signature: [Signature]  
Date: 11-10-10  
Time: 1034  
CUSTODY INTACT: Yes  
NO: 0  
CUSTODY SEAL NO:  
SAVANNAH LOG NO: 1080- 
LABORATORY REMARKS: Temp 0.2
**Analysis Request and Chain of Custody Record**

**TestAmerica**
THE LEADER IN ENVIRONMENTAL TESTING

<table>
<thead>
<tr>
<th>Project Reference</th>
<th>Project No.</th>
<th>Project Location (State)</th>
<th>Matrix Type</th>
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<tbody>
<tr>
<td>UNC-Airport Rd.</td>
<td>NC000239.0018.00002</td>
<td>NC</td>
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<table>
<thead>
<tr>
<th>Tal (Lab) Project Manager</th>
<th>PO. Number</th>
<th>Contract No.</th>
<th>Required Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katay Smith</td>
<td></td>
<td></td>
<td></td>
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</table>

**Client (Site) Name**

<table>
<thead>
<tr>
<th>Alan Finnix</th>
<th>Client Phone</th>
<th>Client Fax</th>
<th>Client E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCADIS</td>
<td>919-854-1282</td>
<td></td>
<td><a href="mailto:a.pinnix@arcadis-us.com">a.pinnix@arcadis-us.com</a></td>
</tr>
</tbody>
</table>

**Client Address**

901 Corporate Center Dr., Ste. 800, Raleigh, NC 27607

**Company Contracting this Work (if applicable)**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Sample Identification</th>
<th>Composite (s) of Grab (g) Indicate</th>
<th>Aqueous (Water)</th>
<th>Solid or Semisolid</th>
<th>Nonaqueous Liquid or Solvent</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/5-2010</td>
<td>VER-1</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VER-2</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VER-3</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VER-4</td>
<td>X</td>
<td>X</td>
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<td>MW-16</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>0000</td>
<td>Trip Blank</td>
<td>X</td>
<td></td>
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<td></td>
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**Number of Containers Submitted**

<table>
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<th>Remarks</th>
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**Relinquished By:**

<table>
<thead>
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<th>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td></td>
<td>11-5-10</td>
<td>1700</td>
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**Received By:**

<table>
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<tr>
<th>Signature</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11/0110</td>
<td>1034</td>
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</table>

**Laboratory Use Only**

<table>
<thead>
<tr>
<th>Received for Laboratory By</th>
<th>Custody Intact</th>
<th>Custody Seal No.</th>
<th>Savannah Log No.</th>
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</thead>
<tbody>
<tr>
<td>Beth A. Daughtry</td>
<td>YES</td>
<td></td>
<td>680</td>
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</table>

**Laboratory Remarks**

Temp 0.2
### Login Sample ReMeM CheM Listc

Client: ARCADIS U.S., Inc.L  
Job Number: 680-62923-1L

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes/No</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radioactivity either Lab not measured or, if measured, IL at or below L background</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>The cooler/UCLody Leal, if preLent, IL intact.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>The cooler or Lample, do not appear to have been compromised or L tampered L oath.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Sample L ere rceived on ice.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is L acceptable.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is L recorded.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>COC is preLent.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>the Field Sampler/Unname preLent on COC?U</td>
<td>FailL</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the Lample IDL on the container L and the COC.L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Sample L are received within Holding Time L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Sample container L have legible labels L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Container L are not broken or leaking L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/time L are provided L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Appropriate Lample container L are used L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Sample bottle L are completely filled L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Sample Preservation Verified</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all require Led analyses L, incl. aby require Led L MS/MSDL</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>VOC L ample vial L do not have headspace or bubble L &lt;6mm (1/4&quot;) in L diameter L</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>In case L ary, all Laff have informed of aby th or hold time or quick T L ee dc</td>
<td>TrueL</td>
<td></td>
</tr>
<tr>
<td>Multiphasic Lample L are not preLent L</td>
<td>N/T</td>
<td></td>
</tr>
<tr>
<td>Sample L do not require lsplitting or compoLiting L</td>
<td>N/T</td>
<td></td>
</tr>
</tbody>
</table>
Appendix C

Laboratory Analytical Data Reports for Air Discharge Samples
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,

[Signature]

Alston Sykes, Principal Chemist

Attachments: GC/MS reports, COC forms
<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>COMPOUND</th>
<th>CONCENTRATION</th>
<th>UNITS</th>
<th>MDL and Reporting Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-71-8</td>
<td>Dichlorodifluoromethane (Freon 12)</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>76-14-2</td>
<td>1,2-Chloro-1,1,2,2-Tetrafluoroethane</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>74-87-3</td>
<td>Chloromethane</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>75-01-4</td>
<td>Vinyl chloride</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>106-99-0</td>
<td>1,3-Butadiene</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>74-83-9</td>
<td>Bromomethane</td>
<td>Below MDL</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>75-00-3</td>
<td>Chloroethane</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>75-69-4</td>
<td>Trichloromonomfluoromethane</td>
<td>0.60</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>75-35-4</td>
<td>1,1-dichloroethane</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>76-13-1</td>
<td>1,1,2-trichloro-1,2,2-trifluoroethane</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>75-15-0</td>
<td>Carbon disulfide</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>2.72</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>75-09-2</td>
<td>Methylene chloride</td>
<td>2.53</td>
<td>ppbv</td>
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</tr>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>2.86</td>
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<td>0.5</td>
</tr>
<tr>
<td>156-60-5</td>
<td>1,1,2-trichloroethane</td>
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<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>11-05-3</td>
<td>Hexane</td>
<td>Below MDL</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>1634-04-4</td>
<td>Methyl t-butyl ether (MTBE)</td>
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<td>ppbv</td>
<td>0.5</td>
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<tr>
<td>75-34-3</td>
<td>1,1-Dichloroethane</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
<tr>
<td>108-05-4</td>
<td>Vinyl acetal</td>
<td>2.49</td>
<td>ppbv</td>
<td>0.5</td>
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<tr>
<td>156-59-2</td>
<td>cis-1,2-dichloroethene</td>
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<td>ppbv</td>
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<tr>
<td>110-52-7</td>
<td>Cyclohexane</td>
<td>0.81</td>
<td>ppbv</td>
<td>0.5</td>
</tr>
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<td>67-66-3</td>
<td>Chloroform</td>
<td>4.07</td>
<td>ppbv</td>
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</tr>
<tr>
<td>141-78-6</td>
<td>Ethyl Acetate</td>
<td>Not Found</td>
<td>ppbv</td>
<td>0.5</td>
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<td>109-39-9</td>
<td>Tetrahydrofuran</td>
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<td>ppbv</td>
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<td>71-55-6</td>
<td>1,1,1-trichloroethane</td>
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<td>ppbv</td>
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<tr>
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<td>m/p-Xylene</td>
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<td>ppbv</td>
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<td>o-Xylene</td>
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<td>100-42-5</td>
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<tr>
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<td>87-88-3</td>
<td>1,1,2,3,4,4,6-hexachloro-1,3-butadiene</td>
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<tr>
<td>120-82-1</td>
<td>1,2,4-trichlorobenzene</td>
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## TENTATIVELY IDENTIFIED COMPOUNDS

### EPA Method TO-15

**Data File:** c:\varianws\wsdatafiles\voc060109\10-036-01.sms  
**Comment:** Arcadis; UNC Airport; 2/1/10; Air Stripper; 10mL; DF=50

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<thead>
<tr>
<th>CAS NO.</th>
<th>COMPOUND NAME</th>
<th>Retention Time</th>
<th>Estimated Concentration, ppbv</th>
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<td>5,6A,8,8A,14,14-b-Cholestane-3,</td>
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<td>66830-56-6</td>
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<td>104704-05-1</td>
<td>Trimethyl-1-buta-isoluteone</td>
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<td>22520-39-4</td>
<td>meso-3,4-Hexanediol</td>
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<td>105774-08-6</td>
<td>1,3,5-Triazine-2,4-diamine, 6-chloro-N,N</td>
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<td>118451-71-1</td>
<td>4-Bromo-4'-(1-ethoxybenzyl)oxy</td>
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<td>59422-92-7</td>
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<td>1714-14-3</td>
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(IS) is BFB Internal Standard and (SS) are Surrogate Standards that are added to each sample.

2/17/2010 11:33
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<th>UNITS</th>
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<td>ppbv</td>
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<tr>
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(IS) is BFB Internal Standard and (SS) are Surrogate Standards that are added to each sample.

2/17/2010 11:34
## Chain of Custody Record

**Client:** ARCADIS  
**Address:** 903 CORPORATE CENTER DRIVE  
**City:** RALEIGH  
**State:** NC  
**Zip Code:** 27607  
**Project Name:** UNC AIRPORT ROAD WASTE DISPOSAL AREA  
**Contract/Purchase Order No.:** NC000239.0000L  
**E-mail:** APINNIX@ARCADIS-US.COM  
**Fax Number:** (919) 854-5448

### Requested Analyses

- Air Samples
- Summa Canisters
- Vacuum or Pressure

<table>
<thead>
<tr>
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<th>Date Sampled</th>
<th>Time</th>
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<th>Preservatives</th>
<th>Field Containers</th>
<th>Lab Containers</th>
<th>RPM</th>
<th>FPM</th>
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### Turn Around Time Requested for Report:
- Business Days: *rush multiplier (X)*
  - 1 day (X)
  - 2 days (X)
  - 3 days (X)
  - 5 days (X)
- EPA Level IV for Compliance
- Data Pack: Std □ Full □ 1.1x surcharge
- QC Requirements: Screen □ Standard □
- Electronic Deliverable: □ 1.1x surcharge
- EPA Level IV for Compliance
- Samples approved OAPP sent to lab

### Refilled By:

**Date:** 2/11/10  
**Time:** 12:20
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,

[Signature]

Alston Sykes, Principal Chemist

Attachments: GC/MS reports, COC forms
### 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
106-89-0 | 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 | Trichloromethoxyfluoromethane | 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-1-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
156-69-2 | cis-1,2-dichloroethene | Not Found | ppbv | 1
110-82-7 | Cyclohexane | 2.39 | ppbv | 1
67-66-3 | Chloroform | 2.28 | ppbv | 1
141-78-6 | Ethyl Acetate | Not Found | ppbv | 1
103-01-9 | Tetrahydrofuran | 4.84 | ppbv | 1
71-65-6 | 1,1,1,1-Tetrachloroethane | Not Found | ppbv | 1
50-23-5 | 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
79-01-8 | Trichloroethylene | Not Found | ppbv | 1
75-87-5 | 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 (MBK) | Not Found | ppbv | 1
106-02-6 | 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
591-78-5 | 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
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79-34-5 | 1,1,2,2-Tetrachloroethane | Not Found | ppbv | 1
622-96-5 | 1-ethyl-4-methylbenzene | Not Found | ppbv | 1
105-87-9 | 1,3,5-trimethylbenzene | Not Found | ppbv | 1
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541-73-1 | 1,3-dichlorobenzene | Not Found | ppbv | 1
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87-88-3 | 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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<tr>
<th>CAS NO.</th>
<th>COMPOUND</th>
<th>CONCENTRATION</th>
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