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NCDENR
North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director | Division of Waste Management | Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

CERTIFIED MAIL

January 30, 2009

Mr. Carson Brice, Board President
Contemporary Art Foundation
P.O. Box 19609
Raleigh, NC 27619

Re: **NOTICE OF REGULATORY REQUIREMENTS FOR CONTAMINANT ASSESSMENT AND CLEANUP**
Contemporary Art Museum
409 West Martin St
Raleigh, Wake County, NC

Dear Mr. Brice:

Thank you for submitting the Notification of an Inactive Hazardous Substance and the Limited Groundwater and Vapor Intrusion Assessment for the above subject site (Site). The Branch has completed its review of both documents and determined that the Site can be cleaned up through the REC ("Registered Environmental Consultant") Program without direct oversight by Branch Staff.

Note that, if you have not already done so, you must take the initial abatement actions required under 15A NCAC 2L, Groundwater Classifications and Standards. Pursuant to 15A NCAC 2L .0106(b), any person conducting or controlling an activity which results in the discharge of a waste or hazardous substance to the groundwaters of the State, or in proximity thereto, shall take immediate action to terminate and control the discharge, and mitigate any hazards resulting from exposure to the pollutants. Pursuant to 15A NCAC 2L .0106(c), if groundwater standards have been exceeded, you must take immediate action to eliminate the source or sources of contamination. Beyond initial abatement actions, all assessment and remediation will be done through the Inactive Hazardous Sites Response Act ("IHSRA"), codified under N.C. Gen. Stat. § 130A-310.

Under the IHSRA, to receive approval of the assessment and clean up at the Site, you must enter into an administrative agreement with the Branch. Since the Branch has determined that the Site can be cleaned up through the REC Program, execution of an

REC-Administrative Agreement (AA) is required. The procedures for entering into an REC-AA are attached. If you have any questions regarding these procedures or the REC Program, please contact the REC Program Manager, Kim Caulk, at (919)508-8451 or visit the REC Program website at http://www.wastenotnc.org/SFHOME/recprog.htm.

If we do not receive a response from you within the next 60 days indicating your willingness to enter an REC-AA, the Branch will take further action to prioritize the Site. Failure to take the initial abatement steps required in 15A NCAC 2L may result in the assessment of a civil penalty against you. In addition, the Branch may seek an injunction compelling compliance with the initial abatement steps required in 15A NCAC 2L. For future work beyond the initial abatement steps required pursuant to 15A NCAC 2L, a unilateral Order may be issued pursuant to § 130A-310.3 to compel assessment and cleanup. In addition, if you choose not to conduct a cleanup voluntarily, the site may be referred to the United States Environmental Protection Agency ("EPA"). If so referred, EPA will screen the site for Federal enforcement action under the Federal Superfund Program, established under the Comprehensive Environmental Responsibility, Compensation, and Liability Act ("CERCLA").

If you have additional questions about the requirements that apply to your site, please contact me at (919) 508-8469.

Sincerely,

S. Wade Kirby, PE, PG Environmental Engineer II
Inactive Hazardous Sites Branch
Superfund Section

Enclosure: REC-AA Procedures

cc: Mark Brown, PG, LG, RSM, ECS w/enc
Jon Zellweger, Clearscapes, PA w/enc
Kim Caulk, NCDENR/DWM/SFS/IHSB w/o enc

Procedures for Obtaining a REC Administrative Agreement

To obtain a Registered Environmental Consultant (REC)-Administrative Agreement (AA), remediating parties (RPs) and RECs should use the following procedures:

1. Contact Kim Caulk, preferably by e-mail at Kim.Caulk@NCMail.net, and provide the following information for the site:

   - Site name, street address/location, city, and county;
   - Exact name of remediator;
   - Name, title, telephone number, e-mail address, & mailing address of the highest ranking official of the remediating party having day-to-day responsibility for the performance of the remedial response action;
   - Name, title, telephone number, e-mail address, & mailing address of any other contact person(s) and the proposed REC (if known) for the remedial response action;
   - Current property owner of the site.

2. Using the information above, a draft REC-AA will be prepared by the Branch and forwarded, preferably by e-mail, to the RP and any other specified representatives for review. The draft electronic version of the AA will be maintained by the Branch.

3. After the RP and/or REC confirms the information is satisfactory, the AA will be finalized by the Branch and an original, hardcopy of the final document will be mailed to the RP for signature. The RP should then mail the signed **original**, final AA to the REC for signature. The document should then be returned by mail to the Branch for execution. The Branch will forward a photocopy of the AA to the RP and REC following execution.

4. Before the AA can be executed, the following requirements must be completed:

   - A 30-day public notice for the proposed AA must be performed by the Branch in accordance with 130A-310.9(b). Note that this includes sites already undergoing groundwater remediation and previously under the oversight of the Division of Water Quality. To complete the required 30-day public notice, the proposed REC and/or the Remediating Party will need to submit, preferably by e-mail, a site location map (typically a tax map or parcel map) and the mailing addresses for each of the adjacent surrounding property owners. The reference/source of the submitted information should be included;
   - Pursuant to 15A NCAC 13C .0307(c), to participate in the REC Program, payment of a financial assurance fee must be received by the Branch. The fee for entry of the site into the REC Program is $2500. Checks should be made payable to NC Division of Waste Management and referenced to the REC Trust Fund. There will be a similar fee each year until remediation at the site is complete. The annual administration fee, which is to help offset the costs of the Division's audits of remedial actions, is based on the number of sites in the REC Program and in recent years has varied from approx. $1800 to $2500.

   The required public notice can begin while the AA is reviewed/finalized and the fees are processed.

Questions regarding these procedures and the REC Program should be directed to Kim Caulk at (919)508-8451 or Kim.Caulk@NCMail.net.

Rev. 12/12/2008

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

7008 0150 0000 3075 1953
MR CARSON BRICE - BOARD PRESIDENT
CONTEMPORARY ART FOUNDATION
POST OFFICE BOX 19609
RALEIGH NC 27619

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

☐ Agent
☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

Hannah M Tichell

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

NORTH HILLS STATION RALEIGH NC 27615 USPS

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☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

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WADE KIRBY
NCDENR/DWM/SUPERFUND/HSB
401 OBERLIN ROAD - SUITE 150
RALEIGH NC 27605

ECS CAROLINAS, LLP
Geotechnical • Construction Materials • Environmental

Mr. Jon Zellweger
Clearscapes, PA
311 W. Martin Street
Raleigh, North Carolina 27601

January 18, 2009

Reference: Limited Groundwater and Vapor Intrusion Assessment
Comtemporary Art Museum
409 West Martin Street
Raleigh, Wake County, North Carolina
ECS Project Number: 06.14939-C

Dear Mr. Zellweger:

ECS Carolinas, LLP (ECS) has performed a *Limited Groundwater and Vapor Intrusion Assessment* for the Contemporary Art Museum located at 409 West Martin Street in Raleigh, Wake County, North Carolina in general accordance with ECS Proposal Number 06:12558, dated November 18, 2008.

We sincerely appreciate the opportunity to be of service to Clearscapes, PA. We also provide a full compliment of environmental and engineering services including: soil and groundwater assessment; wetland delineation, mitigation, and permitting; stream restoration design and implementation; asbestos, lead, and mold surveys; subsurface and geotechnical investigation; construction materials testing and inspection; and project engineering and management. Additional information regarding ECS services can be viewed at our webpage located at www.ecslimited.com. We welcome an opportunity to offer these additional services to you.

If you have any questions regarding the information contained in this report or if you require additional services, please contact us at (919)-861-9910 or at smbrown@ecslimited.com.

Respectfully,
ECS Carolinas, LLP

Rohit Bali
Environmental Services Department Manager

Mark Brown, PG, LG, RSM,
Principal Geologist

Attachment: *Limited Groundwater and Vapor Intrusion Assessment Report*

I:_PROJECTS\T14000-T14999\14939-C CAM VI\GW ASSESSMENT\14939-C DFT RPT.doc

LIMITED GROUNDWATER
AND
VAPOR INTRUSTION ASSESSMENT

CONTEMPORARY ART MUSEUM
409 WEST MARTIN STREET
RALEIGH, WAKE COUNTY, NORTH CAROLINA

PREPARED FOR:

Clearscapes, PA
311 W. Martin Street
Raleigh, North Carolina 27601

PREPARED BY:

ECS CAROLINAS, LLP
9001 Glenwood Avenue
Raleigh, North Carolina 27617
Project Number 06.14939-C

January 18, 2009

1.0 TITLE PAGE

Site Name/Location:	Contemporary Art Museum 409 West Martin Street Raleigh, Wake County, North Carolina
Incident Number:	Pending
Date of Report:	January 18, 2009
Client:	Clearscapes, PA 311 W. Martin Street Raleigh, North Carolina 27601
Current Property Owner:	Contemporary Art Museum, Inc. P.O. Box 66 Raleigh, North Carolina 27602
Consultant:	ECS Carolinas, LLP (ECS) 9001 Glenwood Avenue Raleigh, North Carolina 27617 (919) 861-9910

Release Information:

Date Discovered:	March 2007
Latitude	N35° 46' 37"
Longitude	W78° 38' 43"
Estimated Quantity of Release	Unknown
Cause of Release	Unknown
Source of Release	Unknown

Rohit Bali
Environmental Services Department Manager

Mark Brown, LG, PG, RSM
Principal Geologist
NC License #1711

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2.0 INTRODUCTION

2.1 Purpose

This report presents the findings of a *Limited Groundwater and Vapor Intrusion Assessment* for the Contemporary Art Museum located at 409 West Martin Street in Raleigh, Wake County, North Carolina in general accordance with ECS Proposal Number 06:12558, dated November 18, 2008, to ascertain if groundwater beneath the building has been impacted by historical activities onsite, and if sub-slab volatile organic compound vapor concentrations are elevated.

2.2 Limitations/Qualifications

This report is an instrument of service of ECS. The report was prepared, and is intended, for the exclusive use of Clearscapes, PA. The report's contents may not be relied upon by any party other than Clearscapes, PA without the express written permission of ECS. The report's findings are based on conditions that existed on the dates of ECS's site visits and should not be relied upon to represent conditions at any other time.

The conclusions included in this report are based on: ECS's observation of existing site conditions; our interpretation of site history and site usage information; and the results of a limited program of subsurface assessment, sample screening, and chemical testing. The concentration of contaminants ECS measured may not be representative of conditions between locations sampled. Be aware that conditions may change at any sampled or unsampled location as a function of time in response to natural conditions, chemical reactions, and/or other events.

Conclusions about site conditions under no circumstances comprise a warranty that conditions within the site and beneath structures are of the same as those sampled. Recognize, too, that contamination might exist in forms not included in ECS's assessment.

The Scope of Service ECS implemented was based, in part, on rules and regulations that ECS understood to be current or expected at the time ECS developed its proposal. Changes in regulations, interpretations, and/or enforcement policies may occur at any time and such changes could affect the extent of remediation required.

Any additional information about this site that becomes available should be provided to ECS for its review, so ECS can modify its recommendations as necessary.

3.0 BACKGROUND INFORMATION

3.1 Site Description

The site is located at 409 West Martin Street in Raleigh, North Carolina (Figures 1, 2, and 3). According to information reviewed on the Wake County Online Parcel Identification Service, the site consists of one parcel, totaling approximately 0.6 acres, and has been assigned Parcel Identification Number (PIN) 1703-57-0886. The site is currently developed with one approximately 11,000-square foot building which was reportedly constructed in 1927. The Contemporary Art Museum, Inc. reportedly purchased the site in 1997.

As reported in a *Phase I Environmental Site Assessment (ESA) Report* prepared by Froehling and Robertson, Inc. (F&R) on June 27, 1997, the site was historically occupied by various businesses, including Brogden Produce Company (1931-1965), a furniture distribution company (1970-1980), Hunter Services, a bumper plating company (1983-1989) and Cal-Tone Paints (1992-1996). Hunter Services was reported as a hazardous waste generator by the North Carolina Department of Environment and Natural Services (NCDENR) – Division of Waste Management (DWM) - Hazardous Waste Section (Section). Between 1989 and 1990, Envirochem, an environmental remediation consultant, reportedly removed residual sludge and liquids from on-site storage containers as well as the elevator shaft, floors, walls and ceilings of the building. No clean-up activities were reported beneath the basement slab or outside the building. After the clean-up activities were complete, the Section de-listed the site as a hazardous waste generator.

One onsite underground storage tank (UST) was also reported in the *Phase I ESA Report*. According to information reported by F&R, the UST was reported to have a capacity of approximately 2,000 gallons, was used to store #2 fuel oil (heating oil), and was constructed of steel. The installation date of the UST is unknown but it was reportedly last used in 1966. Soil samples collected in the area of the UST by Aquaterra in 1996 reportedly did not indicate the presence of a release during field screening activities; however, those soil samples were apparently not submitted to a laboratory for analysis.

Additionally, F&R reported that a railroad spur, which appeared to be out-of-use for several years, was observed along the eastern side of the building. Additionally F&R reported that several potentially asbestos-containing materials (ACM) including, but not limited to, drop-in ceiling tiles, wall plaster, floor tiles, pipe insulation, and simulated rock panels were reportedly observed in the building during the site reconnaissance.

Based on the information reviewed, ECS proposed to collect soil samples in the vicinity of the UST, in the vicinity of the railroad spur, and beneath the onsite building basement slab. ECS also proposed to collect one groundwater sample in the vicinity of the UST and one groundwater sample adjacent to and downgradient of the building.

As reported in a *Phase II Environmental Site Assessment* (ECS Project No. 06.14939) prepared by ECS on April 18, 2007, twelve soil test borings (borings) (SB-1 through SB-12) and two temporary monitoring wells (wells) (TMW-1 and TMW-2) were advanced at the site to ascertain

if onsite soils and groundwater had been impacted by historical operations on the site property, including an onsite UST and out-of-use railroad spur.

Analytical testing of the four soil samples collected in the area of the UST did not detect gasoline range organics (GRO) or diesel range organics (DRO) at levels above their respective NCDENR-DWM action levels. Analytical testing of the four soil samples collected in the area of the railroad spur did not detect polychlorinated biphenyls (PCBs) at levels above their laboratory quantitation limits. Analytical testing of the one soil sample collected in the area of the railroad spur which exhibited elevated field readings did not detect GRO or DRO at levels above their respective NCDENR-DWM action levels. Analytical testing of the four soil samples collected from the basement of the building detected target analytes above their respective Section Soil Screening Levels (SSL). Five target analytes (benzene, ethyl benzene, 1,2,4-trimethylbenze, 1,3,5-trimethylbenzene, and total xylenes) were detected above their respective acceptance levels for disposal in a municipal solid waste landfill facility (MSWLF) in the soil sample collected from one boring (SB-12).

Analytical test results of the groundwater samples collected from the two temporary wells located outside of the building did not detect target analytes above their respective North Carolina Groundwater Quality Standards (2L Standards) promulgated under 15A NCAC 2L .0202.

Based on the information reviewed, ECS proposed to collect additional soil samples from beneath the building to delineate the extent of soil contamination. ECS also proposed that an additional soil sample be collected and analyzed for Total Metals and by toxic characteristic leachate procedure (TCLP) to determine if the soils could be disposed in a MSWLF. ECS also proposed to collect one additional groundwater sample to determine if groundwater beneath the building had been impacted.

On June 13, 2007, an ECS-provided subcontractor, Regional Probing, advanced 11 additional borings on the site using direct push technology and an electric core drill. The borings were advanced in the general area of SB-12, and also in each lateral direction from the first boring to determine the extent of the soil contamination. Boring locations (SB-13 through SB-23) are illustrated in Figure 4. Each boring was advanced to approximately four feet below the bottom of the concrete slab into the subgrade soils. The concrete slab varied in thickness from approximately 6 to 18 inches. Groundwater was encountered in borings SB-14 through SB-23 at approximately 3.5 feet beneath the bottom of the concrete slab. Boring SB-13 was advanced to approximately 12 feet beneath the bottom of the slab, where refusal was encountered. During boring advancement, the soils were dry to moist. Groundwater did eventually enter the borehole and was measured at 3.96 feet below ground surface (bgs).

Soil samples were collected at each boring in 2-foot intervals using 1-inch inner diameter (I.D.) stainless-steel sampling cores with dedicated polyvinyl chloride (PVC) sampling sleeves. At each interval, the collected soils were placed into two separate re-sealable plastic bags (aliquots). Vapor headspace was removed from one aliquot, which was then sealed and placed on ice. The second aliquot was left at air temperature and after approximately fifteen minutes volatile organic

compound (VOC) vapor concentrations were measured in the sample bag headspace using a photo ionization detector (PID).

Grab samples from five selected borings were containerized in laboratory-provided containers, labeled, and placed on ice for submittal to Environmental Conservation Laboratories, Inc. (ENCO), a State of North Carolina-certified laboratory. The five soil samples (SB-14, SB-17, SB-19, SB-20, and SB-23) were analyzed for VOCs and semi-volatile organic compounds (SVOCs) using EPA Methods 8260 and 8270, respectively. A sample from soil boring SB-13 was analyzed for metals using EPA Methods 6010/7470 and also by the TCLP process.

One temporary groundwater well (TMW-3) was installed using an electric core drill in the vicinity of the highest suspected soil contamination. The well was installed with 1-inch I.D. Schedule 40 PVC and constructed with 10 feet of screen and 2 feet of riser to a total depth of approximately 12 feet beneath the bottom of the concrete slab. .

After the well was installed and groundwater had stabilized, the depth to groundwater was measured. The well was then purged using a battery-operated peristaltic pump and utilizing a low-purge, low-flow methodology with dedicated tubing. As the well was being purged, interim groundwater samples were periodically collected, and field parameters were measured and recorded. Field parameter readings are provided in Appendix B, Table 3. After approximately five well volumes had been purged and the field parameters had stabilized, a groundwater sample was collected. The collected groundwater sample was immediately placed into laboratory-provided containers and placed on ice for submittal to ENCO for analysis of VOCs, SVOCs, and Total Metals using EPA Methods 6210, 625 and 6010/7470, respectively.

During the boring process, soils that exhibited VOC vapor concentrations below five parts per million (ppm) and did not exhibit other visual, textural, or olfactory indications of contamination were stock-piled onsite for use as backfill. Upon completion of sampling, the borings were backfilled with the stockpiled soil, the well was abandoned by a State of North Carolina-Certified Well Contractor, and the surface was restored.

3.2 Site Geology and Hydrogeology

A review of the 1988 United States Geological Survey (USGS) Topographic Map, Raleigh West, North Carolina Quadrangle (Figure 2), indicates that the site is located approximately 310 feet above mean sea level (MSL). The site is depicted to be located within an urban area of Raleigh, North Carolina. Railroad tracks are depicted approximately 250 feet west of the site, Central Prison is depicted approximately 1,500 feet to the west, and St. Mary's College is depicted approximately 2,000 feet to the northwest. Rocky Branch Stream is depicted approximately 2,900 feet southwest of the site. Although the site is generally flat, surface water runoff is expected to flow towards the south.

Geologically, the site is located in the Piedmont Physiographic Province (Piedmont) of North Carolina. The Piedmont is characterized by gently rolling topography, deeply weathered bedrock, and occasional outcrops. Rocks are strongly weathered in the Piedmont's humid climate and bedrock is generally buried under a thick (6 to 60 feet) blanket of saprolite. Outcrops are commonly restricted to stream valleys where saprolite has been removed by erosion. A variety of igneous and metamorphic rocks make up the bedrock of the Piedmont. Most of these rocks range in age from Proterozoic to Paleozoic and form the internal core of the ancient Appalachian mountain belt. Triassic sedimentary rocks, diabase dikes, and basalt flows are present in a number of basins that formed during the early stages of rifting associated with the opening of the Atlantic Ocean. Rivers and streams carrying sand, silt, and mud flowed into these lowland rift basins burying swamps and marshes, later producing small coal measures.

In general, shallow unconfined groundwater movement within the overlying soils is controlled largely by topographic gradients. However, as the groundwater percolates downward to the bedrock, it becomes controlled by the orientation of the rock fracture systems. Thus, the direction of groundwater movement may not be consistent with the reflecting topography. Recharge occurs primarily by infiltration along higher elevations and typically discharges into streams or other surface water bodies. The elevation of the shallow water-table is transient and can vary greatly with seasonal fluctuations in precipitation. Movement of groundwater under water-table conditions is generally from higher to lower elevations. As such, shallow groundwater would be expected to flow to the southwest beneath the site.

3.3 Current Use and Description of the Site

The site is currently developed with one approximately 11,000-square foot building. Currently the building is mostly vacant with a few offices occupying a small portion of the building. Public utilities of water, sewer, electricity, telephone, and natural gas service the property. One out-of-use UST which formerly contained heating oil is located on the northwestern portion of the property and one out-of-use railroad spur is located on the eastern portion.

3.4 Current Uses of the Adjoining Properties

The site is located in a commercial area of Raleigh, North Carolina. The site is bounded on the north by West Martin Street with warehouses and offices located further north; on the east by South Harrington Street with warehouses, condominiums, and offices located further east; on the south by a warehouse and railroad tracks; and, on the west by South West Street with warehouses, retail spaces, and offices located further west.

4.0 SCOPE OF WORK

4.1 Preliminary Activities

A Health and Safety Plan (HASP) is required by federal law before beginning exploratory work on an environmental site. ECS prepared an HASP for this project on March 12, 2007. The HASP did not cover others for which ECS was not responsible and is available for review upon request.

Prior to commencing work, ECS contacted the public utility locator service, North Carolina One-Call Center (NC One-Call), to request that utilities be marked prior to performing exploratory work. NC One-Call then contacted the utility companies which might have utilities located in the vicinity of the project site. Normally, this includes water, gas, sewer, electrical power, telephone, and cable and the individual companies mark their utilities using spray paint but only to the meter. It was the client's responsibility to identify other utilities.

ECS requested that the client notify us of known utilities possible located on-site, particularly those utilities beyond the meter or private utilities not identified by NC One-Call. ECS used a plat prepared by Al Prince & Associates, P.A. on February 7, 2007 which outlined the utilities located on the subject property.

4.2 Limited Soil and Groundwater Sampling

On December 19, 2009 ECS representatives and subcontracted State of North Carolina Certified Well Contractors returned to the site to install three additional temporary wells to intersect the static water table, collect representative samples, determine groundwater flow direction and potentially delineate the area of impacted groundwater beneath the building, if detected. The first well, advanced in the general area of SB-12, was inadvertently identified as TMW-3, a well number used in a previous assessment. However, for the purposes of this report, references to TMW-3, refer to the well installed during this assessment. The second well (TMW-4) was advanced in the general area of SB-16 in the southeastern corner of the structure and well TMW-5 was advanced in the southwestern end of the building adjacent to, and west of, a north-south-trending wall. Wells TMW-4 and TMW-5 were located downgradient and/or crossgradient to the TMW-3 to "triangulate" static groundwater levels measured in each well.

To gain access to groundwater beneath the building, ECS subcontractors used an electric core drill equipped with a water-cooled, four-inch diameter diamond-bit core barrel. Once the slab had been penetrated, the borings were advanced beneath the concrete slab via decontaminated stainless steel hand augers (augers) to intersect the static water table located beneath the slab. The concrete slab varied in thickness from six inches at TMW-4 to eight inches at TMW-3. Heavily stained soil was encountered immediately beneath the slab in boring TMW-3; #5 sub-rounded, washed aggregate was encountered immediately beneath the slab in boring TMW-5. In boring TMW-4, ECS encountered a four-inch thick cork layer beneath the six-inch thick slab followed by a second five-inch thick concrete slab. This construction sequence was reportedly

was concrete stained?

designed to historically provide insulation in refrigerated rooms. Additionally, auger refusal was encountered approximately three feet below the top of the initial slab and, since the static water table had been intersected, the boring was terminated. Our scientists logged the borings and screened the soil samples with a PID.

Because PID readings and odors in the ambient air immediately surrounding the top of the borehole were elevated during boring advancement, ECS collected soil samples in one-foot intervals in each borehole. At each interval, the collected soils were placed into re-sealable plastic bags (aliquots) and left at air temperature to volatilize. After approximately fifteen minutes VOC vapor concentrations were measured in the sample bag headspace using a PID. Field screening results are provided in Table 1.

The aliquot with the highest VOC detection or physical, visible, or olfactory indications of contamination was containerized in laboratory-provided containers, labeled, and placed on ice for submittal to Environmental Service Corporation (ESC) a State of North Carolina-certified laboratory. The three soil samples were analyzed for VOCs, SVOCs, and Total Metals using EPA Methods 6210, 625 and 6010/7470, respectively. Since TMW-3 was located relatively near to boring SB-12, a soil sample was not submitted.

why not 8260/8270

After soil samples were containerized, the wells were constructed with 2-inch inside diameter (ID) Schedule 40 PVC 0.010 machine-slotted screen and sufficient riser to bring the wells above the top of the slab. After the wells were installed and groundwater stabilized, the depth to groundwater was measured with an electronic water level indicator. The wells were then purged a minimum of three well volumes each and sampled using disposable, dedicated polyethylene bailers.

Groundwater samples were collected in laboratory-supplied containers, labeled, stored on ice, and delivered using standard chain-of-custody techniques to ESC for analysis of VOCs, SVOCs and Total Metals by EPA Methods 610, 625, and 6010/7040, respectively. Upon completion of the groundwater sampling activities, the temporary monitoring wells were abandoned by a State of North Carolina-Certified Well Contractor.

4.3 Vapor Intrusion Sampling

Vapor intrusion is defined as the vapor phase migration of VOCs into occupied structures from underlying contaminated soils and/or groundwater. When used in conjunction with indoor air, outdoor air, and soil and groundwater sampling, sub-slab vapor intrusion (VI) assessment can be used to differentiate indoor and outdoor sources of VOCs from compounds emanating from contaminated subsurface media. This information can then be used to assess the need for sub-slab depressurization or other risk-reduction technologies to reduce present or potential future indoor air contamination due to VI.

ECS was asked to conduct VI sub-slab sampling in response to elevated levels of benzenes and xylenes reported in soil samples during the referenced Phase II ESA. The assessment was

performed on November 9, 2008. The purpose of the assessment was to measure the level of total VOC vapor concentrations potentially present beneath the slab in four areas of the basement. ECS installed four sub-slab vapor probes at locations presented on Figure 7. The sample locations were based on the previously-referenced Phase II sampling, the existing site plan, and proposed future site plans for the basement. The fourth sample was collected as a background (comparison) sample from an area assumed to be un-impacted.

A rotary hammer drill was used to bore small diameter (pilot) holes through the concrete into the subgrade material. A larger drill bit was used to "ream" the pilot holes several inches into the slab to house a flush-mounted stainless-steel probe. After inserting the probe, quick-dry cement grout was poured into the annular space to seal the hole and support the probe vertically. Samples were collected via dedicated tubing into Summa canisters or "Tedlar" bags depending on the anticipated VOC level and sample location. Sample collection time was approximately 60 minutes, which is required to achieve the desired Limit of Detection (LOD).

Analysis was conducted by EMSL Analytical Laboratories, located in Weston, New Jersey using NIOSH Method TO-15 (Gas Chromatography/Mass Spectrometry) (TVOC). Results were reported as total VOCs and were compared to applicable EPA Screening Recommendations concerning indoor VOC concentrations.

Sample data was entered on Chain of Custody forms, and shipped overnight, via Federal Express to the laboratory. Copies of the Field Sample Data Sheets, Chain of Custody Forms, and laboratory reports are included in Appendix D; EPA Regional Screening (Comparison) Tables are presented in Appendix E..

5.0 ANALYTICAL RESULTS

5.1 Limited Soil Sample Analysis

Analytical testing results of the two soil samples collected from TMW-4 and TMW-5 are summarized on Tables 3 and 4. Elevated levels of benzo(a)anthracene and benzo(b)fluoranthene were detected sample TMW-4. Additionally, elevated levels of cadmium, chromium and mercury were detected in TMW-4; cadmium was detected at an elevated level in TMW-5. These contaminants could be attributed to activities historically performed in the structure.

5.2 Limited Groundwater Sample Analysis

Benzene SWK

Analytical testing results of the groundwater samples collected from TMW-3 contained elevated levels of benzene, ethylbenzene, and napthalene. Although detected, levels of other target analytes for this assessment were not elevated above representative North Carolina Groundwater Quality Standards (2L Standard) in TMW-4 or TMW-5. Naphthalene was detected at a level of 14,000 ppb which is well above its representative 2L Standard of 1 ppb. Ethylbenzene was detected at a level of 880 ppb which is above its representative 2L Standard of 29 ppb. Naphthalene was detected at a level of 540 ppb which is above its representative 2L Standard of 21 ppb. .

5.3 Vapor Intrusion

Based on an analysis of the sampling results, indoor air quality within the building and vapor levels within the soil appear to be elevated above the levels recommended by EPA for n-Hexane, 2-Butanone, cyclo-hexane, and benzene. These levels were all detected above the EPA Regional Screening Levels

6.0 FINDINGS

ECS has performed limited soil, groundwater and vapor intrusion assessment activities within the Contemporary Art Museum located at 409 West Martin Street in Raleigh, Wake County, North Carolina. Analytical testing of the two soil samples collected have extended the approximate boundary of impacted soils. Analytical testing of the three groundwater samples also indicated the presence of impacted groundwater beneath the building. Extremely elevated levels of benzene, ethylbenzene, and napthalene were detected in groundwater beneath the building during this event. Vapor intrusion assessment also indicated elevated levels of VOCs beneath the slab.

Since the Inactive Hazardous Sites Branch has jurisdiction of sites containing detected contamination of unknown or co-mingled sources, ECS recommends that additional discussions be held with representatives of the Contemporary Art Museum and the Inactive Hazardous Sites Branch to determine to what extent additional assessment, remediation, and/or clean up is required.

7.0 REFERENCES

American Society for Testing and Materials, *Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process,* ASTM Designation: E 1903-97 (Reapproved 2002).

ECS Carolinas, LLP, April 18, 2007, *Limited Phase II Environmental Site Assessment: Contemporary Art Museum, 409 West Martin Street, Raleigh, North Carolina.*

ECS Carolinas, LLP, December 19, 2007, *Soil Delineation: Contemporary Art Museum, 409 West Martin Street, Raleigh, North Carolina.*

Froehling & Robertson, Inc., June 24, 1997, *Phase I Environmental Site Assessment: 409 West Martin Street, Raleigh, North Carolina.*

Microsoft MapPoint North America, 2004, *409 West Martin Street, Raleigh, North Carolina.*

North Carolina Administrative Code Title 15A Department of Environment and Natural Resources Division of Water Quality, December 1, 2005, *Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina.*

North Carolina Geological Survey, 1985, *Geologic Map of North Carolina.*

North Carolina Department of Environment and Natural Resources, Division of Waste Management, Hazardous Waste Section, July 26, 2002, *Generator Closure Guidelines.*

North Carolina Hazardous Waste Section, March 2004, *"Contained-in" Policy for Soil Contaminated with Listed Hazardous Waste.*

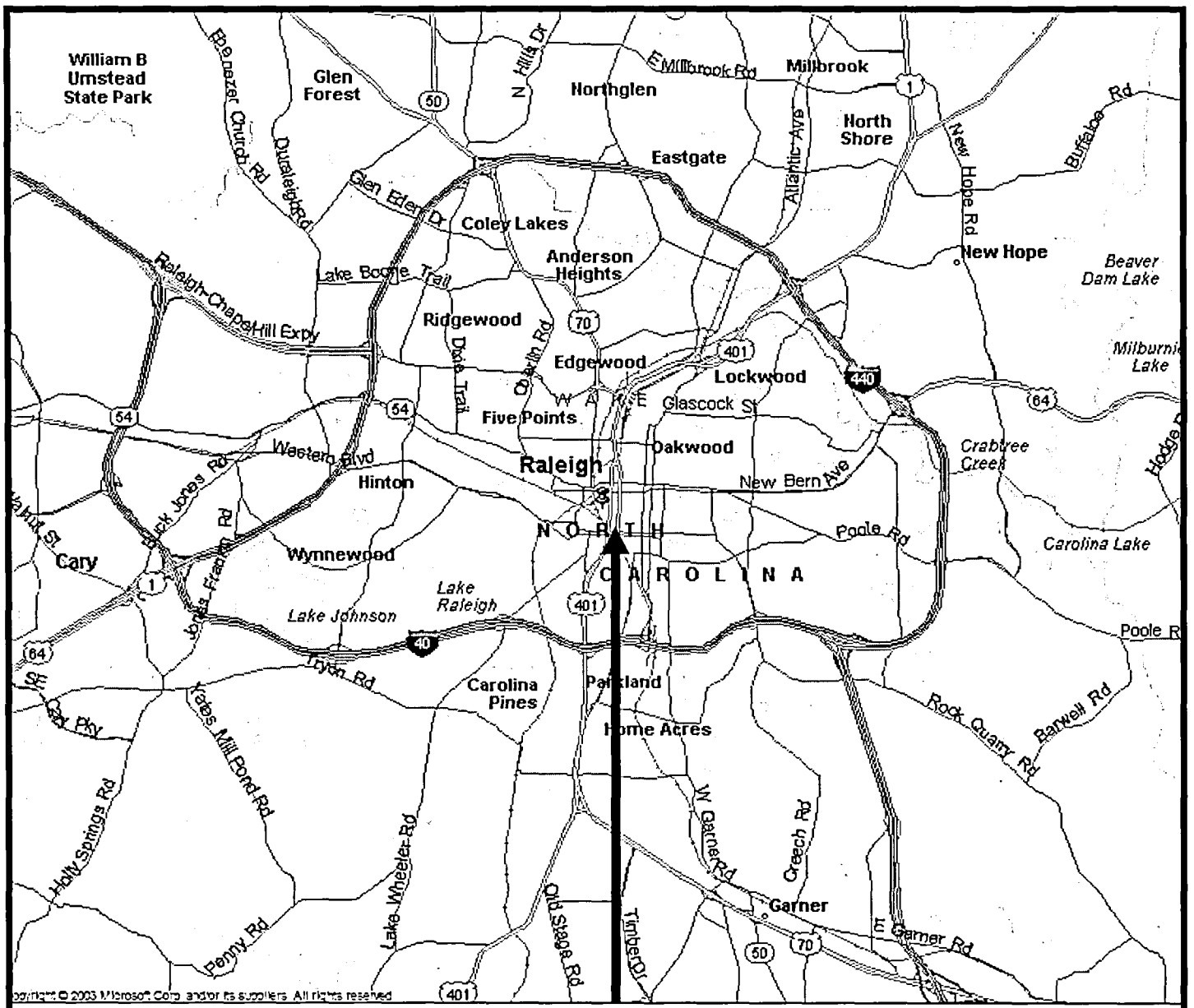
State of North Carolina Department of Environment and Natural Resources Division of Waste Management UST Section, September 2003 *Guidelines for Tank Closure: North Carolina Underground Storage Tank Section.*

United States Geological Survey Topographic Map 1988, 7.5 minute series, *Raleigh West Quadrangle,* scale 1:24,000, U.S. Geological Survey, Denver, Colorado.

Wake County Online GIS, Aerial Photograph Dated 2005.

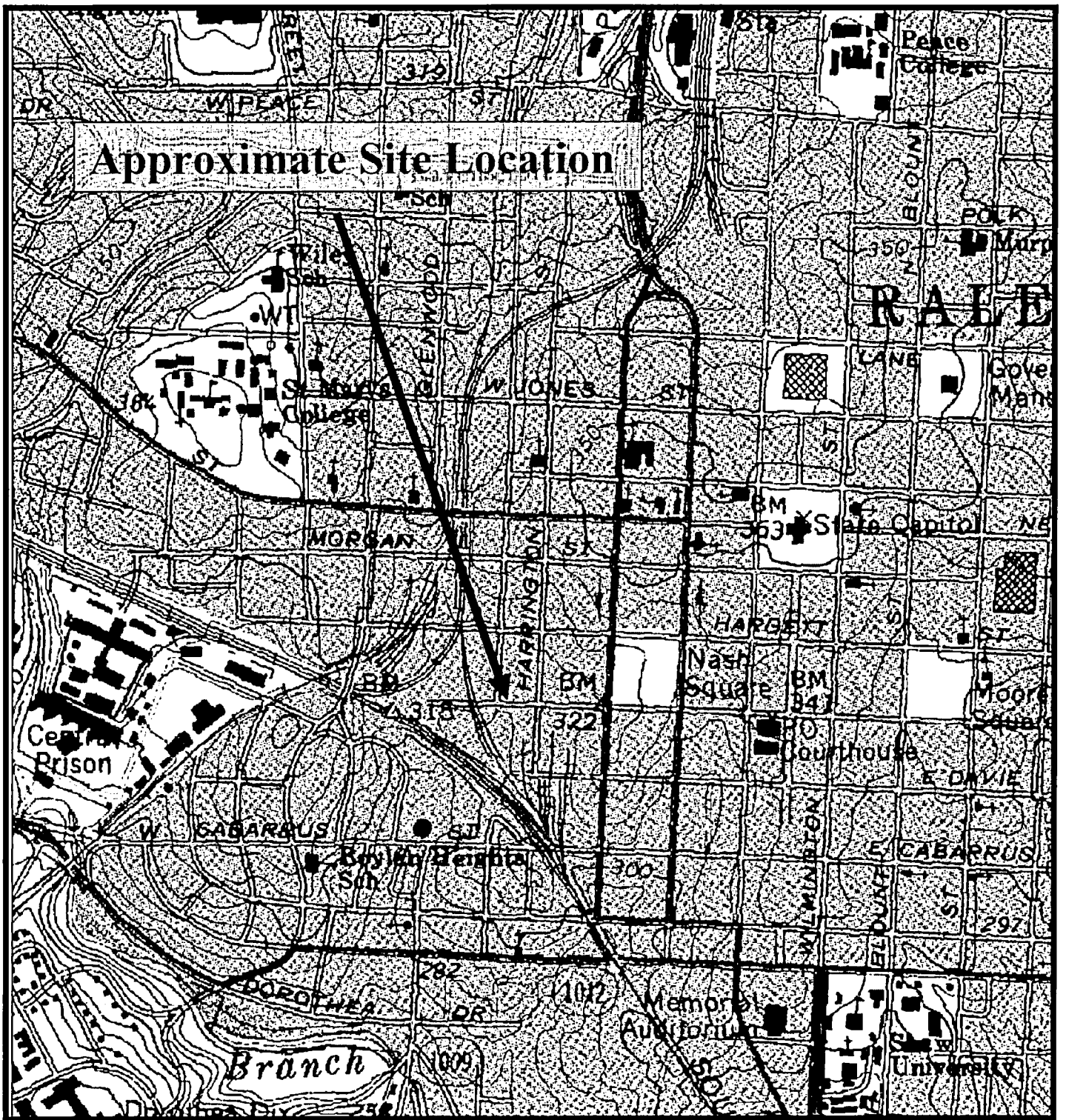
APPENDIX A

FIGURES

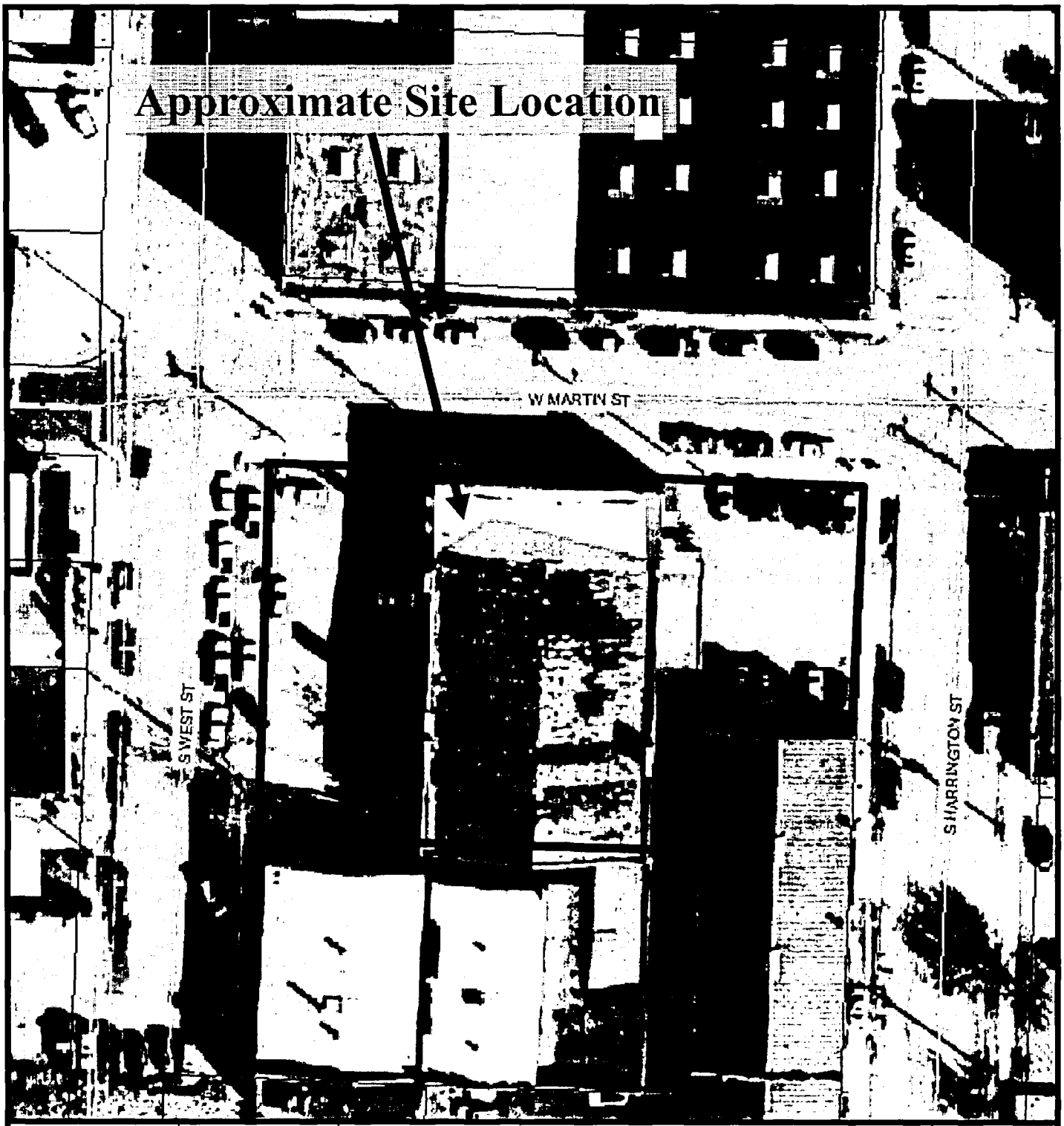


Approximate Site Location

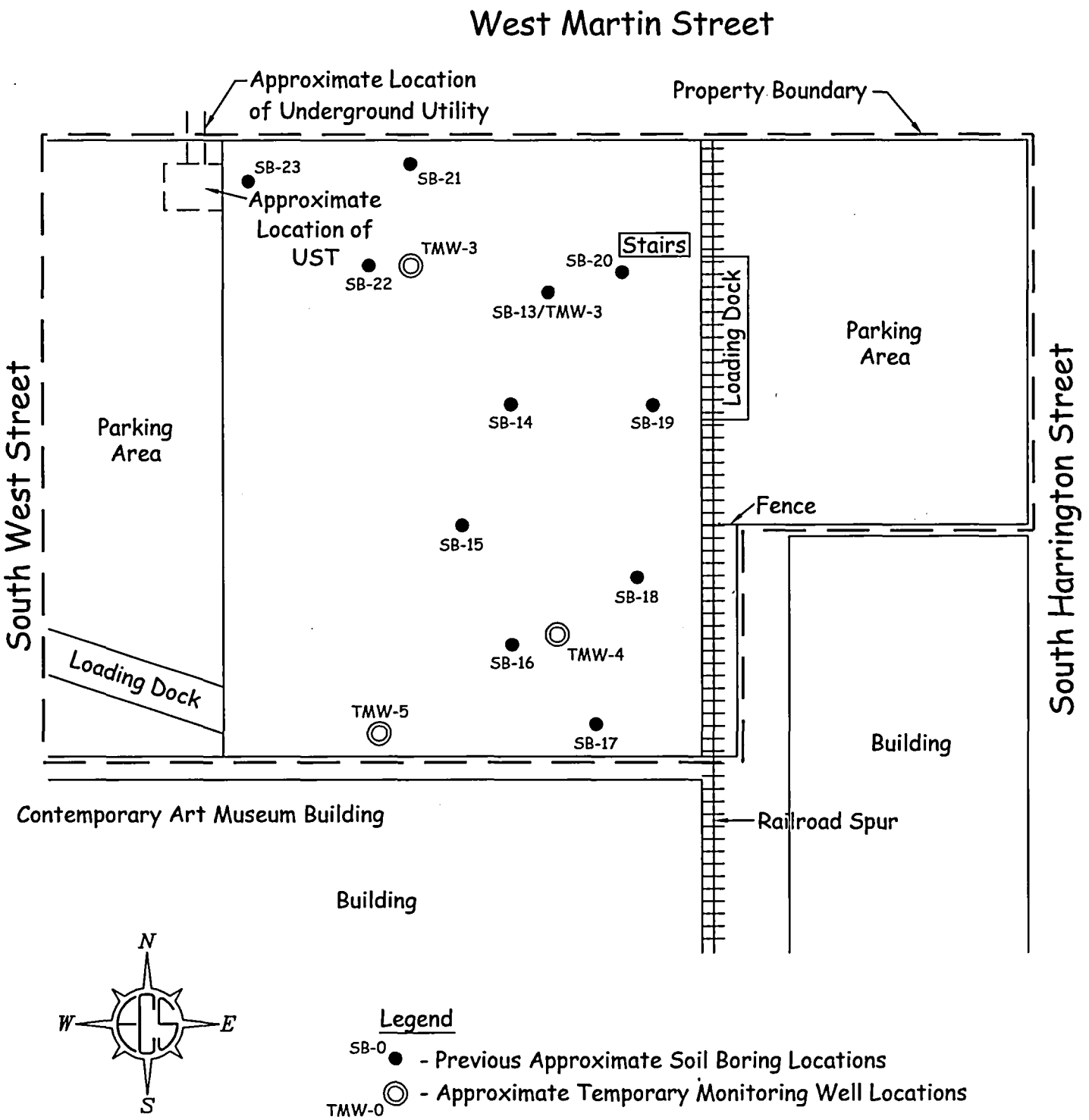
ECS LLP CAROLINAS	N W E S Not to Scale	Vicinity Map 2004 Microsoft Map Point	**Figure No.** 1
		Soil Delineation Contemporary Art Museum 409 West Martin Street Raleigh, Wake County, North Carolina	**ECS Project #** 14939-B



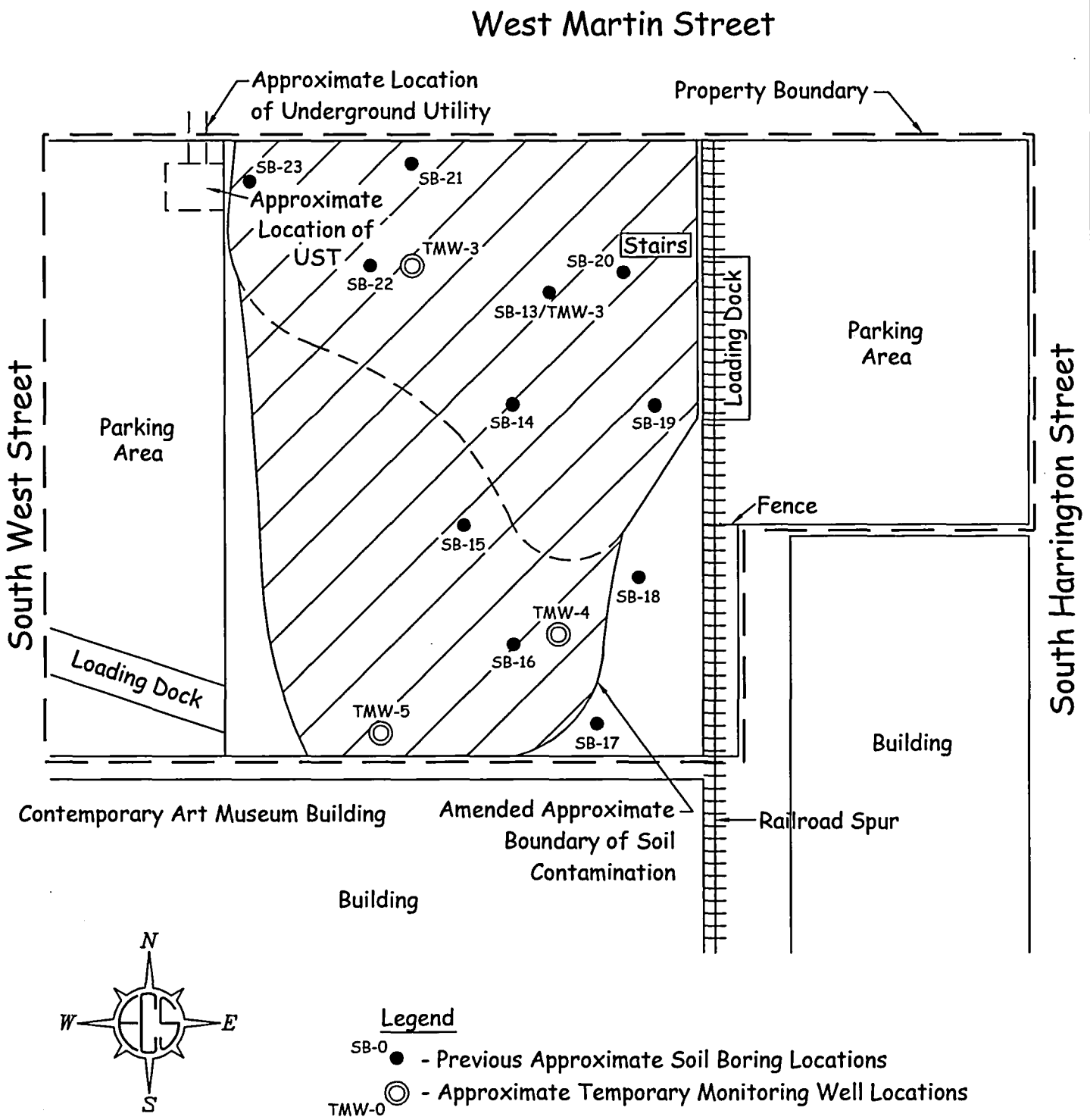
ECS LLP CAROLINAS	N W E S Approx. Scale: 1:12,000	Topographic Map USGS 7.5-Minute Series Raleigh West, North Carolina Quadrangle, 1988	**Figure No.** 2
		Soil Delineation Contemporary Art Museum 409 West Martin Road Raleigh, Wake County, North Carolina	**ECS Project #** 14939-B



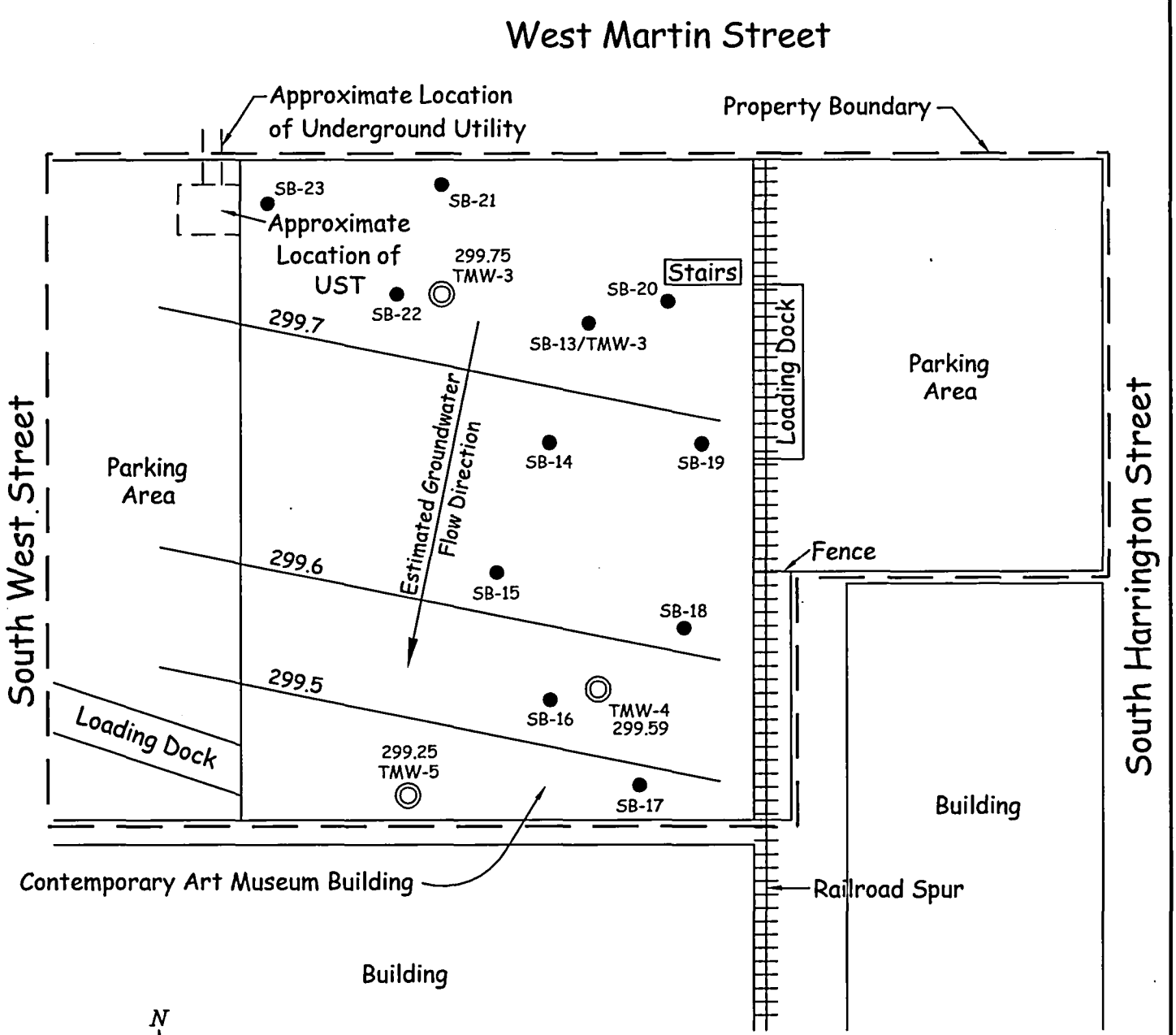
ECS LLP CAROLINAS	N W E S Not to Scale	Site Location Map 2005 Aerial Photo Wake County Online GIS	**Figure No.** 3
		Soil Delineation Contemporary Art Museum 409 West Martin Street Raleigh, Wake County, North Carolina	**ECS Project #** 14939-B



Temporary Monitoring Well Locations	ECS LLP CAROLINAS SETTING THE STANDARD FOR SERVICE	**Contemporary Art Museum 409 West Martin Street Raleigh, Wake County, NC**	ENGINEER SMB	SCALE 1"=30'
			DRAFTSMAN DAH	PROJECT NO. 14939-C
			REVISIONS	SHEET Figure 4
				DATE 01-18-09



Approximate Soil Contamination Delineation	ECS LLP CAROLINAS SETTING THE STANDARD FOR SERVICE	**Contemporary Art Museum 409 West Martin Street Raleigh, Wake County, NC**	ENGINEER SMB	SCALE 1"=30'
			DRAFTSMAN DAH	PROJECT NO. 14939-C
			REVISIONS	SHEET Figure 5
				DATE 01-18-09



Legend

SB-0 ● - Previous Approximate Soil Boring Locations

TMW-0 ◎ - Approximate Temporary Monitoring Well Locations

299.0 - Approximate Static Groundwater Elevation

Approximate Groundwater Flow Direction	ECS LLP CAROLINAS SETTING THE STANDARD FOR SERVICE	**Contemporary Art Museum 409 West Martin Street Raleigh, Wake County, NC**	ENGINEER SMB DRAFTSMAN DAH REVISIONS	SCALE 1"=30' PROJECT NO. 14939-C SHEET Figure 6 DATE 01-18-09

APPENDIX B

TABLES

TABLE 1
SUMMARY OF FIELD PID READINGS

Date: December 19, 2008
Project Name: Contemporary Art Museum
ECS Project Number: 06.14939-C

	VOC Vapor Concentration* (ppm)							
Boring Number	**0-1 ft bgs**	**1-2 ft bgs**	**2-3 ft bgs**	**3-4 ft bgs**	**4-5 ft bgs**	**5-6 ft bgs**	**6-7 ft bgs**	**Total Depth (ft bgs)****
TMW-3	20.5	45.0	1000+	1000+	NS	NS	NS	7
TMW-4	3.8	23.9	NS	NS	NS	NS	NS	3
TMW-5	3.2	5.5	NS	NS	NS	NS	NS	5.25

bgs - below ground surface

ppm - parts per million

NS - not sampled; beneath static water table

*Volatile Organic Compounds (VOC) screened in the field using an Photoionization Detector (PID)

VOC concentrations listed above are not laboratory confirmed and should only be used as a guide and not as the true Concentrations of VOCs in the soils collected from the represented sample collection.

**depth is below concrete slab

TABLE 2
MONITORING WELL CONSTRUCTION INFORMATION

Date: December 19, 2008
Project Name: Contemporary Art Museum
ECS Project Number: 06.14939-C

Well ID	Date Installed	Date Abandoned	Date Water Level Measured	Well Casing Depth (ft BGS)	Screened Interval (ft BGS)	Bottom of Well (ft BGS)	Depth to Water (ft BGS)
TWM-3	12/17/2008	12/17/2008	12/17/2008	0	0-7	7	2.88
TWM-4	12/17/2008	12/17/2008	12/17/2008	0	0-3	3	1.45
TWM-5	12/17/2008	12/17/2008	12/17/2008	0	0-5.25	5.25	1.26

BGS = below ground surface (basement concrete slab)

TABLE 3
SUMMARY OF SOIL SAMPLING RESULTS

Date: December 19, 2008
Project Name: Contemporary Art Museum
ECS Project Number: 06.14939-C

		Analytical Method	8260	8260	8260	8270	8270	8270	8270	8270	8270	8270
		Target Analyte	Acetone	p-Isopropylbenzene	All Other Parameters	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Chrysene	Fluoranthene	Pyrene	All Other Parameters
Sample ID	**Date Collected**	**Sample Depth (ft)**										
TMW-4	12/17/2008	0-1	0.88	0.014	BQL	**0.620**	0.510	**0.700**	0.480	0.990	1.500	BQL
TMW-5	12/17/2008	0-1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
NC HWS SSL (ppm)			2.8	1.7	-	0.343	0.062	0.62	38	280	290	-
IHSB RGs			2800	414		0.022	0.022	0.22	22	460	460	
Levels for Disposal in MSWLF (ppm)			1,400	140	-	NA	NA	2.1	210	560	420	-
NCDENR-DWM Action Levels (ppm)			-	-	-	-	-	-	-	-	-	-

Bold indicates results above regulatory limits
ppm = parts per million
NC HWS SSL = North Carolina Hazardous Waste Section Soil Screening Levels
NCDENR-DWM = North Carolina Deparment of Natural Resources - Division of Waste Management
IHSB RGs = Inactive Hazardous Sites Branch Remediation Goals
BQL = Below Quantitation Limits (Method Detection Limits)
*depth is below concrete slab
NE = Not Established

TABLE 4
SUMMARY OF SOIL SAMPLING RESULTS FOR METALS

Date: December 19, 2008
Project Name: Contemporary Art Museum
ECS Project Number: 06.14939-C

		Analytical Method	6010	6010	6010	6010	6010	7040	6010	6010
		Target Analyte	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Sample ID	Date Collected	Sample Depth (ft)								
TMW-4	12/17/2008	0-1	BQL	150.00	**1.70**	**42.00**	100.00	**0.59**	BQL	BQL
TMW-5	12/17/2008	0-1	BQL	160.00	**1.30**	16.00	14.00	BQL	BQL	BQL
NC HWS SSL (ppm)			0.39	850	0.95	27	270	0.015	12	0.22
IHSB RGs (ppm)			4.4	NE	NE	44	400	4.6	78	78
Levels for Disposal in MSWLF (ppm)			100	2,000	20	100	100	4	20	100
Leachate Value (ppm)			<5	<100	<1	<5	<5	<0.2	<1	<5

3,000 140 46 1.3 lowest value

ppm = parts per million
NC HWS SSL = North Carolina Hazardous Waste Section Soil Screening Levels
NCDENR-DWM = North Carolina Deparment of Natural Resources - Division of Waste Management
HIS RGs = Inactive Hazardous Sites Branch Remediation Goals
BQL = Below Quantitation Limits (Method Detection Limits)
TCLP - Toxicity Characteristic Leaching Proceedure
NE = Not Established

Protection of GW

As	BA	Cd	Cr	Pb	Hg	Se	Ag
26.2	848	0.95	27.2	270	0.015	12.2	0.21

TABLE 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Date: December 19, 2008
Project Name: Contemporary Art Muse
ECS Project Number: 06.14939-C

		Analytical Method	6210	6210	6210	6210	6210	6210	625	625	625	6010	6010	6010	7040
	Target Analytes														
Sample ID	**Date Collected**	**Depth to Water (ft)**	Benzene	cis-1,2-Dichloroethene	Ethybenzene	Napthalene	Total Xylenes	All Other Parameters	Naphthalene	Phenol	All Other Parameters	Barium	Chromium	Lead	Mercury
TMW-3	12/17/2008	2.88	**14000**		**880**	**540**	280	BQL	**170**	22	BQL	840		25	
TMW-4	12/17/2008	1.45	?	1	>0?	0?	?	BQL	?	?	BQL	80	22	130	0.31
TMW-5	12/17/2008	1.26	?	1	>0?	0?	?	BQL	?	?	BQL	58			
NCAC 2L Standard (ppb)			1	70	29	21	530	-	21	300	-	2,000	50	15	1
NCDENR GCL (ppb)			5,000	70,000	29,000	15,500	87,500	-	15,500	300,000	-	2,000,000	50000	15000	NE

Bold indicates results above NCAC 2L Standard
NCAC 2L = North Carolina groundwater standards under 15A NCAC 2L.0202
NCDENR GCL = North Carolina Department of Environment and Natural Resources Gross Contamination Level
ppb = parts per billion
BQL = Below Quantitation Limit
J = an estimated value (result was between the Method Detection Limit and the Reporting Limit)
NA = Not Analyzed
D = this analysis was run at a diluted level; value is valid
NE = Not Established

Compound		Location	Results (VI sampling)	EPA Regional Screening Limits		
			ug/m^3	Inhalation ug/m^3		
Ethanol		1	8.90E+03	N/A		
Acetone		1	7.00E+02	3.20E+04		
TBA		1	8.20E+02	N/A		
2- Butanone (MEK)		**1**	**2.50E+01**	**5.20E+03**	**Non Cancer Hazard**	
TBA		2	3.10E+01	N/A		
n-Hexane		**2**	**4.00E+03**	**7.10E-01**		
Cyclohexane		**2**	**1.40E+03**	**6.00E+00**		
n-Heptane		2	1.30E+03	N/A		
Benzene		**2**	**4.60E+02**	**3.10E-01**	**Carcinogenic**	
Xylene (para& meta)		2	2.80E+01	7.30E+02		
Ethanol		3	3.70E+02	N/A		
TBA		3	3.20E+01	N/A		
n-Hexane		**3**	**1.10E+03**	**7.10E-01**		
Cyclohexane		**3**	**3.60E+02**	**6.00E+00**		
n-Heptane		3	2.70E+02	N/A		
Benzene		**3**	**7.40E+01**	**3.10E-01**	**Carcinogenic**	
Ethanol		4	7.80E+01	N/A		
n-Hexane		**4**	**1.70E+02**	**7.10E-01**		
Cyclohexane		**4**	**4.90E+01**	**6.00E+00**		
n-Heptane		4	3.90E+01	N/A		
Benzene		**4**	**1.90E+01**	**3.10E-01**	**Carcinogenic**	
BOLD= Eceeds EPA Regional Screening Levels						

APPENDIX C

ANALYTICAL RESULTS, CHAIN OF CUSTODY

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Est. 1970

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave

Raleigh, NC 27617-7505

Report Summary

Wednesday December 24, 2008

Report Number: L380382
Samples Received: 12/19/08
Client Project: 14939-C

Description: CAM

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Alan Harvill
T. Alan Harvill, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-01

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-3

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	12/23/08	1
Arsenic	BDL	20.	ug/l	6010B	12/23/08	1
Barium	840	5.0	ug/l	6010B	12/23/08	1
Cadmium	BDL	5.0	ug/l	6010B	12/23/08	1
Chromium	BDL	10.	ug/l	6010B	12/23/08	1
Lead	25.	5.0	ug/l	6010B	12/23/08	1
Selenium	BDL	20.	ug/l	6010B	12/23/08	1
Silver	BDL	10.	ug/l	6010B	12/23/08	1
Volatile Organics						
Acetone	BDL	5000	ug/l	6210D	12/19/08	100
Acrolein	BDL	5000	ug/l	6210D	12/19/08	100
Acrylonitrile	BDL	1000	ug/l	6210D	12/19/08	100
Benzene	14000	100	ug/l	6210D	12/19/08	100
Bromobenzene	BDL	100	ug/l	6210D	12/19/08	100
Bromodichloromethane	BDL	100	ug/l	6210D	12/19/08	100
Bromoform	BDL	100	ug/l	6210D	12/19/08	100
Bromomethane	BDL	500	ug/l	6210D	12/19/08	100
n-Butylbenzene	BDL	100	ug/l	6210D	12/19/08	100
sec-Butylbenzene	BDL	100	ug/l	6210D	12/19/08	100
tert-Butylbenzene	BDL	100	ug/l	6210D	12/19/08	100
Carbon tetrachloride	BDL	100	ug/l	6210D	12/19/08	100
Chlorobenzene	BDL	100	ug/l	6210D	12/19/08	100
Chlorodibromomethane	BDL	100	ug/l	6210D	12/19/08	100
Chloroethane	BDL	500	ug/l	6210D	12/19/08	100
Chloroform	BDL	500	ug/l	6210D	12/19/08	100
Chloromethane	BDL	250	ug/l	6210D	12/19/08	100
2-Chlorotoluene	BDL	100	ug/l	6210D	12/19/08	100
4-Chlorotoluene	BDL	100	ug/l	6210D	12/19/08	100
1,2-Dibromo-3-Chloropropane	BDL	500	ug/l	6210D	12/19/08	100
1,2-Dibromoethane	BDL	100	ug/l	6210D	12/19/08	100
Dibromomethane	BDL	100	ug/l	6210D	12/19/08	100
1,2-Dichlorobenzene	BDL	100	ug/l	6210D	12/19/08	100
1,3-Dichlorobenzene	BDL	100	ug/l	6210D	12/19/08	100
1,4-Dichlorobenzene	BDL	100	ug/l	6210D	12/19/08	100
Dichlorodifluoromethane	BDL	500	ug/l	6210D	12/19/08	100
1,1-Dichloroethane	BDL	100	ug/l	6210D	12/19/08	100
1,2-Dichloroethane	BDL	100	ug/l	6210D	12/19/08	100
1,1-Dichloroethene	BDL	100	ug/l	6210D	12/19/08	100
cis-1,2-Dichloroethene	BDL	100	ug/l	6210D	12/19/08	100
trans-1,2-Dichloroethene	BDL	100	ug/l	6210D	12/19/08	100
1,2-Dichloropropane	BDL	100	ug/l	6210D	12/19/08	100
1,1-Dichloropropene	BDL	100	ug/l	6210D	12/19/08	100

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
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9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-01

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-3

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	100	ug/l	6210D	12/19/08	100
2,2-Dichloropropane	BDL	100	ug/l	6210D	12/19/08	100
Di-isopropyl ether	BDL	100	ug/l	6210D	12/19/08	100
Ethylbenzene	880	100	ug/l	6210D	12/19/08	100
Isopropylbenzene	BDL	100	ug/l	6210D	12/19/08	100
p-Isopropyltoluene	BDL	100	ug/l	6210D	12/19/08	100
2-Butanone (MEK)	BDL	1000	ug/l	6210D	12/19/08	100
Methylene Chloride	BDL	500	ug/l	6210D	12/19/08	100
4-Methyl-2-pentanone (MIBK)	BDL	1000	ug/l	6210D	12/19/08	100
Methyl tert-butyl ether	BDL	100	ug/l	6210D	12/19/08	100
Naphthalene	540	500	ug/l	6210D	12/19/08	100
n-Propylbenzene	BDL	100	ug/l	6210D	12/19/08	100
Styrene	BDL	100	ug/l	6210D	12/19/08	100
1,1,1,2-Tetrachloroethane	BDL	100	ug/l	6210D	12/19/08	100
1,1,2,2-Tetrachloroethane	BDL	100	ug/l	6210D	12/19/08	100
Tetrachloroethene	BDL	100	ug/l	6210D	12/19/08	100
Toluene	BDL	500	ug/l	6210D	12/19/08	100
1,2,3-Trichlorobenzene	BDL	100	ug/l	6210D	12/19/08	100
1,2,4-Trichlorobenzene	BDL	100	ug/l	6210D	12/19/08	100
1,1,1-Trichloroethane	BDL	100	ug/l	6210D	12/19/08	100
1,1,2-Trichloroethane	BDL	100	ug/l	6210D	12/19/08	100
Trichloroethene	BDL	100	ug/l	6210D	12/19/08	100
Trichlorofluoromethane	BDL	500	ug/l	6210D	12/19/08	100
1,2,3-Trichloropropane	BDL	100	ug/l	6210D	12/19/08	100
1,2,4-Trimethylbenzene	BDL	100	ug/l	6210D	12/19/08	100
1,3,5-Trimethylbenzene	BDL	100	ug/l	6210D	12/19/08	100
Vinyl chloride	BDL	100	ug/l	6210D	12/19/08	100
o-Xylene	BDL	100	ug/l	6210D	12/19/08	100
m&p-Xylenes	280	200	ug/l	6210D	12/19/08	100
Surrogate Recovery						
Toluene-d8	94.0		% Rec.	6210D	12/19/08	100
Dibromofluoromethane	94.7		% Rec.	6210D	12/19/08	100
4-Bromofluorobenzene	98.2		% Rec.	6210D	12/19/08	100
625 Base/Neutrals w/ TIC						
Acenaphthene	BDL	10.	ug/l	625	12/23/08	1
Acenaphthylene	BDL	10.	ug/l	625	12/23/08	1
Anthracene	BDL	10.	ug/l	625	12/23/08	1
Benzidine	BDL	50.	ug/l	625	12/23/08	1
Benzo(a)anthracene	BDL	10.	ug/l	625	12/23/08	1
Benzo(b)fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Benzo(k)fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	625	12/23/08	1
Benzo(a)pyrene	BDL	10.	ug/l	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-01

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-3

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	625	12/23/08	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	625	12/23/08	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	625	12/23/08	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	625	12/23/08	1
2-Chloronaphthalene	BDL	10.	ug/l	625	12/23/08	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	625	12/23/08	1
Chrysene	BDL	10.	ug/l	625	12/23/08	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	625	12/23/08	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	625	12/23/08	1
2,4-Dinitrotoluene	BDL	10.	ug/l	625	12/23/08	1
2,6-Dinitrotoluene	BDL	10.	ug/l	625	12/23/08	1
Fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Fluorene	BDL	10.	ug/l	625	12/23/08	1
Hexachlorobenzene	BDL	10.	ug/l	625	12/23/08	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	625	12/23/08	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	625	12/23/08	1
Hexachloroethane	BDL	10.	ug/l	625	12/23/08	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	625	12/23/08	1
Isophorone	BDL	10.	ug/l	625	12/23/08	1
Naphthalene	170	10.	ug/l	625	12/23/08	1
Nitrobenzene	BDL	10.	ug/l	625	12/23/08	1
n-Nitrosodimethylamine	BDL	50.	ug/l	625	12/23/08	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	625	12/23/08	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	625	12/23/08	1
Phenanthrene	BDL	10.	ug/l	625	12/23/08	1
Benzylbutyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	625	12/23/08	1
Di-n-butyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Diethyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Dimethyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Di-n-octyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Pyrene	BDL	10.	ug/l	625	12/23/08	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	625	12/23/08	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	625	12/23/08	1
2-Chlorophenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dichlorophenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dimethylphenol	BDL	10.	ug/l	625	12/23/08	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dinitrophenol	BDL	10.	ug/l	625	12/23/08	1
2-Nitrophenol	BDL	10.	ug/l	625	12/23/08	1
4-Nitrophenol	BDL	10.	ug/l	625	12/23/08	1
Pentachlorophenol	BDL	10.	ug/l	625	12/23/08	1
Phenol	22.	10.	ug/l	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24, 2008

ESC Sample # : L380382-01

Site ID :

Project # : 14939-C

Date Received : December 19, 2008
Description : CAM

Sample ID : TMW-3

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4,6-Trichlorophenol	BDL	10.	ug/l	625	12/23/08	1
Surrogate Recovery						
Nitrobenzene-d5	69.3		% Rec.	625	12/23/08	1
2-Fluorobiphenyl	75.2		% Rec.	625	12/23/08	1
p-Terphenyl-d14	69.5		% Rec.	625	12/23/08	1
Phenol-d5	17.2		% Rec.	625	12/23/08	1
2-Fluorophenol	22.9		% Rec.	625	12/23/08	1
2,4,6-Tribromophenol	68.1		% Rec.	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-02

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-4

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	0.31	0.20	ug/l	7470A	12/23/08	1
Arsenic	BDL	20.	ug/l	6010B	12/23/08	1
Barium	80.	5.0	ug/l	6010B	12/23/08	1
Cadmium	BDL	5.0	ug/l	6010B	12/23/08	1
Chromium	22.	10.	ug/l	6010B	12/23/08	1
Lead	130	5.0	ug/l	6010B	12/23/08	1
Selenium	BDL	20.	ug/l	6010B	12/23/08	1
Silver	BDL	10.	ug/l	6010B	12/23/08	1
Volatile Organics						
Acetone	BDL	50.	ug/l	6210D	12/19/08	1
Acrolein	BDL	50.	ug/l	6210D	12/19/08	1
Acrylonitrile	BDL	10.	ug/l	6210D	12/19/08	1
Benzene	BDL	1.0	ug/l	6210D	12/19/08	1
Bromobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Bromodichloromethane	BDL	1.0	ug/l	6210D	12/19/08	1
Bromoform	BDL	1.0	ug/l	6210D	12/19/08	1
Bromomethane	BDL	5.0	ug/l	6210D	12/19/08	1
n-Butylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
sec-Butylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
tert-Butylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Carbon tetrachloride	BDL	1.0	ug/l	6210D	12/19/08	1
Chlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Chlorodibromomethane	BDL	1.0	ug/l	6210D	12/19/08	1
Chloroethane	BDL	5.0	ug/l	6210D	12/19/08	1
Chloroform	BDL	5.0	ug/l	6210D	12/19/08	1
Chloromethane	BDL	2.5	ug/l	6210D	12/19/08	1
2-Chlorotoluene	BDL	1.0	ug/l	6210D	12/19/08	1
4-Chlorotoluene	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6210D	12/19/08	1
1,2-Dibromoethane	BDL	1.0	ug/l	6210D	12/19/08	1
Dibromomethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6210D	12/19/08	1
1,1-Dichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1-Dichloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
cis-1,2-Dichloroethene	1.0	1.0	ug/l	6210D	12/19/08	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1-Dichloropropene	BDL	1.0	ug/l	6210D	12/19/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-02

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-4

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
2,2-Dichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
Di-isopropyl ether	BDL	1.0	ug/l	6210D	12/19/08	1
Ethylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Isopropylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
p-Isopropyltoluene	BDL	1.0	ug/l	6210D	12/19/08	1
2-Butanone (MEK)	BDL	10.	ug/l	6210D	12/19/08	1
Methylene Chloride	BDL	5.0	ug/l	6210D	12/19/08	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6210D	12/19/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	6210D	12/19/08	1
Naphthalene	BDL	5.0	ug/l	6210D	12/19/08	1
n-Propylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Styrene	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
Tetrachloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
Toluene	BDL	5.0	ug/l	6210D	12/19/08	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
Trichloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
Trichlorofluoromethane	BDL	5.0	ug/l	6210D	12/19/08	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Vinyl chloride	BDL	1.0	ug/l	6210D	12/19/08	1
o-Xylene	BDL	1.0	ug/l	6210D	12/19/08	1
m&p-Xylenes	BDL	2.0	ug/l	6210D	12/19/08	1
Surrogate Recovery						
Toluene-d8	99.1		% Rec.	6210D	12/19/08	1
Dibromofluoromethane	97.9		% Rec.	6210D	12/19/08	1
4-Bromofluorobenzene	94.8		% Rec.	6210D	12/19/08	1
625 Base/Neutrals w/ TIC						
Acenaphthene	BDL	10.	ug/l	625	12/23/08	1
Acenaphthylene	BDL	10.	ug/l	625	12/23/08	1
Anthracene	BDL	10.	ug/l	625	12/23/08	1
Benzidine	BDL	50.	ug/l	625	12/23/08	1
Benzo(a)anthracene	BDL	10.	ug/l	625	12/23/08	1
Benzo(b)fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Benzo(k)fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	625	12/23/08	1
Benzo(a)pyrene	BDL	10.	ug/l	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-02

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-4

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	625	12/23/08	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	625	12/23/08	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	625	12/23/08	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	625	12/23/08	1
2-Chloronaphthalene	BDL	10.	ug/l	625	12/23/08	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	625	12/23/08	1
Chrysene	BDL	10.	ug/l	625	12/23/08	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	625	12/23/08	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	625	12/23/08	1
2,4-Dinitrotoluene	BDL	10.	ug/l	625	12/23/08	1
2,6-Dinitrotoluene	BDL	10.	ug/l	625	12/23/08	1
Fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Fluorene	BDL	10.	ug/l	625	12/23/08	1
Hexachlorobenzene	BDL	10.	ug/l	625	12/23/08	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	625	12/23/08	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	625	12/23/08	1
Hexachloroethane	BDL	10.	ug/l	625	12/23/08	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	625	12/23/08	1
Isophorone	BDL	10.	ug/l	625	12/23/08	1
Naphthalene	BDL	10.	ug/l	625	12/23/08	1
Nitrobenzene	BDL	10.	ug/l	625	12/23/08	1
n-Nitrosodimethylamine	BDL	50.	ug/l	625	12/23/08	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	625	12/23/08	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	625	12/23/08	1
Phenanthrene	BDL	10.	ug/l	625	12/23/08	1
Benzylbutyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	625	12/23/08	1
Di-n-butyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Diethyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Dimethyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Di-n-octyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Pyrene	BDL	10.	ug/l	625	12/23/08	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	625	12/23/08	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	625	12/23/08	1
2-Chlorophenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dichlorophenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dimethylphenol	BDL	10.	ug/l	625	12/23/08	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dinitrophenol	BDL	10.	ug/l	625	12/23/08	1
2-Nitrophenol	BDL	10.	ug/l	625	12/23/08	1
4-Nitrophenol	BDL	10.	ug/l	625	12/23/08	1
Pentachlorophenol	BDL	10.	ug/l	625	12/23/08	1
Phenol	BDL	10.	ug/l	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-02

Site ID :

Project # : 14939-C

Date Received : December 19, 2008
Description : CAM

Sample ID : TMW-4

Collected By : Mark Brown
Collection Date : 12/17/08 17:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4,6-Trichlorophenol	BDL	10.	ug/l	625	12/23/08	1
Surrogate Recovery						
Nitrobenzene-d5	68.6		% Rec.	625	12/23/08	1
2-Fluorobiphenyl	75.6		% Rec.	625	12/23/08	1
p-Terphenyl-d14	55.2		% Rec.	625	12/23/08	1
Phenol-d5	12.2		% Rec.	625	12/23/08	1
2-Fluorophenol	18.2		% Rec.	625	12/23/08	1
2,4,6-Tribromophenol	47.6		% Rec.	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-03

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-5

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	12/23/08	1
Arsenic	BDL	20.	ug/l	6010B	12/23/08	1
Barium	58.	5.0	ug/l	6010B	12/23/08	1
Cadmium	BDL	5.0	ug/l	6010B	12/23/08	1
Chromium	BDL	10.	ug/l	6010B	12/23/08	1
Lead	BDL	5.0	ug/l	6010B	12/23/08	1
Selenium	BDL	20.	ug/l	6010B	12/23/08	1
Silver	BDL	10.	ug/l	6010B	12/23/08	1
Volatile Organics						
Acetone	BDL	50.	ug/l	6210D	12/19/08	1
Acrolein	BDL	50.	ug/l	6210D	12/19/08	1
Acrylonitrile	BDL	10.	ug/l	6210D	12/19/08	1
Benzene	BDL	1.0	ug/l	6210D	12/19/08	1
Bromobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Bromodichloromethane	BDL	1.0	ug/l	6210D	12/19/08	1
Bromoform	BDL	1.0	ug/l	6210D	12/19/08	1
Bromomethane	BDL	5.0	ug/l	6210D	12/19/08	1
n-Butylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
sec-Butylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
tert-Butylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Carbon tetrachloride	BDL	1.0	ug/l	6210D	12/19/08	1
Chlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Chlorodibromomethane	BDL	1.0	ug/l	6210D	12/19/08	1
Chloroethane	BDL	5.0	ug/l	6210D	12/19/08	1
Chloroform	BDL	5.0	ug/l	6210D	12/19/08	1
Chloromethane	BDL	2.5	ug/l	6210D	12/19/08	1
2-Chlorotoluene	BDL	1.0	ug/l	6210D	12/19/08	1
4-Chlorotoluene	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	6210D	12/19/08	1
1,2-Dibromoethane	BDL	1.0	ug/l	6210D	12/19/08	1
Dibromomethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Dichlorodifluoromethane	BDL	5.0	ug/l	6210D	12/19/08	1
1,1-Dichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1-Dichloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
cis-1,2-Dichloroethene	1.0	1.0	ug/l	6210D	12/19/08	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
1,2-Dichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1-Dichloropropene	BDL	1.0	ug/l	6210D	12/19/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-03

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-5

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
2,2-Dichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
Di-isopropyl ether	BDL	1.0	ug/l	6210D	12/19/08	1
Ethylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Isopropylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
p-Isopropyltoluene	BDL	1.0	ug/l	6210D	12/19/08	1
2-Butanone (MEK)	BDL	10.	ug/l	6210D	12/19/08	1
Methylene Chloride	BDL	5.0	ug/l	6210D	12/19/08	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	6210D	12/19/08	1
Methyl tert-butyl ether	BDL	1.0	ug/l	6210D	12/19/08	1
Naphthalene	BDL	5.0	ug/l	6210D	12/19/08	1
n-Propylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Styrene	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
Tetrachloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
Toluene	BDL	5.0	ug/l	6210D	12/19/08	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	6210D	12/19/08	1
Trichloroethene	BDL	1.0	ug/l	6210D	12/19/08	1
Trichlorofluoromethane	BDL	5.0	ug/l	6210D	12/19/08	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	6210D	12/19/08	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	6210D	12/19/08	1
Vinyl chloride	BDL	1.0	ug/l	6210D	12/19/08	1
o-Xylene	BDL	1.0	ug/l	6210D	12/19/08	1
m&p-Xylenes	BDL	2.0	ug/l	6210D	12/19/08	1
Surrogate Recovery						
Toluene-d8	96.3		% Rec.	6210D	12/19/08	1
Dibromofluoromethane	101.		% Rec.	6210D	12/19/08	1
4-Bromofluorobenzene	94.1		% Rec.	6210D	12/19/08	1
625 Base/Neutrals w/ TIC						
Acenaphthene	BDL	10.	ug/l	625	12/23/08	1
Acenaphthylene	BDL	10.	ug/l	625	12/23/08	1
Anthracene	BDL	10.	ug/l	625	12/23/08	1
Benzidine	BDL	50.	ug/l	625	12/23/08	1
Benzo(a)anthracene	BDL	10.	ug/l	625	12/23/08	1
Benzo(b)fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Benzo(k)fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Benzo(g,h,i)perylene	BDL	10.	ug/l	625	12/23/08	1
Benzo(a)pyrene	BDL	10.	ug/l	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-03

Site ID :

Project # : 14939-C

Date Received : December 19, 2008
Description : CAM

Sample ID : TMW-5

Collected By : Mark Brown
Collection Date : 12/17/08 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	625	12/23/08	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	625	12/23/08	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	625	12/23/08	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	625	12/23/08	1
2-Chloronaphthalene	BDL	10.	ug/l	625	12/23/08	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	625	12/23/08	1
Chrysene	BDL	10.	ug/l	625	12/23/08	1
Dibenz(a,h)anthracene	BDL	10.	ug/l	625	12/23/08	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	625	12/23/08	1
2,4-Dinitrotoluene	BDL	10.	ug/l	625	12/23/08	1
2,6-Dinitrotoluene	BDL	10.	ug/l	625	12/23/08	1
Fluoranthene	BDL	10.	ug/l	625	12/23/08	1
Fluorene	BDL	10.	ug/l	625	12/23/08	1
Hexachlorobenzene	BDL	10.	ug/l	625	12/23/08	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	625	12/23/08	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	625	12/23/08	1
Hexachloroethane	BDL	10.	ug/l	625	12/23/08	1
Indeno(1,2,3-cd)pyrene	BDL	10.	ug/l	625	12/23/08	1
Isophorone	BDL	10.	ug/l	625	12/23/08	1
Naphthalene	BDL	10.	ug/l	625	12/23/08	1
Nitrobenzene	BDL	10.	ug/l	625	12/23/08	1
n-Nitrosodimethylamine	BDL	50.	ug/l	625	12/23/08	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	625	12/23/08	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	625	12/23/08	1
Phenanthrene	BDL	10.	ug/l	625	12/23/08	1
Benzylbutyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Bis(2-ethylhexyl)phthalate	BDL	10.	ug/l	625	12/23/08	1
Di-n-butyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Diethyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Dimethyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Di-n-octyl phthalate	BDL	10.	ug/l	625	12/23/08	1
Pyrene	BDL	10.	ug/l	625	12/23/08	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	625	12/23/08	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	625	12/23/08	1
2-Chlorophenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dichlorophenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dimethylphenol	BDL	10.	ug/l	625	12/23/08	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	625	12/23/08	1
2,4-Dinitrophenol	BDL	10.	ug/l	625	12/23/08	1
2-Nitrophenol	BDL	10.	ug/l	625	12/23/08	1
4-Nitrophenol	BDL	10.	ug/l	625	12/23/08	1
Pentachlorophenol	BDL	10.	ug/l	625	12/23/08	1
Phenol	BDL	10.	ug/l	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-03

Site ID :

Project # : 14939-C

Date Received : December 19, 2008
Description : CAM

Sample ID : TMW-5

Collected By : Mark Brown
Collection Date : 12/17/08 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,4,6-Trichlorophenol	BDL	10.	ug/l	625	12/23/08	1
Surrogate Recovery						
Nitrobenzene-d5	60.5		% Rec.	625	12/23/08	1
2-Fluorobiphenyl	79.8		% Rec.	625	12/23/08	1
p-Terphenyl-d14	107.		% Rec.	625	12/23/08	1
Phenol-d5	14.1		% Rec.	625	12/23/08	1
2-Fluorophenol	22.3		% Rec.	625	12/23/08	1
2,4,6-Tribromophenol	91.6		% Rec.	625	12/23/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 12/24/08 14:38 Printed: 12/24/08 14:39

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-04

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-4

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 15:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	73.5		%	2540G	12/23/08	1
Mercury	0.59	0.027	mg/kg	7471	12/23/08	1
Arsenic	BDL	6.8	mg/kg	6010B	12/23/08	5
Barium	150	0.34	mg/kg	6010B	12/22/08	1
Cadmium	1.7	0.34	mg/kg	6010B	12/22/08	1
Chromium	42.	0.68	mg/kg	6010B	12/22/08	1
Lead	100	0.34	mg/kg	6010B	12/22/08	1
Selenium	BDL	6.8	mg/kg	6010B	12/23/08	5
Silver	BDL	0.68	mg/kg	6010B	12/22/08	1
Volatile Organics						
Acetone	0.88	0.34	mg/kg	8260B	12/20/08	5
Acrylonitrile	BDL	0.068	mg/kg	8260B	12/20/08	5
Benzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Bromobenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Bromodichloromethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
Bromoform	BDL	0.0068	mg/kg	8260B	12/20/08	5
Bromomethane	BDL	0.034	mg/kg	8260B	12/20/08	5
n-Butylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
sec-Butylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
tert-Butylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Carbon tetrachloride	BDL	0.0068	mg/kg	8260B	12/20/08	5
Chlorobenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Chlorodibromomethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
Chloroethane	BDL	0.034	mg/kg	8260B	12/20/08	5
2-Chloroethyl vinyl ether	BDL	0.34	mg/kg	8260B	12/20/08	5
Chloroform	BDL	0.034	mg/kg	8260B	12/20/08	5
Chloromethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
2-Chlorotoluene	BDL	0.0068	mg/kg	8260B	12/20/08	5
4-Chlorotoluene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,2-Dibromo-3-Chloropropane	BDL	0.034	mg/kg	8260B	12/20/08	5
1,2-Dibromoethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
Dibromomethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,2-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,3-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,4-Dichlorobenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Dichlorodifluoromethane	BDL	0.034	mg/kg	8260B	12/20/08	5
1,1-Dichloroethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,2-Dichloroethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,1-Dichloroethene	BDL	0.0068	mg/kg	8260B	12/20/08	5
cis-1,2-Dichloroethene	BDL	0.0068	mg/kg	8260B	12/20/08	5
trans-1,2-Dichloroethene	BDL	0.0068	mg/kg	8260B	12/20/08	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-04

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-4

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 15:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,1-Dichloropropene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,3-Dichloropropane	BDL	0.0068	mg/kg	8260B	12/20/08	5
cis-1,3-Dichloropropene	BDL	0.0068	mg/kg	8260B	12/20/08	5
trans-1,3-Dichloropropene	BDL	0.0068	mg/kg	8260B	12/20/08	5
2,2-Dichloropropane	BDL	0.0068	mg/kg	8260B	12/20/08	5
Di-isopropyl ether	BDL	0.0068	mg/kg	8260B	12/20/08	5
Ethylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Hexachloro-1,3-butadiene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Isopropylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
p-Isopropyltoluene	0.014	0.0068	mg/kg	8260B	12/20/08	5
2-Butanone (MEK)	BDL	0.068	mg/kg	8260B	12/20/08	5
Methylene Chloride	BDL	0.034	mg/kg	8260B	12/20/08	5
4-Methyl-2-pentanone (MIBK)	BDL	0.068	mg/kg	8260B	12/20/08	5
Methyl tert-butyl ether	BDL	0.0068	mg/kg	8260B	12/20/08	5
Naphthalene	BDL	0.034	mg/kg	8260B	12/20/08	5
n-Propylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Styrene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,1,1,2-Tetrachloroethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,1,2,2-Tetrachloroethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
Tetrachloroethene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Toluene	BDL	0.034	mg/kg	8260B	12/20/08	5
1,2,3-Trichlorobenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,2,4-Trichlorobenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,1,1-Trichloroethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,1,2-Trichloroethane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0068	mg/kg	8260B	12/20/08	5
Trichloroethene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Trichlorofluoromethane	BDL	0.034	mg/kg	8260B	12/20/08	5
1,2,3-Trichloropropane	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,2,4-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
1,3,5-Trimethylbenzene	BDL	0.0068	mg/kg	8260B	12/20/08	5
Vinyl chloride	BDL	0.0068	mg/kg	8260B	12/20/08	5
Xylenes, Total	BDL	0.020	mg/kg	8260B	12/20/08	5
Surrogate Recovery						
Toluene-d8	94.4		% Rec.	8260B	12/20/08	5
Dibromofluoromethane	107.		% Rec.	8260B	12/20/08	5
4-Bromofluorobenzene	69.0		% Rec.	8260B	12/20/08	5
Base/Neutral Extractables						
Acenaphthene	BDL	0.45	mg/kg	8270C	12/20/08	1
Acenaphthylene	BDL	0.45	mg/kg	8270C	12/20/08	1
Anthracene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzidine	BDL	0.45	mg/kg	8270C	12/20/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-04

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-4

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 15:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	0.62	0.45	mg/kg	8270C	12/20/08	1
Benzo(b)fluoranthene	0.70	0.45	mg/kg	8270C	12/20/08	1
Benzo(k)fluoranthene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzo(g,h,i)perylene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzo(a)pyrene	0.51	0.45	mg/kg	8270C	12/20/08	1
Bis(2-chlorethoxy)methane	BDL	0.45	mg/kg	8270C	12/20/08	1
Bis(2-chloroethyl)ether	BDL	0.45	mg/kg	8270C	12/20/08	1
Bis(2-chloroisopropyl)ether	BDL	0.45	mg/kg	8270C	12/20/08	1
4-Bromophenyl-phenylether	BDL	0.45	mg/kg	8270C	12/20/08	1
2-Chloronaphthalene	BDL	0.45	mg/kg	8270C	12/20/08	1
4-Chlorophenyl-phenylether	BDL	0.45	mg/kg	8270C	12/20/08	1
Chrysene	0.48	0.45	mg/kg	8270C	12/20/08	1
Dibenz(a,h)anthracene	BDL	0.45	mg/kg	8270C	12/20/08	1
3,3-Dichlorobenzidine	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4-Dinitrotoluene	BDL	0.45	mg/kg	8270C	12/20/08	1
2,6-Dinitrotoluene	BDL	0.45	mg/kg	8270C	12/20/08	1
Fluoranthene	0.99	0.45	mg/kg	8270C	12/20/08	1
Fluorene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachlorobenzene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachloro-1,3-butadiene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachlorocyclopentadiene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachloroethane	BDL	0.45	mg/kg	8270C	12/20/08	1
Indeno(1,2,3-cd)pyrene	BDL	0.45	mg/kg	8270C	12/20/08	1
Isophorone	BDL	0.45	mg/kg	8270C	12/20/08	1
Naphthalene	BDL	0.45	mg/kg	8270C	12/20/08	1
Nitrobenzene	BDL	0.45	mg/kg	8270C	12/20/08	1
n-Nitrosodimethylamine	BDL	0.45	mg/kg	8270C	12/20/08	1
n-Nitrosodiphenylamine	BDL	0.45	mg/kg	8270C	12/20/08	1
n-Nitrosodi-n-propylamine	BDL	0.45	mg/kg	8270C	12/20/08	1
Phenanthrene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzylbutyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Bis(2-ethylhexyl)phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Di-n-butyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Diethyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Dimethyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Di-n-octyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Pyrene	1.5	0.45	mg/kg	8270C	12/20/08	1
1,2,4-Trichlorobenzene	BDL	0.45	mg/kg	8270C	12/20/08	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2-Chlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4-Dichlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4-Dimethylphenol	BDL	0.45	mg/kg	8270C	12/20/08	1
4,6-Dinitro-2-methylphenol	BDL	0.45	mg/kg	8270C	12/20/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-04

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-4

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 15:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2-Nitrophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
4-Nitrophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
Pentachlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
Phenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4,6-Trichlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
Surrogate Recovery						
Nitrobenzene-d5	60.9		% Rec.	8270C	12/20/08	1
2-Fluorobiphenyl	74.0		% Rec.	8270C	12/20/08	1
p-Terphenyl-d14	125.		% Rec.	8270C	12/20/08	1
Phenol-d5	69.2		% Rec.	8270C	12/20/08	1
2-Fluorophenol	64.2		% Rec.	8270C	12/20/08	1
2,4,6-Tribromophenol	70.9		% Rec.	8270C	12/20/08	1

Results listed are dry weight basis.
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Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-05

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-5

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	73.5		%	2540G	12/23/08	1
Mercury	BDL	0.027	mg/kg	7471	12/23/08	1
Arsenic	BDL	14.	mg/kg	6010B	12/23/08	10
Barium	160	0.34	mg/kg	6010B	12/22/08	1
Cadmium	1.3	0.34	mg/kg	6010B	12/22/08	1
Chromium	16.	0.68	mg/kg	6010B	12/22/08	1
Lead	14.	0.34	mg/kg	6010B	12/22/08	1
Selenium	BDL	6.8	mg/kg	6010B	12/23/08	5
Silver	BDL	3.4	mg/kg	6010B	12/23/08	5
Volatile Organics						
Acetone	BDL	0.068	mg/kg	8260B	12/22/08	1
Acrylonitrile	BDL	0.014	mg/kg	8260B	12/22/08	1
Benzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Bromobenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Bromodichloromethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
Bromoform	BDL	0.0014	mg/kg	8260B	12/22/08	1
Bromomethane	BDL	0.0068	mg/kg	8260B	12/22/08	1
n-Butylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
sec-Butylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
tert-Butylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Carbon tetrachloride	BDL	0.0014	mg/kg	8260B	12/22/08	1
Chlorobenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Chlorodibromomethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
Chloroethane	BDL	0.0068	mg/kg	8260B	12/22/08	1
2-Chloroethyl vinyl ether	BDL	0.068	mg/kg	8260B	12/22/08	1
Chloroform	BDL	0.0068	mg/kg	8260B	12/22/08	1
Chloromethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
2-Chlorotoluene	BDL	0.0014	mg/kg	8260B	12/22/08	1
4-Chlorotoluene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0068	mg/kg	8260B	12/22/08	1
1,2-Dibromoethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
Dibromomethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,2-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,3-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,4-Dichlorobenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Dichlorodifluoromethane	BDL	0.0068	mg/kg	8260B	12/22/08	1
1,1-Dichloroethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,2-Dichloroethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,1-Dichloroethene	BDL	0.0014	mg/kg	8260B	12/22/08	1
cis-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	12/22/08	1
trans-1,2-Dichloroethene	BDL	0.0014	mg/kg	8260B	12/22/08	1

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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-05

Site ID :

Project # : 14939-C

Date Received : December 19, 2008
Description : CAM

Sample ID : TMW-5

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,1-Dichloropropene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,3-Dichloropropane	BDL	0.0014	mg/kg	8260B	12/22/08	1
cis-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	12/22/08	1
trans-1,3-Dichloropropene	BDL	0.0014	mg/kg	8260B	12/22/08	1
2,2-Dichloropropane	BDL	0.0014	mg/kg	8260B	12/22/08	1
Di-isopropyl ether	BDL	0.0014	mg/kg	8260B	12/22/08	1
Ethylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Hexachloro-1,3-butadiene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Isopropylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
p-Isopropyltoluene	BDL	0.0014	mg/kg	8260B	12/22/08	1
2-Butanone (MEK)	BDL	0.014	mg/kg	8260B	12/22/08	1
Methylene Chloride	BDL	0.0068	mg/kg	8260B	12/22/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.014	mg/kg	8260B	12/22/08	1
Methyl tert-butyl ether	BDL	0.0014	mg/kg	8260B	12/22/08	1
Naphthalene	BDL	0.0068	mg/kg	8260B	12/22/08	1
n-Propylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Styrene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
Tetrachloroethene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Toluene	BDL	0.0068	mg/kg	8260B	12/22/08	1
1,2,3-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,2,4-Trichlorobenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,1,1-Trichloroethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,1,2-Trichloroethane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0014	mg/kg	8260B	12/22/08	1
Trichloroethene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Trichlorofluoromethane	BDL	0.0068	mg/kg	8260B	12/22/08	1
1,2,3-Trichloropropane	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,2,4-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
1,3,5-Trimethylbenzene	BDL	0.0014	mg/kg	8260B	12/22/08	1
Vinyl chloride	BDL	0.0014	mg/kg	8260B	12/22/08	1
Xylenes, Total	BDL	0.0041	mg/kg	8260B	12/22/08	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	12/22/08	1
Dibromofluoromethane	132.		% Rec.	8260B	12/22/08	1
4-Bromofluorobenzene	78.9		% Rec.	8260B	12/22/08	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.45	mg/kg	8270C	12/20/08	1
Acenaphthylene	BDL	0.45	mg/kg	8270C	12/20/08	1
Anthracene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzidine	BDL	0.45	mg/kg	8270C	12/20/08	1

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BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-05

Date Received : December 19, 2008
Description : CAM

Site ID :

Sample ID : TMW-5

Project # : 14939-C

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(a)anthracene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzo(b)fluoranthene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzo(k)fluoranthene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzo(g,h,i)perylene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzo(a)pyrene	BDL	0.45	mg/kg	8270C	12/20/08	1
Bis(2-chlorethoxy)methane	BDL	0.45	mg/kg	8270C	12/20/08	1
Bis(2-chloroethyl)ether	BDL	0.45	mg/kg	8270C	12/20/08	1
Bis(2-chloroisopropyl)ether	BDL	0.45	mg/kg	8270C	12/20/08	1
4-Bromophenyl-phenylether	BDL	0.45	mg/kg	8270C	12/20/08	1
2-Chloronaphthalene	BDL	0.45	mg/kg	8270C	12/20/08	1
4-Chlorophenyl-phenylether	BDL	0.45	mg/kg	8270C	12/20/08	1
Chrysene	BDL	0.45	mg/kg	8270C	12/20/08	1
Dibenz(a,h)anthracene	BDL	0.45	mg/kg	8270C	12/20/08	1
3,3-Dichlorobenzidine	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4-Dinitrotoluene	BDL	0.45	mg/kg	8270C	12/20/08	1
2,6-Dinitrotoluene	BDL	0.45	mg/kg	8270C	12/20/08	1
Fluoranthene	BDL	0.45	mg/kg	8270C	12/20/08	1
Fluorene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachlorobenzene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachloro-1,3-butadiene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachlorocyclopentadiene	BDL	0.45	mg/kg	8270C	12/20/08	1
Hexachloroethane	BDL	0.45	mg/kg	8270C	12/20/08	1
Indeno(1,2,3-cd)pyrene	BDL	0.45	mg/kg	8270C	12/20/08	1
Isophorone	BDL	0.45	mg/kg	8270C	12/20/08	1
Naphthalene	BDL	0.45	mg/kg	8270C	12/20/08	1
Nitrobenzene	BDL	0.45	mg/kg	8270C	12/20/08	1
n-Nitrosodimethylamine	BDL	0.45	mg/kg	8270C	12/20/08	1
n-Nitrosodiphenylamine	BDL	0.45	mg/kg	8270C	12/20/08	1
n-Nitrosodi-n-propylamine	BDL	0.45	mg/kg	8270C	12/20/08	1
Phenanthrene	BDL	0.45	mg/kg	8270C	12/20/08	1
Benzylbutyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Bis(2-ethylhexyl)phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Di-n-butyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Diethyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Dimethyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Di-n-octyl phthalate	BDL	0.45	mg/kg	8270C	12/20/08	1
Pyrene	BDL	0.45	mg/kg	8270C	12/20/08	1
1,2,4-Trichlorobenzene	BDL	0.45	mg/kg	8270C	12/20/08	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2-Chlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4-Dichlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4-Dimethylphenol	BDL	0.45	mg/kg	8270C	12/20/08	1
4,6-Dinitro-2-methylphenol	BDL	0.45	mg/kg	8270C	12/20/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Mark Brown
ECS Carolinas - Raleigh, NC
9001 Glenwood Ave
Raleigh, NC 27617-7505

December 24,2008

ESC Sample # : L380382-05

Site ID :

Project # : 14939-C

Date Received : December 19, 2008
Description : CAM

Sample ID : TMW-5

Collected By : Mark Brown
Collection Date : 12/17/08 16:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
2,4-Dinitrophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2-Nitrophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
4-Nitrophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
Pentachlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
Phenol	BDL	0.45	mg/kg	8270C	12/20/08	1
2,4,6-Trichlorophenol	BDL	0.45	mg/kg	8270C	12/20/08	1
Surrogate Recovery						
Nitrobenzene-d5	64.0		% Rec.	8270C	12/20/08	1
2-Fluorobiphenyl	70.7		% Rec.	8270C	12/20/08	1
p-Terphenyl-d14	132.		% Rec.	8270C	12/20/08	1
Phenol-d5	72.3		% Rec.	8270C	12/20/08	1
2-Fluorophenol	68.9		% Rec.	8270C	12/20/08	1
2,4,6-Tribromophenol	72.9		% Rec.	8270C	12/20/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Reported: 12/24/08 14:38 Printed: 12/24/08 14:39

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L380382-01	WG399465	SAMP	Acenaphthene	R570885	L3
	WG399465	SAMP	Acenaphthylene	R570885	L3
	WG399465	SAMP	Anthracene	R570885	L3
	WG399465	SAMP	Benzidine	R570885	L3
	WG399465	SAMP	Benzo(a)anthracene	R570885	J4L3
	WG399465	SAMP	Benzo(b)fluoranthene	R570885	J4L3
	WG399465	SAMP	Benzo(k)fluoranthene	R570885	J4L3
	WG399465	SAMP	Benzo(g,h,i)perylene	R570885	J4L3
	WG399465	SAMP	Benzo(a)pyrene	R570885	J4L3
	WG399465	SAMP	Bis(2-chlorethoxy)methane	R570885	L3
	WG399465	SAMP	Bis(2-chloroethyl)ether	R570885	L3
	WG399465	SAMP	Bis(2-chloroisopropyl)ether	R570885	L3
	WG399465	SAMP	4-Bromophenyl-phenylether	R570885	L3
	WG399465	SAMP	2-Chloronaphthalene	R570885	L3
	WG399465	SAMP	4-Chlorophenyl-phenylether	R570885	L3
	WG399465	SAMP	Chrysene	R570885	J4L3
	WG399465	SAMP	Dibenz(a,h)anthracene	R570885	J4L3
	WG399465	SAMP	3,3-Dichlorobenzidine	R570885	L3
	WG399465	SAMP	2,4-Dinitrotoluene	R570885	L3
	WG399465	SAMP	2,6-Dinitrotoluene	R570885	L3
	WG399465	SAMP	Fluoranthene	R570885	L3
	WG399465	SAMP	Fluorene	R570885	L3
	WG399465	SAMP	Hexachlorobenzene	R570885	L3
	WG399465	SAMP	Hexachloro-1,3-butadiene	R570885	L3
	WG399465	SAMP	Hexachlorocyclopentadiene	R570885	L3
	WG399465	SAMP	Hexachloroethane	R570885	L3
	WG399465	SAMP	Indeno(1,2,3-cd)pyrene	R570885	J4L3
	WG399465	SAMP	Isophorone	R570885	L3
	WG399465	SAMP	Naphthalene	R570885	L3
	WG399465	SAMP	Nitrobenzene	R570885	L3
	WG399465	SAMP	n-Nitrosodimethylamine	R570885	L3
	WG399465	SAMP	n-Nitrosodiphenylamine	R570885	L3
	WG399465	SAMP	n-Nitrosodi-n-propylamine	R570885	L3
	WG399465	SAMP	Phenanthrene	R570885	L3
	WG399465	SAMP	Benzylbutyl phthalate	R570885	L3
	WG399465	SAMP	Bis(2-ethylhexyl)phthalate	R570885	J3J4L3
	WG399465	SAMP	Di-n-butyl phthalate	R570885	L3
	WG399465	SAMP	Diethyl phthalate	R570885	L3
	WG399465	SAMP	Dimethyl phthalate	R570885	J3L3
	WG399465	SAMP	Di-n-octyl phthalate	R570885	J4L3
	WG399465	SAMP	Pyrene	R570885	L3
	WG399465	SAMP	1,2,4-Trichlorobenzene	R570885	L3
	WG399465	SAMP	4-Chloro-3-methylphenol	R570885	L3
	WG399465	SAMP	2-Chlorophenol	R570885	L3
	WG399465	SAMP	2,4-Dichlorophenol	R570885	L3
	WG399465	SAMP	2,4-Dimethylphenol	R570885	L3
	WG399465	SAMP	4,6-Dinitro-2-methylphenol	R570885	L3
	WG399465	SAMP	2,4-Dinitrophenol	R570885	L3
	WG399465	SAMP	2-Nitrophenol	R570885	L3
	WG399465	SAMP	4-Nitrophenol	R570885	L3
	WG399465	SAMP	Pentachlorophenol	R570885	L3
	WG399465	SAMP	Phenol	R570885	L3
	WG399465	SAMP	2,4,6-Trichlorophenol	R570885	L3
	WG399373	SAMP	1,1-Dichloroethene	R568587	J3
	WG399373	SAMP	trans-1,2-Dichloroethene	R568587	J3
L380382-02	WG399465	SAMP	Acenaphthene	R570885	L3
	WG399465	SAMP	Acenaphthylene	R570885	L3
	WG399465	SAMP	Anthracene	R570885	L3
	WG399465	SAMP	Benzidine	R570885	L3
	WG399465	SAMP	Benzo(a)anthracene	R570885	J4L3
	WG399465	SAMP	Benzo(b)fluoranthene	R570885	J4L3
	WG399465	SAMP	Benzo(k)fluoranthene	R570885	J4L3
	WG399465	SAMP	Benzo(g,h,i)perylene	R570885	J4L3
	WG399465	SAMP	Benzo(a)pyrene	R570885	J4L3
	WG399465	SAMP	Bis(2-chlorethoxy)methane	R570885	L3
	WG399465	SAMP	Bis(2-chloroethyl)ether	R570885	L3
	WG399465	SAMP	Bis(2-chloroisopropyl)ether	R570885	L3
	WG399465	SAMP	4-Bromophenyl-phenylether	R570885	L3
	WG399465	SAMP	2-Chloronaphthalene	R570885	L3

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG399465	SAMP	4-Chlorophenyl-phenylether	R570885	L3
	WG399465	SAMP	Chrysene	R570885	J4L3
	WG399465	SAMP	Dibenz(a,h)anthracene	R570885	J4L3
	WG399465	SAMP	3,3-Dichlorobenzidine	R570885	L3
	WG399465	SAMP	2,4-Dinitrotoluene	R570885	L3
	WG399465	SAMP	2,6-Dinitrotoluene	R570885	L3
	WG399465	SAMP	Fluoranthene	R570885	L3
	WG399465	SAMP	Fluorene	R570885	L3
	WG399465	SAMP	Hexachlorobenzene	R570885	L3
	WG399465	SAMP	Hexachloro-1,3-butadiene	R570885	L3
	WG399465	SAMP	Hexachlorocyclopentadiene	R570885	L3
	WG399465	SAMP	Hexachloroethane	R570885	L3
	WG399465	SAMP	Indeno(1,2,3-cd)pyrene	R570885	J4L3
	WG399465	SAMP	Isophorone	R570885	L3
	WG399465	SAMP	Naphthalene	R570885	L3
	WG399465	SAMP	Nitrobenzene	R570885	L3
	WG399465	SAMP	n-Nitrosodimethylamine	R570885	L3
	WG399465	SAMP	n-Nitrosodiphenylamine	R570885	L3
	WG399465	SAMP	n-Nitrosodi-n-propylamine	R570885	L3
	WG399465	SAMP	Phenanthrene	R570885	L3
	WG399465	SAMP	Benzylbutyl phthalate	R570885	L3
	WG399465	SAMP	Bis(2-ethylhexyl)phthalate	R570885	J3J4L3
	WG399465	SAMP	Di-n-butyl phthalate	R570885	L3
	WG399465	SAMP	Diethyl phthalate	R570885	L3
	WG399465	SAMP	Dimethyl phthalate	R570885	J3L3
	WG399465	SAMP	Di-n-octyl phthalate	R570885	J4L3
	WG399465	SAMP	Pyrene	R570885	L3
	WG399465	SAMP	1,2,4-Trichlorobenzene	R570885	L3
	WG399465	SAMP	4-Chloro-3-methylphenol	R570885	L3
	WG399465	SAMP	2-Chlorophenol	R570885	L3
	WG399465	SAMP	2,4-Dichlorophenol	R570885	L3
	WG399465	SAMP	2,4-Dimethylphenol	R570885	L3
	WG399465	SAMP	4,6-Dinitro-2-methylphenol	R570885	L3
	WG399465	SAMP	2,4-Dinitrophenol	R570885	L3
	WG399465	SAMP	2-Nitrophenol	R570885	L3
	WG399465	SAMP	4-Nitrophenol	R570885	L3
	WG399465	SAMP	Pentachlorophenol	R570885	L3
	WG399465	SAMP	Phenol	R570885	L3
	WG399465	SAMP	2,4,6-Trichlorophenol	R570885	L3
L380382-03	WG399763	SAMP	Lead	R571369	P1
	WG399465	SAMP	Acenaphthene	R570885	L3
	WG399465	SAMP	Acenaphthylene	R570885	L3
	WG399465	SAMP	Anthracene	R570885	L3
	WG399465	SAMP	Benzidine	R570885	L3
	WG399465	SAMP	Benzo(a)anthracene.	R570885	J4L3
	WG399465	SAMP	Benzo(b)fluoranthene	R570885	J4L3
	WG399465	SAMP	Benzo(k)fluoranthene	R570885	J4L3
	WG399465	SAMP	Benzo(g,h,i)perylene	R570885	J4L3
	WG399465	SAMP	Benzo(a)pyrene	R570885	J4L3
	WG399465	SAMP	Bis(2-chlorethoxy)methane	R570885	L3
	WG399465	SAMP	Bis(2-chloroethyl)ether	R570885	L3
	WG399465	SAMP	Bis(2-chloroisopropyl)ether	R570885	L3
	WG399465	SAMP	4-Bromophenyl-phenylether	R570885	L3
	WG399465	SAMP	2-Chloronaphthalene	R570885	L3
	WG399465	SAMP	4-Chlorophenyl-phenylether	R570885	L3
	WG399465	SAMP	Chrysene	R570885	J4L3
	WG399465	SAMP	Dibenz(a,h)anthracene	R570885	J4L3
	WG399465	SAMP	3,3-Dichlorobenzidine	R570885	L3
	WG399465	SAMP	2,4-Dinitrotoluene	R570885	L3
	WG399465	SAMP	2,6-Dinitrotoluene	R570885	L3
	WG399465	SAMP	Fluoranthene	R570885	L3
	WG399465	SAMP	Fluorene	R570885	L3
	WG399465	SAMP	Hexachlorobenzene	R570885	L3
	WG399465	SAMP	Hexachloro-1,3-butadiene	R570885	L3
	WG399465	SAMP	Hexachlorocyclopentadiene	R570885	L3
	WG399465	SAMP	Hexachloroethane	R570885	L3
	WG399465	SAMP	Indeno(1,2,3-cd)pyrene	R570885	J4L3
	WG399465	SAMP	Isophorone	R570885	L3
	WG399465	SAMP	Naphthalene	R570885	L3
	WG399465	SAMP	Nitrobenzene	R570885	L3

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG399465	SAMP	n-Nitrosodimethylamine	R570885	L3
	WG399465	SAMP	n-Nitrosodiphenylamine	R570885	L3
	WG399465	SAMP	n-Nitrosodi-n-propylamine	R570885	L3
	WG399465	SAMP	Phenanthrene	R570885	L3
	WG399465	SAMP	Benzylbutyl phthalate	R570885	L3
	WG399465	SAMP	Bis(2-ethylhexyl)phthalate	R570885	J3J4L3
	WG399465	SAMP	Di-n-butyl phthalate	R570885	L3
	WG399465	SAMP	Diethyl phthalate	R570885	L3
	WG399465	SAMP	Dimethyl phthalate	R570885	J3L3
	WG399465	SAMP	Di-n-octyl phthalate	R570885	J4L3
	WG399465	SAMP	Pyrene	R570885	L3
	WG399465	SAMP	1,2,4-Trichlorobenzene	R570885	L3
	WG399465	SAMP	4-Chloro-3-methylphenol	R570885	L3
	WG399465	SAMP	2-Chlorophenol	R570885	L3
	WG399465	SAMP	2,4-Dichlorophenol	R570885	L3
	WG399465	SAMP	2,4-Dimethylphenol	R570885	L3
	WG399465	SAMP	4,6-Dinitro-2-methylphenol	R570885	L3
	WG399465	SAMP	2,4-Dinitrophenol	R570885	L3
	WG399465	SAMP	2-Nitrophenol	R570885	L3
	WG399465	SAMP	4-Nitrophenol	R570885	L3
	WG399465	SAMP	Pentachlorophenol	R570885	L3
	WG399465	SAMP	Phenol	R570885	L3
	WG399465	SAMP	2,4,6-Trichlorophenol	R570885	L3
	WG399373	SAMP	1,1-Dichloroethene	R568587	J3
	WG399373	SAMP	trans-1,2-Dichloroethene	R568587	J3
L380382-04	WG399364	SAMP	Arsenic	R570806	O
	WG399364	SAMP	Selenium	R570806	O
	WG399299	SAMP	Benzidine	R569186	J4
	WG399299	SAMP	2,4-Dimethylphenol	R569186	J4
L380382-05	WG399568	SAMP	Trichlorofluoromethane	R569427	J4
	WG399364	SAMP	Arsenic	R570806	O
	WG399364	SAMP	Selenium	R570806	O
	WG399364	SAMP	Silver	R570806	O
	WG399299	SAMP	Benzidine	R569186	J4
	WG399299	SAMP	2,4-Dimethylphenol	R569186	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
L3	(ESC) Sample reanalysis could not be performed due to lack of additional volume.
J4	The associated batch QC was outside the established quality control range for accuracy.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
12/24/08 at 14:39:16

TSR Signing Reports: 064
R3 - Rush: Two Day

Sample: L380382-01 Account: ECSRTPNC Received: 12/19/08 07:15 Due Date: 12/24/08 00:00 RPT Date: 12/24/08 14:38

Sample: L380382-02 Account: ECSRTPNC Received: 12/19/08 07:15 Due Date: 12/24/08 00:00 RPT Date: 12/24/08 14:38
Caution - High pH
Sample: L380382-03 Account: ECSRTPNC Received: 12/19/08 07:15 Due Date: 12/24/08 00:00 RPT Date: 12/24/08 14:38

Sample: L380382-04 Account: ECSRTPNC Received: 12/19/08 07:15 Due Date: 12/24/08 00:00 RPT Date: 12/24/08 14:38

Sample: L380382-05 Account: ECSRTPNC Received: 12/19/08 07:15 Due Date: 12/24/08 00:00 RPT Date: 12/24/08 14:38

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Tax I.D. 62-0814289

Est. 1970

ECS Carolinas - Raleigh, NC
Mark Brown
9001 Glenwood Ave

Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG399373	12/19/08 16:15
1,1,1-Trichloroethane	< .001	mg/l			WG399373	12/19/08 16:15
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG399373	12/19/08 16:15
1,1,2-Trichloroethane	< .001	mg/l			WG399373	12/19/08 16:15
1,1-Dichloroethane	< .001	mg/l			WG399373	12/19/08 16:15
1,1-Dichloroethene	< .001	mg/l			WG399373	12/19/08 16:15
1,1-Dichloropropene	< .001	mg/l			WG399373	12/19/08 16:15
1,2,3-Trichlorobenzene	< .001	mg/l			WG399373	12/19/08 16:15
1,2,3-Trichloropropane	< .001	mg/l			WG399373	12/19/08 16:15
1,2,4-Trichlorobenzene	< .001	mg/l			WG399373	12/19/08 16:15
1,2,4-Trimethylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG399373	12/19/08 16:15
1,2-Dibromoethane	< .001	mg/l			WG399373	12/19/08 16:15
1,2-Dichlorobenzene	< .001	mg/l			WG399373	12/19/08 16:15
1,2-Dichloroethane	< .001	mg/l			WG399373	12/19/08 16:15
1,2-Dichloropropane	< .001	mg/l			WG399373	12/19/08 16:15
1,3,5-Trimethylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
1,3-Dichlorobenzene	< .001	mg/l			WG399373	12/19/08 16:15
1,3-Dichloropropane	< .001	mg/l			WG399373	12/19/08 16:15
1,4-Dichlorobenzene	< .001	mg/l			WG399373	12/19/08 16:15
2,2-Dichloropropane	< .001	mg/l			WG399373	12/19/08 16:15
2-Butanone (MEK)	< .01	mg/l			WG399373	12/19/08 16:15
2-Chlorotoluene	< .001	mg/l			WG399373	12/19/08 16:15
4-Chlorotoluene	< .001	mg/l			WG399373	12/19/08 16:15
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG399373	12/19/08 16:15
Acetone	< .05	mg/l			WG399373	12/19/08 16:15
Acrolein	< .05	mg/l			WG399373	12/19/08 16:15
Acrylonitrile	< .01	mg/l			WG399373	12/19/08 16:15
Benzene	< .001	mg/l			WG399373	12/19/08 16:15
Bromobenzene	< .001	mg/l			WG399373	12/19/08 16:15
Bromodichloromethane	< .001	mg/l			WG399373	12/19/08 16:15
Bromoform	< .001	mg/l			WG399373	12/19/08 16:15
Bromomethane	< .005	mg/l			WG399373	12/19/08 16:15
Carbon tetrachloride	< .001	mg/l			WG399373	12/19/08 16:15
Chlorobenzene	< .001	mg/l			WG399373	12/19/08 16:15
Chlorodibromomethane	< .001	mg/l			WG399373	12/19/08 16:15
Chloroethane	< .001	mg/l			WG399373	12/19/08 16:15
Chloroform	< .005	mg/l			WG399373	12/19/08 16:15
Chloromethane	< .001	mg/l			WG399373	12/19/08 16:15
cis-1,2-Dichloroethene	< .001	mg/l			WG399373	12/19/08 16:15
Di-isopropyl ether	< .001	mg/l			WG399373	12/19/08 16:15
Dibromomethane	< .001	mg/l			WG399373	12/19/08 16:15
Dichlorodifluoromethane	< .005	mg/l			WG399373	12/19/08 16:15
Ethylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
Isopropylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
m&p-Xylenes	< .002	mg/l			WG399373	12/19/08 16:15
Methyl tert-butyl ether	< .001	mg/l			WG399373	12/19/08 16:15
Methylene Chloride	< .005	mg/l			WG399373	12/19/08 16:15
n-Butylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
n-Propylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
Naphthalene	< .005	mg/l			WG399373	12/19/08 16:15
o-Xylene	< .001	mg/l			WG399373	12/19/08 16:15
p-Isopropyltoluene	< .001	mg/l			WG399373	12/19/08 16:15
sec-Butylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
Styrene	< .001	mg/l			WG399373	12/19/08 16:15
tert-Butylbenzene	< .001	mg/l			WG399373	12/19/08 16:15
Tetrachloroethene	< .001	mg/l			WG399373	12/19/08 16:15
Toluene	< .005	mg/l			WG399373	12/19/08 16:15

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
trans-1,2-Dichloroethene	< .001	mg/l			WG399373	12/19/08 16:15
Trichloroethene	< .001	mg/l			WG399373	12/19/08 16:15
Trichlorofluoromethane	< .005	mg/l			WG399373	12/19/08 16:15
Vinyl chloride	< .001	mg/l			WG399373	12/19/08 16:15
4-Bromofluorobenzene		% Rec.	99.86	75-128	WG399373	12/19/08 16:15
Dibromofluoromethane		% Rec.	92.34	79-125	WG399373	12/19/08 16:15
Toluene-d8		% Rec.	93.87	87-114	WG399373	12/19/08 16:15
a,a,a-Trifluorotoluene		% Rec.	103.3	84-114	WG399373	12/19/08 16:15
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,1,1-Trichloroethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,1,2-Trichloroethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,1-Dichloroethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,1-Dichloroethene	< .001	mg/kg			WG399359	12/20/08 15:52
1,1-Dichloropropene	< .001	mg/kg			WG399359	12/20/08 15:52
1,2,3-Trichlorobenzene	< .001	mg/kg			WG399359	12/20/08 15:52
1,2,3-Trichloropropane	< .001	mg/kg			WG399359	12/20/08 15:52
1,2,4-Trichlorobenzene	< .001	mg/kg			WG399359	12/20/08 15:52
1,2,4-Trimethylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG399359	12/20/08 15:52
1,2-Dibromoethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,2-Dichlorobenzene	< .001	mg/kg			WG399359	12/20/08 15:52
1,2-Dichloroethane	< .001	mg/kg			WG399359	12/20/08 15:52
1,2-Dichloropropane	< .001	mg/kg			WG399359	12/20/08 15:52
1,3,5-Trimethylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52
1,3-Dichlorobenzene	< .001	mg/kg			WG399359	12/20/08 15:52
1,3-Dichloropropane	< .001	mg/kg			WG399359	12/20/08 15:52
1,4-Dichlorobenzene	< .001	mg/kg			WG399359	12/20/08 15:52
2,2-Dichloropropane	< .001	mg/kg			WG399359	12/20/08 15:52
2-Butanone (MEK)	< .01	mg/kg			WG399359	12/20/08 15:52
2-Chloroethyl vinyl ether	< .001	mg/kg			WG399359	12/20/08 15:52
2-Chlorotoluene	< .001	mg/kg			WG399359	12/20/08 15:52
4-Chlorotoluene	< .001	mg/kg			WG399359	12/20/08 15:52
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG399359	12/20/08 15:52
Acetone	< .05	mg/kg			WG399359	12/20/08 15:52
Acrylonitrile	< .01	mg/kg			WG399359	12/20/08 15:52
Benzene	< .001	mg/kg			WG399359	12/20/08 15:52
Bromobenzene	< .001	mg/kg			WG399359	12/20/08 15:52
Bromodichloromethane	< .001	mg/kg			WG399359	12/20/08 15:52
Bromoform	< .001	mg/kg			WG399359	12/20/08 15:52
Bromomethane	< .005	mg/kg			WG399359	12/20/08 15:52
Carbon tetrachloride	< .001	mg/kg			WG399359	12/20/08 15:52
Chlorobenzene	< .001	mg/kg			WG399359	12/20/08 15:52
Chlorodibromomethane	< .001	mg/kg			WG399359	12/20/08 15:52
Chloroethane	< .005	mg/kg			WG399359	12/20/08 15:52
Chloroform	< .005	mg/kg			WG399359	12/20/08 15:52
Chloromethane	< .001	mg/kg			WG399359	12/20/08 15:52
cis-1,2-Dichloroethene	< .001	mg/kg			WG399359	12/20/08 15:52
cis-1,3-Dichloropropene	< .001	mg/kg			WG399359	12/20/08 15:52
Di-isopropyl ether	< .001	mg/kg			WG399359	12/20/08 15:52
Dibromomethane	< .001	mg/kg			WG399359	12/20/08 15:52
Dichlorodifluoromethane	< .005	mg/kg			WG399359	12/20/08 15:52
Ethylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52
Hexachloro-1,3-butadiene	< .001	mg/kg			WG399359	12/20/08 15:52
Isopropylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52

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Quality Assurance Report
Level II

L380382

December 24, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Methyl tert-butyl ether	< .001	mg/kg			WG399359	12/20/08 15:52
Methylene Chloride	< .005	mg/kg			WG399359	12/20/08 15:52
n-Butylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52
n-Propylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52
Naphthalene	< .005	mg/kg			WG399359	12/20/08 15:52
p-Isopropyltoluene	< .001	mg/kg			WG399359	12/20/08 15:52
sec-Butylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52
Styrene	< .001	mg/kg			WG399359	12/20/08 15:52
tert-Butylbenzene	< .001	mg/kg			WG399359	12/20/08 15:52
Tetrachloroethene	< .001	mg/kg			WG399359	12/20/08 15:52
Toluene	< .005	mg/kg			WG399359	12/20/08 15:52
trans-1,2-Dichloroethene	< .001	mg/kg			WG399359	12/20/08 15:52
trans-1,3-Dichloropropene	< .001	mg/kg			WG399359	12/20/08 15:52
Trichloroethene	< .001	mg/kg			WG399359	12/20/08 15:52
Trichlorofluoromethane	< .005	mg/kg			WG399359	12/20/08 15:52
Vinyl chloride	< .001	mg/kg			WG399359	12/20/08 15:52
Xylenes, Total	< .003	mg/kg			WG399359	12/20/08 15:52
4-Bromofluorobenzene		% Rec.	100.7	59-140	WG399359	12/20/08 15:52
Dibromofluoromethane		% Rec.	97.52	63-139	WG399359	12/20/08 15:52
Toluene-d8		% Rec.	96.92	84-116	WG399359	12/20/08 15:52
a,a,a-Trifluorotoluene		% Rec.	99.32	80-118	WG399359	12/20/08 15:52
1,2,4-Trichlorobenzene	< .33	ppm			WG399299	12/20/08 10:46
2,4,6-Trichlorophenol	< .33	ppm			WG399299	12/20/08 10:46
2,4-Dichlorophenol	< .33	ppm			WG399299	12/20/08 10:46
2,4-Dimethylphenol	< .33	ppm			WG399299	12/20/08 10:46
2,4-Dinitrophenol	< .33	ppm			WG399299	12/20/08 10:46
2,4-Dinitrotoluene	< .33	ppm			WG399299	12/20/08 10:46
2,6-Dinitrotoluene	< .33	ppm			WG399299	12/20/08 10:46
2-Chloronaphthalene	< .33	ppm			WG399299	12/20/08 10:46
2-Chlorophenol	< .33	ppm			WG399299	12/20/08 10:46
2-Nitrophenol	< .33	ppm			WG399299	12/20/08 10:46
3,3-Dichlorobenzidine	< .33	ppm			WG399299	12/20/08 10:46
4,6-Dinitro-2-methylphenol	< .33	ppm			WG399299	12/20/08 10:46
4-Bromophenyl-phenylether	< .33	ppm			WG399299	12/20/08 10:46
4-Chloro-3-methylphenol	< .33	ppm			WG399299	12/20/08 10:46
4-Chlorophenyl-phenylether	< .33	ppm			WG399299	12/20/08 10:46
4-Nitrophenol	< .33	ppm			WG399299	12/20/08 10:46
Acenaphthene	< .33	ppm			WG399299	12/20/08 10:46
Acenaphthylene	< .33	ppm			WG399299	12/20/08 10:46
Anthracene	< .33	ppm			WG399299	12/20/08 10:46
Benzidine	< .33	ppm			WG399299	12/20/08 10:46
Benzo(a)anthracene	< .33	ppm			WG399299	12/20/08 10:46
Benzo(a)pyrene	< .33	ppm			WG399299	12/20/08 10:46
Benzo(b)fluoranthene	< .33	ppm			WG399299	12/20/08 10:46
Benzo(g,h,i)perylene	< .33	ppm			WG399299	12/20/08 10:46
Benzo(k)fluoranthene	< .33	ppm			WG399299	12/20/08 10:46
Benzylbutyl phthalate	< .33	ppm			WG399299	12/20/08 10:46
Bis(2-chlorethoxy)methane	< .33	ppm			WG399299	12/20/08 10:46
Bis(2-chloroethyl)ether	< .33	ppm			WG399299	12/20/08 10:46
Bis(2-chloroisopropyl)ether	< .33	ppm			WG399299	12/20/08 10:46
Bis(2-ethylhexyl)phthalate	< .33	ppm			WG399299	12/20/08 10:46
Chrysene	< .33	ppm			WG399299	12/20/08 10:46
Di-n-butyl phthalate	< .33	ppm			WG399299	12/20/08 10:46
Di-n-octyl phthalate	< .33	ppm			WG399299	12/20/08 10:46
Dibenz(a,h)anthracene	< .33	ppm			WG399299	12/20/08 10:46
Diethyl phthalate	< .33	ppm			WG399299	12/20/08 10:46

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Quality Assurance Report
Level II

L380382

December 24, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Dimethyl phthalate	< .33	ppm			WG399299	12/20/08 10:46
Fluoranthene	< .33	ppm			WG399299	12/20/08 10:46
Fluorene	< .33	ppm			WG399299	12/20/08 10:46
Hexachloro-1,3-butadiene	< .33	ppm			WG399299	12/20/08 10:46
Hexachlorobenzene	< .33	ppm			WG399299	12/20/08 10:46
Hexachlorocyclopentadiene	< .33	ppm			WG399299	12/20/08 10:46
Hexachloroethane	< .33	ppm			WG399299	12/20/08 10:46
Indeno(1,2,3-cd)pyrene	< .33	ppm			WG399299	12/20/08 10:46
Isophorone	< .33	ppm			WG399299	12/20/08 10:46
n-Nitrosodi-n-propylamine	< .33	ppm			WG399299	12/20/08 10:46
n-Nitrosodimethylamine	< .33	ppm			WG399299	12/20/08 10:46
n-Nitrosodiphenylamine	< .33	ppm			WG399299	12/20/08 10:46
Naphthalene	< .33	ppm			WG399299	12/20/08 10:46
Nitrobenzene	< .33	ppm			WG399299	12/20/08 10:46
Pentachlorophenol	< .33	ppm			WG399299	12/20/08 10:46
Phenanthrene	< .33	ppm			WG399299	12/20/08 10:46
Phenol	< .33	ppm			WG399299	12/20/08 10:46
Pyrene	< .33	ppm			WG399299	12/20/08 10:46
2,4,6-Tribromophenol		% Rec.	98.09	25-137	WG399299	12/20/08 10:46
2-Fluorobiphenyl		% Rec.	92.34	30-120	WG399299	12/20/08 10:46
2-Fluorophenol		% Rec.	78.97	26-130	WG399299	12/20/08 10:46
Nitrobenzene-d5		% Rec.	73.84	18-119	WG399299	12/20/08 10:46
Phenol-d5		% Rec.	84.05	37-141	WG399299	12/20/08 10:46
p-Terphenyl-d14		% Rec.	90.65	23-143	WG399299	12/20/08 10:46
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,1,1-Trichloroethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,1,2-Trichloroethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,1-Dichloroethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,1-Dichloroethene	< .001	mg/kg			WG399568	12/21/08 22:43
1,1-Dichloropropene	< .001	mg/kg			WG399568	12/21/08 22:43
1,2,3-Trichlorobenzene	< .001	mg/kg			WG399568	12/21/08 22:43
1,2,3-Trichloropropane	< .001	mg/kg			WG399568	12/21/08 22:43
1,2,4-Trichlorobenzene	< .001	mg/kg			WG399568	12/21/08 22:43
1,2,4-Trimethylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG399568	12/21/08 22:43
1,2-Dibromoethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,2-Dichlorobenzene	< .001	mg/kg			WG399568	12/21/08 22:43
1,2-Dichloroethane	< .001	mg/kg			WG399568	12/21/08 22:43
1,2-Dichloropropane	< .001	mg/kg			WG399568	12/21/08 22:43
1,3,5-Trimethylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
1,3-Dichlorobenzene	< .001	mg/kg			WG399568	12/21/08 22:43
1,3-Dichloropropane	< .001	mg/kg			WG399568	12/21/08 22:43
1,4-Dichlorobenzene	< .001	mg/kg			WG399568	12/21/08 22:43
2,2-Dichloropropane	< .001	mg/kg			WG399568	12/21/08 22:43
2-Butanone (MEK)	< .01	mg/kg			WG399568	12/21/08 22:43
2-Chloroethyl vinyl ether	< .001	mg/kg			WG399568	12/21/08 22:43
2-Chlorotoluene	< .001	mg/kg			WG399568	12/21/08 22:43
4-Chlorotoluene	< .001	mg/kg			WG399568	12/21/08 22:43
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG399568	12/21/08 22:43
Acetone	< .05	mg/kg			WG399568	12/21/08 22:43
Acrylonitrile	< .01	mg/kg			WG399568	12/21/08 22:43
Benzene	< .001	mg/kg			WG399568	12/21/08 22:43
Bromobenzene	< .001	mg/kg			WG399568	12/21/08 22:43
Bromodichloromethane	< .001	mg/kg			WG399568	12/21/08 22:43

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Quality Assurance Report
Level II

L380382

December 24, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Bromoform	< .001	mg/kg			WG399568	12/21/08 22:43
Bromomethane	< .005	mg/kg			WG399568	12/21/08 22:43
Carbon tetrachloride	< .001	mg/kg			WG399568	12/21/08 22:43
Chlorobenzene	< .001	mg/kg			WG399568	12/21/08 22:43
Chlorodibromomethane	< .001	mg/kg			WG399568	12/21/08 22:43
Chloroethane	< .005	mg/kg			WG399568	12/21/08 22:43
Chloroform	< .005	mg/kg			WG399568	12/21/08 22:43
Chloromethane	< .001	mg/kg			WG399568	12/21/08 22:43
cis-1,2-Dichloroethene	< .001	mg/kg			WG399568	12/21/08 22:43
cis-1,3-Dichloropropene	< .001	mg/kg			WG399568	12/21/08 22:43
Di-isopropyl ether	< .001	mg/kg			WG399568	12/21/08 22:43
Dibromomethane	< .001	mg/kg			WG399568	12/21/08 22:43
Dichlorodifluoromethane	< .005	mg/kg			WG399568	12/21/08 22:43
Ethylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
Hexachloro-1,3-butadiene	< .001	mg/kg			WG399568	12/21/08 22:43
Isopropylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
Methyl tert-butyl ether	< .001	mg/kg			WG399568	12/21/08 22:43
Methylene Chloride	< .005	mg/kg			WG399568	12/21/08 22:43
n-Butylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
n-Propylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
Naphthalene	< .005	mg/kg			WG399568	12/21/08 22:43
p-Isopropyltoluene	< .001	mg/kg			WG399568	12/21/08 22:43
sec-Butylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
Styrene	< .001	mg/kg			WG399568	12/21/08 22:43
tert-Butylbenzene	< .001	mg/kg			WG399568	12/21/08 22:43
Tetrachloroethene	< .001	mg/kg			WG399568	12/21/08 22:43
Toluene	< .005	mg/kg			WG399568	12/21/08 22:43
trans-1,2-Dichloroethene	< .001	mg/kg			WG399568	12/21/08 22:43
trans-1,3-Dichloropropene	< .001	mg/kg			WG399568	12/21/08 22:43
Trichloroethene	< .001	mg/kg			WG399568	12/21/08 22:43
Trichlorofluoromethane	< .005	mg/kg			WG399568	12/21/08 22:43
Vinyl chloride	< .001	mg/kg			WG399568	12/21/08 22:43
Xylenes, Total	< .003	mg/kg			WG399568	12/21/08 22:43
4-Bromofluorobenzene		% Rec.	79.62	59-140	WG399568	12/21/08 22:43
Dibromofluoromethane		% Rec.	111.0	63-139	WG399568	12/21/08 22:43
Toluene-d8		% Rec.	102.8	84-116	WG399568	12/21/08 22:43
a,a,a-Trifluorotoluene		% Rec.	107.1	80-118	WG399568	12/21/08 22:43
Mercury	< .02	mg/kg			WG399370	12/23/08 09:41
Total Solids	< .1	%			WG399508	12/23/08 10:07
Arsenic	< 1	mg/kg			WG399364	12/22/08 14:28
Barium	< .25	mg/kg			WG399364	12/22/08 14:28
Cadmium	< .25	mg/kg			WG399364	12/22/08 14:28
Chromium	< .5	mg/kg			WG399364	12/22/08 14:28
Lead	< .25	mg/kg			WG399364	12/22/08 14:28
Selenium	< 1	mg/kg			WG399364	12/22/08 14:28
Silver	< .5	mg/kg			WG399364	12/22/08 14:28
Arsenic	< .02	mg/l			WG399763	12/23/08 17:00
Barium	< .005	mg/l			WG399763	12/23/08 17:00
Cadmium	< .005	mg/l			WG399763	12/23/08 17:00
Chromium	< .01	mg/l			WG399763	12/23/08 17:00

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Lead	< .005	mg/l			WG399763	12/23/08 17:00
Selenium	< .02	mg/l			WG399763	12/23/08 17:00
Silver	< .01	mg/l			WG399763	12/23/08 17:00
1,2,4-Trichlorobenzene	< .01	ppm			WG399465	12/21/08 11:08
2,4,6-Trichlorophenol	< .01	ppm			WG399465	12/21/08 11:08
2,4-Dichlorophenol	< .01	ppm			WG399465	12/21/08 11:08
2,4-Dimethylphenol	< .01	ppm			WG399465	12/21/08 11:08
2,4-Dinitrophenol	< .01	ppm			WG399465	12/21/08 11:08
2,4-Dinitrotoluene	< .01	ppm			WG399465	12/21/08 11:08
2,6-Dinitrotoluene	< .01	ppm			WG399465	12/21/08 11:08
2-Chloronaphthalene	< .01	ppm			WG399465	12/21/08 11:08
2-Chlorophenol	< .01	ppm			WG399465	12/21/08 11:08
2-Nitrophenol	< .01	ppm			WG399465	12/21/08 11:08
3,3-Dichlorobenzidine	< .01	ppm			WG399465	12/21/08 11:08
4,6-Dinitro-2-methylphenol	< .01	ppm			WG399465	12/21/08 11:08
4-Bromophenyl-phenylether	< .01	ppm			WG399465	12/21/08 11:08
4-Chloro-3-methylphenol	< .01	ppm			WG399465	12/21/08 11:08
4-Chlorophenyl-phenylether	< .01	ppm			WG399465	12/21/08 11:08
4-Nitrophenol	< .01	ppm			WG399465	12/21/08 11:08
Acenaphthene	< .01	ppm			WG399465	12/21/08 11:08
Acenaphthylene	< .01	ppm			WG399465	12/21/08 11:08
Anthracene	< .01	ppm			WG399465	12/21/08 11:08
Benzidine	< .01	ppm			WG399465	12/21/08 11:08
Benzo(a)anthracene	< .01	ppm			WG399465	12/21/08 11:08
Benzo(a)pyrene	< .01	ppm			WG399465	12/21/08 11:08
Benzo(b)fluoranthene	< .01	ppm			WG399465	12/21/08 11:08
Benzo(g,h,i)perylene	< .01	ppm			WG399465	12/21/08 11:08
Benzo(k)fluoranthene	< .01	ppm			WG399465	12/21/08 11:08
Benzylbutyl phthalate	< .01	ppm			WG399465	12/21/08 11:08
Bis(2-chlorethoxy)methane	< .01	ppm			WG399465	12/21/08 11:08
Bis(2-chloroethyl)ether	< .01	ppm			WG399465	12/21/08 11:08
Bis(2-chloroisopropyl)ether	< .01	ppm			WG399465	12/21/08 11:08
Bis(2-ethylhexyl)phthalate	< .01	ppm			WG399465	12/21/08 11:08
Chrysene	< .01	ppm			WG399465	12/21/08 11:08
Di-n-butyl phthalate	< .01	ppm			WG399465	12/21/08 11:08
Di-n-octyl phthalate	< .01	ppm			WG399465	12/21/08 11:08
Dibenz(a,h)anthracene	< .01	ppm			WG399465	12/21/08 11:08
Diethyl phthalate	< .01	ppm			WG399465	12/21/08 11:08
Dimethyl phthalate	< .01	ppm			WG399465	12/21/08 11:08
Fluoranthene	< .01	ppm			WG399465	12/21/08 11:08
Fluorene	< .01	ppm			WG399465	12/21/08 11:08
Hexachloro-1,3-butadiene	< .01	ppm			WG399465	12/21/08 11:08
Hexachlorobenzene	< .01	ppm			WG399465	12/21/08 11:08
Hexachlorocyclopentadiene	< .01	ppm			WG399465	12/21/08 11:08
Hexachloroethane	< .01	ppm			WG399465	12/21/08 11:08
Indeno(1,2,3-cd)pyrene	< .01	ppm			WG399465	12/21/08 11:08
Isophorone	< .01	ppm			WG399465	12/21/08 11:08
n-Nitrosodi-n-propylamine	< .01	ppm			WG399465	12/21/08 11:08
n-Nitrosodimethylamine	< .05	ppm			WG399465	12/21/08 11:08
n-Nitrosodiphenylamine	< .01	ppm			WG399465	12/21/08 11:08
Naphthalene	< .01	ppm			WG399465	12/21/08 11:08
Nitrobenzene	< .01	ppm			WG399465	12/21/08 11:08
Pentachlorophenol	< .01	ppm			WG399465	12/21/08 11:08
Phenanthrene	< .01	ppm			WG399465	12/21/08 11:08
Phenol	< .01	ppm			WG399465	12/21/08 11:08
Pyrene	< .01	ppm			WG399465	12/21/08 11:08

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Quality Assurance Report
Level II

L380382

December 24, 2008

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2,4,6-Tribromophenol		% Rec.	53.45	10-148		12/21/08 11:08
2-Fluorobiphenyl		% Rec.	32.15	26-122		12/21/08 11:08
2-Fluorophenol		% Rec.	16.95	10-87		12/21/08 11:08
Nitrobenzene-d5		% Rec.	29.46	12-120		12/21/08 11:08
Phenol-d5		% Rec.	11.89	10-67		12/21/08 11:08
p-Terphenyl-d14		% Rec.	36.32	34-149		12/21/08 11:08
Mercury	< .0002	mg/l			WG399749	12/23/08 21:21

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/kg	0.00	0.00	0.00	20	L380340-01	WG399370
Total Solids	%	90.7	90.4	0.283	5	L380472-02	WG399508
Arsenic	mg/kg	8.46	6.90	20.3*	20	L380077-04	WG399364
Barium	mg/kg	196.	0.00	NA*	20	L380077-04	WG399364
Cadmium	mg/kg	3.84	0.00	NA*	20	L380077-04	WG399364
Chromium	mg/kg	17.7	0.00	NA*	20	L380077-04	WG399364
Lead	mg/kg	370.	280.	27.7*	20	L380077-04	WG399364
Selenium	mg/kg	0.00	0.00	0.00	20	L380077-04	WG399364
Silver	mg/kg	0.00	0.519	NA*	20	L380077-04	WG399364
Selenium	mg/kg	0.00	0.00	0.00	20	L380077-04	WG399364
Arsenic	mg/l	0.00	0.00	0.00	20	L380382-03	WG399763
Barium	mg/l	0.0558	0.0580	3.87	20	L380382-03	WG399763
Cadmium	mg/l	0.00	0.00	0.00	20	L380382-03	WG399763
Chromium	mg/l	0.00	0.00	0.00	20	L380382-03	WG399763
Lead	mg/l	0.00500	0.00	NA*	20	L380382-03	WG399763
Selenium	mg/l	0.00	0.00	0.00	20	L380382-03	WG399763
Silver	mg/l	0.00	0.00	0.00	20	L380382-03	WG399763
Mercury	mg/l	0.00	0.00	0.00	20	L380821-01	WG399749

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0544	109.	75-134	WG399373
1,1,1-Trichloroethane	mg/l	.05	0.0559	112.	67-137	WG399373
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0565	113.	72-128	WG399373
1,1,2-Trichloroethane	mg/l	.05	0.0541	108.	79-123	WG399373
1,1-Dichloroethane	mg/l	.05	0.0519	104.	67-133	WG399373
1,1-Dichloroethene	mg/l	.05	0.0522	104.	60-130	WG399373
1,1-Dichloropropene	mg/l	.05	0.0525	105.	68-132	WG399373
1,2,3-Trichlorobenzene	mg/l	.05	0.0586	117.	63-138	WG399373
1,2,3-Trichloropropane	mg/l	.05	0.0548	110.	68-130	WG399373
1,2,4-Trichlorobenzene	mg/l	.05	0.0583	117.	65-137	WG399373
1,2,4-Trimethylbenzene	mg/l	.05	0.0604	121.	72-135	WG399373
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0541	108.	55-134	WG399373
1,2-Dibromoethane	mg/l	.05	0.0576	115.	75-126	WG399373
1,2-Dichlorobenzene	mg/l	.05	0.0537	107.	75-122	WG399373
1,2-Dichloroethane	mg/l	.05	0.0512	102.	63-137	WG399373
1,2-Dichloropropane	mg/l	.05	0.0528	106.	74-122	WG399373
1,3,5-Trimethylbenzene	mg/l	.05	0.0601	120.	73-134	WG399373

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December 24, 2008

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,3-Dichlorobenzene	mg/l	.05	0.0555	111.	73-131	WG399373
1,3-Dichloropropane	mg/l	.05	0.0513	103.	77-119	WG399373
1,4-Dichlorobenzene	mg/l	.05	0.0522	104.	70-121	WG399373
2,2-Dichloropropane	mg/l	.05	0.0571	114.	46-151	WG399373
2-Butanone (MEK)	mg/l	.25	0.261	104.	53-132	WG399373
2-Chlorotoluene	mg/l	.05	0.0542	108.	74-128	WG399373
4-Chlorotoluene	mg/l	.05	0.0558	112.	74-130	WG399373
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.295	118.	60-142	WG399373
Acetone	mg/l	.25	0.308	123.	48-134	WG399373
Acrolein	mg/l	.25	0.343	137.	6-182	WG399373
Acrylonitrile	mg/l	.25	0.278	111.	60-140	WG399373
Benzene	mg/l	.05	0.0496	99.2	67-126	WG399373
Bromobenzene	mg/l	.05	0.0519	104.	76-123	WG399373
Bromodichloromethane	mg/l	.05	0.0594	119.	68-133	WG399373
Bromoform	mg/l	.05	0.0516	103.	60-139	WG399373
Bromomethane	mg/l	.05	0.0577	115.	45-175	WG399373
Carbon tetrachloride	mg/l	.05	0.0527	105.	64-141	WG399373
Chlorobenzene	mg/l	.05	0.0535	107.	77-125	WG399373
Chlorodibromomethane	mg/l	.05	0.0590	118.	73-138	WG399373
Chloroethane	mg/l	.05	0.0576	115.	49-155	WG399373
Chloroform	mg/l	.05	0.0524	105.	66-126	WG399373
Chloromethane	mg/l	.05	0.0548	110.	45-152	WG399373
cis-1,2-Dichloroethene	mg/l	.05	0.0548	110.	72-128	WG399373
Di-isopropyl ether	mg/l	.05	0.0567	113.	63-139	WG399373
Dibromomethane	mg/l	.05	0.0548	110.	73-125	WG399373
Dichlorodifluoromethane	mg/l	.05	0.0639	128.	39-189	WG399373
Ethylbenzene	mg/l	.05	0.0553	111.	76-129	WG399373
Isopropylbenzene	mg/l	.05	0.0555	111.	73-132	WG399373
m&p-Xylenes	mg/l	.1	0.111	111.	74-128	WG399373
Methyl tert-butyl ether	mg/l	.05	0.0582	116.	51-142	WG399373
Methylene Chloride	mg/l	.05	0.0575	115.	64-125	WG399373
n-Butylbenzene	mg/l	.05	0.0620	124.	63-142	WG399373
n-Propylbenzene	mg/l	.05	0.0607	121.	71-132	WG399373
Naphthalene	mg/l	.05	0.0557	111.	56-145	WG399373
o-Xylene	mg/l	.05	0.0583	117.	78-128	WG399373
p-Isopropyltoluene	mg/l	.05	0.0630	126.	68-138	WG399373
sec-Butylbenzene	mg/l	.05	0.0560	112.	70-135	WG399373
Styrene	mg/l	.05	0.0593	119.	78-130	WG399373
tert-Butylbenzene	mg/l	.05	0.0603	121.	72-134	WG399373
Tetrachloroethene	mg/l	.05	0.0540	108.	67-135	WG399373
Toluene	mg/l	.05	0.0509	102.	72-122	WG399373
trans-1,2-Dichloroethene	mg/l	.05	0.0585	117.	67-129	WG399373
Trichloroethene	mg/l	.05	0.0521	104.	74-126	WG399373
Trichlorofluoromethane	mg/l	.05	0.0607	121.	54-156	WG399373
Vinyl chloride	mg/l	.05	0.0587	117.	55-153	WG399373
4-Bromofluorobenzene				99.35	75-128	WG399373
Dibromofluoromethane				97.85	79-125	WG399373
Toluene-d8				96.90	87-114	WG399373
a,a,a-Trifluorotoluene				99.14	84-114	WG399373
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0503	101.	73-134	WG399359
1,1,1-Trichloroethane	mg/kg	.05	0.0496	99.2	62-135	WG399359
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0508	102.	74-129	WG399359
1,1,2-Trichloroethane	mg/kg	.05	0.0491	98.3	77-124	WG399359
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0508	102.	49-155	WG399359
1,1-Dichloroethane	mg/kg	.05	0.0504	101.	61-134	WG399359
1,1-Dichloroethene	mg/kg	.05	0.0459	91.8	53-136	WG399359

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L380382

December 24, 2008

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1-Dichloropropene	mg/kg	.05	0.0444	88.7	63-132	WG399359
1,2,3-Trichlorobenzene	mg/kg	.05	0.0496	99.2	62-146	WG399359
1,2,3-Trichloropropane	mg/kg	.05	0.0515	103.	70-133	WG399359
1,2,4-Trichlorobenzene	mg/kg	.05	0.0470	94.1	61-148	WG399359
1,2,4-Trimethylbenzene	mg/kg	.05	0.0484	96.9	68-135	WG399359
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0422	84.3	61-134	WG399359
1,2-Dibromoethane	mg/kg	.05	0.0483	96.5	76-127	WG399359
1,2-Dichlorobenzene	mg/kg	.05	0.0501	100.	77-123	WG399359
1,2-Dichloroethane	mg/kg	.05	0.0539	108.	58-141	WG399359
1,2-Dichloropropane	mg/kg	.05	0.0512	102.	71-128	WG399359
1,3,5-Trimethylbenzene	mg/kg	.05	0.0483	96.7	71-133	WG399359
1,3-Dichlorobenzene	mg/kg	.05	0.0458	91.6	71-132	WG399359
1,3-Dichloropropane	mg/kg	.05	0.0490	97.9	76-120	WG399359
1,4-Dichlorobenzene	mg/kg	.05	0.0480	96.0	72-123	WG399359
2,2-Dichloropropane	mg/kg	.05	0.0475	95.0	50-147	WG399359
2-Butanone (MEK)	mg/kg	.25	0.251	101.	51-131	WG399359
2-Chloroethyl vinyl ether	mg/kg	.25	0.242	96.8	0-188	WG399359
2-Chlorotoluene	mg/kg	.05	0.0492	98.4	73-128	WG399359
4-Chlorotoluene	mg/kg	.05	0.0488	97.6	72-129	WG399359
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.289	116.	61-143	WG399359
Acetone	mg/kg	.25	0.283	113.	44-140	WG399359
Acrylonitrile	mg/kg	.25	0.286	114.	55-143	WG399359
Benzene	mg/kg	.05	0.0451	90.3	65-128	WG399359
Bromobenzene	mg/kg	.05	0.0492	98.4	75-123	WG399359
Bromodichloromethane	mg/kg	.05	0.0555	111.	66-126	WG399359
Bromoform	mg/kg	.05	0.0518	104.	64-139	WG399359
Bromomethane	mg/kg	.05	0.0608	122.	41-175	WG399359
Carbon tetrachloride	mg/kg	.05	0.0451	90.3	60-140	WG399359
Chlorobenzene	mg/kg	.05	0.0475	95.0	75-125	WG399359
Chlorodibromomethane	mg/kg	.05	0.0509	102.	72-137	WG399359
Chloroethane	mg/kg	.05	0.0506	101.	44-159	WG399359
Chloroform	mg/kg	.05	0.0514	103.	63-123	WG399359
Chloromethane	mg/kg	.05	0.0358	71.7	42-149	WG399359
cis-1,2-Dichloroethene	mg/kg	.05	0.0460	92.0	71-129	WG399359
cis-1,3-Dichloropropene	mg/kg	.05	0.0511	102.	73-132	WG399359
Di-isopropyl ether	mg/kg	.05	0.0578	116.	59-143	WG399359
Dibromomethane	mg/kg	.05	0.0511	102.	70-130	WG399359
Dichlorodifluoromethane	mg/kg	.05	0.0390	78.0	26-186	WG399359
Ethylbenzene	mg/kg	.05	0.0474	94.9	74-128	WG399359
Hexachloro-1,3-butadiene	mg/kg	.05	0.0464	92.8	65-137	WG399359
Isopropylbenzene	mg/kg	.05	0.0443	88.7	73-130	WG399359
Methyl tert-butyl ether	mg/kg	.05	0.0592	118.	44-148	WG399359
Methylene Chloride	mg/kg	.05	0.0410	82.1	57-129	WG399359
n-Butylbenzene	mg/kg	.05	0.0481	96.2	60-145	WG399359
n-Propylbenzene	mg/kg	.05	0.0470	93.9	71-132	WG399359
Naphthalene	mg/kg	.05	0.0460	91.9	61-142	WG399359
p-Isopropyltoluene	mg/kg	.05	0.0431	86.1	67-138	WG399359
sec-Butylbenzene	mg/kg	.05	0.0475	95.0	71-134	WG399359
Styrene	mg/kg	.05	0.0455	91.1	76-133	WG399359
tert-Butylbenzene	mg/kg	.05	0.0477	95.4	72-132	WG399359
Tetrachloroethene	mg/kg	.05	0.0365	73.0	65-135	WG399359
Toluene	mg/kg	.05	0.0450	90.0	70-120	WG399359
trans-1,2-Dichloroethene	mg/kg	.05	0.0396	79.3	61-133	WG399359
trans-1,3-Dichloropropene	mg/kg	.05	0.0549	110.	70-135	WG399359
Trichloroethene	mg/kg	.05	0.0403	80.6	71-126	WG399359
Trichlorofluoromethane	mg/kg	.05	0.0528	106.	52-147	WG399359
Vinyl chloride	mg/kg	.05	0.0403	80.6	50-151	WG399359
Xylenes, Total	mg/kg	.15	0.137	91.5	74-127	WG399359

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Bromofluorobenzene				94.06	59-140	
Dibromofluoromethane				101.9	63-139	
Toluene-d8				99.45	84-116	
a,a,a-Trifluorotoluene				96.65	80-118	
1,2,4-Trichlorobenzene	ppm	.333	0.269	80.8	46-99	WG399299
2,4,6-Trichlorophenol	ppm	.333	0.293	88.1	56-109	WG399299
2,4-Dichlorophenol	ppm	.333	0.283	84.9	54-107	WG399299
2,4-Dimethylphenol	ppm	.333	0.409	123.*	58-119	WG399299
2,4-Dinitrophenol	ppm	.333	0.290	87.0	16-130	WG399299
2,4-Dinitrotoluene	ppm	.333	0.268	80.6	53-120	WG399299
2,6-Dinitrotoluene	ppm	.333	0.294	88.2	56-113	WG399299
2-Chloronaphthalene	ppm	.333	0.288	86.4	55-103	WG399299
2-Chlorophenol	ppm	.333	0.280	84.1	52-108	WG399299
2-Nitrophenol	ppm	.333	0.302	90.5	38-110	WG399299
3,3-Dichlorobenzidine	ppm	.333	0.257	77.1	24-123	WG399299
4,6-Dinitro-2-methylphenol	ppm	.333	0.248	74.4	34-111	WG399299
4-Bromophenyl-phenylether	ppm	.333	0.278	83.5	47-98	WG399299
4-Chloro-3-methylphenol	ppm	.333	0.277	83.1	54-116	WG399299
4-Chlorophenyl-phenylether	ppm	.333	0.308	92.5	55-106	WG399299
4-Nitrophenol	ppm	.333	0.278	83.6	34-123	WG399299
Acenaphthene	ppm	.333	0.291	87.3	54-102	WG399299
Acenaphthylene	ppm	.333	0.302	90.6	56-104	WG399299
Anthracene	ppm	.333	0.302	90.5	57-112	WG399299
Benzidine	ppm	.333	0.0496	14.9*	0-13	WG399299
Benzo(a)anthracene	ppm	.333	0.282	84.6	55-105	WG399299
Benzo(a)pyrene	ppm	.333	0.296	88.9	59-114	WG399299
Benzo(b)fluoranthene	ppm	.333	0.288	86.4	44-116	WG399299
Benzo(g,h,i)perylene	ppm	.333	0.268	80.4	41-127	WG399299
Benzo(k)fluoranthene	ppm	.333	0.304	91.2	36-119	WG399299
Benzylbutyl phthalate	ppm	.333	0.329	98.7	57-130	WG399299
Bis(2-chlorethoxy)methane	ppm	.333	0.340	102.	52-107	WG399299
Bis(2-chloroethyl)ether	ppm	.333	0.290	87.2	38-115	WG399299
Bis(2-chloroisopropyl)ether	ppm	.333	0.302	90.8	49-106	WG399299
Bis(2-ethylhexyl)phthalate	ppm	.333	0.331	99.3	50-130	WG399299
Chrysene	ppm	.333	0.275	82.6	54-103	WG399299
Di-n-butyl phthalate	ppm	.333	0.332	99.8	56-121	WG399299
Di-n-octyl phthalate	ppm	.333	0.322	96.8	50-128	WG399299
Dibenz(a,h)anthracene	ppm	.333	0.279	83.8	42-128	WG399299
Diethyl phthalate	ppm	.333	0.315	94.6	57-110	WG399299
Dimethyl phthalate	ppm	.333	0.320	96.1	57-108	WG399299
Fluoranthene	ppm	.333	0.313	93.9	51-109	WG399299
Fluorene	ppm	.333	0.293	87.9	53-106	WG399299
Hexachloro-1,3-butadiene	ppm	.333	0.313	94.0	46-110	WG399299
Hexachlorobenzene	ppm	.333	0.288	86.4	51-117	WG399299
Hexachlorocyclopentadiene	ppm	.333	0.305	91.5	21-127	WG399299
Hexachloroethane	ppm	.333	0.265	79.6	43-104	WG399299
Indeno(1,2,3-cd)pyrene	ppm	.333	0.277	83.1	42-127	WG399299
Isophorone	ppm	.333	0.307	92.3	56-116	WG399299
n-Nitrosodi-n-propylamine	ppm	.333	0.345	104.	54-113	WG399299
n-Nitrosodimethylamine	ppm	.333	0.356	107.	35-111	WG399299
n-Nitrosodiphenylamine	ppm	.333	0.304	91.3	66-126	WG399299
Naphthalene	ppm	.333	0.276	83.0	46-97	WG399299
Nitrobenzene	ppm	.333	0.289	86.8	46-102	WG399299
Pentachlorophenol	ppm	.333	0.260	78.0	37-118	WG399299
Phenanthrene	ppm	.333	0.284	85.3	56-102	WG399299
Phenol	ppm	.333	0.285	85.7	55-115	WG399299
Pyrene	ppm	.333	0.268	80.6	53-111	WG399299
2,4,6-Tribromophenol				93.16	25-137	WG399299

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Est. 1970

ECS Carolinas - Raleigh, NC
Mark Brown
9001 Glenwood Ave

Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2-Fluorobiphenyl				91.12	30-120	
2-Fluorophenol				80.68	26-130	
Nitrobenzene-d5				90.85	18-119	
Phenol-d5				86.19	37-141	
p-Terphenyl-d14				88.00	23-143	
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0518	104.	73-134	WG399568
1,1,1-Trichloroethane	mg/kg	.05	0.0619	124.	62-135	WG399568
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0430	86.0	74-129	WG399568
1,1,2-Trichloroethane	mg/kg	.05	0.0450	89.9	77-124	WG399568
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0661	132.	49-155	WG399568
1,1-Dichloroethane	mg/kg	.05	0.0580	116.	61-134	WG399568
1,1-Dichloroethene	mg/kg	.05	0.0538	108.	53-136	WG399568
1,1-Dichloropropene	mg/kg	.05	0.0627	125.	63-132	WG399568
1,2,3-Trichlorobenzene	mg/kg	.05	0.0450	90.0	62-146	WG399568
1,2,3-Trichloropropane	mg/kg	.05	0.0430	86.0	70-133	WG399568
1,2,4-Trichlorobenzene	mg/kg	.05	0.0480	95.9	61-148	WG399568
1,2,4-Trimethylbenzene	mg/kg	.05	0.0551	110.	68-135	WG399568
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0341	68.3	61-134	WG399568
1,2-Dibromoethane	mg/kg	.05	0.0412	82.4	76-127	WG399568
1,2-Dichlorobenzene	mg/kg	.05	0.0498	99.6	77-123	WG399568
1,2-Dichloroethane	mg/kg	.05	0.0512	102.	58-141	WG399568
1,2-Dichloropropane	mg/kg	.05	0.0557	111.	71-128	WG399568
1,3,5-Trimethylbenzene	mg/kg	.05	0.0565	113.	71-133	WG399568
1,3-Dichlorobenzene	mg/kg	.05	0.0490	98.0	71-132	WG399568
1,3-Dichloropropane	mg/kg	.05	0.0444	88.8	76-120	WG399568
1,4-Dichlorobenzene	mg/kg	.05	0.0506	101.	72-123	WG399568
2,2-Dichloropropane	mg/kg	.05	0.0572	114.	50-147	WG399568
2-Butanone (MEK)	mg/kg	.25	0.221	88.6	51-131	WG399568
2-Chloroethyl vinyl ether	mg/kg	.25	0.144	57.6	0-188	WG399568
2-Chlorotoluene	mg/kg	.05	0.0539	108.	73-128	WG399568
4-Chlorotoluene	mg/kg	.05	0.0526	105.	72-129	WG399568
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.211	84.4	61-143	WG399568
Acetone	mg/kg	.25	0.200	80.2	44-140	WG399568
Acrylonitrile	mg/kg	.25	0.236	94.4	55-143	WG399568
Benzene	mg/kg	.05	0.0547	109.	65-128	WG399568
Bromobenzene	mg/kg	.05	0.0509	102.	75-123	WG399568
Bromodichloromethane	mg/kg	.05	0.0547	109.	66-126	WG399568
Bromoform	mg/kg	.05	0.0443	88.7	64-139	WG399568
Bromomethane	mg/kg	.05	0.0726	145.	41-175	WG399568
Carbon tetrachloride	mg/kg	.05	0.0646	129.	60-140	WG399568
Chlorobenzene	mg/kg	.05	0.0505	101.	75-125	WG399568
Chlorodibromomethane	mg/kg	.05	0.0472	94.3	72-137	WG399568
Chloroethane	mg/kg	.05	0.0729	146.	44-159	WG399568
Chloroform	mg/kg	.05	0.0553	111.	63-123	WG399568
Chloromethane	mg/kg	.05	0.0700	140.	42-149	WG399568
cis-1,2-Dichloroethene	mg/kg	.05	0.0540	108.	71-129	WG399568
cis-1,3-Dichloropropene	mg/kg	.05	0.0548	110.	73-132	WG399568
Di-isopropyl ether	mg/kg	.05	0.0536	107.	59-143	WG399568
Dibromomethane	mg/kg	.05	0.0460	92.1	70-130	WG399568
Dichlorodifluoromethane	mg/kg	.05	0.0688	138.	26-186	WG399568
Ethylbenzene	mg/kg	.05	0.0552	110.	74-128	WG399568
Hexachloro-1,3-butadiene	mg/kg	.05	0.0559	112.	65-137	WG399568
Isopropylbenzene	mg/kg	.05	0.0558	112.	73-130	WG399568
Methyl tert-butyl ether	mg/kg	.05	0.0425	84.9	44-148	WG399568
Methylene Chloride	mg/kg	.05	0.0473	94.6	57-129	WG399568
n-Butylbenzene	mg/kg	.05	0.0630	126.	60-145	WG399568
n-Propylbenzene	mg/kg	.05	0.0574	115.	71-132	WG399568
Naphthalene	mg/kg	.05	0.0388	77.5	61-142	WG399568

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L380382

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
p-Isopropyltoluene	mg/kg	.05	0.0573	115.	67-138	WG399568
sec-Butylbenzene	mg/kg	.05	0.0584	117.	71-134	WG399568
Styrene	mg/kg	.05	0.0514	103.	76-133	WG399568
tert-Butylbenzene	mg/kg	.05	0.0563	113.	72-132	WG399568
Tetrachloroethene	mg/kg	.05	0.0550	110.	65-135	WG399568
Toluene	mg/kg	.05	0.0542	108.	70-120	WG399568
trans-1,2-Dichloroethene	mg/kg	.05	0.0547	109.	61-133	WG399568
trans-1,3-Dichloropropene	mg/kg	.05	0.0506	101.	70-135	WG399568
Trichloroethene	mg/kg	.05	0.0525	105.	71-126	WG399568
Trichlorofluoromethane	mg/kg	.05	0.0898	180.*	52-147	WG399568
Vinyl chloride	mg/kg	.05	0.0635	127.	50-151	WG399568
Xylenes, Total	mg/kg	.15	0.163	109.	74-127	WG399568
4-Bromofluorobenzene				90.41	59-140	WG399568
Dibromofluoromethane				104.1	63-139	WG399568
Toluene-d8				104.2	84-116	WG399568
a,a,a-Trifluorotoluene				101.2	80-118	WG399568
Mercury	mg/kg	8.77	9.32	106.	71.6-127.	WG399370
Total Solids	%	50	50.0	100.	85-115	WG399508
Arsenic	mg/kg	192	173.	90.1	78.6-120.	WG399364
Barium	mg/kg	420	373.	88.8	78.8-121.	WG399364
Cadmium	mg/kg	70.1	62.8	89.6	78.5-121.	WG399364
Chromium	mg/kg	168	155.	92.3	80.4-120.	WG399364
Lead	mg/kg	113	104.	92.0	77.3-122.	WG399364
Selenium	mg/kg	176	164.	93.2	75.6-125.	WG399364
Silver	mg/kg	115	83.9	73.0	66-133.9	WG399364
Arsenic	mg/l	1	1.02	102.	85-115	WG399763
Barium	mg/l	1	1.04	104.	85-115	WG399763
Cadmium	mg/l	1	1.06	106.	85-115	WG399763
Chromium	mg/l	1	0.996	99.6	85-115	WG399763
Lead	mg/l	1	1.05	105.	85-115	WG399763
Selenium	mg/l	1	1.07	107.	85-115	WG399763
Silver	mg/l	1	1.02	102.	85-115	WG399763
1,2,4-Trichlorobenzene	ppm	.01	0.00534	53.4	26-103	WG399465
2,4,6-Trichlorophenol	ppm	.01	0.00672	67.2	49-118	WG399465
2,4-Dichlorophenol	ppm	.01	0.00598	59.8	46-115	WG399465
2,4-Dimethylphenol	ppm	.01	0.00814	81.4	40-124	WG399465
2,4-Dinitrophenol	ppm	.01	0.00740	74.0	10-125	WG399465
2,4-Dinitrotoluene	ppm	.01	0.00831	83.1	56-128	WG399465
2,6-Dinitrotoluene	ppm	.01	0.00677	67.7	56-121	WG399465
2-Chloronaphthalene	ppm	.01	0.00607	60.7	44-110	WG399465
2-Chlorophenol	ppm	.01	0.00498	49.8	38-114	WG399465
2-Nitrophenol	ppm	.01	0.00614	61.4	35-118	WG399465
3,3-Dichlorobenzidine	ppm	.01	0.00876	87.6	46-145	WG399465
4,6-Dinitro-2-methylphenol	ppm	.01	0.00831	83.1	24-119	WG399465
4-Bromophenyl-phenylether	ppm	.01	0.00758	75.8	45-105	WG399465
4-Chloro-3-methylphenol	ppm	.01	0.00665	66.5	47-116	WG399465
4-Chlorophenyl-phenylether	ppm	.01	0.00907	90.7	49-116	WG399465
4-Nitrophenol	ppm	.01	0.00625	62.5	10-66	WG399465

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Acenaphthene	ppm	.01	0.00668	66.8	48-110	WG399465
Acenaphthylene	ppm	.01	0.00687	68.7	48-113	WG399465
Anthracene	ppm	.01	0.00719	71.9	55-127	WG399465
Benzidine	ppm	.01	0.00	0.00	0-46	WG399465
Benzo(a)anthracene	ppm	.01	0.00493	49.3*	57-115	WG399465
Benzo(a)pyrene	ppm	.01	0.00296	29.6*	63-125	WG399465
Benzo(b)fluoranthene	ppm	.01	0.00319	31.9*	50-123	WG399465
Benzo(g,h,i)perylene	ppm	.01	0.00186	18.6*	39-143	WG399465
Benzo(k)fluoranthene	ppm	.01	0.00256	25.6*	45-126	WG399465
Benzylbutyl phthalate	ppm	.01	0.00421	42.1	22-154	WG399465
Bis(2-chlorethoxy)methane	ppm	.01	0.00735	73.5	42-116	WG399465
Bis(2-chloroethyl)ether	ppm	.01	0.00610	61.0	26-115	WG399465
Bis(2-chloroisopropyl)ether	ppm	.01	0.00679	67.9	32-115	WG399465
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00401	40.1*	47-143	WG399465
Chrysene	ppm	.01	0.00366	36.6*	58-113	WG399465
Di-n-butyl phthalate	ppm	.01	0.00559	55.9	51-131	WG399465
Di-n-octyl phthalate	ppm	.01	0.00275	27.5*	51-138	WG399465
Dibenz(a,h)anthracene	ppm	.01	0.00157	15.7*	39-144	WG399465
Diethyl phthalate	ppm	.01	0.00499	49.9	36-128	WG399465
Dimethyl phthalate	ppm	.01	0.00225	22.5	10-135	WG399465
Fluoranthene	ppm	.01	0.00762	76.2	53-119	WG399465
Fluorene	ppm	.01	0.00860	86.0	49-116	WG399465
Hexachloro-1,3-butadiene	ppm	.01	0.00532	53.2	21-116	WG399465
Hexachlorobenzene	ppm	.01	0.00884	88.4	51-121	WG399465
Hexachlorocyclopentadiene	ppm	.01	0.00560	56.0	4-126	WG399465
Hexachloroethane	ppm	.01	0.00505	50.5	15-109	WG399465
Indeno(1,2,3-cd)pyrene	ppm	.01	0.00169	16.9*	40-143	WG399465
Isophorone	ppm	.01	0.00596	59.6	48-126	WG399465
n-Nitrosodi-n-propylamine	ppm	.01	0.00840	84.0	47-122	WG399465
n-Nitrosodimethylamine	ppm	.01	0.00231	23.1	11-69	WG399465
n-Nitrosodiphenylamine	ppm	.01	0.00722	72.2	59-143	WG399465
Naphthalene	ppm	.01	0.00610	61.0	29-103	WG399465
Nitrobenzene	ppm	.01	0.00580	58.0	31-105	WG399465
Pentachlorophenol	ppm	.01	0.00719	71.9	20-122	WG399465
Phenanthrene	ppm	.01	0.00753	75.3	54-112	WG399465
Phenol	ppm	.01	0.00218	21.8	17-52	WG399465
Pyrene	ppm	.01	0.00706	70.6	46-130	WG399465
2,4,6-Tribromophenol				86.06	10-148	WG399465
2-Fluorobiphenyl				59.08	26-122	WG399465
2-Fluorophenol				29.64	10-87	WG399465
Nitrobenzene-d5				58.51	12-120	WG399465
Phenol-d5				22.57	10-67	WG399465
p-Terphenyl-d14				38.19	34-149	WG399465
Mercury	mg/l	.003	0.00272	90.7	85-115	WG399749

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.045	0.054	91.0	75-134	17.9	20	WG399373
1,1,1-Trichloroethane	mg/l	0.046	0.055	93.0	67-137	18.3	20	WG399373
1,1,2,2-Tetrachloroethane	mg/l	0.047	0.056	94.0	72-128	18.4	20	WG399373
1,1,2-Trichloroethane	mg/l	0.047	0.054	95.0	79-123	13.3	20	WG399373
1,1-Dichloroethane	mg/l	0.044	0.051	89.0	67-133	15.4	20	WG399373
1,1-Dichloroethene	mg/l	0.042	0.052	85.0	60-130	21.0*	20	WG399373
1,1-Dichloropropene	mg/l	0.044	0.052	90.0	68-132	15.7	20	WG399373
1,2,3-Trichlorobenzene	mg/l	0.051	0.058	103.	63-138	13.1	20	WG399373

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,2,3-Trichloropropane	mg/l	0.047	0.054	95.0	68-130	14.0	20	WG399373
1,2,4-Trichlorobenzene	mg/l	0.051	0.058	102.	65-137	13.4	20	WG399373
1,2,4-Trimethylbenzene	mg/l	0.050	0.060	101.	72-135	17.5	20	WG399373
1,2-Dibromo-3-Chloropropane	mg/l	0.046	0.054	93.0	55-134	15.4	20	WG399373
1,2-Dibromoethane	mg/l	0.048	0.057	96.0	75-126	17.8	20	WG399373
1,2-Dichlorobenzene	mg/l	0.048	0.053	96.0	75-122	10.8	20	WG399373
1,2-Dichloroethane	mg/l	0.044	0.051	88.0	63-137	14.7	20	WG399373
1,2-Dichloropropane	mg/l	0.045	0.052	92.0	74-122	14.3	20	WG399373
1,3,5-Trimethylbenzene	mg/l	0.049	0.060	99.0	73-134	18.9	20	WG399373
1,3-Dichlorobenzene	mg/l	0.046	0.055	93.0	73-131	17.7	20	WG399373
1,3-Dichloropropane	mg/l	0.043	0.051	88.0	77-119	15.7	20	WG399373
1,4-Dichlorobenzene	mg/l	0.047	0.052	94.0	70-121	9.99	20	WG399373
2,2-Dichloropropane	mg/l	0.049	0.057	98.0	46-151	15.3	20	WG399373
2-Butanone (MEK)	mg/l	0.247	0.261	99.0	53-132	5.60	20	WG399373
2-Chlorotoluene	mg/l	0.044	0.054	90.0	74-128	18.9	20	WG399373
4-Chlorotoluene	mg/l	0.046	0.055	94.0	74-130	17.4	20	WG399373
4-Methyl-2-pentanone (MIBK)	mg/l	0.259	0.295	103.	60-142	13.2	20	WG399373
Acetone	mg/l	0.253	0.308	101.	48-134	19.8	20	WG399373
Acrolein	mg/l	0.279	0.343	112.	6-182	20.7	39	WG399373
Acrylonitrile	mg/l	0.234	0.278	94.0	60-140	17.1	20	WG399373
Benzene	mg/l	0.042	0.049	85.0	67-126	14.9	20	WG399373
Bromobenzene	mg/l	0.042	0.051	86.0	76-123	18.9	20	WG399373
Bromodichloromethane	mg/l	0.049	0.059	100.	68-133	17.5	20	WG399373
Bromoform	mg/l	0.042	0.051	85.0	60-139	19.4	20	WG399373
Bromomethane	mg/l	0.052	0.057	104.	45-175	10.3	20	WG399373
Carbon tetrachloride	mg/l	0.044	0.052	89.0	64-141	16.3	20	WG399373
Chlorobenzene	mg/l	0.046	0.053	92.0	77-125	14.9	20	WG399373
Chlorodibromomethane	mg/l	0.051	0.059	102.	73-138	14.6	20	WG399373
Chloroethane	mg/l	0.049	0.057	99.0	49-155	14.6	20	WG399373
Chloroform	mg/l	0.045	0.052	91.0	66-126	13.6	20	WG399373
Chloromethane	mg/l	0.049	0.054	99.0	45-152	10.3	20	WG399373
cis-1,2-Dichloroethene	mg/l	0.047	0.054	95.0	72-128	14.0	20	WG399373
Di-isopropyl ether	mg/l	0.050	0.056	100.	63-139	12.4	20	WG399373
Dibromomethane	mg/l	0.047	0.054	94.0	73-125	15.2	20	WG399373
Dichlorodifluoromethane	mg/l	0.054	0.063	109.	39-189	15.8	24	WG399373
Ethylbenzene	mg/l	0.047	0.055	95.0	76-129	15.0	20	WG399373
Isopropylbenzene	mg/l	0.046	0.055	92.0	73-132	18.6	20	WG399373
m&p-Xylenes	mg/l	0.094	0.111	94.0	74-128	15.6	20	WG399373
Methyl tert-butyl ether	mg/l	0.049	0.058	99.0	51-142	16.5	20	WG399373
Methylene Chloride	mg/l	0.047	0.057	95.0	64-125	19.3	20	WG399373
n-Butylbenzene	mg/l	0.054	0.062	109.	63-142	13.0	20	WG399373
n-Propylbenzene	mg/l	0.050	0.060	101.	71-132	18.7	20	WG399373
Naphthalene	mg/l	0.049	0.055	99.0	56-145	11.9	20	WG399373
o-Xylene	mg/l	0.048	0.058	98.0	78-128	17.5	20	WG399373
p-Isopropyltoluene	mg/l	0.052	0.063	105.	68-138	18.6	20	WG399373
sec-Butylbenzene	mg/l	0.046	0.056	93.0	70-135	18.6	20	WG399373
Styrene	mg/l	0.050	0.059	100.	78-130	16.8	20	WG399373
tert-Butylbenzene	mg/l	0.050	0.060	101.	72-134	17.4	20	WG399373
Tetrachloroethene	mg/l	0.047	0.054	94.0	67-135	13.5	20	WG399373
Toluene	mg/l	0.043	0.050	87.0	72-122	15.3	20	WG399373
trans-1,2-Dichloroethene	mg/l	0.041	0.058	83.0	67-129	34.5*	20	WG399373
Trichloroethene	mg/l	0.045	0.052	91.0	74-126	13.1	20	WG399373
Trichlorofluoromethane	mg/l	0.052	0.060	105.	54-156	14.6	20	WG399373
Vinyl chloride	mg/l	0.050	0.058	100.	55-153	15.6	20	WG399373
4-Bromofluorobenzene				98.30	75-128			WG399373
Dibromofluoromethane				100.2	79-125			WG399373
Toluene-d8				96.41	87-114			WG399373
a,a,a-Trifluorotoluene				98.94	84-114			WG399373

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Est. 1970

ECS Carolinas - Raleigh, NC
Mark Brown
9001 Glenwood Ave

Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.048	0.050	97.0	73-134	3.75	20	WG399359
1,1,1-Trichloroethane	mg/kg	0.047	0.049	96.0	62-135	3.56	20	WG399359
1,1,2,2-Tetrachloroethane	mg/kg	0.051	0.050	102.	74-129	0.320	20	WG399359
1,1,2-Trichloroethane	mg/kg	0.048	0.049	97.0	77-124	1.65	20	WG399359
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.047	0.050	95.0	49-155	6.72	20	WG399359
1,1-Dichloroethane	mg/kg	0.047	0.050	95.0	61-134	6.11	20	WG399359
1,1-Dichloroethene	mg/kg	0.043	0.045	86.0	53-136	6.35	20	WG399359
1,1-Dichloropropene	mg/kg	0.041	0.044	83.0	63-132	6.77	20	WG399359
1,2,3-Trichlorobenzene	mg/kg	0.048	0.049	98.0	62-146	1.55	20	WG399359
1,2,3-Trichloropropane	mg/kg	0.052	0.051	104.	70-133	1.22	20	WG399359
1,2,4-Trichlorobenzene	mg/kg	0.045	0.047	91.0	61-148	2.99	20	WG399359
1,2,4-Trimethylbenzene	mg/kg	0.046	0.048	93.0	68-135	3.76	20	WG399359
1,2-Dibromo-3-Chloropropane	mg/kg	0.044	0.042	88.0	61-134	4.44	21	WG399359
1,2-Dibromoethane	mg/kg	0.047	0.048	96.0	76-127	0.885	20	WG399359
1,2-Dichlorobenzene	mg/kg	0.047	0.050	95.0	77-123	4.97	20	WG399359
1,2-Dichloroethane	mg/kg	0.051	0.053	102.	58-141	5.11	20	WG399359
1,2-Dichloropropane	mg/kg	0.051	0.051	102.	71-128	0.142	20	WG399359
1,3,5-Trimethylbenzene	mg/kg	0.047	0.048	94.0	71-133	2.79	20	WG399359
1,3-Dichlorobenzene	mg/kg	0.044	0.045	89.0	71-132	2.33	20	WG399359
1,3-Dichloropropane	mg/kg	0.048	0.049	97.0	76-120	1.22	20	WG399359
1,4-Dichlorobenzene	mg/kg	0.045	0.048	91.0	72-123	5.83	20	WG399359
2,2-Dichloropropane	mg/kg	0.045	0.047	91.0	50-147	4.09	20	WG399359
2-Butanone (MEK)	mg/kg	0.259	0.251	104.	51-131	3.12	25	WG399359
2-Chloroethyl vinyl ether	mg/kg	0.239	0.242	96.0	0-188	1.12	39	WG399359
2-Chlorotoluene	mg/kg	0.047	0.049	96.0	73-128	3.02	20	WG399359
4-Chlorotoluene	mg/kg	0.046	0.048	93.0	72-129	4.49	20	WG399359
4-Methyl-2-pentanone (MIBK)	mg/kg	0.284	0.289	114.	61-143	1.68	23	WG399359
Acetone	mg/kg	0.278	0.283	111.	44-140	1.76	25	WG399359
Acrylonitrile	mg/kg	0.284	0.286	113.	55-143	0.662	20	WG399359
Benzene	mg/kg	0.043	0.045	87.0	65-128	4.13	20	WG399359
Bromobenzene	mg/kg	0.048	0.049	96.0	75-123	2.10	20	WG399359
Bromodichloromethane	mg/kg	0.053	0.055	108.	66-126	2.84	20	WG399359
Bromoform	mg/kg	0.052	0.051	105.	64-139	0.873	20	WG399359
Bromomethane	mg/kg	0.053	0.060	107.	41-175	12.4	20	WG399359
Carbon tetrachloride	mg/kg	0.043	0.045	86.0	60-140	4.63	20	WG399359
Chlorobenzene	mg/kg	0.045	0.047	92.0	75-125	3.59	20	WG399359
Chlorodibromomethane	mg/kg	0.050	0.050	101.	72-137	0.969	20	WG399359
Chloroethane	mg/kg	0.047	0.050	95.0	44-159	6.03	20	WG399359
Chloroform	mg/kg	0.048	0.051	97.0	63-123	6.17	20	WG399359
Chloromethane	mg/kg	0.033	0.035	66.0	42-149	8.24	20	WG399359
cis-1,2-Dichloroethene	mg/kg	0.044	0.046	88.0	71-129	4.56	20	WG399359
cis-1,3-Dichloropropene	mg/kg	0.049	0.051	99.0	73-132	3.38	20	WG399359
Di-isopropyl ether	mg/kg	0.055	0.057	111.	59-143	3.85	20	WG399359
Dibromomethane	mg/kg	0.049	0.051	99.0	70-130	2.93	20	WG399359
Dichlorodifluoromethane	mg/kg	0.036	0.039	73.0	26-186	6.68	22	WG399359
Ethylbenzene	mg/kg	0.044	0.047	90.0	74-128	5.70	20	WG399359
Hexachloro-1,3-butadiene	mg/kg	0.044	0.046	90.0	65-137	3.38	20	WG399359
Isopropylbenzene	mg/kg	0.042	0.044	85.0	73-130	4.07	20	WG399359
Methyl tert-butyl ether	mg/kg	0.057	0.059	116.	44-148	2.20	20	WG399359
Methylene Chloride	mg/kg	0.039	0.041	78.0	57-129	4.90	20	WG399359
n-Butylbenzene	mg/kg	0.045	0.048	90.0	60-145	6.30	20	WG399359
n-Propylbenzene	mg/kg	0.045	0.047	91.0	71-132	3.31	20	WG399359
Naphthalene	mg/kg	0.046	0.046	93.0	61-142	1.28	20	WG399359
p-Isopropyltoluene	mg/kg	0.041	0.043	84.0	67-138	2.99	20	WG399359
sec-Butylbenzene	mg/kg	0.045	0.047	92.0	71-134	3.75	20	WG399359
Styrene	mg/kg	0.043	0.045	87.0	76-133	4.30	20	WG399359
tert-Butylbenzene	mg/kg	0.046	0.047	92.0	72-132	3.12	20	WG399359
Tetrachloroethene	mg/kg	0.035	0.036	72.0	65-135	1.77	20	WG399359

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Toluene	mg/kg	0.042	0.045	85.0	70-120	5.58	20	WG399359
trans-1,2-Dichloroethene	mg/kg	0.037	0.039	74.0	61-133	6.86	20	WG399359
trans-1,3-Dichloropropene	mg/kg	0.052	0.054	104.	70-135	5.42	20	WG399359
Trichloroethene	mg/kg	0.039	0.040	79.0	71-126	2.40	20	WG399359
Trichlorofluoromethane	mg/kg	0.048	0.052	97.0	52-147	8.63	20	WG399359
Vinyl chloride	mg/kg	0.037	0.040	75.0	50-151	7.41	20	WG399359
Xylenes, Total	mg/kg	0.132	0.137	88.0	74-127	4.14	20	WG399359
4-Bromofluorobenzene				97.58	59-140			WG399359
Dibromofluoromethane				100.6	63-139			WG399359
Toluene-d8				98.67	84-116			WG399359
a,a,a-Trifluorotoluene				95.93	80-118			WG399359
1,2,4-Trichlorobenzene	ppm	0.252	0.269	76.0	46-99	6.44	24	WG399299
2,4,6-Trichlorophenol	ppm	0.280	0.293	84.0	56-109	4.57	20	WG399299
2,4-Dichlorophenol	ppm	0.260	0.283	78.0	54-107	8.33	21	WG399299
2,4-Dimethylphenol	ppm	0.354	0.409	106.	58-119	14.6	23	WG399299
2,4-Dinitrophenol	ppm	0.306	0.290	92.0	16-130	5.45	45	WG399299
2,4-Dinitrotoluene	ppm	0.270	0.268	81.0	53-120	0.539	23	WG399299
2,6-Dinitrotoluene	ppm	0.266	0.294	80.0	56-113	9.89	22	WG399299
2-Chloronaphthalene	ppm	0.262	0.288	79.0	55-103	9.45	20	WG399299
2-Chlorophenol	ppm	0.255	0.280	76.0	52-108	9.57	24	WG399299
2-Nitrophenol	ppm	0.269	0.302	81.0	38-110	11.3	24	WG399299
3,3-Dichlorobenzidine	ppm	0.227	0.257	68.0	24-123	12.4	35	WG399299
4,6-Dinitro-2-methylphenol	ppm	0.256	0.248	77.0	34-111	3.22	33	WG399299
4-Bromophenyl-phenylether	ppm	0.262	0.278	79.0	47-98	6.09	23	WG399299
4-Chloro-3-methylphenol	ppm	0.269	0.277	81.0	54-116	2.82	23	WG399299
4-Chlorophenyl-phenylether	ppm	0.284	0.308	85.0	55-106	7.99	22	WG399299
4-Nitrophenol	ppm	0.272	0.278	82.0	34-123	2.31	36	WG399299
Acenaphthene	ppm	0.260	0.291	78.0	54-102	11.1	20	WG399299
Acenaphthylene	ppm	0.271	0.302	81.0	56-104	10.6	20	WG399299
Anthracene	ppm	0.280	0.302	84.0	57-112	7.53	21	WG399299
Benzidine	ppm	0.038	0.049	11.0	0-13	26.3	50	WG399299
Benzo(a)anthracene	ppm	0.275	0.282	83.0	55-105	2.45	21	WG399299
Benzo(a)pyrene	ppm	0.275	0.296	83.0	59-114	7.28	22	WG399299
Benzo(b)fluoranthene	ppm	0.272	0.288	82.0	44-116	5.66	33	WG399299
Benzo(g,h,i)perylene	ppm	0.261	0.268	78.0	41-127	2.57	29	WG399299
Benzo(k)fluoranthene	ppm	0.266	0.304	80.0	36-119	13.2	37	WG399299
Benzylbutyl phthalate	ppm	0.311	0.329	93.0	57-130	5.43	27	WG399299
Bis(2-chlorethoxy)methane	ppm	0.288	0.340	87.0	52-107	16.6	21	WG399299
Bis(2-chloroethyl)ether	ppm	0.282	0.290	85.0	38-115	2.82	28	WG399299
Bis(2-chloroisopropyl)ether	ppm	0.286	0.302	86.0	49-106	5.64	25	WG399299
Bis(2-ethylhexyl)phthalate	ppm	0.293	0.331	88.0	50-130	12.1	29	WG399299
Chrysene	ppm	0.248	0.275	75.0	54-103	10.1	23	WG399299
Di-n-butyl phthalate	ppm	0.320	0.332	96.0	56-121	3.91	22	WG399299
Di-n-octyl phthalate	ppm	0.280	0.322	84.0	50-128	14.2	26	WG399299
Dibenz(a,h)anthracene	ppm	0.271	0.279	81.0	42-128	2.96	28	WG399299
Diethyl phthalate	ppm	0.286	0.315	86.0	57-110	9.57	20	WG399299
Dimethyl phthalate	ppm	0.295	0.320	89.0	57-108	8.07	20	WG399299
Fluoranthene	ppm	0.290	0.313	87.0	51-109	7.52	26	WG399299
Fluorene	ppm	0.265	0.293	80.0	53-106	9.88	20	WG399299
Hexachloro-1,3-butadiene	ppm	0.271	0.313	81.0	46-110	14.4	25	WG399299
Hexachlorobenzene	ppm	0.266	0.288	80.0	51-117	7.83	24	WG399299
Hexachlorocyclopentadiene	ppm	0.259	0.305	78.0	21-127	16.1	40	WG399299
Hexachloroethane	ppm	0.229	0.265	69.0	43-104	14.4	27	WG399299
Indeno(1,2,3-cd)pyrene	ppm	0.268	0.277	80.0	42-127	3.27	28	WG399299
Isophorone	ppm	0.264	0.307	79.0	56-116	15.3	21	WG399299
n-Nitrosodi-n-propylamine	ppm	0.317	0.345	95.0	54-113	8.50	21	WG399299

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
n-Nitrosodimethylamine	ppm	0.308	0.356	92.0	35-111	14.5	35	WG399299
n-Nitrosodiphenylamine	ppm	0.280	0.304	84.0	66-126	8.13	22	WG399299
Naphthalene	ppm	0.255	0.276	77.0	46-97	8.13	23	WG399299
Nitrobenzene	ppm	0.254	0.289	76.0	46-102	13.0	23	WG399299
Pentachlorophenol	ppm	0.265	0.260	80.0	37-118	2.20	28	WG399299
Phenanthrene	ppm	0.265	0.284	80.0	56-102	6.82	20	WG399299
Phenol	ppm	0.267	0.285	80.0	55-115	6.65	22	WG399299
Pyrene	ppm	0.283	0.268	85.0	53-111	5.37	26	WG399299
2,4,6-Tribromophenol				87.63	25-137			WG399299
2-Fluorobiphenyl				81.53	30-120			WG399299
2-Fluorophenol				73.25	26-130			WG399299
Nitrobenzene-d5				76.95	18-119			WG399299
Phenol-d5				77.83	37-141			WG399299
p-Terphenyl-d14				90.02	23-143			WG399299
1,1,1,2-Tetrachloroethane	mg/kg	0.048	0.051	96.0	73-134	7.42	20	WG399568
1,1,1-Trichloroethane	mg/kg	0.057	0.061	114.	62-135	7.80	20	WG399568
1,1,2,2-Tetrachloroethane	mg/kg	0.039	0.043	79.0	74-129	8.28	20	WG399568
1,1,2-Trichloroethane	mg/kg	0.041	0.045	83.0	77-124	7.86	20	WG399568
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.060	0.066	121.	49-155	8.94	20	WG399568
1,1-Dichloroethane	mg/kg	0.055	0.058	110.	61-134	4.94	20	WG399568
1,1-Dichloroethene	mg/kg	0.049	0.053	99.0	53-136	7.85	20	WG399568
1,1-Dichloropropene	mg/kg	0.059	0.062	118.	63-132	5.76	20	WG399568
1,2,3-Trichlorobenzene	mg/kg	0.044	0.045	88.0	62-146	1.71	20	WG399568
1,2,3-Trichloropropane	mg/kg	0.039	0.043	79.0	70-133	9.03	20	WG399568
1,2,4-Trichlorobenzene	mg/kg	0.046	0.048	93.0	61-148	3.52	20	WG399568
1,2,4-Trimethylbenzene	mg/kg	0.050	0.055	102.	68-135	7.82	20	WG399568
1,2-Dibromo-3-Chloropropane	mg/kg	0.031	0.034	64.0	61-134	6.79	21	WG399568
1,2-Dibromoethane	mg/kg	0.038	0.041	76.0	76-127	7.55	20	WG399568
1,2-Dichlorobenzene	mg/kg	0.047	0.049	94.0	77-123	5.83	20	WG399568
1,2-Dichloroethane	mg/kg	0.047	0.051	96.0	58-141	6.64	20	WG399568
1,2-Dichloropropane	mg/kg	0.053	0.055	107.	71-128	4.44	20	WG399568
1,3,5-Trimethylbenzene	mg/kg	0.052	0.056	105.	71-133	7.43	20	WG399568
1,3-Dichlorobenzene	mg/kg	0.045	0.049	92.0	71-132	6.75	20	WG399568
1,3-Dichloropropane	mg/kg	0.041	0.044	82.0	76-120	7.71	20	WG399568
1,4-Dichlorobenzene	mg/kg	0.047	0.050	96.0	72-123	5.44	20	WG399568
2,2-Dichloropropane	mg/kg	0.052	0.057	106.	50-147	7.93	20	WG399568
2-Butanone (MEK)	mg/kg	0.203	0.221	81.0	51-131	8.49	25	WG399568
2-Chloroethyl vinyl ether	mg/kg	0.138	0.144	55.0	0-188	3.96	39	WG399568
2-Chlorotoluene	mg/kg	0.050	0.053	100.	73-128	7.57	20	WG399568
4-Chlorotoluene	mg/kg	0.048	0.052	98.0	72-129	7.24	20	WG399568
4-Methyl-2-pentanone (MIBK)	mg/kg	0.196	0.211	78.0	61-143	7.44	23	WG399568
Acetone	mg/kg	0.183	0.200	73.0	44-140	9.05	25	WG399568
Acrylonitrile	mg/kg	0.215	0.236	86.0	55-143	9.50	20	WG399568
Benzene	mg/kg	0.051	0.054	104.	65-128	5.29	20	WG399568
Bromobenzene	mg/kg	0.047	0.050	95.0	75-123	7.28	20	WG399568
Bromodichloromethane	mg/kg	0.050	0.054	102.	66-126	7.52	20	WG399568
Bromoform	mg/kg	0.040	0.044	81.0	64-139	9.07	20	WG399568
Bromomethane	mg/kg	0.067	0.072	135.	41-175	7.49	20	WG399568
Carbon tetrachloride	mg/kg	0.059	0.064	118.	60-140	8.59	20	WG399568
Chlorobenzene	mg/kg	0.046	0.050	94.0	75-125	7.38	20	WG399568
Chlorodibromomethane	mg/kg	0.043	0.047	87.0	72-137	7.58	20	WG399568
Chloroethane	mg/kg	0.067	0.072	135.	44-159	7.67	20	WG399568
Chloroform	mg/kg	0.052	0.055	106.	63-123	4.55	20	WG399568
Chloromethane	mg/kg	0.065	0.070	130.	42-149	7.12	20	WG399568
cis-1,2-Dichloroethene	mg/kg	0.051	0.054	104.	71-129	4.02	20	WG399568
cis-1,3-Dichloropropene	mg/kg	0.051	0.054	102.	73-132	7.11	20	WG399568

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Di-isopropyl ether	mg/kg	0.051	0.053	103.	59-143	3.73	20	WG399568
Dibromomethane	mg/kg	0.043	0.046	87.0	70-130	5.97	20	WG399568
Dichlorodifluoromethane	mg/kg	0.061	0.068	123.	26-186	11.1	22	WG399568
Ethylbenzene	mg/kg	0.050	0.055	102.	74-128	8.06	20	WG399568
Hexachloro-1,3-butadiene	mg/kg	0.052	0.055	106.	65-137	5.58	20	WG399568
Isopropylbenzene	mg/kg	0.051	0.055	103.	73-130	8.19	20	WG399568
Methyl tert-butyl ether	mg/kg	0.041	0.042	82.0	44-148	3.11	20	WG399568
Methylene Chloride	mg/kg	0.044	0.047	89.0	57-129	5.76	20	WG399568
n-Butylbenzene	mg/kg	0.058	0.063	117.	60-145	7.17	20	WG399568
n-Propylbenzene	mg/kg	0.052	0.057	105.	71-132	8.55	20	WG399568
Naphthalene	mg/kg	0.037	0.038	75.0	61-142	3.69	20	WG399568
p-Isopropyltoluene	mg/kg	0.052	0.057	105.	67-138	8.81	20	WG399568
sec-Butylbenzene	mg/kg	0.053	0.058	107.	71-134	9.06	20	WG399568
Styrene	mg/kg	0.048	0.051	96.0	76-133	6.45	20	WG399568
tert-Butylbenzene	mg/kg	0.051	0.056	103.	72-132	9.20	20	WG399568
Tetrachloroethene	mg/kg	0.050	0.055	101.	65-135	8.81	20	WG399568
Toluene	mg/kg	0.050	0.054	102.	70-120	6.51	20	WG399568
trans-1,2-Dichloroethene	mg/kg	0.050	0.054	102.	61-133	7.53	20	WG399568
trans-1,3-Dichloropropene	mg/kg	0.046	0.050	94.0	70-135	7.77	20	WG399568
Trichloroethene	mg/kg	0.049	0.052	99.0	71-126	5.73	20	WG399568
Trichlorofluoromethane	mg/kg	0.081	0.089	162*	52-147	10.4	20	WG399568
Vinyl chloride	mg/kg	0.057	0.063	115.	50-151	10.2	20	WG399568
Xylenes, Total	mg/kg	0.152	0.163	101.	74-127	7.27	20	WG399568
4-Bromofluorobenzene				89.31	59-140			WG399568
Dibromofluoromethane				104.0	63-139			WG399568
Toluene-d8				103.7	84-116			WG399568
a,a,a-Trifluorotoluene				100.4	80-118			WG399568
1,2,4-Trichlorobenzene	ppm	0.005	0.005	59.0	26-103	10.6	38	WG399465
2,4,6-Trichlorophenol	ppm	0.007	0.006	77.0	49-118	12.9	28	WG399465
2,4-Dichlorophenol	ppm	0.006	0.005	68.0	46-115	13.3	28	WG399465
2,4-Dimethylphenol	ppm	0.009	0.008	90.0	40-124	10.4	36	WG399465
2,4-Dinitrophenol	ppm	0.007	0.007	80.0	10-125	7.17	50	WG399465
2,4-Dinitrotoluene	ppm	0.009	0.008	90.0	56-128	8.08	24	WG399465
2,6-Dinitrotoluene	ppm	0.007	0.006	72.0	56-121	6.71	23	WG399465
2-Chloronaphthalene	ppm	0.006	0.006	66.0	44-110	8.52	30	WG399465
2-Chlorophenol	ppm	0.005	0.004	57.0	38-114	13.0	36	WG399465
2-Nitrophenol	ppm	0.007	0.006	71.0	35-118	13.9	35	WG399465
3,3-Dichlorobenzidine	ppm	0.009	0.008	93.0	46-145	6.41	31	WG399465
4,6-Dinitro-2-methylphenol	ppm	0.008	0.008	87.0	24-119	4.47	50	WG399465
4-Bromophenyl-phenylether	ppm	0.007	0.007	77.0	45-105	2.09	26	WG399465
4-Chloro-3-methylphenol	ppm	0.007	0.006	72.0	47-116	7.80	22	WG399465
4-Chlorophenyl-phenylether	ppm	0.009	0.009	97.0	49-116	6.82	26	WG399465
4-Nitrophenol	ppm	0.006	0.006	64.0	10-66	1.74	37	WG399465
Acenaphthene	ppm	0.007	0.006	72.0	48-110	6.94	26	WG399465
Acenaphthylene	ppm	0.007	0.006	74.0	48-113	6.89	28	WG399465
Anthracene	ppm	0.007	0.007	74.0	55-127	2.74	24	WG399465
Benzidine	ppm	0.00	0.00	0.00	0-46	0.00	50	WG399465
Benzo(a)anthracene	ppm	0.005	0.004	55*	57-115	10.4	20	WG399465
Benzo(a)pyrene	ppm	0.003	0.002	35*	63-125	17.3	22	WG399465
Benzo(b)fluoranthene	ppm	0.003	0.003	38*	50-123	18.5	32	WG399465
Benzo(g,h,i)perylene	ppm	0.002	0.001	21*	39-143	10.2	31	WG399465
Benzo(k)fluoranthene	ppm	0.002	0.002	29*	45-126	13.5	37	WG399465
Benzylbutyl phthalate	ppm	0.004	0.004	48.0	22-154	13.1	29	WG399465
Bis(2-chlorethoxy)methane	ppm	0.007	0.007	78.0	42-116	5.94	38	WG399465
Bis(2-chloroethyl)ether	ppm	0.006	0.006	70.0	26-115	13.0	50	WG399465
Bis(2-chloroisopropyl)ether	ppm	0.007	0.006	75.0	32-115	9.40	47	WG399465

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Bis(2-ethylhexyl)phthalate	ppm	0.003	0.004	32*	47-143	24.0*	24	WG399465
Chrysene	ppm	0.004	0.003	41*	58-113	10.1	21	WG399465
Di-n-butyl phthalate	ppm	0.006	0.005	61.0	51-131	8.23	22	WG399465
Di-n-octyl phthalate	ppm	0.003	0.002	31*	51-138	11.0	22	WG399465
Dibenz(a,h)anthracene	ppm	0.001	0.001	19*	39-144	16.9	30	WG399465
Diethyl phthalate	ppm	0.006	0.004	61.0	36-128	20.3	27	WG399465
Dimethyl phthalate	ppm	0.003	0.002	34.0	10-135	40.7*	33	WG399465
Fluoranthene	ppm	0.008	0.007	82.0	53-119	6.84	28	WG399465
Fluorene	ppm	0.009	0.008	91.0	49-116	5.76	25	WG399465
Hexachloro-1,3-butadiene	ppm	0.006	0.005	60.0	21-116	12.3	50	WG399465
Hexachlorobenzene	ppm	0.008	0.008	89.0	51-121	1.12	23	WG399465
Hexachlorocyclopentadiene	ppm	0.006	0.005	68.0	4-126	19.5	50	WG399465
Hexachloroethane	ppm	0.005	0.005	57.0	15-109	12.1	50	WG399465
Indeno(1,2,3-cd)pyrene	ppm	0.001	0.001	20*	40-143	15.8	30	WG399465
Isophorone	ppm	0.006	0.005	65.0	48-126	9.13	31	WG399465
n-Nitrosodi-n-propylamine	ppm	0.009	0.008	92.0	47-122	8.87	33	WG399465
n-Nitrosodimethylamine	ppm	0.002	0.002	25.0	11-69	8.30	50	WG399465
n-Nitrosodiphenylamine	ppm	0.007	0.007	73.0	59-143	0.965	23	WG399465
Naphthalene	ppm	0.006	0.006	67.0	29-103	9.38	45	WG399465
Nitrobenzene	ppm	0.006	0.005	65.0	31-105	11.1	43	WG399465
Pentachlorophenol	ppm	0.007	0.007	74.0	20-122	3.28	50	WG399465
Phenanthrene	ppm	0.007	0.007	76.0	54-112	1.06	22	WG399465
Phenol	ppm	0.002	0.002	25.0	17-52	11.7	33	WG399465
Pyrene	ppm	0.007	0.007	71.0	46-130	0.142	28	WG399465
2,4,6-Tribromophenol				85.04	10-148			WG399465
2-Fluorobiphenyl				62.77	26-122			WG399465
2-Fluorophenol				33.66	10-87			WG399465
Nitrobenzene-d5				65.62	12-120			WG399465
Phenol-d5				24.43	10-67			WG399465
p-Terphenyl-d14				43.59	34-149			WG399465

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.043	0.00	.05	86.2	45-152	L380382-02	WG399373
1,1,1-Trichloroethane	mg/l	0.036	0.00	.05	73.3	31-161	L380382-02	WG399373
1,1,2,2-Tetrachloroethane	mg/l	0.047	0.00	.05	95.9	49-149	L380382-02	WG399373
1,1,2-Trichloroethane	mg/l	0.043	0.00	.05	86.8	46-145	L380382-02	WG399373
1,1-Dichloroethane	mg/l	0.036	0.00	.05	73.5	30-159	L380382-02	WG399373
1,1-Dichloroethene	mg/l	0.030	0.00	.05	61.8	10-162	L380382-02	WG399373
1,1-Dichloropropene	mg/l	0.031	0.00	.05	62.1	14-162	L380382-02	WG399373
1,2,3-Trichlorobenzene	mg/l	0.047	0.00	.05	95.5	32-143	L380382-02	WG399373
1,2,3-Trichloropropane	mg/l	0.044	0.00	.05	88.4	48-148	L380382-02	WG399373
1,2,4-Trichlorobenzene	mg/l	0.046	0.00	.05	93.3	27-142	L380382-02	WG399373
1,2,4-Trimethylbenzene	mg/l	0.039	0.00	.05	79.7	29-153	L380382-02	WG399373
1,2-Dibromo-3-Chloropropane	mg/l	0.044	0.00	.05	88.5	37-148	L380382-02	WG399373
1,2-Dibromoethane	mg/l	0.042	0.00	.05	85.6	41-149	L380382-02	WG399373
1,2-Dichlorobenzene	mg/l	0.041	0.00	.05	83.9	40-139	L380382-02	WG399373
1,2-Dichloroethane	mg/l	0.037	0.00	.05	74.3	29-167	L380382-02	WG399373
1,2-Dichloropropane	mg/l	0.037	0.00	.05	75.6	39-148	L380382-02	WG399373
1,3,5-Trimethylbenzene	mg/l	0.038	0.00	.05	77.5	33-149	L380382-02	WG399373
1,3-Dichlorobenzene	mg/l	0.040	0.00	.05	80.2	32-148	L380382-02	WG399373
1,3-Dichloropropane	mg/l	0.039	0.00	.05	79.8	44-142	L380382-02	WG399373
1,4-Dichlorobenzene	mg/l	0.037	0.00	.05	75.4	32-136	L380382-02	WG399373
2,2-Dichloropropane	mg/l	0.039	0.00	.05	79.8	14-158	L380382-02	WG399373
2-Butanone (MEK)	mg/l	0.214	0.00	.25	85.4	32-151	L380382-02	WG399373
2-Chlorotoluene	mg/l	0.038	0.00	.05	76.7	35-147	L380382-02	WG399373
4-Chlorotoluene	mg/l	0.038	0.00	.05	77.1	33-147	L380382-02	WG399373

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4-Methyl-2-pentanone (MIBK)	mg/l	0.234	0.00	.25	93.7	40-160	L380382-02	WG399373
Acetone	mg/l	0.247	0.00	.25	98.8	25-157	L380382-02	WG399373
Acrolein	mg/l	0.216	0.00	.25	86.5	0-179	L380382-02	WG399373
Acrylonitrile	mg/l	0.232	0.00	.25	92.7	37-162	L380382-02	WG399373
Benzene	mg/l	0.032	0.00	.05	65.0	16-158	L380382-02	WG399373
Bromobenzene	mg/l	0.037	0.00	.05	74.6	37-147	L380382-02	WG399373
Bromodichloromethane	mg/l	0.041	0.00	.05	83.0	45-147	L380382-02	WG399373
Bromoform	mg/l	0.043	0.00	.05	86.4	38-152	L380382-02	WG399373
Bromomethane	mg/l	0.029	0.00	.05	59.3	0-191	L380382-02	WG399373
Carbon tetrachloride	mg/l	0.034	0.00	.05	69.6	22-168	L380382-02	WG399373
Chlorobenzene	mg/l	0.038	0.00	.05	76.3	33-148	L380382-02	WG399373
Chlorodibromomethane	mg/l	0.047	0.00	.05	95.7	48-151	L380382-02	WG399373
Chloroethane	mg/l	0.030	0.00	.05	61.6	4-176	L380382-02	WG399373
Chloroform	mg/l	0.036	0.00	.05	73.4	37-147	L380382-02	WG399373
Chloromethane	mg/l	0.028	0.00	.05	57.4	10-174	L380382-02	WG399373
cis-1,2-Dichloroethene	mg/l	0.037	0.001	.05	73.3	29-156	L380382-02	WG399373
Di-isopropyl ether	mg/l	0.041	0.00	.05	82.9	39-160	L380382-02	WG399373
Dibromomethane	mg/l	0.036	0.00	.05	73.1	36-152	L380382-02	WG399373
Dichlorodifluoromethane	mg/l	0.030	0.00	.05	60.6	0-200	L380382-02	WG399373
Ethylbenzene	mg/l	0.036	0.00	.05	73.7	29-150	L380382-02	WG399373
Isopropylbenzene	mg/l	0.040	0.00	.05	80.6	35-147	L380382-02	WG399373
m&p-Xylenes	mg/l	0.070	0.00	.1	70.3	24-151	L380382-02	WG399373
Methyl tert-butyl ether	mg/l	0.043	0.00	.05	86.5	24-167	L380382-02	WG399373
Methylene Chloride	mg/l	0.035	0.00	.05	71.6	23-151	L380382-02	WG399373
n-Butylbenzene	mg/l	0.039	0.00	.05	78.5	22-151	L380382-02	WG399373
n-Propylbenzene	mg/l	0.037	0.00	.05	75.4	26-150	L380382-02	WG399373
Naphthalene	mg/l	0.044	0.00	.05	88.8	24-160	L380382-02	WG399373
o-Xylene	mg/l	0.039	0.00	.05	79.3	32-151	L380382-02	WG399373
p-Isopropyltoluene	mg/l	0.041	0.00	.05	82.6	28-151	L380382-02	WG399373
sec-Butylbenzene	mg/l	0.040	0.00	.05	80.7	32-149	L380382-02	WG399373
Styrene	mg/l	0.041	0.00	.05	82.7	38-149	L380382-02	WG399373
tert-Butylbenzene	mg/l	0.042	0.00	.05	85.6	36-149	L380382-02	WG399373
Tetrachloroethene	mg/l	0.030	0.00	.05	61.9	13-157	L380382-02	WG399373
Toluene	mg/l	0.031	0.00	.05	62.7	22-152	L380382-02	WG399373
trans-1,2-Dichloroethene	mg/l	0.032	0.00	.05	65.4	11-160	L380382-02	WG399373
Trichloroethene	mg/l	0.033	0.00	.05	66.0	18-163	L380382-02	WG399373
Trichlorofluoromethane	mg/l	0.035	0.00	.05	70.1	10-177	L380382-02	WG399373
Vinyl chloride	mg/l	0.029	0.00	.05	59.1	0-179	L380382-02	WG399373
4-Bromofluorobenzene					102.5	75-128		WG399373
Dibromofluoromethane					95.35	79-125		WG399373
Toluene-d8					95.80	87-114		WG399373
a,a,a-Trifluorotoluene					97.20	84-114		WG399373
1,1,1,2-Tetrachloroethane	mg/kg	0.905	0.00	.05	47.6	29-145	L379788-06	WG399359
1,1,1-Trichloroethane	mg/kg	1.81	0.00	.05	95.1	23-147	L379788-06	WG399359
1,1,2,2-Tetrachloroethane	mg/kg	1.05	0.00	.05	55.4	18-150	L379788-06	WG399359
1,1,2-Trichloroethane	mg/kg	1.94	0.00	.05	102.	35-140	L379788-06	WG399359
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	1.31	0.00	.05	68.9	10-145	L379788-06	WG399359
1,1-Dichloroethane	mg/kg	1.89	0.00	.05	99.3	24-148	L379788-06	WG399359
1,1-Dichloroethene	mg/kg	1.65	0.00	.05	86.7	10-149	L379788-06	WG399359
1,1-Dichloropropene	mg/kg	1.86	0.00	.05	98.1	10-141	L379788-06	WG399359
1,2,3-Trichlorobenzene	mg/kg	1.71	0.00	.05	90.0	10-129	L379788-06	WG399359
1,2,3-Trichloropropane	mg/kg	0.870	0.00	.05	45.8	30-148	L379788-06	WG399359
1,2,4-Trichlorobenzene	mg/kg	1.78	0.010	.05	93.0	10-119	L379788-06	WG399359
1,2,4-Trimethylbenzene	mg/kg	1.02	0.134	.05	46.8	10-145	L379788-06	WG399359
1,2-Dibromo-3-Chloropropane	mg/kg	1.50	0.00	.05	79.2	19-145	L379788-06	WG399359
1,2-Dibromoethane	mg/kg	0.888	0.00	.05	46.7	24-145	L379788-06	WG399359

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichlorobenzene	mg/kg	1.81	0.001	.05	95.3	12-130	L379788-06	WG399359
1,2-Dichloroethane	mg/kg	1.89	0.00	.05	99.3	21-155	L379788-06	WG399359
1,2-Dichloropropane	mg/kg	3.17	0.00	.05	167.*	28-144	L379788-06	WG399359
1,3,5-Trimethylbenzene	mg/kg	0.923	0.044	.05	46.2	10-135	L379788-06	WG399359
1,3-Dichlorobenzene	mg/kg	0.843	0.001	.05	44.3	10-129	L379788-06	WG399359
1,3-Dichloropropane	mg/kg	0.799	0.00	.05	42.0	31-137	L379788-06	WG399359
1,4-Dichlorobenzene	mg/kg	1.71	0.003	.05	89.9	10-121	L379788-06	WG399359
2,2-Dichloropropane	mg/kg	1.52	0.00	.05	79.8	18-144	L379788-06	WG399359
2-Butanone (MEK)	mg/kg	8.95	0.00	.25	94.2	21-143	L379788-06	WG399359
2-Chloroethyl vinyl ether	mg/kg	8.53	0.00	.25	89.7	0-176	L379788-06	WG399359
2-Chlorotoluene	mg/kg	0.894	0.00	.05	47.0	10-132	L379788-06	WG399359
4-Chlorotoluene	mg/kg	0.945	0.00	.05	49.7	10-129	L379788-06	WG399359
4-Methyl-2-pentanone (MIBK)	mg/kg	10.4	0.00	.25	109.	31-151	L379788-06	WG399359
Acetone	mg/kg	12.4	0.00	.25	130.	13-158	L379788-06	WG399359
Acrylonitrile	mg/kg	10.5	0.00	.25	111.	20-154	L379788-06	WG399359
Benzene	mg/kg	2.11	0.260	.05	97.6	16-143	L379788-06	WG399359
Bromobenzene	mg/kg	0.989	0.00	.05	52.1	14-135	L379788-06	WG399359
Bromodichloromethane	mg/kg	1.85	0.00	.05	97.2	27-139	L379788-06	WG399359
Bromoform	mg/kg	0.818	0.00	.05	43.1	21-144	L379788-06	WG399359
Bromomethane	mg/kg	0.891	0.00	.05	46.9	0-180	L379788-06	WG399359
Carbon tetrachloride	mg/kg	1.71	0.004	.05	89.8	12-149	L379788-06	WG399359
Chlorobenzene	mg/kg	0.852	0.00	.05	44.9	17-134	L379788-06	WG399359
Chlorodibromomethane	mg/kg	0.866	0.00	.05	45.6	28-147	L379788-06	WG399359
Chloroethane	mg/kg	0.406	0.00	.05	21.4	0-172	L379788-06	WG399359
Chloroform	mg/kg	1.84	0.00	.05	96.9	28-138	L379788-06	WG399359
Chloromethane	mg/kg	1.55	0.005	.05	81.2	10-158	L379788-06	WG399359
cis-1,2-Dichloroethene	mg/kg	1.82	0.00	.05	95.7	21-147	L379788-06	WG399359
cis-1,3-Dichloropropene	mg/kg	1.72	0.004	.05	90.1	17-145	L379788-06	WG399359
Di-isopropyl ether	mg/kg	1.94	0.00	.05	102.	31-153	L379788-06	WG399359
Dibromomethane	mg/kg	1.98	0.00	.05	104.	24-147	L379788-06	WG399359
Dichlorodifluoromethane	mg/kg	1.63	0.00	.05	86.0	0-192	L379788-06	WG399359
Ethylbenzene	mg/kg	3.13	2.20	.05	48.8	12-137	L379788-06	WG399359
Hexachloro-1,3-butadiene	mg/kg	1.73	0.00	.05	90.9	10-123	L379788-06	WG399359
Isopropylbenzene	mg/kg	1.18	0.279	.05	47.4	14-134	L379788-06	WG399359
Methyl tert-butyl ether	mg/kg	1.96	0.00	.05	103.	21-157	L379788-06	WG399359
Methylene Chloride	mg/kg	1.55	0.00	.05	81.6	12-149	L379788-06	WG399359
n-Butylbenzene	mg/kg	2.64	0.772	.05	98.5	10-130	L379788-06	WG399359
n-Propylbenzene	mg/kg	1.63	0.794	.05	44.0	10-130	L379788-06	WG399359
Naphthalene	mg/kg	3.18	1.60	.05	83.1	0-146	L379788-06	WG399359
p-Isopropyltoluene	mg/kg	0.849	0.017	.05	43.8	10-131	L379788-06	WG399359
sec-Butylbenzene	mg/kg	1.06	0.149	.05	47.9	10-134	L379788-06	WG399359
Styrene	mg/kg	0.830	0.00	.05	43.7	10-140	L379788-06	WG399359
tert-Butylbenzene	mg/kg	0.878	0.008	.05	45.7	11-137	L379788-06	WG399359
Tetrachloroethene	mg/kg	0.769	0.00	.05	40.4	10-131	L379788-06	WG399359
Toluene	mg/kg	1.93	0.00	.05	102.	12-136	L379788-06	WG399359
trans-1,2-Dichloroethene	mg/kg	1.86	0.00	.05	97.9	10-143	L379788-06	WG399359
trans-1,3-Dichloropropene	mg/kg	1.83	0.00	.05	96.2	16-147	L379788-06	WG399359
Trichloroethene	mg/kg	1.68	0.00	.05	88.2	10-155	L379788-06	WG399359
Trichlorofluoromethane	mg/kg	1.16	0.00	.05	61.0	10-154	L379788-06	WG399359
Vinyl chloride	mg/kg	1.72	0.00	.05	90.6	10-159	L379788-06	WG399359
Xylenes, Total	mg/kg	3.29	0.670	.15	45.9	10-138	L379788-06	WG399359
4-Bromofluorobenzene					75.99	59-140		WG399359
Dibromofluoromethane					92.75	63-139		WG399359
Toluene-d8					113.1	84-116		WG399359
a,a,a-Trifluorotoluene					95.95	80-118		WG399359
1,2,4-Trichlorobenzene	ppm	0.235	0.00	.333	70.6	37-104	L380255-11	WG399299

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Est. 1970

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Mark Brown
9001 Glenwood Ave

Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2,4,6-Trichlorophenol	ppm	0.235	0.00	.333	70.7	27-128	L380255-11	WG399299
2,4-Dichlorophenol	ppm	0.253	0.00	.333	76.0	39-116	L380255-11	WG399299
2,4-Dimethylphenol	ppm	0.353	0.00	.333	106.	50-119	L380255-11	WG399299
2,4-Dinitrophenol	ppm	0.179	0.00	.333	53.7	10-123	L380255-11	WG399299
2,4-Dinitrotoluene	ppm	0.231	0.00	.333	69.3	52-121	L380255-11	WG399299
2,6-Dinitrotoluene	ppm	0.235	0.00	.333	70.4	53-114	L380255-11	WG399299
2-Chloronaphthalene	ppm	0.256	0.00	.333	76.9	52-101	L380255-11	WG399299
2-Chlorophenol	ppm	0.241	0.00	.333	72.3	41-112	L380255-11	WG399299
2-Nitrophenol	ppm	0.220	0.00	.333	66.1	23-117	L380255-11	WG399299
3,3-Dichlorobenzidine	ppm	0.253	0.00	.333	75.9	10-133	L380255-11	WG399299
4,6-Dinitro-2-methylphenol	ppm	0.068	0.00	.333	20.5	10-124	L380255-11	WG399299
4-Bromophenyl-phenylether	ppm	0.237	0.00	.333	71.1	37-103	L380255-11	WG399299
4-Chloro-3-methylphenol	ppm	0.271	0.00	.333	81.3	52-119	L380255-11	WG399299
4-Chlorophenyl-phenylether	ppm	0.276	0.00	.333	83.0	53-105	L380255-11	WG399299
4-Nitrophenol	ppm	0.198	0.00	.333	59.6	15-140	L380255-11	WG399299
Acenaphthene	ppm	0.253	0.00	.333	75.9	52-102	L380255-11	WG399299
Acenaphthylene	ppm	0.260	0.00	.333	78.1	54-103	L380255-11	WG399299
Anthracene	ppm	0.262	0.00	.333	78.7	55-114	L380255-11	WG399299
Benzidine	ppm	0.017	0.00	.333	5.11	0-45	L380255-11	WG399299
Benzo(a)anthracene	ppm	0.241	0.00	.333	72.3	37-124	L380255-11	WG399299
Benzo(a)pyrene	ppm	0.285	0.00	.333	85.5	44-129	L380255-11	WG399299
Benzo(b)fluoranthene	ppm	0.318	0.00	.333	95.5	28-135	L380255-11	WG399299
Benzo(g,h,i)perylene	ppm	0.138	0.00	.333	41.5	25-123	L380255-11	WG399299
Benzo(k)fluoranthene	ppm	0.363	0.00	.333	109.	41-116	L380255-11	WG399299
Benzylbutyl phthalate	ppm	0.354	0.00	.333	106.	45-143	L380255-11	WG399299
Bis(2-chlorethoxy)methane	ppm	0.270	0.00	.333	81.2	48-108	L380255-11	WG399299
Bis(2-chloroethyl)ether	ppm	0.301	0.00	.333	90.4	36-115	L380255-11	WG399299
Bis(2-chloroisopropyl)ether	ppm	0.256	0.00	.333	76.9	44-109	L380255-11	WG399299
Bis(2-ethylhexyl)phthalate	ppm	0.364	0.00	.333	109.	40-128	L380255-11	WG399299
Chrysene	ppm	0.258	0.00	.333	77.4	39-119	L380255-11	WG399299
Di-n-butyl phthalate	ppm	0.293	0.00	.333	87.9	49-121	L380255-11	WG399299
Di-n-octyl phthalate	ppm	0.355	0.00	.333	107.	40-132	L380255-11	WG399299
Dibenz(a,h)anthracene	ppm	0.175	0.00	.333	52.5	29-123	L380255-11	WG399299
Diethyl phthalate	ppm	0.287	0.00	.333	86.1	51-113	L380255-11	WG399299
Dimethyl phthalate	ppm	0.276	0.00	.333	83.0	54-108	L380255-11	WG399299
Fluoranthene	ppm	0.286	0.00	.333	85.8	23-143	L380255-11	WG399299
Fluorene	ppm	0.265	0.00	.333	79.6	53-107	L380255-11	WG399299
Hexachloro-1,3-butadiene	ppm	0.251	0.00	.333	75.2	39-113	L380255-11	WG399299
Hexachlorobenzene	ppm	0.250	0.00	.333	75.0	49-108	L380255-11	WG399299
Hexachlorocyclopentadiene	ppm	0.055	0.00	.333	16.5	10-131	L380255-11	WG399299
Hexachloroethane	ppm	0.211	0.00	.333	63.5	25-118	L380255-11	WG399299
Indeno(1,2,3-cd)pyrene	ppm	0.161	0.00	.333	48.3	28-125	L380255-11	WG399299
Isophorone	ppm	0.242	0.00	.333	72.8	51-115	L380255-11	WG399299
n-Nitrosodi-n-propylamine	ppm	0.301	0.00	.333	90.5	54-110	L380255-11	WG399299
n-Nitrosodimethylamine	ppm	0.303	0.00	.333	90.9	20-116	L380255-11	WG399299
n-Nitrosodiphenylamine	ppm	0.285	0.00	.333	85.4	54-138	L380255-11	WG399299
Naphthalene	ppm	0.243	0.00	.333	73.0	41-100	L380255-11	WG399299
Nitrobenzene	ppm	0.229	0.00	.333	68.8	40-102	L380255-11	WG399299
Pentachlorophenol	ppm	0.155	0.00	.333	46.6	10-146	L380255-11	WG399299
Phenanthrene	ppm	0.260	0.00	.333	78.0	37-125	L380255-11	WG399299
Phenol	ppm	0.259	0.00	.333	77.9	52-111	L380255-11	WG399299
Pyrene	ppm	0.290	0.00	.333	87.0	22-151	L380255-11	WG399299
2,4,6-Tribromophenol					74.65	25-137		WG399299
2-Fluorobiphenyl					75.08	30-120		WG399299
2-Fluorophenol					67.83	26-130		WG399299
Nitrobenzene-d5					72.17	18-119		WG399299
Phenol-d5					74.76	37-141		WG399299
p-Terphenyl-d14					91.58	23-143		WG399299

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Mark Brown
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Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2,4-Trichlorobenzene	ppm	0.165	0.00	.333	49.5	37-104	L380255-20	WG399299
2,4,6-Trichlorophenol	ppm	0.186	0.00	.333	56.0	27-128	L380255-20	WG399299
2,4-Dichlorophenol	ppm	0.188	0.00	.333	56.4	39-116	L380255-20	WG399299
2,4-Dimethylphenol	ppm	0.256	0.00	.333	77.0	50-119	L380255-20	WG399299
2,4-Dinitrophenol	ppm	0.178	0.00	.333	53.4	10-123	L380255-20	WG399299
2,4-Dinitrotoluene	ppm	0.184	0.00	.333	55.4	52-121	L380255-20	WG399299
2,6-Dinitrotoluene	ppm	0.187	0.00	.333	56.1	53-114	L380255-20	WG399299
2-Chloronaphthalene	ppm	0.187	0.00	.333	56.2	52-101	L380255-20	WG399299
2-Chlorophenol	ppm	0.156	0.00	.333	46.8	41-112	L380255-20	WG399299
2-Nitrophenol	ppm	0.184	0.00	.333	55.2	23-117	L380255-20	WG399299
3,3-Dichlorobenzidine	ppm	0.158	0.00	.333	47.6	10-133	L380255-20	WG399299
4,6-Dinitro-2-methylphenol	ppm	0.066	0.00	.333	20.1	10-124	L380255-20	WG399299
4-Bromophenyl-phenylether	ppm	0.170	0.00	.333	51.2	37-103	L380255-20	WG399299
4-Chloro-3-methylphenol	ppm	0.204	0.00	.333	61.2	52-119	L380255-20	WG399299
4-Chlorophenyl-phenylether	ppm	0.204	0.00	.333	61.1	53-105	L380255-20	WG399299
4-Nitrophenol	ppm	0.172	0.00	.333	51.5	15-140	L380255-20	WG399299
Acenaphthene	ppm	0.184	0.00	.333	55.4	52-102	L380255-20	WG399299
Acenaphthylene	ppm	0.188	0.00	.333	56.5	54-103	L380255-20	WG399299
Anthracene	ppm	0.197	0.00	.333	59.2	55-114	L380255-20	WG399299
Benzidine	ppm	0.002	0.00	.333	0.850	0-45	L380255-20	WG399299
Benzo(a)anthracene	ppm	0.195	0.00	.333	58.5	37-124	L380255-20	WG399299
Benzo(a)pyrene	ppm	0.208	0.00	.333	62.5	44-129	L380255-20	WG399299
Benzo(b)fluoranthene	ppm	0.245	0.00	.333	73.5	28-135	L380255-20	WG399299
Benzo(g,h,i)perylene	ppm	0.104	0.00	.333	31.2	25-123	L380255-20	WG399299
Benzo(k)fluoranthene	ppm	0.237	0.00	.333	71.2	41-116	L380255-20	WG399299
Benzylbutyl phthalate	ppm	0.327	0.00	.333	98.3	45-143	L380255-20	WG399299
Bis(2-chlorethoxy)methane	ppm	0.200	0.00	.333	60.1	48-108	L380255-20	WG399299
Bis(2-chloroethyl)ether	ppm	0.164	0.00	.333	49.2	36-115	L380255-20	WG399299
Bis(2-chloroisopropyl)ether	ppm	0.168	0.00	.333	50.4	44-109	L380255-20	WG399299
Bis(2-ethylhexyl)phthalate	ppm	0.315	0.00	.333	94.7	40-128	L380255-20	WG399299
Chrysene	ppm	0.195	0.00	.333	58.6	39-119	L380255-20	WG399299
Di-n-butyl phthalate	ppm	0.203	0.00	.333	60.8	49-121	L380255-20	WG399299
Di-n-octyl phthalate	ppm	0.271	0.00	.333	81.3	40-132	L380255-20	WG399299
Dibenz(a,h)anthracene	ppm	0.130	0.00	.333	39.2	29-123	L380255-20	WG399299
Diethyl phthalate	ppm	0.211	0.00	.333	63.3	51-113	L380255-20	WG399299
Dimethyl phthalate	ppm	0.204	0.00	.333	61.3	54-108	L380255-20	WG399299
Fluoranthene	ppm	0.203	0.00	.333	61.1	23-143	L380255-20	WG399299
Fluorene	ppm	0.194	0.00	.333	58.2	53-107	L380255-20	WG399299
Hexachloro-1,3-butadiene	ppm	0.176	0.00	.333	52.8	39-113	L380255-20	WG399299
Hexachlorobenzene	ppm	0.172	0.00	.333	51.6	49-108	L380255-20	WG399299
Hexachlorocyclopentadiene	ppm	0.016	0.00	.333	4.83*	10-131	L380255-20	WG399299
Hexachloroethane	ppm	0.116	0.00	.333	34.8	25-118	L380255-20	WG399299
Indeno(1,2,3-cd)pyrene	ppm	0.120	0.00	.333	36.0	28-125	L380255-20	WG399299
Isophorone	ppm	0.174	0.00	.333	52.3	51-115	L380255-20	WG399299
n-Nitrosodi-n-propylamine	ppm	0.204	0.00	.333	61.3	54-110	L380255-20	WG399299
n-Nitrosodimethylamine	ppm	0.142	0.00	.333	42.6	20-116	L380255-20	WG399299
n-Nitrosodiphenylamine	ppm	0.192	0.00	.333	57.7	54-138	L380255-20	WG399299
Naphthalene	ppm	0.176	0.00	.333	52.7	41-100	L380255-20	WG399299
Nitrobenzene	ppm	0.156	0.00	.333	46.8	40-102	L380255-20	WG399299
Pentachlorophenol	ppm	0.128	0.00	.333	38.3	10-146	L380255-20	WG399299
Phenanthrene	ppm	0.193	0.00	.333	58.0	37-125	L380255-20	WG399299
Phenol	ppm	0.172	0.00	.333	51.5*	52-111	L380255-20	WG399299
Pyrene	ppm	0.269	0.00	.333	80.7	22-151	L380255-20	WG399299
2,4,6-Tribromophenol					52.43	25-137		WG399299
2-Fluorobiphenyl					54.80	30-120		WG399299
2-Fluorophenol					42.11	26-130		WG399299
Nitrobenzene-d5					49.48	18-119		WG399299
Phenol-d5					51.44	37-141		WG399299

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
p-Terphenyl-d14					84.00	23-143		
1,1,1,2-Tetrachloroethane	mg/kg	0.039	0.00	.05	78.5	29-145	L380340-13	WG399568
1,1,1-Trichloroethane	mg/kg	0.046	0.00	.05	92.2	23-147	L380340-13	WG399568
1,1,2,2-Tetrachloroethane	mg/kg	0.032	0.00	.05	65.6	18-150	L380340-13	WG399568
1,1,2-Trichloroethane	mg/kg	0.035	0.00	.05	70.0	35-140	L380340-13	WG399568
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.038	0.00	.05	77.7	10-145	L380340-13	WG399568
1,1-Dichloroethane	mg/kg	0.048	0.00	.05	96.6	24-148	L380340-13	WG399568
1,1-Dichloroethene	mg/kg	0.039	0.00	.05	78.3	10-149	L380340-13	WG399568
1,1-Dichloropropene	mg/kg	0.042	0.00	.05	85.5	10-141	L380340-13	WG399568
1,2,3-Trichlorobenzene	mg/kg	0.018	0.00	.05	36.6	10-129	L380340-13	WG399568
1,2,3-Trichloropropane	mg/kg	0.031	0.00	.05	63.3	30-148	L380340-13	WG399568
1,2,4-Trichlorobenzene	mg/kg	0.018	0.00	.05	37.1	10-119	L380340-13	WG399568
1,2,4-Trimethylbenzene	mg/kg	0.028	0.00	.05	56.4	10-145	L380340-13	WG399568
1,2-Dibromo-3-Chloropropane	mg/kg	0.024	0.00	.05	49.9	19-145	L380340-13	WG399568
1,2-Dibromoethane	mg/kg	0.031	0.00	.05	63.2	24-145	L380340-13	WG399568
1,2-Dichlorobenzene	mg/kg	0.028	0.00	.05	57.1	12-130	L380340-13	WG399568
1,2-Dichloroethane	mg/kg	0.043	0.00	.05	86.4	21-155	L380340-13	WG399568
1,2-Dichloropropane	mg/kg	0.045	0.00	.05	90.7	28-144	L380340-13	WG399568
1,3,5-Trimethylbenzene	mg/kg	0.029	0.00	.05	57.9	10-135	L380340-13	WG399568
1,3-Dichlorobenzene	mg/kg	0.025	0.00	.05	50.0	10-129	L380340-13	WG399568
1,3-Dichloropropane	mg/kg	0.035	0.00	.05	71.1	31-137	L380340-13	WG399568
1,4-Dichlorobenzene	mg/kg	0.027	0.00	.05	55.9	10-121	L380340-13	WG399568
2,2-Dichloropropane	mg/kg	0.044	0.00	.05	88.7	18-144	L380340-13	WG399568
2-Butanone (MEK)	mg/kg	0.193	0.00	.25	77.2	21-143	L380340-13	WG399568
2-Chloroethyl vinyl ether	mg/kg	0.118	0.00	.25	47.3	0-176	L380340-13	WG399568
2-Chlorotoluene	mg/kg	0.030	0.00	.05	60.5	10-132	L380340-13	WG399568
4-Chlorotoluene	mg/kg	0.028	0.00	.05	57.3	10-129	L380340-13	WG399568
4-Methyl-2-pentanone (MIBK)	mg/kg	0.192	0.00	.25	77.0	31-151	L380340-13	WG399568
Acetone	mg/kg	0.184	0.098	.25	34.3	13-158	L380340-13	WG399568
Acrylonitrile	mg/kg	0.220	0.00	.25	88.0	20-154	L380340-13	WG399568
Benzene	mg/kg	0.041	0.00	.05	83.7	16-143	L380340-13	WG399568
Bromobenzene	mg/kg	0.030	0.00	.05	61.4	14-135	L380340-13	WG399568
Bromodichloromethane	mg/kg	0.042	0.00	.05	85.5	27-139	L380340-13	WG399568
Bromoform	mg/kg	0.033	0.00	.05	65.9	21-144	L380340-13	WG399568
Bromomethane	mg/kg	0.047	0.00	.05	95.4	0-180	L380340-13	WG399568
Carbon tetrachloride	mg/kg	0.046	0.00	.05	92.8	12-149	L380340-13	WG399568
Chlorobenzene	mg/kg	0.033	0.00	.05	66.4	17-134	L380340-13	WG399568
Chlorodibromomethane	mg/kg	0.036	0.00	.05	72.9	28-147	L380340-13	WG399568
Chloroethane	mg/kg	0.050	0.00	.05	102.	0-172	L380340-13	WG399568
Chloroform	mg/kg	0.044	0.00	.05	88.5	28-138	L380340-13	WG399568
Chloromethane	mg/kg	0.045	0.00	.05	91.2	10-158	L380340-13	WG399568
cis-1,2-Dichloroethene	mg/kg	0.042	0.00	.05	84.1	21-147	L380340-13	WG399568
cis-1,3-Dichloropropene	mg/kg	0.041	0.00	.05	83.9	17-145	L380340-13	WG399568
Di-isopropyl ether	mg/kg	0.046	0.00	.05	93.3	31-153	L380340-13	WG399568
Dibromomethane	mg/kg	0.035	0.00	.05	70.4	24-147	L380340-13	WG399568
Dichlorodifluoromethane	mg/kg	0.047	0.00	.05	94.6	0-192	L380340-13	WG399568
Ethylbenzene	mg/kg	0.034	0.00	.05	68.1	12-137	L380340-13	WG399568
Hexachloro-1,3-butadiene	mg/kg	0.022	0.00	.05	44.2	10-123	L380340-13	WG399568
Isopropylbenzene	mg/kg	0.034	0.00	.05	68.5	14-134	L380340-13	WG399568
Methyl tert-butyl ether	mg/kg	0.038	0.00	.05	76.7	21-157	L380340-13	WG399568
Methylene Chloride	mg/kg	0.037	0.00	.05	75.2	12-149	L380340-13	WG399568
n-Butylbenzene	mg/kg	0.028	0.00	.05	56.5	10-130	L380340-13	WG399568
n-Propylbenzene	mg/kg	0.028	0.00	.05	57.4	10-130	L380340-13	WG399568
Naphthalene	mg/kg	0.019	0.00	.05	39.4	0-146	L380340-13	WG399568
p-Isopropyltoluene	mg/kg	0.026	0.00	.05	53.3	10-131	L380340-13	WG399568
sec-Butylbenzene	mg/kg	0.030	0.00	.05	60.6	10-134	L380340-13	WG399568
Styrene	mg/kg	0.031	0.00	.05	63.0	10-140	L380340-13	WG399568
tert-Butylbenzene	mg/kg	0.030	0.00	.05	60.0	11-137	L380340-13	WG399568

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Tetrachloroethene	mg/kg	0.031	0.00	.05	61.9	10-131	L380340-13	WG399568
Toluene	mg/kg	0.037	0.00	.05	74.9	12-136	L380340-13	WG399568
trans-1,2-Dichloroethene	mg/kg	0.039	0.00	.05	79.7	10-143	L380340-13	WG399568
trans-1,3-Dichloropropene	mg/kg	0.037	0.00	.05	73.9	16-147	L380340-13	WG399568
Trichloroethene	mg/kg	0.037	0.00	.05	74.0	10-155	L380340-13	WG399568
Trichlorofluoromethane	mg/kg	0.060	0.00	.05	120.	10-154	L380340-13	WG399568
Vinyl chloride	mg/kg	0.040	0.00	.05	80.8	10-159	L380340-13	WG399568
Xylenes, Total	mg/kg	0.101	0.00	.15	67.2	10-138	L380340-13	WG399568
4-Bromofluorobenzene					88.05	59-140		WG399568
Dibromofluoromethane					106.5	63-139		WG399568
Toluene-d8					104.2	84-116		WG399568
a,a,a-Trifluorotoluene					99.31	80-118		WG399568
Mercury	mg/kg	0.268	0.00	.25	107.	70-130	L380340-01	WG399370
Arsenic	mg/kg	62.1	6.90	10	110.	75-125	L380077-04	WG399364
Barium	mg/kg	237.	0.00	10	474.*	75-125	L380077-04	WG399364
Cadmium	mg/kg	57.1	0.00	10	114.	75-125	L380077-04	WG399364
Chromium	mg/kg	70.2	0.00	10	140.*	75-125	L380077-04	WG399364
Lead	mg/kg	329.	280.	10	98.0	75-125	L380077-04	WG399364
Silver	mg/kg	52.8	0.00	10	106.	75-125	L380077-04	WG399364
Selenium	mg/kg	50.7	0.00	10	101.	75-125	L380077-04	WG399364
Arsenic	mg/l	1.03	0.00	1	103.	75-125	L380382-03	WG399763
Barium	mg/l	1.08	0.058	1	102.	75-125	L380382-03	WG399763
Cadmium	mg/l	1.04	0.00	1	104.	75-125	L380382-03	WG399763
Chromium	mg/l	0.980	0.00	1	98.0	75-125	L380382-03	WG399763
Lead	mg/l	1.03	0.00	1	103.	75-125	L380382-03	WG399763
Selenium	mg/l	1.05	0.00	1	105.	75-125	L380382-03	WG399763
Silver	mg/l	1.00	0.00	1	100.	75-125	L380382-03	WG399763
Mercury	mg/l	0.003	0.00	.003	101.	70-130	L380821-01	WG399749

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.04	0.04	83.1	45-152	3.67	21	L380382-02	WG399373
1,1,1-Trichloroethane	mg/l	0.03	0.03	70.4	31-161	4.06	23	L380382-02	WG399373
1,1,2,2-Tetrachloroethane	mg/l	0.04	0.04	90.7	49-149	5.54	22	L380382-02	WG399373
1,1,2-Trichloroethane	mg/l	0.04	0.04	84.1	46-145	3.18	20	L380382-02	WG399373
1,1-Dichloroethane	mg/l	0.03	0.03	68.3	30-159	7.32	21	L380382-02	WG399373
1,1-Dichloroethene	mg/l	0.02	0.03	56.3	10-162	9.20	23	L380382-02	WG399373
1,1-Dichloropropene	mg/l	0.02	0.03	59.1	14-162	4.86	23	L380382-02	WG399373
1,2,3-Trichlorobenzene	mg/l	0.04	0.04	91.4	32-143	4.39	33	L380382-02	WG399373
1,2,3-Trichloropropane	mg/l	0.04	0.04	84.6	48-148	4.36	23	L380382-02	WG399373
1,2,4-Trichlorobenzene	mg/l	0.04	0.04	87.2	27-142	6.75	30	L380382-02	WG399373
1,2,4-Trimethylbenzene	mg/l	0.03	0.03	74.0	29-153	7.46	27	L380382-02	WG399373
1,2-Dibromo-3-Chloropropane	mg/l	0.04	0.04	86.9	37-148	1.82	27	L380382-02	WG399373
1,2-Dibromoethane	mg/l	0.04	0.04	81.1	41-149	5.44	21	L380382-02	WG399373
1,2-Dichlorobenzene	mg/l	0.04	0.04	81.6	40-139	2.79	23	L380382-02	WG399373
1,2-Dichloroethane	mg/l	0.03	0.03	70.4	29-167	5.39	21	L380382-02	WG399373
1,2-Dichloropropane	mg/l	0.03	0.03	73.2	39-148	3.25	20	L380382-02	WG399373
1,3,5-Trimethylbenzene	mg/l	0.03	0.03	72.0	33-149	7.29	26	L380382-02	WG399373
1,3-Dichlorobenzene	mg/l	0.03	0.04	76.1	32-148	5.28	24	L380382-02	WG399373

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Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,3-Dichloropropane	mg/l	0.03	0.03	78.1	44-142	2.16	20	L380382-02	WG399373
1,4-Dichlorobenzene	mg/l	0.03	0.03	74.6	32-136	1.05	23	L380382-02	WG399373
2,2-Dichloropropane	mg/l	0.03	0.03	75.5	14-158	5.53	23	L380382-02	WG399373
2-Butanone (MEK)	mg/l	0.19	0.21	79.1	32-151	7.62	26	L380382-02	WG399373
2-Chlorotoluene	mg/l	0.03	0.03	72.3	35-147	5.90	24	L380382-02	WG399373
4-Chlorotoluene	mg/l	0.03	0.03	72.4	33-147	6.36	25	L380382-02	WG399373
4-Methyl-2-pentanone (MIBK)	mg/l	0.23	0.23	94.7	40-160	1.10	28	L380382-02	WG399373
Acetone	mg/l	0.23	0.24	92.3	25-157	6.85	26	L380382-02	WG399373
Acrolein	mg/l	0.17	0.21	71.7	0-179	18.7	39	L380382-02	WG399373
Acrylonitrile	mg/l	0.22	0.23	88.1	37-162	5.15	24	L380382-02	WG399373
Benzene	mg/l	0.03	0.03	61.2	16-158	6.03	21	L380382-02	WG399373
Bromobenzene	mg/l	0.03	0.03	69.5	37-147	7.06	23	L380382-02	WG399373
Bromodichloromethane	mg/l	0.04	0.04	81.3	45-147	2.01	20	L380382-02	WG399373
Bromoform	mg/l	0.04	0.04	80.2	38-152	7.37	20	L380382-02	WG399373
Bromomethane	mg/l	0.02	0.02	54.4	0-191	8.72	35	L380382-02	WG399373
Carbon tetrachloride	mg/l	0.03	0.03	64.2	22-168	8.08	24	L380382-02	WG399373
Chlorobenzene	mg/l	0.03	0.03	73.8	33-148	3.33	22	L380382-02	WG399373
Chlorodibromomethane	mg/l	0.04	0.04	90.7	48-151	5.29	21	L380382-02	WG399373
Chloroethane	mg/l	0.02	0.03	56.0	4-176	9.45	27	L380382-02	WG399373
Chloroform	mg/l	0.03	0.03	69.5	37-147	5.44	21	L380382-02	WG399373
Chloromethane	mg/l	0.02	0.02	51.4	10-174	11.1	28	L380382-02	WG399373
cis-1,2-Dichloroethene	mg/l	0.03	0.03	70.2	29-156	4.20	22	L380382-02	WG399373
Di-isopropyl ether	mg/l	0.03	0.04	78.5	39-160	5.43	21	L380382-02	WG399373
Dibromomethane	mg/l	0.03	0.03	72.0	36-152	1.57	20	L380382-02	WG399373
Dichlorodifluoromethane	mg/l	0.02	0.03	57.0	0-200	6.14	26	L380382-02	WG399373
Ethylbenzene	mg/l	0.03	0.03	70.9	29-150	3.85	24	L380382-02	WG399373
Isopropylbenzene	mg/l	0.03	0.04	75.1	35-147	7.04	25	L380382-02	WG399373
m&p-Xylenes	mg/l	0.06	0.07	66.8	24-151	5.14	23	L380382-02	WG399373
Methyl tert-butyl ether	mg/l	0.04	0.04	81.5	24-167	5.97	22	L380382-02	WG399373
Methylene Chloride	mg/l	0.03	0.03	66.2	23-151	7.94	21	L380382-02	WG399373
n-Butylbenzene	mg/l	0.03	0.03	75.6	22-151	3.81	29	L380382-02	WG399373
n-Propylbenzene	mg/l	0.03	0.03	70.0	26-150	7.35	25	L380382-02	WG399373
Naphthalene	mg/l	0.04	0.04	87.7	24-160	1.26	37	L380382-02	WG399373
o-Xylene	mg/l	0.03	0.03	75.1	32-151	5.46	23	L380382-02	WG399373
p-Isopropyltoluene	mg/l	0.03	0.04	77.1	28-151	6.97	27	L380382-02	WG399373
sec-Butylbenzene	mg/l	0.03	0.04	74.0	32-149	8.72	26	L380382-02	WG399373
Styrene	mg/l	0.03	0.04	79.0	38-149	4.60	23	L380382-02	WG399373
tert-Butylbenzene	mg/l	0.03	0.04	79.2	36-149	7.74	26	L380382-02	WG399373
Tetrachloroethene	mg/l	0.02	0.03	59.7	13-157	3.53	24	L380382-02	WG399373
Toluene	mg/l	0.03	0.03	60.5	22-152	3.58	22	L380382-02	WG399373
trans-1,2-Dichloroethene	mg/l	0.02	0.03	57.9	11-160	12.2	23	L380382-02	WG399373
Trichloroethene	mg/l	0.03	0.03	62.3	18-163	5.64	21	L380382-02	WG399373
Trichlorofluoromethane	mg/l	0.03	0.03	62.4	10-177	11.5	24	L380382-02	WG399373
Vinyl chloride	mg/l	0.02	0.02	52.2	0-179	12.4	26	L380382-02	WG399373
4-Bromofluorobenzene				101.4	75-128				WG399373
Dibromofluoromethane				97.6	79-125				WG399373
Toluene-d8				95.8	87-114				WG399373
a,a,a-Trifluorotoluene				98.6	84-114				WG399373
1,1,1,2-Tetrachloroethane	mg/kg	0.84	0.90	44.4	29-145	6.90	31	L379788-06	WG399359
1,1,1-Trichloroethane	mg/kg	1.67	1.81	87.8	23-147	8.04	32	L379788-06	WG399359
1,1,2,2-Tetrachloroethane	mg/kg	1.05	1.05	55.3	18-150	0.25	33	L379788-06	WG399359
1,1,2-Trichloroethane	mg/kg	1.92	1.94	101.	35-140	1.03	29	L379788-06	WG399359
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	1.16	1.31	60.9	10-145	12.3	35	L379788-06	WG399359
1,1-Dichloroethane	mg/kg	1.74	1.89	91.4	24-148	8.22	31	L379788-06	WG399359
1,1-Dichloroethene	mg/kg	1.47	1.65	77.3	10-149	11.5	34	L379788-06	WG399359
1,1-Dichloropropene	mg/kg	1.72	1.86	90.3	10-141	8.28	34	L379788-06	WG399359

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December 24, 2008

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2,3-Trichlorobenzene	mg/kg	1.58	1.71	83.1	10-129	7.87	43	L379788-06	WG399359
1,2,3-Trichloropropane	mg/kg	0.83	0.87	43.8	30-148	4.37	32	L379788-06	WG399359
1,2,4-Trichlorobenzene	mg/kg	1.64	1.78	85.6	10-119	8.26	44	L379788-06	WG399359
1,2,4-Trimethylbenzene	mg/kg	0.93	1.02	42.3	10-145	8.77	41	L379788-06	WG399359
1,2-Dibromo-3-Chloropropane	mg/kg	1.51	1.50	79.3	19-145	0.12	35	L379788-06	WG399359
1,2-Dibromoethane	mg/kg	0.86	0.88	45.5	24-145	2.78	31	L379788-06	WG399359
1,2-Dichlorobenzene	mg/kg	1.69	1.81	88.8	12-130	7.11	35	L379788-06	WG399359
1,2-Dichloroethane	mg/kg	1.73	1.89	90.8	21-155	8.90	29	L379788-06	WG399359
1,2-Dichloropropane	mg/kg	3.04	3.17	159.9	28-144	4.22	30	L379788-06	WG399359
1,3,5-Trimethylbenzene	mg/kg	0.84	0.92	42.0	10-135	9.15	39	L379788-06	WG399359
1,3-Dichlorobenzene	mg/kg	0.78	0.84	41.0	10-129	7.75	38	L379788-06	WG399359
1,3-Dichloropropane	mg/kg	0.74	0.79	39.2	31-137	7.09	29	L379788-06	WG399359
1,4-Dichlorobenzene	mg/kg	1.58	1.71	83.1	10-121	7.84	36	L379788-06	WG399359
2,2-Dichloropropane	mg/kg	1.46	1.52	77.1	18-144	3.47	32	L379788-06	WG399359
2-Butanone (MEK)	mg/kg	8.67	8.95	91.2	21-143	3.20	37	L379788-06	WG399359
2-Chloroethyl vinyl ether	mg/kg	8.16	8.53	85.8	0-176	4.44	50	L379788-06	WG399359
2-Chlorotoluene	mg/kg	0.81	0.89	43.1	10-132	8.75	37	L379788-06	WG399359
4-Chlorotoluene	mg/kg	0.87	0.94	46.0	10-129	7.79	38	L379788-06	WG399359
4-Methyl-2-pentanone (MIBK)	mg/kg	10.2	10.4	107.	31-151	1.89	36	L379788-06	WG399359
Acetone	mg/kg	12.1	12.4	127.	13-158	2.18	34	L379788-06	WG399359
Acrylonitrile	mg/kg	10.0	10.5	105.	20-154	4.76	35	L379788-06	WG399359
Benzene	mg/kg	1.95	2.11	88.8	16-143	8.26	31	L379788-06	WG399359
Bromobenzene	mg/kg	0.91	0.98	48.3	14-135	7.51	39	L379788-06	WG399359
Bromodichloromethane	mg/kg	1.71	1.85	90.2	27-139	7.44	30	L379788-06	WG399359
Bromoform	mg/kg	0.77	0.81	41.0	21-144	4.90	34	L379788-06	WG399359
Bromomethane	mg/kg	0.88	0.89	46.7	0-180	0.33	41	L379788-06	WG399359
Carbon tetrachloride	mg/kg	1.57	1.71	82.2	12-149	8.73	34	L379788-06	WG399359
Chlorobenzene	mg/kg	0.78	0.85	41.4	17-134	8.11	34	L379788-06	WG399359
Chlorodibromomethane	mg/kg	0.81	0.86	42.6	28-147	6.69	32	L379788-06	WG399359
Chloroethane	mg/kg	0.31	0.40	16.7	0-172	24.7	38	L379788-06	WG399359
Chloroform	mg/kg	1.70	1.84	89.7	28-138	7.77	30	L379788-06	WG399359
Chloromethane	mg/kg	1.46	1.55	76.6	10-158	5.80	35	L379788-06	WG399359
cis-1,2-Dichloroethene	mg/kg	1.68	1.82	88.6	21-147	7.67	31	L379788-06	WG399359
cis-1,3-Dichloropropene	mg/kg	1.58	1.72	83.0	17-145	8.21	32	L379788-06	WG399359
Di-isopropyl ether	mg/kg	1.78	1.94	93.8	31-153	8.38	29	L379788-06	WG399359
Dibromomethane	mg/kg	1.85	1.98	97.3	24-147	6.59	30	L379788-06	WG399359
Dichlorodifluoromethane	mg/kg	1.51	1.63	79.3	0-192	8.10	38	L379788-06	WG399359
Ethylbenzene	mg/kg	3.02	3.13	43.1	12-137	3.53	36	L379788-06	WG399359
Hexachloro-1,3-butadiene	mg/kg	1.52	1.73	80.1	10-123	12.6	50	L379788-06	WG399359
Isopropylbenzene	mg/kg	1.11	1.18	43.9	14-134	5.79	37	L379788-06	WG399359
Methyl tert-butyl ether	mg/kg	1.86	1.96	97.7	21-157	5.40	31	L379788-06	WG399359
Methylene Chloride	mg/kg	1.43	1.55	75.2	12-149	8.17	31	L379788-06	WG399359
n-Butylbenzene	mg/kg	2.50	2.64	90.7	10-130	5.78	48	L379788-06	WG399359
n-Propylbenzene	mg/kg	1.55	1.63	39.9	10-130	4.97	40	L379788-06	WG399359
Naphthalene	mg/kg	3.08	3.18	77.6	0-146	3.34	43	L379788-06	WG399359
p-Isopropyltoluene	mg/kg	0.76	0.84	39.5	10-131	9.99	43	L379788-06	WG399359
sec-Butylbenzene	mg/kg	0.98	1.06	44.0	10-134	7.29	43	L379788-06	WG399359
Styrene	mg/kg	0.77	0.83	40.7	10-140	7.03	35	L379788-06	WG399359
tert-Butylbenzene	mg/kg	0.80	0.87	41.9	11-137	8.58	39	L379788-06	WG399359
Tetrachloroethene	mg/kg	0.71	0.76	37.5	10-131	7.51	35	L379788-06	WG399359
Toluene	mg/kg	1.79	1.93	94.4	12-136	7.54	32	L379788-06	WG399359
trans-1,2-Dichloroethene	mg/kg	1.72	1.86	90.4	10-143	8.02	33	L379788-06	WG399359
trans-1,3-Dichloropropene	mg/kg	1.73	1.83	91.0	16-147	5.56	32	L379788-06	WG399359
Trichloroethene	mg/kg	1.52	1.68	79.8	10-155	10.0	33	L379788-06	WG399359
Trichlorofluoromethane	mg/kg	1.04	1.16	54.8	10-154	10.6	32	L379788-06	WG399359
Vinyl chloride	mg/kg	1.63	1.72	85.7	10-159	5.58	36	L379788-06	WG399359
Xylenes, Total	mg/kg	3.09	3.29	42.5	10-138	6.18	36	L379788-06	WG399359
4-Bromofluorobenzene				75.8	59-140				WG399359

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Mark Brown
9001 Glenwood Ave

Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
		Matrix Spike Duplicate							
Dibromofluoromethane				92.4	63-139				
Toluene-d8				112.5	84-116				
a,a,a-Trifluorotoluene				95.6	80-118				
1,2,4-Trichlorobenzene	ppm	0.24	0.16	72.9	37-104	38.3*	26	L380255-20	WG399299
2,4,6-Trichlorophenol	ppm	0.23	0.18	69.3	27-128	21.3	31	L380255-20	WG399299
2,4-Dichlorophenol	ppm	0.25	0.18	75.9	39-116	29.6*	23	L380255-20	WG399299
2,4-Dimethylphenol	ppm	0.36	0.25	109.	50-119	34.3*	27	L380255-20	WG399299
2,4-Dinitrophenol	ppm	0.18	0.17	54.6	10-123	2.27	42	L380255-20	WG399299
2,4-Dinitrotoluene	ppm	0.23	0.18	69.4	52-121	22.5	23	L380255-20	WG399299
2,6-Dinitrotoluene	ppm	0.23	0.18	70.2	53-114	22.3*	22	L380255-20	WG399299
2-Chloronaphthalene	ppm	0.24	0.18	74.7	52-101	28.2*	20	L380255-20	WG399299
2-Chlorophenol	ppm	0.24	0.15	74.0	41-112	45.1*	27	L380255-20	WG399299
2-Nitrophenol	ppm	0.23	0.18	71.2	23-117	25.4	31	L380255-20	WG399299
3,3-Dichlorobenzidine	ppm	0.24	0.15	73.5	10-133	42.8*	41	L380255-20	WG399299
4,6-Dinitro-2-methylphenol	ppm	0.07	0.06	21.7	10-124	7.66	38	L380255-20	WG399299
4-Bromophenyl-phenylether	ppm	0.24	0.17	73.0	37-103	35.2*	23	L380255-20	WG399299
4-Chloro-3-methylphenol	ppm	0.27	0.20	82.7	52-119	29.9*	24	L380255-20	WG399299
4-Chlorophenyl-phenylether	ppm	0.28	0.20	84.2	53-105	31.7*	20	L380255-20	WG399299
4-Nitrophenol	ppm	0.18	0.17	55.9	15-140	8.19	40	L380255-20	WG399299
Acenaphthene	ppm	0.25	0.18	76.4	52-102	32.0*	23	L380255-20	WG399299
Acenaphthylene	ppm	0.26	0.18	79.2	54-103	33.5*	22	L380255-20	WG399299
Anthracene	ppm	0.25	0.19	75.2	55-114	23.7*	21	L380255-20	WG399299
Benzidine	ppm	0.01	0.00	3.38	0-45	120.*	50	L380255-20	WG399299
Benzo(a)anthracene	ppm	0.24	0.19	72.9	37-124	21.9	33	L380255-20	WG399299
Benzo(a)pyrene	ppm	0.28	0.20	84.0	44-129	29.3*	27	L380255-20	WG399299
Benzo(b)fluoranthene	ppm	0.30	0.24	92.6	28-135	23.0	33	L380255-20	WG399299
Benzo(g,h,i)perylene	ppm	0.12	0.10	37.1	25-123	17.4	35	L380255-20	WG399299
Benzo(k)fluoranthene	ppm	0.34	0.23	103.	41-116	36.3*	34	L380255-20	WG399299
Benzylbutyl phthalate	ppm	0.33	0.32	100.	45-143	1.98	39	L380255-20	WG399299
Bis(2-chlorethoxy)methane	ppm	0.27	0.20	82.7	48-108	31.6*	23	L380255-20	WG399299
Bis(2-chloroethyl)ether	ppm	0.28	0.16	86.6	36-115	55.1*	30	L380255-20	WG399299
Bis(2-chloroisopropyl)ether	ppm	0.29	0.16	87.6	44-109	53.9*	27	L380255-20	WG399299
Bis(2-ethylhexyl)phthalate	ppm	0.35	0.31	106.	40-128	11.2	34	L380255-20	WG399299
Chrysene	ppm	0.25	0.19	77.6	39-119	27.9	31	L380255-20	WG399299
Di-n-butyl phthalate	ppm	0.27	0.20	83.8	49-121	31.8*	22	L380255-20	WG399299
Di-n-octyl phthalate	ppm	0.34	0.27	103.	40-132	23.5	27	L380255-20	WG399299
Dibenz(a,h)anthracene	ppm	0.15	0.13	47.4	29-123	19.0	30	L380255-20	WG399299
Diethyl phthalate	ppm	0.27	0.21	82.1	51-113	25.8*	21	L380255-20	WG399299
Dimethyl phthalate	ppm	0.28	0.20	86.3	54-108	33.9*	23	L380255-20	WG399299
Fluoranthene	ppm	0.28	0.20	85.9	23-143	33.8*	29	L380255-20	WG399299
Fluorene	ppm	0.25	0.19	76.6	53-107	27.2*	22	L380255-20	WG399299
Hexachloro-1,3-butadiene	ppm	0.26	0.17	78.1	39-113	38.7*	26	L380255-20	WG399299
Hexachlorobenzene	ppm	0.24	0.17	74.0	49-108	35.7*	27	L380255-20	WG399299
Hexachlorocyclopentadiene	ppm	0.07	0.01	22.0	10-131	128.*	39	L380255-20	WG399299
Hexachloroethane	ppm	0.20	0.11	62.9	25-118	57.6*	35	L380255-20	WG399299
Indeno(1,2,3-cd)pyrene	ppm	0.14	0.12	44.0	28-125	20.1	32	L380255-20	WG399299
Isophorone	ppm	0.24	0.17	72.3	51-115	32.1*	22	L380255-20	WG399299
n-Nitrosodi-n-propylamine	ppm	0.30	0.20	90.3	54-110	38.3*	23	L380255-20	WG399299
n-Nitrosodimethylamine	ppm	0.29	0.14	87.4	20-116	69.0*	38	L380255-20	WG399299
n-Nitrosodiphenylamine	ppm	0.28	0.19	84.8	54-138	38.0*	26	L380255-20	WG399299
Naphthalene	ppm	0.25	0.17	75.9	41-100	36.0*	26	L380255-20	WG399299
Nitrobenzene	ppm	0.22	0.15	66.2	40-102	34.2*	24	L380255-20	WG399299
Pentachlorophenol	ppm	0.16	0.12	50.8	10-146	28.1	35	L380255-20	WG399299
Phenanthrene	ppm	0.26	0.19	79.4	37-125	31.1*	27	L380255-20	WG399299
Phenol	ppm	0.25	0.17	76.8	52-111	39.4*	22	L380255-20	WG399299
Pyrene	ppm	0.28	0.26	84.6	22-151	4.66	38	L380255-20	WG399299
2,4,6-Tribromophenol				67.0	25-137				WG399299
2-Fluorobiphenyl				77.7	30-120				WG399299

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December 24, 2008

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
		Matrix Spike Duplicate							
2-Fluorophenol				66.3	26-130				
Nitrobenzene-d5				70.7	18-119				
Phenol-d5				74.2	37-141				
p-Terphenyl-d14				91.7	23-143				
1,2,4-Trichlorobenzene	ppm	0.11	0.16	35.83	37-104	32.1*	26	L380255-20	WG399299
2,4,6-Trichlorophenol	ppm	0.20	0.18	60.2	27-128	7.25	31	L380255-20	WG399299
2,4-Dichlorophenol	ppm	0.18	0.18	54.8	39-116	2.76	23	L380255-20	WG399299
2,4-Dimethylphenol	ppm	0.24	0.25	74.8	50-119	2.92	27	L380255-20	WG399299
2,4-Dinitrophenol	ppm	0.17	0.17	53.3	10-123	0.03	42	L380255-20	WG399299
2,4-Dinitrotoluene	ppm	0.21	0.18	64.4	52-121	15.1	23	L380255-20	WG399299
2,6-Dinitrotoluene	ppm	0.22	0.18	66.5	53-114	16.9	22	L380255-20	WG399299
2-Chloronaphthalene	ppm	0.19	0.18	58.9	52-101	4.60	20	L380255-20	WG399299
2-Chlorophenol	ppm	0.11	0.15	33.01	41-112	34.5*	27	L380255-20	WG399299
2-Nitrophenol	ppm	0.13	0.18	39.7	23-117	32.5*	31	L380255-20	WG399299
3,3-Dichlorobenzidine	ppm	0.18	0.15	54.3	10-133	13.2	41	L380255-20	WG399299
4,6-Dinitro-2-methylphenol	ppm	0.07	0.06	21.2	10-124	5.27	38	L380255-20	WG399299
4-Bromophenyl-phenylether	ppm	0.20	0.17	62.5	37-103	20.0	23	L380255-20	WG399299
4-Chloro-3-methylphenol	ppm	0.22	0.20	67.6	52-119	9.93	24	L380255-20	WG399299
4-Chlorophenyl-phenylether	ppm	0.23	0.20	70.1	53-105	13.7	20	L380255-20	WG399299
4-Nitrophenol	ppm	0.19	0.17	57.8	15-140	11.5	40	L380255-20	WG399299
Acenaphthene	ppm	0.21	0.18	64.3	52-102	14.9	23	L380255-20	WG399299
Acenaphthylene	ppm	0.21	0.18	63.5	54-103	11.8	22	L380255-20	WG399299
Anthracene	ppm	0.24	0.19	72.2	55-114	19.8	21	L380255-20	WG399299
Benzidine	ppm	0.00	0.00	1.59	0-45	60.4*	50	L380255-20	WG399299
Benzo(a)anthracene	ppm	0.21	0.19	65.1	37-124	10.6	33	L380255-20	WG399299
Benzo(a)pyrene	ppm	0.25	0.20	77.6	44-129	21.5	27	L380255-20	WG399299
Benzo(b)fluoranthene	ppm	0.28	0.24	86.6	28-135	16.4	33	L380255-20	WG399299
Benzo(g,h,i)perylene	ppm	0.12	0.10	36.3	25-123	15.2	35	L380255-20	WG399299
Benzo(k)fluoranthene	ppm	0.30	0.23	90.1	41-116	23.4	34	L380255-20	WG399299
Benzylbutyl phthalate	ppm	0.37	0.32	113.	45-143	13.9	39	L380255-20	WG399299
Bis(2-chlorethoxy)methane	ppm	0.16	0.20	49.0	48-108	20.3	23	L380255-20	WG399299
Bis(2-chloroethyl)ether	ppm	0.12	0.16	37.4	36-115	27.2	30	L380255-20	WG399299
Bis(2-chloroisopropyl)ether	ppm	0.11	0.16	35.68	44-109	34.2*	27	L380255-20	WG399299
Bis(2-ethylhexyl)phthalate	ppm	0.38	0.31	114.	40-128	18.6	34	L380255-20	WG399299
Chrysene	ppm	0.21	0.19	65.6	39-119	11.3	31	L380255-20	WG399299
Di-n-butyl phthalate	ppm	0.25	0.20	75.8	49-121	22.0	22	L380255-20	WG399299
Di-n-octyl phthalate	ppm	0.31	0.27	94.1	40-132	14.6	27	L380255-20	WG399299
Dibenz(a,h)anthracene	ppm	0.14	0.13	44.1	29-123	11.8	30	L380255-20	WG399299
Diethyl phthalate	ppm	0.24	0.21	74.3	51-113	16.0	21	L380255-20	WG399299
Dimethyl phthalate	ppm	0.23	0.20	70.7	54-108	14.3	23	L380255-20	WG399299
Fluoranthene	ppm	0.25	0.20	75.2	23-143	20.7	29	L380255-20	WG399299
Fluorene	ppm	0.21	0.19	64.8	53-107	10.7	22	L380255-20	WG399299
Hexachloro-1,3-butadiene	ppm	0.11	0.17	35.47	39-113	39.2*	26	L380255-20	WG399299
Hexachlorobenzene	ppm	0.20	0.17	62.0	49-108	18.3	27	L380255-20	WG399299
Hexachlorocyclopentadiene	ppm	0.01	0.01	3.601	10-131	29.1	39	L380255-20	WG399299
Hexachloroethane	ppm	0.08	0.11	24.92	25-118	32.9	35	L380255-20	WG399299
Indeno(1,2,3-cd)pyrene	ppm	0.13	0.12	41.2	28-125	13.6	32	L380255-20	WG399299
Isophorone	ppm	0.16	0.17	50.15	51-115	4.17	22	L380255-20	WG399299
n-Nitrosodi-n-propylamine	ppm	0.18	0.20	54.2	54-110	12.3	23	L380255-20	WG399299
n-Nitrosodimethylamine	ppm	0.12	0.14	37.3	20-116	13.3	38	L380255-20	WG399299
n-Nitrosodiphenylamine	ppm	0.24	0.19	73.4	54-138	23.9	26	L380255-20	WG399299
Naphthalene	ppm	0.13	0.17	40.18	41-100	27.0*	26	L380255-20	WG399299
Nitrobenzene	ppm	0.10	0.15	32.21	40-102	37.0*	24	L380255-20	WG399299
Pentachlorophenol	ppm	0.13	0.12	40.4	10-146	5.22	35	L380255-20	WG399299
Phenanthrene	ppm	0.23	0.19	71.0	37-125	20.2	27	L380255-20	WG399299
Phenol	ppm	0.13	0.17	41.73	52-111	21.0	22	L380255-20	WG399299
Pyrene	ppm	0.30	0.26	91.5	22-151	12.5	38	L380255-20	WG399299
2,4,6-Tribromophenol				60.0	25-137				WG399299

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Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
		Matrix Spike Duplicate							
2-Fluorobiphenyl				54.2	30-120				
2-Fluorophenol				29.1	26-130				
Nitrobenzene-d5				34.3	18-119				
Phenol-d5				39.8	37-141				
p-Terphenyl-d14				87.4	23-143				
1,1,1,2-Tetrachloroethane	mg/kg	0.03	0.03	75.4	29-145	4.15	31	L380340-13	WG399568
1,1,1-Trichloroethane	mg/kg	0.04	0.04	89.0	23-147	3.60	32	L380340-13	WG399568
1,1,2,2-Tetrachloroethane	mg/kg	0.02	0.03	55.6	18-150	16.4	33	L380340-13	WG399568
1,1,2-Trichloroethane	mg/kg	0.03	0.03	64.9	35-140	7.63	29	L380340-13	WG399568
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.03	0.03	75.0	10-145	3.63	35	L380340-13	WG399568
1,1-Dichloroethane	mg/kg	0.04	0.04	92.4	24-148	4.45	31	L380340-13	WG399568
1,1-Dichloroethene	mg/kg	0.03	0.03	74.1	10-149	5.51	34	L380340-13	WG399568
1,1-Dichloropropene	mg/kg	0.04	0.04	82.0	10-141	4.17	34	L380340-13	WG399568
1,2,3-Trichlorobenzene	mg/kg	0.01	0.01	31.1	10-129	16.2	43	L380340-13	WG399568
1,2,3-Trichloropropane	mg/kg	0.02	0.03	55.3	30-148	13.5	32	L380340-13	WG399568
1,2,4-Trichlorobenzene	mg/kg	0.01	0.01	33.6	10-119	10.1	44	L380340-13	WG399568
1,2,4-Trimethylbenzene	mg/kg	0.02	0.02	56.0	10-145	0.74	41	L380340-13	WG399568
1,2-Dibromo-3-Chloropropane	mg/kg	0.02	0.02	45.1	19-145	10.0	35	L380340-13	WG399568
1,2-Dibromoethane	mg/kg	0.02	0.03	57.7	24-145	9.02	31	L380340-13	WG399568
1,2-Dichlorobenzene	mg/kg	0.02	0.02	57.8	12-130	1.20	35	L380340-13	WG399568
1,2-Dichloroethane	mg/kg	0.03	0.04	78.8	21-155	9.12	29	L380340-13	WG399568
1,2-Dichloropropane	mg/kg	0.04	0.04	88.2	28-144	2.85	30	L380340-13	WG399568
1,3,5-Trimethylbenzene	mg/kg	0.02	0.02	57.4	10-135	0.80	39	L380340-13	WG399568
1,3-Dichlorobenzene	mg/kg	0.02	0.02	46.2	10-129	7.78	38	L380340-13	WG399568
1,3-Dichloropropane	mg/kg	0.03	0.03	66.8	31-137	6.29	29	L380340-13	WG399568
1,4-Dichlorobenzene	mg/kg	0.02	0.02	58.0	10-121	3.81	36	L380340-13	WG399568
2,2-Dichloropropane	mg/kg	0.04	0.04	85.6	18-144	3.55	32	L380340-13	WG399568
2-Butanone (MEK)	mg/kg	0.15	0.19	63.8	21-143	19.0	37	L380340-13	WG399568
2-Chloroethyl vinyl ether	mg/kg	0.10	0.11	41.0	0-176	14.3	50	L380340-13	WG399568
2-Chlorotoluene	mg/kg	0.02	0.03	58.9	10-132	2.62	37	L380340-13	WG399568
4-Chlorotoluene	mg/kg	0.02	0.02	55.3	10-129	3.67	38	L380340-13	WG399568
4-Methyl-2-pentanone (MIBK)	mg/kg	0.16	0.19	63.9	31-151	18.6	36	L380340-13	WG399568
Acetone	mg/kg	0.15	0.18	22.2	13-158	18.0	34	L380340-13	WG399568
Acrylonitrile	mg/kg	0.17	0.22	70.7	20-154	21.8	35	L380340-13	WG399568
Benzene	mg/kg	0.04	0.04	80.9	16-143	3.42	31	L380340-13	WG399568
Bromobenzene	mg/kg	0.02	0.03	57.3	14-135	6.99	39	L380340-13	WG399568
Bromodichloromethane	mg/kg	0.03	0.04	79.8	27-139	6.90	30	L380340-13	WG399568
Bromoform	mg/kg	0.02	0.03	57.0	21-144	14.5	34	L380340-13	WG399568
Bromomethane	mg/kg	0.04	0.04	90.7	0-180	4.96	41	L380340-13	WG399568
Carbon tetrachloride	mg/kg	0.04	0.04	88.1	12-149	5.19	34	L380340-13	WG399568
Chlorobenzene	mg/kg	0.03	0.03	64.7	17-134	2.70	34	L380340-13	WG399568
Chlorodibromomethane	mg/kg	0.03	0.03	68.5	28-147	6.13	32	L380340-13	WG399568
Chloroethane	mg/kg	0.04	0.05	96.0	0-172	5.84	38	L380340-13	WG399568
Chloroform	mg/kg	0.04	0.04	84.8	28-138	4.28	30	L380340-13	WG399568
Chloromethane	mg/kg	0.04	0.04	88.7	10-158	2.73	35	L380340-13	WG399568
cis-1,2-Dichloroethene	mg/kg	0.03	0.04	79.4	21-147	5.64	31	L380340-13	WG399568
cis-1,3-Dichloropropene	mg/kg	0.03	0.04	78.1	17-145	7.12	32	L380340-13	WG399568
Di-isopropyl ether	mg/kg	0.04	0.04	88.3	31-153	5.47	29	L380340-13	WG399568
Dibromomethane	mg/kg	0.03	0.03	65.2	24-147	7.72	30	L380340-13	WG399568
Dichlorodifluoromethane	mg/kg	0.04	0.04	89.7	0-192	5.34	38	L380340-13	WG399568
Ethylbenzene	mg/kg	0.03	0.03	68.9	12-137	1.22	36	L380340-13	WG399568
Hexachloro-1,3-butadiene	mg/kg	0.02	0.02	46.1	10-123	4.33	50	L380340-13	WG399568
Isopropylbenzene	mg/kg	0.03	0.03	67.9	14-134	0.84	37	L380340-13	WG399568
Methyl tert-butyl ether	mg/kg	0.03	0.03	69.9	21-157	9.33	31	L380340-13	WG399568
Methylene Chloride	mg/kg	0.03	0.03	72.1	12-149	4.19	31	L380340-13	WG399568
n-Butylbenzene	mg/kg	0.03	0.02	60.7	10-130	7.22	48	L380340-13	WG399568
n-Propylbenzene	mg/kg	0.02	0.02	58.1	10-130	1.19	40	L380340-13	WG399568
Naphthalene	mg/kg	0.01	0.01	32.3	0-146	19.8	43	L380340-13	WG399568

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

ECS Carolinas - Raleigh, NC
Mark Brown
9001 Glenwood Ave

Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
p-Isopropyltoluene	mg/kg	0.02	0.02	52.3	10-131	1.93	43	L380340-13	WG399568
sec-Butylbenzene	mg/kg	0.02	0.03	59.4	10-134	2.01	43	L380340-13	WG399568
Styrene	mg/kg	0.02	0.03	59.2	10-140	6.31	35	L380340-13	WG399568
tert-Butylbenzene	mg/kg	0.02	0.03	59.9	11-137	0.12	39	L380340-13	WG399568
Tetrachloroethene	mg/kg	0.03	0.03	62.7	10-131	1.20	35	L380340-13	WG399568
Toluene	mg/kg	0.03	0.03	74.8	12-136	0.15	32	L380340-13	WG399568
trans-1,2-Dichloroethene	mg/kg	0.03	0.03	77.3	10-143	3.00	33	L380340-13	WG399568
trans-1,3-Dichloropropene	mg/kg	0.03	0.03	66.8	16-147	10.2	32	L380340-13	WG399568
Trichloroethene	mg/kg	0.03	0.03	72.6	10-155	1.97	33	L380340-13	WG399568
Trichlorofluoromethane	mg/kg	0.05	0.06	114.	10-154	5.39	32	L380340-13	WG399568
Vinyl chloride	mg/kg	0.04	0.04	84.8	10-159	4.81	36	L380340-13	WG399568
Xylenes, Total	mg/kg	0.10	0.10	68.2	10-138	1.44	36	L380340-13	WG399568
4-Bromofluorobenzene				82.8	59-140				WG399568
Dibromofluoromethane				104.6	63-139				WG399568
Toluene-d8				103.4	84-116				WG399568
a,a,a-Trifluorotoluene				99.4	80-118				WG399568
Mercury	mg/kg	0.24	0.26	98.8	70-130	8.16	20	L380340-01	WG399370
Arsenic	mg/kg	64.1	62.1	114.	75-125	3.17	20	L380077-04	WG399364
Barium	mg/kg	278.	237.	556*	75-125	15.9	20	L380077-04	WG399364
Cadmium	mg/kg	58.6	57.1	117.	75-125	2.59	20	L380077-04	WG399364
Chromium	mg/kg	70.5	70.2	141*	75-125	0.42	20	L380077-04	WG399364
Lead	mg/kg	454.	329.	348*	75-125	31.9*	20	L380077-04	WG399364
Silver	mg/kg	53.8	52.8	108.	75-125	1.88	20	L380077-04	WG399364
Selenium	mg/kg	45.6	50.7	91.2	75-125	10.6	20	L380077-04	WG399364
Arsenic	mg/l	0.99	1.03	99.1	75-125	3.86	20	L380382-03	WG399763
Barium	mg/l	1.06	1.08	100.	75-125	1.87	20	L380382-03	WG399763
Cadmium	mg/l	1.02	1.04	102.	75-125	1.94	20	L380382-03	WG399763
Chromium	mg/l	0.95	0.98	95.6	75-125	2.48	20	L380382-03	WG399763
Lead	mg/l	1.01	1.03	101.	75-125	1.96	20	L380382-03	WG399763
Selenium	mg/l	1.03	1.05	103.	75-125	1.92	20	L380382-03	WG399763
Silver	mg/l	0.98	1.00	98.0	75-125	2.02	20	L380382-03	WG399763
Mercury	mg/l	0.00	0.00	100.	70-130	0.66	20	L380821-01	WG399749

Batch number /Run number / Sample number cross reference

WG399373: R568587: L380382-01 02 03
WG399359: R568627: L380382-04
WG399299: R569186: L380382-04 05
WG399568: R569427: L380382-05
WG399370: R570406: L380382-04 05
WG399508: R570575: L380382-04 05
WG399364: R570806: L380382-04 05
WG399465: R570885: L380382-01 02 03
WG399763: R571369: L380382-01 02 03
WG399749: R572034: L380382-01 02 03

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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9001 Glenwood Ave

Raleigh, NC 27617-7505

Quality Assurance Report
Level II

L380382

December 24, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address: ECS CAROLINAS LLP RALEIGH NC

Alternate billing information:

Report to: MARK BROWN

Email to: SMBROWN@ecslimited.com

Project Description: CAM

City/State Collected: RALEIGH NC

Phone: 919.291.9200

FAX:

Client Project #: 14939-C

ESC Key:

Collected by: MARK BROWN

Site/Facility ID#:

P.O.#:

Collected by (signature): SMB

Immediately Packed on Ice N ___ Y (circled)

Rush? (Lab MUST Be Notified)
- ___ Same Day.....200%
- (circled) Next Day.....100%
- ___ Two Day.....50%
- ___ Three Day.....25%

Date Results Needed: 12/23/08

Email? ___No ___Yes

FAX? ___No ___Yes

Analysis/Container/Preservative

Chain of Custody Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
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FAX (615) 758-5859

E051

CoCode: (lab use only)

Template/Prelogin

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	6210	625	RCRA Metal	Tot Solids	8260	8270	RCRA Metals	Remarks/Contaminant	Sample # (lab only)
TMW-3	G	GW		12/17/08	16:00	4	2	1	1					L380382	01
TMW-4	G	GW		↓	17:00	4	2	1	1						02
TMW-5	G	GW		↓	15:00	4	2	1	1						03
TMW-4	G	SS		12/16/08	15:15	6				1	3	1	1		04
TMW-5	G	SS		↓	16:00	6				1	3	1	1		05

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ SWA	Condition: (lab use only)
SMB	12/18/08	1419	Brent Hadley		On Ice
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.9 C / Bottles Received: 24+TB	CoC Seals Intact ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/19/08 / Time: 0715	pH Checked: <2 / NCF:

pH adjusted in lab @0910

APPENDIX D

EMSL TO-15 ANALYTICAL REPORT

EMSL Analytical, Inc., IH Laboratory, 3 Cooper Street, Westmont, NJ 08108 phone (800)220-3675

Rohit Bali
ECS Carolinas, LLP
9001 Glenwood Ave
Raleigh, NC 27617

Email: rbali@ecslimited.com

RE: EMSL 280802277
Project:
TO-15 ANALYSIS

Dear Rohit:

Attached please find the lab report and results for the above referenced analysis. If you have any questions or need further information, please do not hesitate to contact me at extension 1275. If you require data interpretation, please contact Vince Daliessio, CIH, at extension 1240.

Sincerely,

M. Howley for

Scott VanEtten
Senior Chemist
IH Laboratory Manager

NJ-NELAP Laboratory No. 04653

AIHA 100194

VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280802277-1
Laboratory File ID: j0902.d

Results for Project: EMSL280802277
Client Sample ID: 02
Analysis Date: 12/11/08
Sample Volume(mL): 25
Canister ID: T2015

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	10	17	
Freon 12(Dichlorodifluoromethane)	75-71-8	ND	5.0	25	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	5.0	35	
Chloromethane	74-87-3	ND	5.0	10	
Vinyl chloride	75-01-4	ND	5.0	13	
1,3-Butadiene	106-99-0	ND	5.0	11	
Bromomethane	74-83-9	ND	5.0	19	
Chloroethane	75-00-3	ND	5.0	13	
Ethanol	64-17-5	E	700	1300	
Bromoethene (Vinyl bromide)	593-60-2	ND	5.0	22	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	5.0	28	
Isopropyl alcohol(2-Propanol)	67-63-0	ND	15	37	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	5.0	38	
Acetone	67-64-1		40	95	
1,1-Dichloroethene	75-35-4	ND	5.0	20	
Acetonitrile	75-05-8	ND	5.0	8.4	
Tertiary butyl alcohol (TBA)	75-65-0		42	130	
Bromoethane (Ethyl bromide)	74-96-4	ND	5.0	22	
3-Chloropropene (Allyl chloride)	107-05-1	ND	5.0	16	
Carbon disulfide	75-15-0	ND	5.0	16	
Methylene chloride	75-09-2	ND	15	52	
Acrylonitrile	107-13-1	ND	5.0	11	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	5.0	18	
trans-1,2-Dichloroethene	156-60-5	ND	5.0	20	
n-Hexane	110-54-3	E	1100	4000	
1,1-Dichloroethane	75-34-3	ND	5.0	20	
Vinyl acetate	108-05-4	ND	5.0	18	
2-Butanone(MEK)	78-93-3	ND	5.0	15	
cis-1,2-Dichloroethene	156-59-2	ND	5.0	20	
Ethyl acetate	141-78-6	ND	5.0	18	
Chloroform	67-66-3	ND	5.0	24	
Tetrahydrofuran	109-99-9	ND	5.0	15	
1,1,1-Trichloroethane	71-55-6	ND	5.0	27	
Cyclohexane	110-82-7		410	1400	
2,2,4-Trimethylpentane (Isooctane)	540-84-1	ND	5.0	23	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	5.0	31	
n-Heptane	142-82-5	E	320	1300	
1,2-Dichloroethane	107-06-2	ND	5.0	20	
Benzene	71-43-2		140	460	
Trichloroethene	79-01-6	ND	5.0	27	
1,2-Dichloropropane	78-87-5	ND	5.0	23	
Bromodichloromethane	75-27-4	ND	5.0	33	
1,4-Dioxane	123-91-1	ND	5.0	18	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	5.0	20	
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	23	
Toluene	108-88-3	ND	5.0	19	
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	23	
1,1,2-Trichloroethane	79-00-5	ND	5.0	27	
2-Hexanone(MBK)	591-78-6	ND	5.0	20	
Tetrachloroethene	127-18-4	ND	5.0	34	
Dibromochloromethane	124-48-1	ND	5.0	43	
1,2-Dibromoethane	106-93-4	ND	5.0	38	
Chlorobenzene	108-90-7	ND	5.0	23	
Ethylbenzene	100-41-4	ND	5.0	22	
Xylene (para & meta)	1330-20-7		6.6	28	
Xylene (Ortho)	95-47-6	ND	5.0	22	
Styrene	100-42-5	ND	5.0	21	
Bromoform	75-25-2	ND	5.0	52	
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	34	
4-Ethyltoluene	622-96-8	ND	5.0	25	
1,3,5-Trimethylbenzene	108-67-8	ND	5.0	25	
2-Chlorotoluene	95-49-8	ND	5.0	26	
1,2,4-Trimethylbenzene	95-63-6	ND	5.0	25	
1,3-Dichlorobenzene	541-73-1	ND	5.0	30	
1,4-Dichlorobenzene	106-46-7	ND	5.0	30	
Benzyl chloride	100-44-7	ND	5.0	37	
1,2-Dichlorobenzene	95-50-1	ND	5.0	30	
1,2,4-Trichlorobenzene	120-82-1	ND	5.0	37	
Hexachloro-1,3-butadiene	87-68-3	ND	5.0	53	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	10.92	10.00	109	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical quatitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
2277-1

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 2277-1

Sample wt/vol: 25 (g/mL) ML Lab File ID: J0902.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/11/08

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 20 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-28-5	Isobutane	5.86	57	J
2. 106-97-8	Butane	6.33	240	J
3. 78-78-4	Butane, 2-methyl-	7.89	500	J
4. 109-66-0	Pentane	8.66	400	J
5. 1630-94-0	Cyclopropane, 1,1-dimethyl-	9.69	72	J
6. 107-83-5	Pentane, 2-methyl-	11.12	470	J
7.	Unknown Hydrocarbon	11.75	310	J
8. 96-37-7	Cyclopentane, methyl-	14.14	300	J
9. 591-76-4	Hexane, 2-methyl-	14.97	140	J
10.	Unknown Hydrocarbon	15.22	53	J
11. 589-34-4	Hexane, 3-methyl-	15.37	180	J
12. 2453-00-1	Cyclopentane, 1,3-dimethyl-	16.11	230	J
13.	Unknown Sub. Cyclopentane	16.36	250	J
14. 108-87-2	Cyclohexane, methyl-	17.84	500	J
15. 592-27-8	Heptane, 2-methyl-	18.48	100	J
16. 589-81-1	Heptane, 3-methyl-	18.82	84	J
17. 591-21-9	1,3-Dimethylcyclohexane,c&t	19.58	120	J
18.	Unknown Substituted Cyclohex	21.46	57	J
19.	Unknown	21.55	66	J
20.	Unknown Substituted Cyclohex	21.57	52	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280802277-2
Laboratory File ID: j0920.d

Results for Project: EMSL280802277
Client Sample ID: 04
Analysis Date: 12/12/08
Sample Volume(mL): 25
Canister ID: T1224

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	10	17	
Freon 12(Dichlorodifluoromethane)	75-71-8	ND	5.0	25	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	5.0	35	
Chloromethane	74-87-3	ND	5.0	10	
Vinyl chloride	75-01-4	ND	5.0	13	
1,3-Butadiene	106-99-0	ND	5.0	11	
Bromomethane	74-83-9	ND	5.0	19	
Chloroethane	75-00-3	ND	5.0	13	
Ethanol	64-17-5		41	78	
Bromoethene (Vinyl bromide)	593-60-2	ND	5.0	22	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	5.0	28	
Isopropyl alcohol(2-Propanol)	67-63-0	ND	15	37	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	5.0	38	
Acetone	67-64-1	ND	30	71	
1,1-Dichloroethene	75-35-4	ND	5.0	20	
Acetonitrile	75-05-8	ND	5.0	8.4	
Tertiary butyl alcohol (TBA)	75-65-0	ND	5.0	15	
Bromoethane (Ethyl bromide)	74-96-4	ND	5.0	22	
3-Chloropropene (Allyl chloride)	107-05-1	ND	5.0	16	
Carbon disulfide	75-15-0	ND	5.0	16	
Methylene chloride	75-09-2	ND	15	52	
Acrylonitrile	107-13-1	ND	5.0	11	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	5.0	18	
trans-1,2-Dichloroethene	156-60-5	ND	5.0	20	
n-Hexane	110-54-3		50	170	
1,1-Dichloroethane	75-34-3	ND	5.0	20	
Vinyl acetate	108-05-4	ND	5.0	18	
2-Butanone(MEK)	78-93-3	ND	5.0	15	
cis-1,2-Dichloroethene	156-59-2	ND	5.0	20	
Ethyl acetate	141-78-6	ND	5.0	18	
Chloroform	67-66-3	ND	5.0	24	
Tetrahydrofuran	109-99-9	ND	5.0	15	
1,1,1-Trichloroethane	71-55-6	ND	5.0	27	
Cyclohexane	110-82-7		14	49	
2,2,4-Trimethylpentane (Isooctane)	540-84-1	ND	5.0	23	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	5.0	31	
n-Heptane	142-82-5		9.4	39	
1,2-Dichloroethane	107-06-2	ND	5.0	20	
Benzene	71-43-2		6.1	19	
Trichloroethene	79-01-6	ND	5.0	27	
1,2-Dichloropropane	78-87-5	ND	5.0	23	
Bromodichloromethane	75-27-4	ND	5.0	33	
1,4-Dioxane	123-91-1	ND	5.0	18	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	5.0	20	
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	23	
Toluene	108-88-3	ND	5.0	19	
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	23	
1,1,2-Trichloroethane	79-00-5	ND	5.0	27	
2-Hexanone(MBK)	591-78-6	ND	5.0	20	
Tetrachloroethene	127-18-4	ND	5.0	34	
Dibromochloromethane	124-48-1	ND	5.0	43	
1,2-Dibromoethane	106-93-4	ND	5.0	38	
Chlorobenzene	108-90-7	ND	5.0	23	
Ethylbenzene	100-41-4	ND	5.0	22	
Xylene (para & meta)	1330-20-7	ND	5.0	22	
Xylene (Ortho)	95-47-6	ND	5.0	22	
Styrene	100-42-5	ND	5.0	21	
Bromoform	75-25-2	ND	5.0	52	
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	34	
4-Ethyltoluene	622-96-8	ND	5.0	25	
1,3,5-Trimethylbenzene	108-67-8	ND	5.0	25	
2-Chlorotoluene	95-49-8	ND	5.0	26	
1,2,4-Trimethylbenzene	95-63-6	ND	5.0	25	
1,3-Dichlorobenzene	541-73-1	ND	5.0	30	
1,4-Dichlorobenzene	106-46-7	ND	5.0	30	
Benzyl chloride	100-44-7	ND	5.0	37	
1,2-Dichlorobenzene	95-50-1	ND	5.0	30	
1,2,4-Trichlorobenzene	120-82-1	ND	5.0	37	
Hexachloro-1,3-butadiene	87-68-3	ND	5.0	53	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	9.55	10.00	96	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical quatitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
2277-2

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 2277-2

Sample wt/vol: 25 (g/mL) ML Lab File ID: J0920.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/08

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 18 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-28-5	Isobutane	5.90	48	J
2. 106-97-8	Butane	6.37	200	J
3. 78-78-4	Butane, 2-methyl-	7.90	290	J
4. 109-66-0	Pentane	8.70	190	J
5.	Unknown Hydrocarbon	8.88	8	J
6.	Unknown Hydrocarbon	9.26	8	J
7. 1630-94-0	Cyclopropane, 1,1-dimethyl-	9.73	22	J
8. 75-83-2	Butane, 2,2-dimethyl-	9.86	6	J
9. 107-83-5	Pentane, 2-methyl-	11.14	140	J
10.	Unknown Hydrocarbon	11.79	96	J
11.	Unknown Hydrocarbon	13.25	6	J
12. 108-08-7	Pentane, 2,4-dimethyl-	13.47	6	J
13. 96-37-7	Cyclopentane, methyl-	14.17	58	J
14. 591-76-4	Hexane, 2-methyl-	14.99	16	J
15. 589-34-4	Hexane, 3-methyl-	15.39	25	J
16. 2453-00-1	Cyclopentane, 1,3-dimethyl-	16.13	10	J
17. 1192-18-3	Cyclopentane, 1,2-dimethyl-,	16.38	12	J
18. 108-87-2	Cyclohexane, methyl-	17.86	27	J
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VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280802277-3
Laboratory File ID: j0905.d

Results for Project: EMSL280802277
Client Sample ID: 03
Analysis Date: 12/11/08
Sample Volume(mL): 25
Canister ID: T2013

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	10	17	
Freon 12(Dichlorodifluoromethane)	75-71-8	ND	5.0	25	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	5.0	35	
Chloromethane	74-87-3	ND	5.0	10	
Vinyl chloride	75-01-4	ND	5.0	13	
1,3-Butadiene	106-99-0	ND	5.0	11	
Bromomethane	74-83-9	ND	5.0	19	
Chloroethane	75-00-3	ND	5.0	13	
Ethanol	64-17-5		200	370	
Bromoethene (Vinyl bromide)	593-60-2	ND	5.0	22	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	5.0	28	
Isopropyl alcohol(2-Propanol)	67-63-0	ND	15	37	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	5.0	38	
Acetone	67-64-1	ND	30	71	
1,1-Dichloroethene	75-35-4	ND	5.0	20	
Acetonitrile	75-05-8	ND	5.0	8.4	
Tertiary butyl alcohol (TBA)	75-65-0		11	32	
Bromoethane (Ethyl bromide)	74-96-4	ND	5.0	22	
3-Chloropropene (Allyl chloride)	107-05-1	ND	5.0	16	
Carbon disulfide	75-15-0	ND	5.0	16	
Methylene chloride	75-09-2	ND	15	52	
Acrylonitrile	107-13-1	ND	5.0	11	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	5.0	18	
trans-1,2-Dichloroethene	156-60-5	ND	5.0	20	
n-Hexane	110-54-3	E	320	1100	
1,1-Dichloroethane	75-34-3	ND	5.0	20	
Vinyl acetate	108-05-4	ND	5.0	18	
2-Butanone(MEK)	78-93-3	ND	5.0	15	
cis-1,2-Dichloroethene	156-59-2	ND	5.0	20	
Ethyl acetate	141-78-6	ND	5.0	18	
Chloroform	67-66-3	ND	5.0	24	
Tetrahydrofuran	109-99-9	ND	5.0	15	
1,1,1-Trichloroethane	71-55-6	ND	5.0	27	
Cyclohexane	110-82-7		100	360	
2,2,4-Trimethylpentane (Isooctane)	540-84-1	ND	5.0	23	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	5.0	31	
n-Heptane	142-82-5		65	270	
1,2-Dichloroethane	107-06-2	ND	5.0	20	
Benzene	71-43-2		23	74	
Trichloroethene	79-01-6	ND	5.0	27	
1,2-Dichloropropane	78-87-5	ND	5.0	23	
Bromodichloromethane	75-27-4	ND	5.0	33	
1,4-Dioxane	123-91-1	ND	5.0	18	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	5.0	20	
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	23	
Toluene	108-88-3	ND	5.0	19	
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	23	
1,1,2-Trichloroethane	79-00-5	ND	5.0	27	
2-Hexanone(MBK)	591-78-6	ND	5.0	20	
Tetrachloroethene	127-18-4	ND	5.0	34	
Dibromochloromethane	124-48-1	ND	5.0	43	
1,2-Dibromoethane	106-93-4	ND	5.0	38	
Chlorobenzene	108-90-7	ND	5.0	23	
Ethylbenzene	100-41-4	ND	5.0	22	
Xylene (para & meta)	1330-20-7	ND	5.0	22	
Xylene (Ortho)	95-47-6	ND	5.0	22	
Styrene	100-42-5	ND	5.0	21	
Bromoform	75-25-2	ND	5.0	52	
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	34	
4-Ethyltoluene	622-96-8	ND	5.0	25	
1,3,5-Trimethylbenzene	108-67-8	ND	5.0	25	
2-Chlorotoluene	95-49-8	ND	5.0	26	
1,2,4-Trimethylbenzene	95-63-6	ND	5.0	25	
1,3-Dichlorobenzene	541-73-1	ND	5.0	30	
1,4-Dichlorobenzene	106-46-7	ND	5.0	30	
Benzyl chloride	100-44-7	ND	5.0	37	
1,2-Dichlorobenzene	95-50-1	ND	5.0	30	
1,2,4-Trichlorobenzene	120-82-1	ND	5.0	37	
Hexachloro-1,3-butadiene	87-68-3	ND	5.0	53	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	9.73	10.00	97	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical quatitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
2277-3

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 2277-3

Sample wt/vol: 25 (g/mL) ML Lab File ID: J0905.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/11/08

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 19 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-28-5	Isobutane	5.88	140	J
2. 106-97-8	Butane	6.33	640	J
3. 78-78-4	Butane, 2-methyl-	7.89	1400	J
4. 109-66-0	Pentane	8.68	890	J
5. 1630-94-0	Cyclopropane, 1,1-dimethyl-	9.71	110	J
6. 75-83-2	Butane, 2,2-dimethyl-	9.84	100	J
7. 107-83-5	Pentane, 2-methyl-	11.12	1000	J
8.	Unknown Hydrocarbon	11.77	690	J
9.	Unknown Hydrocarbon	13.05	41	J
10.	Unknown Hydrocarbon	13.23	55	J
11. 108-08-7	Pentane, 2,4-dimethyl-	13.45	63	J
12. 96-37-7	Cyclopentane, methyl-	14.16	500	J
13. 591-76-4	Hexane, 2-methyl-	14.97	160	J
14. 589-34-4	Hexane, 3-methyl-	15.37	230	J
15.	Unknown	15.82	34	J
16. 2453-00-1	Cyclopentane, 1,3-dimethyl-	16.11	65	J
17. 822-50-4	Cyclopentane, 1,2-dimethyl-,	16.36	72	J
18. 108-87-2	Cyclohexane, methyl-	17.84	170	J
19.	Unknown Substituted Cyclohex	19.58	34	J
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VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280802277-4
Laboratory File ID: j0906.d

Results for Project: EMSL280802277
Client Sample ID: 01
Analysis Date: 12/11/08
Sample Volume(mL): 25
Canister ID: T2222

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	10	17	
Freon 12(Dichlorodifluoromethane)	75-71-8	ND	5.0	25	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	5.0	35	
Chloromethane	74-87-3	ND	5.0	10	
Vinyl chloride	75-01-4	ND	5.0	13	
1,3-Butadiene	106-99-0	ND	5.0	11	
Bromomethane	74-83-9	ND	5.0	19	
Chloroethane	75-00-3	ND	5.0	13	
Ethanol	64-17-5	E	4700	8900	
Bromoethene (Vinyl bromide)	593-60-2	ND	5.0	22	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	5.0	28	
Isopropyl alcohol(2-Propanol)	67-63-0	ND	15	37	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	5.0	38	
Acetone	67-64-1	E	300	700	
1,1-Dichloroethene	75-35-4	ND	5.0	20	
Acetonitrile	75-05-8	ND	5.0	8.4	
Tertiary butyl alcohol (TBA)	75-65-0	E	270	820	
Bromoethane (Ethyl bromide)	74-96-4	ND	5.0	22	
3-Chloropropene (Allyl chloride)	107-05-1	ND	5.0	16	
Carbon disulfide	75-15-0	ND	5.0	16	
Methylene chloride	75-09-2	ND	15	52	
Acrylonitrile	107-13-1	ND	5.0	11	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	5.0	18	
trans-1,2-Dichloroethene	156-60-5	ND	5.0	20	
n-Hexane	110-54-3	ND	5.0	18	
1,1-Dichloroethane	75-34-3	ND	5.0	20	
Vinyl acetate	108-05-4	ND	5.0	18	
2-Butanone(MEK)	78-93-3		8.5	25	
cis-1,2-Dichloroethene	156-59-2	ND	5.0	20	
Ethyl acetate	141-78-6	ND	5.0	18	
Chloroform	67-66-3	ND	5.0	24	
Tetrahydrofuran	109-99-9	ND	5.0	15	
1,1,1-Trichloroethane	71-55-6	ND	5.0	27	
Cyclohexane	110-82-7	ND	5.0	17	
2,2,4-Trimethylpentane (Isooctane)	540-84-1	ND	5.0	23	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	5.0	31	
n-Heptane	142-82-5	ND	5.0	20	
1,2-Dichloroethane	107-06-2	ND	5.0	20	
Benzene	71-43-2	ND	5.0	16	
Trichloroethene	79-01-6	ND	5.0	27	
1,2-Dichloropropane	78-87-5	ND	5.0	23	
Bromodichloromethane	75-27-4	ND	5.0	33	
1,4-Dioxane	123-91-1	ND	5.0	18	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	5.0	20	
cis-1,3-Dichloropropene	10061-01-5	ND	5.0	23	
Toluene	108-88-3	ND	5.0	19	
trans-1,3-Dichloropropene	10061-02-6	ND	5.0	23	
1,1,2-Trichloroethane	79-00-5	ND	5.0	27	
2-Hexanone(MBK)	591-78-6	ND	5.0	20	
Tetrachloroethene	127-18-4	ND	5.0	34	
Dibromochloromethane	124-48-1	ND	5.0	43	
1,2-Dibromoethane	106-93-4	ND	5.0	38	
Chlorobenzene	108-90-7	ND	5.0	23	
Ethylbenzene	100-41-4	ND	5.0	22	
Xylene (para & meta)	1330-20-7	ND	5.0	22	
Xylene (Ortho)	95-47-6	ND	5.0	22	
Styrene	100-42-5	ND	5.0	21	
Bromoform	75-25-2	ND	5.0	52	
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.0	34	
4-Ethyltoluene	622-96-8	ND	5.0	25	
1,3,5-Trimethylbenzene	108-67-8	ND	5.0	25	
2-Chlorotoluene	95-49-8	ND	5.0	26	
1,2,4-Trimethylbenzene	95-63-6	ND	5.0	25	
1,3-Dichlorobenzene	541-73-1	ND	5.0	30	
1,4-Dichlorobenzene	106-46-7	ND	5.0	30	
Benzyl chloride	100-44-7	ND	5.0	37	
1,2-Dichlorobenzene	95-50-1	ND	5.0	30	
1,2,4-Trichlorobenzene	120-82-1	ND	5.0	37	
Hexachloro-1,3-butadiene	87-68-3	ND	5.0	53	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	9.59	10.00	96	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical qualitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
2277-4

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 2277-4

Sample wt/vol: 25 (g/mL) ML Lab File ID: J0906.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/11/08

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 3 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 71-36-3	1-Butanol	16.13	160	J
2. 142-96-1	n-Butyl ether	22.54	70	J
3. 590-01-2	Propanoic acid, butyl ester	23.74	8	J
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EMSL ANALYTICAL, INC.
107 Haddon Avenue
Westmont, New Jersey 08108
856-858-4800 Extension 1301
856-858-3502 Fax or
mhowley@emsl.com or svanetten@emsl.com

External
Chain of Custody / Analysis Request Form

EMSL Project # 280802277
PO#

Note: Please complete all required information. Incomplete shaded areas may hinder processing samples.

Project Name:

(Weather conditions (if known): Bar. Pressure: 30.14 Temp.: 56°F % Humidity: 54%

Custody and Sample Information - Print ALL information. Write N/A in blanks not applicable.

1. Report to: Rohit Bali, ECS Carolinas LLP, 9001 Glenwood Ave, Raleigh, NC 27617

2. Bill To: Rohit Bali, ECS Carolinas LLP, 9001 Glenwood Ave, Raleigh NC 27617

Contact Person
Name: Rohit Bali
E-mail: rbali@ecslimited.com
Tel.#: 919-861-9910
FAX #: 919-861-9911

Sample Shipping and Transport Notice
The individual signing this document to relinquish the sample(s) is indicating that the sample(s) is/are being shipped in compliance with all applicable local, state or Federal as well as international laws, regulations and ordinances. EMSL Analytical, Inc. assumes no liability with respect to sampling, handling or shipping of the samples included in this shipment. The relinquishing signature in addition indicates agreement to hold harmless, defend and indemnify EMSL Analytical, Inc. against any claim, demand, or action, related to the sampling, handling, or shipping of samples. Call the D.O.T. Hotline at -(800) 467-4922 for questions about regulations.

3. Sampled by (Signature): Rohit Bali
4. # of Samples in Shipment: 4
5. Date of Sample Shipment: 12.4.08
6. Date/Time Results Needed: 12.12.08

Item #	Lab Sample ID	Canister ID	Client Sample ID	Sampling Date / Time Start		Sampling Date / Time Stop		Regulator ID	Analyses Requested	Field Test Values (ppm)	Canister / Vacuum Initial "Hg	Final "Hg	Receipt "Hg
1		T2015	02	12/4/08	11:25	12.4.08	11:55	7296358	TO-15		30		0 0.2
2		T1224	04	12.4.08	12:35	12.4.08	1305	7282375			30		0 0.2
3		T2013	03	12.4.08	12:00PM	12.4.08	12:30	7296350			30		0 0.2
4		T2222	01	12.4.08	10:50	12.4.08	11:20	7294656			30		0 0.2
5													
6													

Sample Type: [ ] Indoor Air Quality [X] Soil Gas [ ] Vent Gas [ ] Other_____

Do you want your results e-mailed? [X] Yes [ ] No

Library Search needed: [X] Yes [ ] No, required if you will need help interpreting your report.

Relinquished by (print/sign): Kevin Rossell	Company: EMSL	Date/Time 12/4/08 1325	Affixed Custody Seal No. 3987
Received by (print/sign): Rohit Bali	Company: ECS	Date/Time 12/4/08 1500	Was Custody Seal Broken? [ ] Yes [X] No 3988
Relinquished by (print/sign):	Company:	Date/Time	Affixed Custody Seal No.
Received by (print/sign): DM-SK-910A	Company: EMSL	Date/Time	Was Custody Seal Broken? [ ] Yes [X] No
Relinquished by (print/sign):	Company:	Date/Time	Affixed Custody Seal No.
Received by (print/sign):	Company:	Date/Time	Was Custody Seal Broken? [ ] Yes [ ] No
Relinquished by (print/sign):	Company:	Date/Time	Affixed Custody Seal No.
Received by (print/sign):	Company: EMSL	Date/Time 12/12/08 1650	Was Custody Seal Broken? [ ] Yes [ ] No

Please indicate Turn Around Time needed: [X] Standard 5-10 Days* | *96-Hour | *72- | *48-Hour | *24-Hour
*TAT subject to laboratory workload. A limited amount of 5 day TAT can be accepted by laboratory

Comments:

Please indicate reporting requirements:
1) Results only
2) Other (Attach a copy of requirements)

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC
DEC 12 2008 11:18 AM
RECEIVED WESTMONT, NJ

TO-15 IH COC 032905.doc

280802277

TO-15 Sample Information

In order to analyze your sample(s) in a timely manner, please fill out as many fields below as possible. Lack of response may delay sample analysis. Please fill out the Chain of Custody as well as this worksheet.

Company:
ECS Carolinas, LLP

Contact Person:

Name: Rohit Bali

E-mail: rbali@ecslimited.com

Telephone #: 919-861-9910

Fax #: 919-861-9911

Do you want your results emailed? [X] YES [ ] NO

Library Search requested: [X] YES [ ] NO
A library search will identify up to 20 of the largest, non-target peaks that are not part of the standard TO-15 list of 62 compounds. If you are performing an Indoor Air Quality or odor investigation the library search is recommended. If you will need help interpreting your report the library search is REQUIRED. The standard cost is $25/sample. Requests for a library search after the analysis has been completed will cost $75/sample.

Sample Type: [ ] Indoor Air Quality (Home/Office) [ ] IAQ (Industrial)
[X] Soil Gas [ ] Vent Gas [ ] Process Gas [ ] Stack Gas
[ ] Other: _____

Description of sample:
Vapor Intrusion sampling

Are there any special detection limits, specific set of compounds, or any other specifics you need in your report?
[ ] YES (Please list or attach separate sheet) [X] NO

SAMPLES ACCEPTED
FOR ANALYSIS BY
EMSL ANALYTICAL INC.

08 DEC -5 AM 11:19

RECEIVED
EMSL
WESTMONT, NJ

APPENDIX E

EPA REGIONAL SCREENING (COMPARISON) TABLES

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User's Guide); s = Concentration may exceed Csat (See User's Guide); SSL values are bsed on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Acephate	30560-19-1								
Acetaldehyde	75-07-0	2.2E-06	I	9.0E-03	I	V		1.1E+00	9.4E+00
Acetochlor	34256-82-1								
Acetone	67-64-1			3.1E+01	A	V			3.2E+04
Acetone Cyanohydrin	75-86-5			6.0E-02	P	V			6.3E+01
Acetonitrile	75-05-8			6.0E-02	I	V			6.3E+01
Acetophenone	98-86-2					V			
Acrolein	107-02-8			2.0E-05	I	V			2.1E-02
Acrylamide	79-06-1	1.3E-03	I					1.9E-03	
Acrylic Acid	79-10-7			1.0E-03	I				1.0E+00
Acrylonitrile	107-13-1	6.8E-05	I	2.0E-03	I	V		3.6E-02	2.1E+00
Adiponitrile	111-69-3			6.0E-03	P				6.3E+00
Alachlor	15972-60-8								
ALAR	1596-84-5								
Aldicarb	116-06-3								
Aldicarb Sulfone	1646-88-4								
Aldrin	309-00-2	4.9E-03	I					5.0E-04	
Ally	74223-64-6								
Allyl Alcohol	107-18-6			3.0E-04	P				3.1E-01
Allyl Chloride	107-05-1			1.0E-03	I	V			1.0E+00
Aluminum	7429-90-5			5.0E-03	P				5.2E+00
Aluminum Phosphide	20859-73-8								
Amdro	67485-29-4								
Ametryn	834-12-8								
Aminophenol, m-	591-27-5								
Aminophenol, p-	123-30-8								
Amitraz	33089-61-1								
Ammonia	7664-41-7			1.0E-01	I				1.0E+02
Ammonium Perchlorate	7790-98-9								
Ammonium Sulfamate	7773-06-0								
Aniline	62-53-3			1.0E-03	I				1.0E+00
Antimony (metallic)	7440-36-0								
Antimony Pentoxide	1314-60-9								
Antimony Potassium Tartrate	11071-15-1								
Antimony Tetroxide	1332-81-6								
Antimony Trioxide	1309-64-4			2.0E-04	I				2.1E-01
Apollo	74115-24-5								
Aramite	140-57-8	7.1E-06	I					3.4E-01	
Arsenic, Inorganic	7440-38-2	4.3E-03	I	3.0E-05	C			5.7E-04	3.1E-02
Arsine	7784-42-1			5.0E-05	I				5.2E-02
Assure	76578-14-8								
Asulam	3337-71-1								
Atrazine	1912-24-9								
Avermectin B1	65195-55-3								
Azobenzene	103-33-3	3.1E-05	I			V		7.8E-02	

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Barium	7440-39-3			5.0E-04	H				5.2E-01
Baygon	114-26-1								
Bayleton	43121-43-3								
Baythroid	68359-37-5								
Benefin	1861-40-1								
Benomyl	17804-35-2								
Bentazon	25057-89-0								
Benzaldehyde	100-52-7					V			
Benzene	71-43-2	7.8E-06	I	3.0E-02	I	V		3.1E-01	3.1E+01
Benzenethiol	108-98-5					V			
Benzidine	92-87-5	6.7E-02	I				M	1.4E-05	
Benzoic Acid	65-85-0								
Benzotrichloride	98-07-7					V			
Benzyl Alcohol	100-51-6								
Benzyl Chloride	100-44-7			1.0E-03	P	V			1.0E+00
Beryllium and compounds	7440-41-7	2.4E-03	I	2.0E-05	I			1.0E-03	2.1E-02
Bidrin	141-66-2								
Bifenox	42576-02-3								
Biphenthrin	82657-04-3								
Biphenyl, 1,1'-	92-52-4					V			
Bis(2-chloroethoxy)methane	111-91-1								
Bis(2-chloroethyl)ether	111-44-4	3.3E-04	I			V		7.4E-03	
Bis(2-chloro-1-methylethyl) ether	108-60-1	1.0E-05	H			V		2.4E-01	
Bis(2-ethylhexyl)phthalate	117-81-7								
Bis(chloromethyl)ether	542-88-1	6.2E-02	I			V		3.9E-05	
Bisphenol A	80-05-7								
Boron And Borates Only	7440-42-8			2.0E-02	H				2.1E+01
Boron Trifluoride	7637-07-2			7.0E-04	H				7.3E-01
Bromate	15541-45-4								
Bromobenzene	108-86-1			1.0E-02	P	V			1.0E+01
Bromodichloromethane	75-27-4					V			
Bromoform	75-25-2	1.1E-06	I					2.2E+00	
Bromomethane	74-83-9			5.0E-03	I	V			5.2E+00
Bromophos	2104-96-3								
Bromoxynil	1689-84-5								
Bromoxynil Octanoate	1689-99-2								
Butadiene, 1,3-	106-99-0	3.0E-05	I	2.0E-03	I	V		8.1E-02	2.1E+00
Butanol, N-	71-36-3								
Butyl Benzyl Phthlate	85-68-7								
Butylate	2008-41-5								
Butylphthalyl Butylglycolate	85-70-1								
Cacodylic Acid	75-60-5								
Cadmium (Water)	7440-43-9	1.8E-03	I					1.4E-03	
Caprolactam	105-60-2								
Captafol	2425-06-1	4.3E-05	C					5.7E-02	

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Captan	133-06-2	6.6E-07	C					3.7E+00	
Carbaryl	63-25-2								
Carbofuran	1563-66-2								
Carbon Disulfide	75-15-0			7.0E-01	I	V			7.3E+02
Carbon Tetrachloride	56-23-5	1.5E-05	I	1.9E-01	A	V		1.6E-01	2.0E+02
Carbosulfan	55285-14-8								
Carboxin	5234-68-4								
Chloral Hydrate	302-17-0								
Chloramben	133-90-4								
Chloranil	118-75-2								
Chlordane	12789-03-6	1.0E-04	I	7.0E-04	I			2.4E-02	7.3E-01
Chlordecone (Kepone)	143-50-0	4.6E-03	C					5.3E-04	
Chlorimuron, Ethyl-	90982-32-4								
Chlorine	7782-50-5			1.5E-04	A				1.5E-01
Chlorine Dioxide	10049-04-4			2.0E-04	I				2.1E-01
Chlorite (Sodium Salt)	7758-19-2								
Chloro-1,1-difluoroethane, 1-	75-68-3			5.0E+01	I	V			5.2E+04
Chloro-1,3-butadiene, 2-	126-99-8			7.0E-03	H	V			7.3E+00
Chloro-2-methylaniline HCl, 4-	3165-93-3								
Chloro-2-methylaniline, 4-	95-69-2	7.7E-05	C					3.2E-02	
Chloroacetic Acid	79-11-8								
Chloroacetophenone, 2-	532-27-4			3.0E-05	I				3.1E-02
Chloroaniline, p-	106-47-8								
Chlorobenzene	108-90-7			5.0E-02	P	V			5.2E+01
Chlorobenzilate	510-15-6	3.1E-05	C					7.8E-02	
Chlorobenzotrifluoride, 4-	98-56-6			3.0E-01	P	V			3.1E+02
Chlorobutane, 1-	109-69-3					V			
Chlorodifluoromethane	75-45-6			5.0E+01	I	V			5.2E+04
Chloroform	67-66-3	2.3E-05	I	9.8E-02	A	V		1.1E-01	1.0E+02
Chloromethane	74-87-3	1.8E-06	H	9.0E-02	I	V		1.4E+00	9.4E+01
Chloronaphthalene, Beta-	91-58-7					V			
Chloronitrobenzene, o-	88-73-3			7.0E-05	P				7.3E-02
Chloronitrobenzene, p-	100-00-5			6.0E-04	P				6.3E-01
Chlorophenol, 2-	95-57-8					V			
Chlorothalonil	1897-45-6	8.9E-07	C					2.7E+00	
Chlorotoluene, o-	95-49-8					V			
Chlorpropham	101-21-3								
Chlorpyrifos	2921-88-2								
Chlorpyrifos Methyl	5598-13-0								
Chlorsulfuron	64902-72-3								
Chlorthiophos	60238-56-4								
Chromium (III) (Insoluble Salts)	16065-83-1								
Chromium VI (chromic acid mists)	18540-29-9	8.4E-02	I	8.0E-06	I			2.9E-05	8.3E-03
Chromium VI (particulates)	18540-29-9	8.4E-02	I	1.0E-04	I			2.9E-05	1.0E-01
Chromium, Total (1:6 ratio Cr VI : Cr III)	7440-47-3	1.2E-02	I				M	2.0E-04	

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Cobalt	7440-48-4	9.0E-03	P	6.0E-06	P			2.7E-04	6.3E-03
Coke Oven Emissions	8007-45-2	6.2E-04	I				M	1.5E-03	
Copper	7440-50-8								
Cresol, m-	108-39-4								
Cresol, o-	95-48-7								
Cresol, p-	106-44-5								
Crotonaldehyde, trans-	123-73-9					V			
Cumene	98-82-8			4.0E-01	I	V			4.2E+02
Cyanazine	21725-46-2								
Cyclohexane	110-82-7			6.0E+00	I	V			6.3E+03
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3								
Cyclohexanone	108-94-1								
Cyclohexylamine	108-91-8								
Cyhalothrin/karate	68085-85-8								
Cypermethrin	52315-07-8								
Cyromazine	66215-27-8								
Cyanides									
Calcium Cyanide	592-01-8								
Copper Cyanide	544-92-3								
Cyanide (CN-)	57-12-5								
Cyanogen	460-19-5					V			
Cyanogen Bromide	506-68-3					V			
Cyanogen Chloride	506-77-4					V			
Hydrogen Cyanide	74-90-8			3.0E-03	I	V			3.1E+00
Potassium Cyanide	151-50-8								
Potassium Silver Cyanide	506-61-6								
Silver Cyanide	506-64-9								
Sodium Cyanide	143-33-9								
Thiocyanate	463-56-9					V			
Zinc Cyanide	557-21-1								
Dacthal	1861-32-1								
Dalapon	75-99-0								
DDD	72-54-8								
DDE, p,p'-	72-55-9								
DDT	50-29-3	9.7E-05	I					2.5E-02	
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5								
Demeton	8065-48-3								
Di(2-ethylhexyl)adipate	103-23-1								
Diallate	2303-16-4								
Diazinon	333-41-5								
Dibromo-3-chloropropane, 1,2-	96-12-8	6.0E-03	P	2.0E-04	I	V	M	1.6E-04	2.1E-01
Dibromobenzene, 1,4-	106-37-6								
Dibromochloromethane	124-48-1					V			
Dibromoethane, 1,2-	106-93-4	6.0E-04	I	9.0E-03	I	V		4.1E-03	9.4E+00
Dibromomethane (Methylene Bromide)	74-95-3					V			

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Dibutyl Phthalate	84-74-2								
Dibutyltin Compounds	NA								
Dicamba	1918-00-9								
Dichloro-2-butene, 1,4-	764-41-0	2.6E-03	H			V		9.4E-04	
Dichloroacetic Acid	79-43-6								
Dichlorobenzene, 1,2-	95-50-1			2.0E-01	H	V			2.1E+02
Dichlorobenzene, 1,4-	106-46-7	1.1E-05	C	8.0E-01	I	V		2.2E-01	8.3E+02
Dichlorobenzidine, 3,3'-	91-94-1								
Dichlorodifluoromethane	75-71-8			2.0E-01	H	V			2.1E+02
Dichloroethane, 1,1-	75-34-3	1.6E-06	C			V		1.5E+00	
Dichloroethane, 1,2-	107-06-2	2.6E-05	I	2.4E+00	A	V		9.4E-02	2.5E+03
Dichloroethylene, 1,1-	75-35-4			2.0E-01	I	V			2.1E+02
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0					V			
Dichloroethylene, 1,2-cis-	156-59-2					V			
Dichloroethylene, 1,2-trans-	156-60-5			6.0E-02	P	V			6.3E+01
Dichlorophenol, 2,4-	120-83-2								
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7								
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6								
Dichloropropane, 1,2-	78-87-5	1.0E-05	C	4.0E-03	I	V		2.4E-01	4.2E+00
Dichloropropane, 1,3-	142-28-9					V			
Dichloropropanol, 2,3-	616-23-9								
Dichloropropene, 1,3-	542-75-6	4.0E-06	I	2.0E-02	I	V		6.1E-01	2.1E+01
Dichlorvos	62-73-7			5.0E-04	I				5.2E-01
Dicyclopentadiene	77-73-6			7.0E-03	P	V			7.3E+00
Dieldrin	60-57-1	4.6E-03	I					5.3E-04	
Diesel Engine Exhaust	NA			5.0E-03	I				5.2E+00
Diethyl Phthalate	84-66-2								
Diethylene Glycol Monobutyl Ether	112-34-5			2.0E-02	P				2.1E+01
Diethylene Glycol Monoethyl Ether	111-90-0			3.0E-03	P				3.1E+00
Diethylformamide	617-84-5								
Diethylstilbestrol	56-53-1	1.0E-01	C					2.4E-05	
Difenzoquat	43222-48-6								
Diflubenzuron	35367-38-5								
Difluoroethane, 1,1-	75-37-6			4.0E+01	I	V			4.2E+04
Diisopropyl Ether	108-20-3			4.0E-01	P	V			4.2E+02
Diisopropyl Methylphosphonate	1445-75-6					V			
Dimethipin	55290-64-7								
Dimethoate	60-51-5								
Dimethoxybenzidine, 3,3'-	119-90-4								
Dimethyl methylphosphonate	756-79-6								
Dimethylaniline HCl, 2,4-	21436-96-4								
Dimethylaniline, 2,4-	95-68-1								
Dimethylaniline, N,N-	121-69-7					V			
Dimethylbenzidine, 3,3'-	119-93-7								
Dimethylformamide	68-12-2			3.0E-02	I				3.1E+01

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Dimethylphenol, 2,4-	105-67-9								
Dimethylphenol, 2,6-	576-26-1								
Dimethylphenol, 3,4-	95-65-8								
Dimethylterephthalate	120-61-6					V			
Dinitro-o-cresol, 4,6-	534-52-1								
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5								
Dinitrobenzene, 1,2-	528-29-0								
Dinitrobenzene, 1,3-	99-65-0								
Dinitrobenzene, 1,4-	100-25-4								
Dinitrophenol, 2,4-	51-28-5								
Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6								
Dinitrotoluene, 2,4-	121-14-2								
Dinitrotoluene, 2,6-	606-20-2								
Dinitrotoluene, 2-Amino-4,6-	35572-78-2								
Dinitrotoluene, 4-Amino-2,6-	19406-51-0								
Dinoseb	88-85-7								
Dioxane, 1,4-	123-91-1			3.6E+00	A				3.8E+03
Diphenamid	957-51-7								
Diphenyl Sulfone	127-63-9								
Diphenylamine	122-39-4								
Diphenylhydrazine, 1,2-	122-66-7	2.2E-04	I					1.1E-02	
Diquat	85-00-7								
Direct Black 38	1937-37-7	2.1E-03	C					1.2E-03	
Direct Blue 6	2602-46-2	2.1E-03	C					1.2E-03	
Direct Brown 95	16071-86-6	1.9E-03	C					1.3E-03	
Disulfoton	298-04-4								
Dithiane, 1,4-	505-29-3								
Diuron	330-54-1								
Dodine	2439-10-3								
Dioxins									
Hexachlorodibenzo-p-dioxin	34465-46-8	3.8E+00	W					6.4E-07	
Hexachlorodibenzo-p-dioxin, Mixture	NA	1.3E+00	I					1.9E-06	
HpCDD, 2,3,7,8-	37871-00-4	3.8E-01	W					6.4E-06	
OCDD	3268-87-9	1.1E-02	W					2.1E-04	
PeCDD, 2,3,7,8-	36088-22-9	3.8E+01	W					6.4E-08	
TCDD, 2,3,7,8-	1746-01-6	3.8E+01	C					6.4E-08	
Endosulfan	115-29-7								
Endothall	145-73-3								
Endrin	72-20-8								
Epichlorohydrin	106-89-8	1.2E-06	I	1.0E-03	I	V		2.0E+00	1.0E+00
Epoxybutane, 1,2-	106-88-7			2.0E-02	I	V			2.1E+01
EPTC	759-94-4					V			
Ethephon	16672-87-0								
Ethion	563-12-2								
Ethoxyethanol Acetate, 2-	111-15-9								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Ethoxyethanol, 2-	110-80-5			2.0E-01	I				2.1E+02
Ethyl Acetate	141-78-6					V			
Ethyl Acrylate	140-88-5					V			
Ethyl Chloride	75-00-3			1.0E+01	I	V			1.0E+04
Ethyl Ether	60-29-7					V			
Ethyl Methacrylate	97-63-2					V			
Ethyl-p-nitrophenyl Phosphonate	2104-64-5								
Ethylbenzene	100-41-4	2.5E-06	C	1.0E+00	I	V		9.7E-01	1.0E+03
Ethylene Cyanohydrin	109-78-4								
Ethylene Diamine	107-15-3								
Ethylene Glycol	107-21-1			4.0E-01	C				4.2E+02
Ethylene Glycol Monobutyl Ether	111-76-2			1.3E+01	I				1.4E+04
Ethylene Oxide	75-21-8	8.8E-05	C			V		2.8E-02	
Ethylene Thiourea	96-45-7	1.3E-05	C					1.9E-01	
Ethylphthalyl Ethyl Glycolate	84-72-0								
Express	101200-48-0								
Fenamiphos	22224-92-6								
Fenpropathrin	39515-41-8								
Fluometuron	2164-17-2								
Fluorine (Soluble Fluoride)	7782-41-4								
Fluridone	59756-60-4								
Flurprimidol	56425-91-3								
Flutolanil	66332-96-5								
Fluvalinate	69409-94-5								
Folpet	133-07-3								
Fomesafen	72178-02-0								
Fonofos	944-22-9								
Formaldehyde	50-00-0	1.3E-05	I	9.8E-03	A			1.9E-01	1.0E+01
Formic Acid	64-18-6			3.0E-03	P				3.1E+00
Fosetyl-AL	39148-24-8								
Furazolidone	67-45-8								
Furfural	98-01-1			5.0E-02	H				5.2E+01
Furium	531-82-8	4.3E-04	C					5.7E-03	
Furmecyclox	60568-05-0								
Furans									
Furan	110-00-9					V			
HpCDF, 2,3,7,8-	38998-75-3	3.8E-01	W					6.4E-06	
HxCDF, 2,3,7,8-	55684-94-1	3.8E+00	W					6.4E-07	
OCDF	39001-02-0	1.1E-02	W					2.1E-04	
PeCDF, 1,2,3,7,8-	57117-41-6	1.1E+00	W					2.1E-06	
PeCDF, 2,3,4,7,8-	57117-31-4	1.1E+01	W					2.1E-07	
TCDF, 2,3,7,8-	51207-31-9	3.8E+00	W					6.4E-07	
Glufosinate, Ammonium	77182-82-2								
Glycidyl	765-34-4			1.0E-03	H				1.0E+00
Glyphosate	1071-83-6								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Goal	42874-03-3								
Haloxyfop, Methyl	69806-40-2								
Harmony	79277-27-3								
Heptachlor	76-44-8	1.3E-03	I					1.9E-03	
Heptachlor Epoxide	1024-57-3	2.6E-03	I					9.4E-04	
Hexabromobenzene	87-82-1								
Hexachlorobenzene	118-74-1	4.6E-04	I					5.3E-03	
Hexachlorobutadiene	87-68-3	2.2E-05	I					1.1E-01	
Hexachlorocyclohexane, Alpha-	319-84-6	1.8E-03	I					1.4E-03	
Hexachlorocyclohexane, Beta-	319-85-7	5.3E-04	I					4.6E-03	
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	3.1E-04	C					7.8E-03	
Hexachlorocyclohexane, Technical	608-73-1	5.1E-04	I					4.8E-03	
Hexachlorocyclopentadiene	77-47-4			2.0E-04	I				2.1E-01
Hexachloroethane	67-72-1	4.0E-06	I					6.1E-01	
Hexachlorophene	70-30-4								
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4								
Hexamethylene Diisocyanate, 1,6-	822-06-0			1.0E-05	I	V			1.0E-02
Hexane, N-	110-54-3			7.0E-01	I	V			7.3E+02
Hexanedioic Acid	124-04-9								
Hexazinone	51235-04-2								
Hydrazine	302-01-2	4.9E-03	I	2.0E-04	C			5.0E-04	2.1E-01
Hydrazine Sulfate	10034-93-2	4.9E-03	I					5.0E-04	
Hydrogen Chloride	7647-01-0			2.0E-02	I				2.1E+01
Hydrogen Sulfide	7783-06-4			2.0E-03	I				2.1E+00
Hydroquinone	123-31-9								
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2								
Imazalil	35554-44-0								
Imazaquin	81335-37-7								
Iprodione	36734-19-7								
Iron	7439-89-6								
Isobutyl Alcohol	78-83-1					V			
Isophorone	78-59-1			2.0E+00	C				2.1E+03
Isopropalin	33820-53-0								
Isopropyl Methyl Phosphonic Acid	1832-54-8								
Isoxaben	82558-50-7								
Kerb	23950-58-5								
Lactofen	77501-63-4								
Linuron	330-55-2								
Lithium	7439-93-2								
Lithium Perchlorate	7791-03-9								
Londax	83055-99-6								
Lead Compounds									
Lead and Compounds	7439-92-1								
Tetraethyl Lead	78-00-2								
Malathion	121-75-5								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Maleic Anhydride	108-31-6			7.0E-04	C				7.3E-01
Maleic Hydrazide	123-33-1								
Malononitrile	109-77-3								
Mancozeb	8018-01-7								
Maneb	12427-38-2								
Manganese (Water)	7439-96-5			5.0E-05	I				5.2E-02
MCPA	94-74-6								
MCPB	94-81-5								
MCPP	93-65-2								
Mephosfolan	950-10-7								
Mepiquat Chloride	24307-26-4								
Merphos	150-50-5								
Merphos Oxide	78-48-8								
Metalaxyl	57837-19-1								
Methacrylonitrile	126-98-7			7.0E-04	H	V			7.3E-01
Methamidophos	10265-92-6								
Methanol	67-56-1			4.0E+00	C				4.2E+03
Methidathion	950-37-8								
Methomyl	16752-77-5								
Methoxy-5-nitroaniline, 2-	99-59-2	1.4E-05	C					1.7E-01	
Methoxychlor	72-43-5								
Methoxyethanol Acetate, 2-	110-49-6								
Methoxyethanol, 2-	109-86-4			2.0E-02	I				2.1E+01
Methyl Acetate	79-20-9					V			
Methyl Acrylate	96-33-3					V			
Methyl Ethyl Ketone (2-Butanone)	78-93-3			5.0E+00	I	V			5.2E+03
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1			3.0E+00	I	V			3.1E+03
Methyl Methacrylate	80-62-6			7.0E-01	I	V			7.3E+02
Methyl Parathion	298-00-0								
Methyl Styrene (Mixed Isomers)	25013-15-4			4.0E-02	H	V			4.2E+01
Methyl tert-Butyl Ether (MTBE)	1634-04-4	2.6E-07	C	3.0E+00	I	V		9.4E+00	3.1E+03
Methyl-5-Nitroaniline, 2-	99-55-8								
Methylaniline Hydrochloride, 2-	636-21-5	3.7E-05	C					6.6E-02	
Methylarsonic acid	124-58-3				A				
Methylene Chloride	75-09-2	4.7E-07	I	1.1E+00	A	V		5.2E+00	1.1E+03
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	4.3E-04	C				M	2.2E-03	
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1								
Methylenebisbenzenamine, 4,4'-	101-77-9	4.6E-04	C					5.3E-03	
Methylenediphenyl Diisocyanate	101-68-8			6.0E-04	I				6.3E-01
Methylstyrene, Alpha-	98-83-9					V			
Metolachlor	51218-45-2								
Metribuzin	21087-64-9								
Mirex	2385-85-5	5.1E-03	C					4.8E-04	
Molinate	2212-67-1								
Molybdenum	7439-98-7								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Monochloramine	10599-90-3								
Monomethylaniline	100-61-8								
Mercury Compounds									
Mercuric Chloride	7487-94-7								
Mercuric Sulfide	1344-48-5								
Mercury (elemental)	7439-97-6			3.0E-04	I	V			3.1E-01
Mercury, Inorganic Salts	NA								
Methyl Mercury	22967-92-6								
Phenylmercuric Acetate	62-38-4								
N,N'-Diphenyl-1,4-benzenediamine	74-31-7								
Naled	300-76-5								
Napropamide	15299-99-7								
Nickel Refinery Dust	NA	2.4E-04	I					1.0E-02	
Nickel Soluble Salts	7440-02-0								
Nickel Subsulfide	12035-72-2	4.8E-04	I					5.1E-03	
Nitrate	14797-55-8								
Nitrite	14797-65-0								
Nitroaniline, 3-	99-09-2			1.0E-03	P				1.0E+00
Nitroaniline, 4-	100-01-6			4.0E-03	P				4.2E+00
Nitrobenzene	98-95-3			2.0E-03	H	V			2.1E+00
Nitrofurantoin	67-20-9								
Nitrofurazone	59-87-0	3.7E-04	C					6.6E-03	
Nitroglycerin	55-63-0								
Nitroguanidine	556-88-7								
Nitromethane	75-52-5	9.0E-06	P	2.0E-02	P	V		2.7E-01	2.1E+01
Nitropropane, 2-	79-46-9	2.7E-03	H	2.0E-02	I	V		9.0E-04	2.1E+01
Nitroso-di-N-butylamine, N-	924-16-3	1.6E-03	I			V		1.5E-03	
Nitroso-di-N-propylamine, N-	621-64-7								
Nitroso-N-ethylurea, N-	759-73-9	7.7E-03	C				M	1.2E-04	
Nitrosodiethanolamine, N-	1116-54-7								
Nitrosodiethylamine, N-	55-18-5	4.3E-02	I				M	2.2E-05	
Nitrosodimethylamine, N-	62-75-9	1.4E-02	I				M	6.9E-05	
Nitrosodiphenylamine, N-	86-30-6								
Nitrosomethylethylamine, N-	10595-95-6								
Nitrosopyrrolidine, N-	930-55-2	6.1E-04	I					4.0E-03	
Nitrotoluene, m-	99-08-1								
Nitrotoluene, o-	88-72-2					V			
Nitrotoluene, p-	99-99-0								
Norflurazon	27314-13-2								
Nustar	85509-19-9								
Octabromodiphenyl Ether	32536-52-0								
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0								
Octamethylpyrophosphoramide	152-16-9								
Oryzalin	19044-88-3								
Oxadiazon	19666-30-9								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Oxamyl	23135-22-0								
Paclobutrazol	76738-62-0								
Paraquat Dichloride	1910-42-5								
Parathion	56-38-2								
Pebulate	1114-71-2								
Pendimethalin	40487-42-1								
Pentabromodiphenyl Ether	32534-81-9								
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9								
Pentachlorobenzene	608-93-5								
Pentachloroethane	76-01-7								
Pentachloronitrobenzene	82-68-8								
Pentachlorophenol	87-86-5								
Perchlorate and Perchlorate Salts	14797-73-0								
Permethrin	52645-53-1								
Phenmedipham	13684-63-4								
Phenol	108-95-2			2.0E-01	C				2.1E+02
Phenylenediamine, m-	108-45-2								
Phenylenediamine, o-	95-54-5								
Phenylenediamine, p-	106-50-3								
Phenylphenol, 2-	90-43-7								
Phorate	298-02-2								
Phosgene	75-44-5			3.0E-04	I	V			3.1E-01
Phosmet	732-11-6								
Phosphine	7803-51-2			3.0E-04	I				3.1E-01
Phosphoric Acid	7664-38-2			1.0E-02	I				1.0E+01
Phosphorus, White	7723-14-0								
Phthalic Acid, P-	100-21-0								
Phthalic Anhydride	85-44-9			2.0E-02	C				2.1E+01
Picloram	1918-02-1								
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3								
Pirimiphos, Methyl	29232-93-7								
Polybrominated Biphenyls	59536-65-1	8.6E-03	C					2.8E-04	
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9			6.0E-04	I				6.3E-01
Potassium Perchlorate	7778-74-7								
Prochloraz	67747-09-5								
Profluralin	26399-36-0								
Prometon	1610-18-0								
Prometryn	7287-19-6								
Propachlor	1918-16-7								
Propanil	709-98-8								
Propargite	2312-35-8								
Propargyl Alcohol	107-19-7								
Propazine	139-40-2								
Propham	122-42-9								
Propiconazole	60207-90-1								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Propylene Glycol	57-55-6								
Propylene Glycol Dinitrate	6423-43-4			2.7E-04	A	V			2.8E-01
Propylene Glycol Monoethyl Ether	1569-02-4								
Propylene Glycol Monomethyl Ether	107-98-2			2.0E+00	I				2.1E+03
Propylene Oxide	75-56-9	3.7E-06	I	3.0E-02	I	V		6.6E-01	3.1E+01
Pursuit	81335-77-5								
Pydrin	51630-58-1								
Pyridine	110-86-1					V			
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	12674-11-2	2.0E-05	I					1.2E-01	
Aroclor 1221	11104-28-2	5.7E-04	I			V		4.3E-03	
Aroclor 1232	11141-16-5	5.7E-04	I			V		4.3E-03	
Aroclor 1242	53469-21-9	5.7E-04	I					4.3E-03	
Aroclor 1248	12672-29-6	5.7E-04	I					4.3E-03	
Aroclor 1254	11097-69-1	5.7E-04	I					4.3E-03	
Aroclor 1260	11096-82-5	5.7E-04	I					4.3E-03	
Heptachlorobiphenyl, 2,2',3,3',4,4',5- (PCB 170)	35065-30-6	3.8E-03	W					6.4E-04	
Heptachlorobiphenyl, 2,2',3,4,4',5,5'- (PCB 180)	35065-29-3	3.8E-04	W					6.4E-03	
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.1E-03	W					2.1E-03	
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.1E-03	W					2.1E-03	
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.1E-03	W					2.1E-03	
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.1E-03	W					2.1E-03	
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	1.1E+00	W					2.1E-06	
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.1E-03	W					2.1E-03	
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.1E-03	W					2.1E-03	
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.1E-03	W					2.1E-03	
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.1E-03	W					2.1E-03	
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.8E+00	W					6.4E-07	
Polychlorinated Biphenyls (high risk)	1336-36-3	5.7E-04	C					4.3E-03	
Polychlorinated Biphenyls (low risk)	1336-36-3	1.0E-04	I					2.4E-02	
Polychlorinated Biphenyls (lowest risk)	1336-36-3								
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	3.8E-03	W					6.4E-04	
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	1.1E-02	W					2.1E-04	
Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	83-32-9					V			
Anthracene	120-12-7					V			
Benz[a]anthracene	56-55-3	1.1E-04	C				M	8.7E-03	
Benzo[a]pyrene	50-32-8	1.1E-03	C				M	8.7E-04	
Benzo[b]fluoranthene	205-99-2	1.1E-04	C				M	8.7E-03	
Benzo[k]fluoranthene	207-08-9	1.1E-04	C				M	8.7E-03	
Chrysene	218-01-9	1.1E-05	C				M	8.7E-02	
Dibenz[a,h]anthracene	53-70-3	1.2E-03	C				M	8.0E-04	
Fluoranthene	206-44-0								
Fluorene	86-73-7					V			
Indeno[1,2,3-cd]pyrene	193-39-5	1.1E-04	C				M	8.7E-03	

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Methylnaphthalene, 1-	90-12-0					V			
Methylnaphthalene, 2-	91-57-6					V			
Naphthalene	91-20-3	3.4E-05	C	3.0E-03	I	V		7.2E-02	3.1E+00
Pyrene	129-00-0					V			
Quinalphos	13593-03-8								
Quinoline	91-22-5								
Refractory Ceramic Fibers	NA			3.0E-02	A				3.1E+01
Resmethrin	10453-86-8								
Ronnel	299-84-3								
Rotenone	83-79-4								
Savey	78587-05-0								
Selenious Acid	7783-00-8								
Selenium	7782-49-2								
Selenourea	630-10-4								
Sethoxydim	74051-80-2								
Silver	7440-22-4								
Simazine	122-34-9								
Sodium Acifluorfen	62476-59-9								
Sodium Azide	26628-22-8								
Sodium Diethyldithiocarbamate	148-18-5								
Sodium Fluoroacetate	62-74-8								
Sodium Metavanadate	13718-26-8								
Sodium Perchlorate	7601-89-0								
Stirofos (Tetrachlorovinphos)	961-11-5								
Strontium, Stable	7440-24-6								
Strychnine	57-24-9								
Styrene	100-42-5			1.0E+00	I	V			1.0E+03
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9								
Systhane	88671-89-0								
TCMTB	21564-17-0								
Tebuthiuron	34014-18-1								
Temephos	3383-96-8								
Terbacil	5902-51-2								
Terbufos	13071-79-9								
Terbutryn	886-50-0								
Tetrachlorobenzene, 1,2,4,5-	95-94-3								
Tetrachloroethane, 1,1,1,2-	630-20-6	7.4E-06	I			V		3.3E-01	
Tetrachloroethane, 1,1,2,2-	79-34-5	5.8E-05	I			V		4.2E-02	
Tetrachloroethylene	127-18-4	5.9E-06	C	2.7E-01	A	V		4.1E-01	2.8E+02
Tetrachlorophenol, 2,3,4,6-	58-90-2								
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1								
Tetraethyl Dithiopyrophosphate	3689-24-5								
Tetrafluoroethane, 1,1,1,2-	811-97-2			8.0E+01	I	V			8.3E+04
Tetryl (Trinitrophenylmethylnitramine)	479-45-8								
Thallium (I) Nitrate	10102-45-1								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Thallium (Soluble Salts)	7440-28-0								
Thallium Acetate	563-68-8								
Thallium Carbonate	6533-73-9								
Thallium Chloride	7791-12-0								
Thallium Sulfate	7446-18-6								
Thiobencarb	28249-77-6								
Thiofanox	39196-18-4								
Thiophanate, Methyl	23564-05-8								
Thiram	137-26-8								
Tin	7440-31-5								
Toluene	108-88-3			5.0E+00	I	V			5.2E+03
Toluene diisocyanate mixture (TDI)	26471-62-5			7.0E-05	I	V			7.3E-02
Toluene-2,4-diamine	95-80-7	1.1E-03	C					2.2E-03	
Toluene-2,5-diamine	95-70-5								
Toluene-2,6-diamine	823-40-5								
Toluidine, o- (Methylaniline, 2-)	95-53-4	5.1E-05	C					4.8E-02	
Toluidine, p-	106-49-0								
Toxaphene	8001-35-2	3.2E-04	I					7.6E-03	
Tralomethrin	66841-25-6								
Triallate	2303-17-5								
Triasulfuron	82097-50-5								
Tribromobenzene, 1,2,4-	615-54-3								
Tributyl Phosphate	126-73-8								
Tributyltin Compounds	NA								
Tributyltin Oxide	56-35-9								
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1			3.0E+01	H	V			3.1E+04
Trichloroaniline HCl, 2,4,6-	33663-50-2								
Trichloroaniline, 2,4,6-	634-93-5								
Trichlorobenzene, 1,2,4-	120-82-1			4.0E-03	P	V			4.2E+00
Trichloroethane, 1,1,1-	71-55-6			5.0E+00	I	V			5.2E+03
Trichloroethane, 1,1,2-	79-00-5	1.6E-05	I			V		1.5E-01	
Trichloroethylene	79-01-6	2.0E-06	C			V		1.2E+00	
Trichlorofluoromethane	75-69-4			7.0E-01	H	V			7.3E+02
Trichlorophenol, 2,4,5-	95-95-4								
Trichlorophenol, 2,4,6-	88-06-2	3.1E-06	I					7.8E-01	
Trichlorophenoxy) Propionic Acid, 2(2,4,5-	93-72-1								
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5								
Trichloropropane, 1,1,2-	598-77-6					V			
Trichloropropane, 1,2,3-	96-18-4					V			
Trichloropropene, 1,2,3-	96-19-5			1.0E-03	P	V			1.0E+00
Tridiphane	58138-08-2								
Triethylamine	121-44-8			7.0E-03	I	V			7.3E+00
Trifluralin	1582-09-8								
Trimethyl Phosphate	512-56-1								
Trimethylbenzene, 1,2,4-	95-63-6			7.0E-03	P	V			7.3E+00

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
		IUR		RfCi				Inhalation	Inhalation
Analyte	CAS No.	$(ug/m^3)^{-1}$	key	(mg/m^3)	key	voc	mutagen	ug/m^3	ug/m^3
Trimethylbenzene, 1,3,5-	108-67-8			6.0E-03	P	V			6.3E+00
Trinitrobenzene, 1,3,5-	99-35-4								
Trinitrotoluene, 2,4,6-	118-96-7								
Triphenylphosphine Oxide	791-28-6								
Tris(2-chloroethyl)phosphate	115-96-8								
Tris(2-ethylhexyl)phosphate	78-42-2								
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1								
Tri-n-butyltin	*688-73-3*								
Uranium (Soluble Salts)	NA								
Vanadium Pentoxide	1314-62-1	8.3E-03	P	7.0E-06	P			2.9E-04	7.3E-03
Vanadium Sulfate	36907-42-3								
Vanadium and Compounds	NA								
Vanadium, Metallic	7440-62-2								
Vernolate	1929-77-7								
Vinclozolin	50471-44-8								
Vinyl Acetate	108-05-4			2.0E-01	I	V			2.1E+02
Vinyl Bromide	593-60-2	3.2E-05	H	3.0E-03	I	V		7.6E-02	3.1E+00
Vinyl Chloride	75-01-4	4.4E-06	I	1.0E-01	I	V	M	1.6E-01	1.0E+02
Warfarin	81-81-2								
Xylene, Mixture	1330-20-7			1.0E-01	I	V			1.0E+02
Xylene, P-	106-42-3			7.0E-01	C	V			7.3E+02
Xylene, m-	108-38-3			7.0E-01	C	V			7.3E+02
Xylene, o-	95-47-6			7.0E-01	C	V			7.3E+02
Zinc (Metallic)	7440-66-6								
Zinc Phosphide	1314-84-7								
Zineb	12122-67-7								