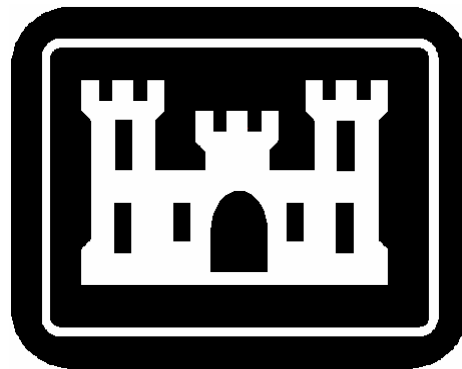


**Broad Creek Federal Navigation Channel
Sediment and Effluent Water Investigation**

**Middlesex County, Virginia
October 2007**



Prepared by
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1. Project Description

1.1 Description

The River and Harbor Act of 2 March 1945 authorized the Broad Creek Federal Navigation Project. Broad Creek is located in Middlesex County, Virginia and provides a channel approximately 4,100 feet long, 7 feet deep, and 100 feet wide from deep water in the Rappahannock River to Broad Creek. Broad Creek requires maintenance dredging approximately once every ten years resulting in approximately 50,000 cubic yards of predominately sandy dredged material removed from the channel and placed in existing eight acre upland confined disposal facility located at an area south of Route 33.



1.2 Background

The Corps of Engineers – Norfolk District is conducting this sediment and elutriate investigation at the request of the VA DEQ as part of the Virginia Water Protection Permit Program (VWPP). The VWPP includes the required 401-water quality certification required under the Clean Water Act (CWA). The sediment and elutriate investigation will evaluate the effluent pathway to determine if dredged material placement operations in the upland confined disposal facility (CDF) will act as a pathway for the migration of contaminants. The bulk sediment testing will be evaluated for the presence or absence of contaminants of concern (COC). The sediment data will be evaluated using conservative

screening protocols to determine the potential for impacts to the water column during dredged material placement operations. The elutriate data will be directly compared to numeric water quality criteria with consideration of initial dilution in an appropriate mixing zone to predict compliance with state standards.

The Broad Creek sediment and elutriate investigation has followed the framework established in the joint EPA and USACE manual "Evaluation of Dredged Material For Discharge in Waters of the U.S. – Testing Manual" (EPA, 1998) and the USACE manual "Evaluation of Dredged Material Proposed for Disposal at Island, Nearshore, or Upland Confined Disposal Facilities – Testing Manual" (USACE, 2003). The "Inland Testing Manual" (ITM), as it is commonly referred to, implements a tiered level approach for evaluating dredged material for disposal. Dredged material from the project shoals will be placed in existing CDFs. The tiered approach outlined in the ITM and UTM has been used to determine the suitability of dredged material for placement in the existing CDF and to ensure the appropriate process is followed under the Federal guidelines for evaluation of dredged material discharges.

The tiered (tiers I – IV) approach to testing is designed to aid in generating appropriate information (i.e. physical, chemical, toxicity, and bioaccumulation data) sufficient to make factual determinations, but not more information than is necessary. Generally, as testing progresses through the tiers the level of intensity and costs increase for the investigation. Tier I evaluations utilize readily available, existing information for making factual determinations about the need for contaminant evaluations, testing exclusions, identifying contaminants of concern in dredged material, and to aid in the over-all decision-making process. The EPA and USACE recommends tier I reevaluations every three years for navigation projects that require annual or episodic dredging (EPA, 1998). The tier I reevaluation should reassess any new and previously evaluated data, changes in sediment composition, advances in analytical methods, and any regulatory changes to determine if further investigation under tier II is warranted.

Tier II evaluations are concerned with sediment and water chemistry. The data generated in tier II allows for an evaluation of State water quality standard compliance. The tier II level evaluation for this project investigated the effluent water as a contaminant pathway which required the analysis of bulk sediment chemistry, site water, and elutriates for the specific COC. Analytical results from the modified elutriate analyses were utilized to evaluate effluent water quality against applicable water quality standards and state permit limits.

The list of target analytes required by the VDEQ for Broad Creek includes the following: copper, zinc, and PCBs. The USACE will also include total organic carbon (TOC), particle-size, water content, specific gravity, and total suspended solids (elutriate only) for analysis to provide site specific data for further predictive modeling and screening evaluations if warranted. The specific target analytes can be found in Table 3.

1.3 Project Scope and Objectives

This sediment investigation was conducted within the Broad Creek Federal Navigation Channel in Middlesex County, Virginia. The dredged materials analyzed were maintenance sediments that had shoaled within the channel. Bulk sediment analysis did not include new-work material. This investigation was conducted to analyze the potential for a contaminant migration pathway from dredged material discharges from the associated confined disposal facility (CDF). Specifically, the investigation utilized predictive modeling to evaluate water column effects from effluent discharge to surface waters from dredged material placement operations from the CDF.

The work performed during this investigation involved the collection of sediment samples and site water. Additionally, the investigation involved the analysis of site water, bulk sediment chemistry for specific contaminants of concern (COC), preparation of elutriate samples, and analysis of effluent elutriate contaminant concentrations in the elutriate unfiltered sample (totals) and the elutriate filtered sample (dissolved fraction). Elutriate results were compared to applicable water quality standards. The stated objectives of the investigation were to:

- Collect sediments in the area to be dredged.
- Collect samples representative of the bulk material to be dredged.
- Test bulk sediments and site water in accordance with the USEPA/USACE, "Inland Testing Manual".
- Prepare and test effluent elutriate in accordance with the "Upland Testing Manual" (USACE, 2003).
- Test bulk sediments, site water, and effluent elutriate for the copper, zinc, PCB, and physical characteristics of the sediment from the Broad Creek channel (refer to Table 2).
- Compare analytical results of the effluent elutriate against applicable water quality standards with consideration of dilution in a mixing zone if needed.

1.4 Project Organization and Responsibilities

Project Manager: The Project Manager for this investigation is Mr. Doug Stamper, P.E. of the Operations Branch of the Technical Services Division of the USACE – Norfolk District.

Project Engineer: The Project Engineer for this investigation is Mr. Robert Pruhs, E.I.T. of the Operations Branch of the Technical Services Division of the USACE – Norfolk District. The Project Engineer is responsible for developing the Sampling and Analysis Plan (SAP) and data evaluation.

Quality Assurance Officer: The Quality Assurance Officer (QAO) for this investigation is Mr. Chris Turner of the Operations Branch of the Technical Services Division of the USACE – Norfolk District. The Quality Assurance Officer is responsible for implementing the SAP.

Sampling Personnel: Norfolk District personnel from the GeoEnvironmental Section and Technical Support Section performed sampling. The Norfolk District Corps provided the equipment and materials necessary for all sample collection and processing.

Primary Contract Laboratory: The contract laboratory for this investigation was Accutest Laboratories. Accutest Laboratories is a certified contractor to the U.S. Army Corps of Engineers, Norfolk District and is National Environmental Laboratory Accreditation Program (NELAP) accredited, equipped, and capable of performing the proposed analytical work while meeting data quality objectives.

2. Field Methodology

2.1 General Sampling Protocol

Sediment and site water samples were collected at the Broad Creek Federal Navigation Channel located in the Rappahannock River on October 3, 2007. A total of five (5) discrete locations were sampled. Sampling locations were located on shoaled areas previously identified by bathymetric survey within the Federal navigation channel. Sampling locations were selected to be representative of the project dredged material. The sampling methodologies utilized were consistent with EPA and USACE guidance for evaluating dredged materials under Section 404 of the CWA.

2.1.1 Water Sampling

Water samples were collected from a single station located within the project channel. Water was collected from approximately one meter above the channel bottom utilizing a submersible Grundfos pump utilizing 1/8" polyethylene tubing. Approximately 30 gallons of site water was collected for both chemical analysis and elutriate preparation.

2.1.2 Sediment Sampling

2.1.2.1 Sampling Equipment

Sediment sampling was performed from a 17-foot Jones Brothers skiff owned and operated by the U.S. Army Corps of Engineers. Sediment samples were collected using a stainless steel tube auger. Sediment collected from each discrete location was placed in its own dedicated polyethylene-lined 5-gallon bucket.

2.1.2.2 Sample Locations

The predetermined sample locations were located by surveyors from the Norfolk District's Navigation & Survey Section. Sample locations were located and buoys were placed to mark sample locations. The sample location was verified by Norfolk District surveyors and water depths were verified to ensure the presence of shoaled material prior to sample collection (Refer to Figure 1 for sample locations).

2.1.2.3 Sample Collection and Processing

Cores were advanced manually by turning the tee-handle of the tube auger. Multiple cores were pulled at each sample location to provide adequate sample volume for sediment and elutriate analysis. All sediment samples were collected as discrete samples for each proposed sample location. Collected sediment was placed in individual five gallon buckets and homogenized and then transferred to the appropriate labeled sample containers, individually wrapped in bubble wrap, taped, and then placed on ice in coolers and stored at a maximum temperature of 4 degrees Celsius. Sediments samples were processed and packaged for chemical, geotechnical, and elutriate analyses. Chain-of-custody forms were completed and sealed in the coolers prior to transport. Samples were transported overnight by Federal Express to Accutest Laboratory, in Dayton, New Jersey. All chain-of-custody protocols were followed and samples arrived at the laboratory in tact and at proper storage temperature.

2.1.3 Sample Identification Protocol

All samples collected during the field investigation were identified and labeled with a site-specific sample identification code. The site-specific sample code was based on the following system:

Sample ID:
07-XX-YY-#

2007- Fiscal Year

XX- BC - Project Designation, where BC = Broad Creek

YY- Sample Type: Two letter code, where SS = Sediment Sample, SW = Site Water, EL = Elutriate Sample, FD = Field Duplicate, EB = Equipment Blank, and TB = Trip Blank.

- Sample Number: Sample number will be designated 1, 2, and 3 for each sediment sample and elutriate sample location from each discrete site.

Example sample ID for discrete sediment sample collected at location 1 at the Broad Creek project, 07-BC- SS-1. Example sample ID for site water sample collected from Broad Creek project, 07-BC -SW-1. Example sample ID for

discrete elutriate sample collected at location 1 at the Broad Creek project, 07-BC- EL-1.

3 Laboratory Results

3.1 General Description

The following sections provide both descriptive summaries and laboratory result summaries of the chemical and geotechnical analyses of sediment and elutriate testing from the Broad Creek Federal Navigation Project.

3.2 Laboratory Results

The following summaries of laboratory results provide a description of the contaminant concentrations in the sediment and elutriate samples and the general distribution of the contaminants throughout the Broad Creek Federal Navigation Project.

3.2.1 Sediment Results

3.2.1.1 Metals

The metals copper and zinc were detected throughout the project sediments at low concentrations generally well below published sediment screening guidelines. The concentration range for detected metals in the sediment samples were as follows:

- Copper was detected at all of the five sample locations. Concentrations ranged from 1.9 mg/kg to 14.2 mg/kg. The average of the concentrations was 7.0 mg/kg.
- Zinc was detected at all five sample locations. The concentrations ranged from 4.5 mg/kg to 27.3 mg/kg. The average of the concentrations was 13.3 mg/kg.

The laboratory affixed a qualifier to several of the metals results indicating that these analytes were detected above the method detection limit but below the reporting limit (refer to Table 3 for summary of sediment results).

3.2.1.2 Total PCBs

Total PCBs were determined by the summation of congeners following Federal guidance in the EPA/USACE "Inland Testing Manual" referencing the NOAA, 1989, Status and Trends. PCB congeners were not detected at any sediment sampling locations.

3.2.1.3 General Chemistry

Total organic carbon (TOC) concentrations were determined at each sample location. The TOC concentrations ranged from 1,470 mg/kg (0.15%) to 5,830 mg/kg (0.58%). The average of the concentrations was 2,694 mg/kg (0.27%). The percentage of solids in the samples ranged from 26.2% to 36.1%.

3.2.1.4 Geotechnical

Standard sieve and hydrometer analyses were performed to determine grain size distribution at each sample location at Broad Creek. The grain size analyses indicate that the sediments are predominately sand with four of the five sample locations containing at least 90% sand and gravel and one of the five sample locations containing at least 58% sand and gravel. Sample location SS-5 exhibited the highest percentage of fine grained sediments containing 58% sand and 42% silt and clays.

3.2.2 Elutriate Results

3.2.2.1 Metals

Analyses for the metals copper and zinc were performed in both unfiltered (total concentration) and filtered (dissolved concentration) elutriate samples. Zinc was detected in the unfiltered elutriate samples. The concentration range for zinc in the unfiltered elutriate samples were as follows:

- Copper was not detected in the five unfiltered elutriate samples.
- Zinc was detected in three of the five unfiltered elutriate samples. The concentrations ranged from 4.1 ug/l to 14.6 ug/l. The average of the concentrations was 7.6 ug/l.

The laboratory affixed a qualifier to each zinc result indicating that this analyte was positively detected above the method detection limit but was below the reporting limit (refer to Table 5 for the summary of unfiltered elutriate results).

Copper was detected in a filtered elutriate sample (Refer to Table 5 for the summary of the filtered elutriate results). The results of the filtered elutriate samples were as follows:

- Copper was detected in one of the five filtered elutriate samples. The concentration was 24.5 ug/l.
- Zinc was not detected in the filtered elutriate samples.

3.2.2.2 Total PCBs

Total PCB was determined by the summation of congeners following Federal guidance in the EPA/USACE "Inland Testing Manual" referencing NOAA, 1998, Status and Trends.

- PCB Congeners were not detected in any unfiltered or filtered elutriate samples at Broad Creek project site.

One copper filtered elutriate result was reported above reporting limit while copper in the unfiltered elutriate was not detected. This may be caused by unfiltered and filtered elutriate being generated from a separate volume of elutriate sample therefore the results reflect some variability within the homogenized sample. Additionally, the results may reflect an artifact from the filtration process as a result of suspended solid in the elutriate supernatant.

3.2.3 Site Water Results

Laboratory results suggest that there are no detectable levels of PCB congeners or the metals copper and zinc in the surface water at the Broad Creek project site. General chemistry results for total organic carbon were 3.5 mg/l and total suspended solids was 3.5 mg/l.

4 Discussion

4.1 Overview - Screening Assessments Under Section 404

The USACE conducts Civil Works dredging and dredged material discharge activities in accordance with Section 404 of the Clean Water Act (CWA). Section 404 further requires that discharge sites be specified through the application of the Section 404(b)(1) Guidelines developed by EPA in conjunction with the USACE. Section 404 requires that the guidelines be based upon criteria comparable to the criteria applicable to the territorial seas, contiguous zone, and the ocean". Additionally, Section 401 of the CWA requires that discharges of dredged material into waters of the United States be certified as complying with applicable State water quality standards. The joint EPA and USACE ITM and UTM testing manuals provide procedures applicable to determining the potential for contaminant-related environmental impacts associated with the discharge of dredged material. The ITM and UTM testing procedures are intended to provide sufficient data to make factual determinations under Section 404 of the CWA.

4.2 Tiered Assessment (Testing)

A tiered approach to testing (I-IV) is used by the EPA and USACE to evaluate the suitability of dredged material for various placement options. The following is a brief description of the tiers in the ITM:

- a. The initial tier (Tier I) uses readily available, existing information (including all previous testing).
- b. Tier II is concerned solely with sediment and water chemistry.
- c. Tier III is concerned with well defined nationally accepted toxicity and bioaccumulation testing procedures.
- d. Tier IV allows for case-specific laboratory and field-testing, and is intended for use in unusual circumstances.

Because the procedures in the ITM and UTM are arranged in a series of tiers, or levels of intensity (and cost) of investigation, the tiered testing results in environmental protection in the context of more efficient completion of necessary evaluations and reduced costs, especially to low-risk operations. It is necessary to proceed through the tiers only until information sufficient to make factual determinations has been obtained.

4.3 Tier I – Project Assessment

The first step in the evaluation process is the determination of the need for contaminant evaluations based on the “reason to believe” contaminants of concern (COC) may be present in the dredged material. The decision not to test is based on available information that provides a reasonable assurance that the proposed discharge of dredged material is not a carrier of contaminants. The reason to believe no testing is required is based on the type of dredged material and its potential to be contaminated. No further evaluation is needed if any one of the following criteria is met:

- a. The dredged material is excavated from a site far removed from existing and historical sources of contaminants, so as to provide a reasonable assurance that the dredged material does not contain them.
- b. The dredged material is composed predominantly of sand, gravel, and/or rock.
- c. The dredged material is composed of previously undisturbed geological materials that have not been exposed to modern sources of pollution.

Tier I evaluations utilize readily available, existing information for making factual determinations about testing exclusions, identifying contaminants of concern in dredged material, and to aid in the over-all decision making process.

In the Tier I decision sequence; the first possibility is that more information is required to make a factual determination.

4.3.1 Contaminants of Concern (COC)

The COC for this sampling event were provided by the VDEQ. A sediment sampling point in the upstream reaches of Broad Creek indicated the presence of copper and zinc at or above the Effects Range – Median (ER-M) screening guideline published as part of the National Sediment Quality Survey. Additionally, VDEQ has found accumulation of PCB's in fish tissues in the Rappahannock River system for which a source has not been identified.

4.3.2 Pathways of Concern

The effluent pathway will be the focus of this investigation to determine if it will meet requirements for Section 401 State Water Quality Certification and to ensure compliance with Section 404 requirements. The effluent pathway involves movement of large masses of water for hydraulically filled sites. Thus, the effluent pathway has the potential to act as a pathway for the migration of contaminants, if present, as a result of dredged material placement operations.

4.3.3 Tier I Decisions

The rationale for decision-making presented in the ITM for the Tier I evaluation will be either:

- a. Existing information does not provide a sufficient basis for making factual determinations. In this case, further evaluation in higher tiers is appropriate.
- b. Existing information provides a sufficient basis for making factual determinations. In this case, one of the following decisions is reached:
 - a. The material meets the exclusion criteria.
 - b. The material does not meet exclusion criteria but information concerning the potential impact of the material is sufficient to make factual determinations.

4.3.4 Tier I Conclusions for Broad Creek Federal Navigation Project

Historically, the Broad Creek channel sediments has been comprised of predominantly >90% sands. Additionally, the project location is far removed from industrial sources of anthropogenic contamination. Generally, the project conditions would meet exclusion criteria. However, the VDEQ required testing of the project sediments to demonstrate compliance with State requirements when dredged. Therefore, the Tier I decision was by-passed and the investigation moved directly to Tier II evaluations.

4.4 Tier II – Sediment and Water Chemistry

Tier II utilizes sediment and water chemistry as well as conservative screening evaluations and elutriate testing procedures to evaluate the potential for a water column impact and compliance with 40 CFR Section 230.10(b)(1).

4.4.1 Screen Relative to Water Quality Standard (WQS)

This conservative screen is based on the assumption that all of the contaminants in the dredged material are completely released to the water column during the discharge operation. This screen is conservative because, in virtually all cases, most of the contaminants remain within the dredged material. If the screen predicts that all concentrations of all the COC after consideration of mixing are less than the applicable WQS then the dredged material complies with WQS. If the screen predicts that the WQS will be exceeded, the elutriate analysis should be utilized.

Application of the conservative screen relative to WQS at Broad Creek indicates the assumption that a complete release of all COC to the water column would result in WQS being exceeded after consideration of mixing. Therefore the elutriate analysis approach should be employed to make a factual determination of compliance with WQS.

4.4.2 Elutriate Analysis Relative to WQS

The modified elutriate test conservatively predicts effluent water quality based on laboratory elutriate simulation of the dredged material discharge. The results reflect the predicted concentrations of COC in the effluent discharge from the CDF (i.e. over the weir structure). The appropriate unfiltered or filtered MET results should be compared directly to available numeric water quality standards considering dilution in a mixing zone in the immediate vicinity of the CDF discharge. Water quality standards must be met at the boundary of a state approved mixing zone. Comparisons of predicted concentrations from MET results to water quality standards should consider background concentrations in the receiving water. If the background concentrations exceed the standards then the dredged material discharge will not comply with water quality standards regardless of dilution in a mixing zone.

The MET results indicate that the proposed dredged material discharge at Broad Creek will comply with applicable WQS for the COC analyzed. One copper filtered elutriate result (07-BC-EL-2(F), 24.5 ug/l) exceeded the “Aquatic Life, Saltwater Chronic” criteria (6.0 ug/l) at the end-of-pipe. The filtered copper elutriate result would comply with the numeric standard with a 3:1 dilution in a mixing zone. Copper was not detected in the remaining filtered elutriate samples and comply with WQS at the end of pipe. The filtered elutriate was evaluated against WQS for metals since it represents the dissolved fraction of the

contaminant. The dissolved fraction is fraction of the contaminant that is considered bio-available to aquatic life and exposure to concentrations above the WQS may result in acute impacts.

4.4.3 Tier II Decisions

One of two possible conclusions can be reached regarding the potential water column impact of the proposed dredged material discharge:

- a. The available WQS requirements are met.
- b. Concentrations of one or more of the dissolved COC, after allowance for mixing, exceed available WQS beyond the boundaries of the mixing zone. In this case, the proposed discharge of dredged material does not comply with WQS.

4.4.4 Tier II Conclusions for Broad Creek Channel

Based on the evaluation of elutriate analysis relative to WQS; all available WQS requirements will be met for the proposed Broad Creek Federal Navigation Channel dredged material discharge. Based on the evaluation of dredged material testing results the Broad Creek Channel project dredged material discharge will comply with 404(b)(1) requirements and meets requirements for state Section 401 certification.

5 References

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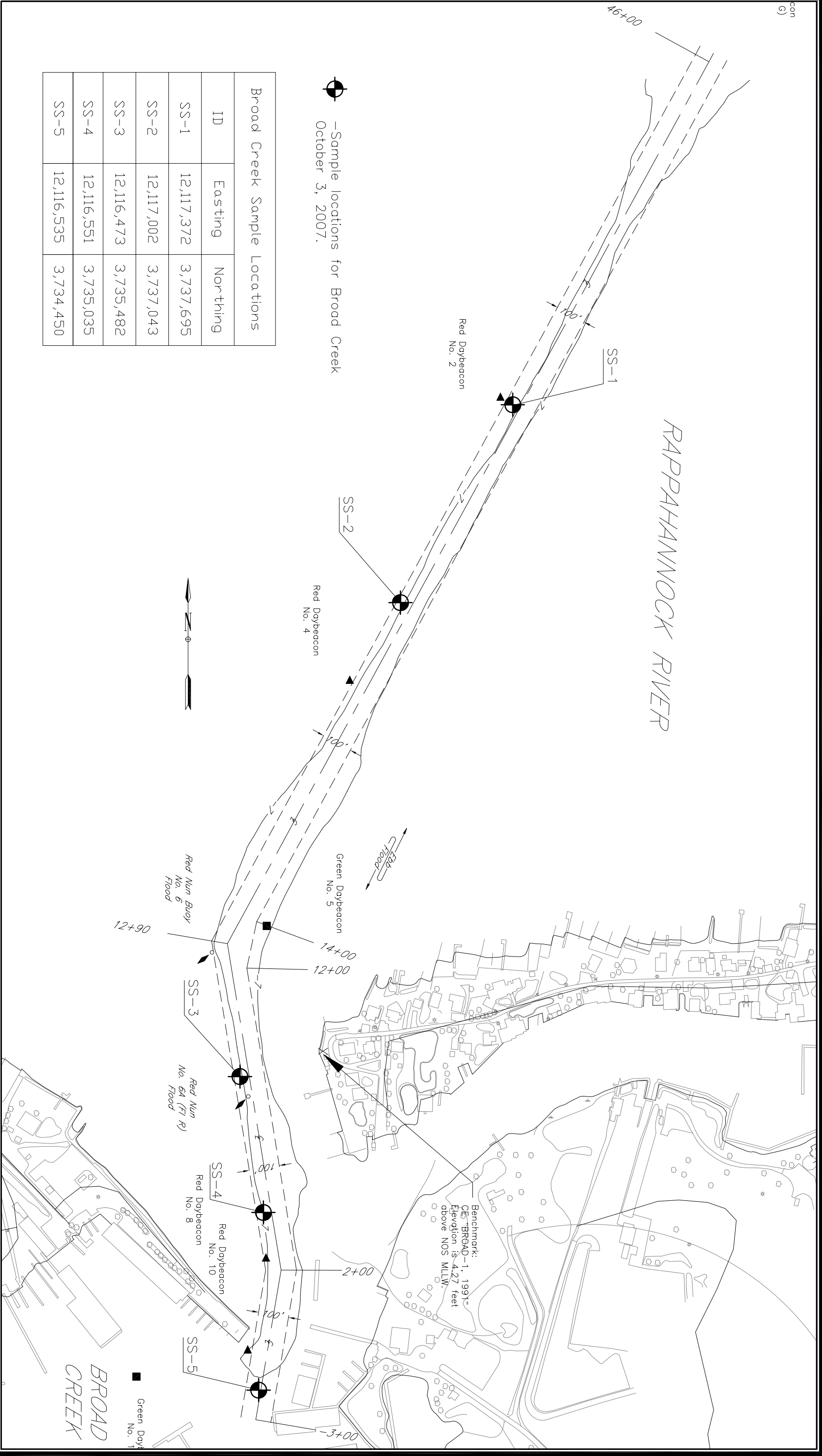
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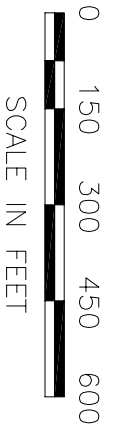
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Adjacent Property Owners: NA



Plan View
Broad Creek
Federal Navigation
Project

Broad Creek Federal Navigation Project
Middlesex County, Virginia
Sediment Sampling Locations
September 2007

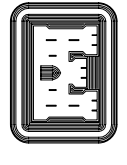


TABLE 1. SEDIMENT RESULTS

Target Compound	CAS Number	Units	MDL	RL	07-BC-SS-1	07-BC-SS-FD	07-BC-SS-2	07-BC-SS-3	07-BC-SS-4	07-BC-SS-5
Metals (SW-846 Method: 6010B)										
Copper	7440-50-8	mg/kg	0.3600	3.8	1.9 B	2.0 B	2.6 B	6.7	9.7	14.2
Zinc	7440-66-6	mg/kg	0.6000	3.0	4.5	4.8	6.8	11.4	16.5	27.3
Polychlorinated Biphenyls (SW-846 Method: 8082)										
2,4'-Dichlorobiphenyl-BZ8	34883-43-7	ug/kg	1.0500	2.2	ND	ND	ND	ND	ND	ND
2,2',5'-Trichlorobiphenyl-BZ18	37680-65-2	ug/kg	0.9630	2.4	ND	ND	ND	ND	ND	ND
2,4,4'-Trichlorobiphenyl-BZ28	7012-37-5	ug/kg	0.7030	1.8	ND	ND	ND	ND	ND	ND
2,2',3,5'-Tetrachlorobiphenyl-BZ44	41464-39-5	ug/kg	0.7150	2.7	ND	ND	ND	ND	ND	ND
2,2',5,5'-Tetrachlorobiphenyl-BZ52	35693-99-3	ug/kg	0.7750	1.6	ND	ND	ND	ND	ND	ND
2,3',4,4'-Tetrachlorobiphenyl-BZ66	32598-10-0	ug/kg	0.7110	1.6	ND	ND	ND	ND	ND	ND
3,3',4,4'-Tetrachlorobiphenyl-BZ77	32598-13-3	ug/kg	1.9000	1.6	ND	ND	ND	ND	ND	ND
2,2',4,5,5'-Pentachlorobiphenyl-BZ101	37680-73-2	ug/kg	0.8610	1.6	ND	ND	ND	ND	ND	ND
2,3,3',4,4'-Pentachlorobiphenyl-BZ105	32598-14-4	ug/kg	1.0100	1.6	ND	ND	ND	ND	ND	ND
2,3',4,4',5-Pentachlorobiphenyl-BZ118	31508-00-6	ug/kg	0.4950	1.6	ND	ND	ND	ND	ND	ND
3,3',4,4',5-Pentachlorobiphenyl-BZ126	57465-28-8	ug/kg	1.0100	2.4	ND	ND	ND	ND	ND	ND
2',3,3',4,4'-Hexachlorobiphenyl-BZ128	38380-07-3	ug/kg	0.4950	1.6	ND	ND	ND	ND	ND	ND
2,2',3,4,4',5'-Hexachlorobiphenyl-BZ138	35065-28-2	ug/kg	0.6020	1.6	ND	ND	ND	ND	ND	ND
2,2',4,4',5,5'-Hexachlorobiphenyl-BZ153	35065-27-1	ug/kg	0.5940	1.6	ND	ND	ND	ND	ND	ND
3,3',4,4',5,5'-Hexachlorobiphenyl-BZ169	32774-16-6	ug/kg	0.6620	1.6	ND	ND	ND	ND	ND	ND
2,2',3,3',4,4',5-Heptachlorobiphenyl-BZ170	35065-30-6	ug/kg	0.5790	3.2	ND	ND	ND	ND	ND	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl-BZ180	35065-29-3	ug/kg	0.5910	2.3	ND	ND	ND	ND	ND	ND
2,2',3,4',5,5',6-Heptachlorobiphenyl-BZ187	52663-68-0	ug/kg	0.4370	1.6	ND	ND	ND	ND	ND	ND
Total PCBs	1336-36-3	ug/kg								
Total Organic Carbon (Method: Lloyd Khan)		mg/kg		140	1760	1730	1470	2180	2230	5830
Water Content (ASTM D2216)					28.8	27.3	26.3	26.2	29.7	36.1
Particle Size (ASTM D422)										
%Gravel					0	0	0	0	0	0
%Sand					95.7	78	93.8	92.6	90.6	58.1
%Silt, Clay, Colloids					4.3	22	6.2	7.4	9.4	41.9

RL - Reporting Limit

MDL - Method Detection Limit

Note: Total PCBs to be determined by summation of the listed congeners following the approach in the ITM, (EPA, 1998).

Data Qualifier

U = Indicates a result < MDL

B + Indicates a result >= MDL but < RL

TABLE 2. SITE WATER AND ELUTRIATE RESULTS

Target Compound	CAS Number	Units	VA WATER QUALITY STANDARDS			MDL	RL	07-BC-SW	07-BC-EL-1	07-BC-EL-1(F)	07-BC-EL-FD	07-BC-EL-FD(F)	07-BC-EL-2	07-BC-EL-2(F)
			VA Aquatic Life Saltwater Acute	VA Aquatic Life Saltwater Chronic	All Other Surface Waters									
Metals (SW-846 Method: 6010B)														
Copper	7440-50-8	ug/l	9.3	6		2.70	5.0	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	24.5
Zinc	7440-66-6	ug/l	90	81	69,000	3.40	20.0	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	4.1 B	3.4 U
Polychlorinated Biphenyls - Congeners (SW-846 Method: 8082)														
2,4'-Dichlorobiphenyl-BZ8	34883-43-7	ug/l				0.0042	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',5-Trichlorobiphenyl-BZ18	37680-65-2	ug/l				0.0061	1.00	ND	ND	ND	ND	ND	ND	ND
2,4,4'-Trichlorobiphenyl-BZ28	7012-37-5	ug/l				0.0076	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',3,5'-Tetrachlorobiphenyl-BZ44	41464-39-5	ug/l				0.0060	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',5,5'-Tetrachlorobiphenyl-BZ52	35693-99-3	ug/l				0.0082	1.00	ND	ND	ND	ND	ND	ND	ND
2,3',4,4'-Tetrachlorobiphenyl-BZ66	32598-10-0	ug/l				0.0073	1.00	ND	ND	ND	ND	ND	ND	ND
3,3',4,4'-Tetrachlorobiphenyl-BZ77	32598-13-3	ug/l				0.0052	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',4,5,5'-Pentachlorobiphenyl-BZ101	37680-73-2	ug/l				0.0041	1.00	ND	ND	ND	ND	ND	ND	ND
2,3,3',4,4'-Pentachlorobiphenyl-BZ105	32598-14-4	ug/l				0.0206	1.00	ND	ND	ND	ND	ND	ND	ND
2,3',4,4',5-Pentachlorobiphenyl-BZ118	31508-00-6	ug/l				0.0031	1.00	ND	ND	ND	ND	ND	ND	ND
3,3',4,4',5-Pentachlorobiphenyl-BZ126	57465-28-8	ug/l				0.0055	1.00	ND	ND	ND	ND	ND	ND	ND
2',3,3',4,4'-Hexachlorobiphenyl-BZ128	38380-07-3	ug/l				0.0096	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',3,4,4',5'-Hexachlorobiphenyl-BZ138	35065-28-2	ug/l				0.0046	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',4,4',5,5'-Hexachlorobiphenyl-BZ153	35065-27-1	ug/l				0.0077	1.00	ND	ND	ND	ND	ND	ND	ND
3,3',4,4',5,5'-Hexachlorobiphenyl-BZ169	32774-16-6	ug/l				0.0047	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',3,3',4,4',5-Heptachlorobiphenyl-BZ170	35065-30-6	ug/l				0.0046	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl-BZ180	35065-29-3	ug/l				0.0066	1.00	ND	ND	ND	ND	ND	ND	ND
2,2',3,4',5,5',6-Heptachlorobiphenyl-BZ187	52663-68-0	ug/l				0.0075	1.00	ND	ND	ND	ND	ND	ND	ND
Total PCBs	1336-36-3	ug/l			0.0017									
Organic Carbon (SW-846 9060)														
Total Organic Carbon		mg/l						3.5	4.0		3.7		3.4	
Total Suspended Solids (EPA 160.2)														
		mg/l						4.0	10.0		8.0		10.0	

RL - Reporting Limit

Data Qualifier

U = Indicates a result < MDL

MDL - Method Detection Limit

B + Indicates a result >= MDL but < RL

Note: Total PCBs to be determined by summation of the listed congeners per EPA guidance (EPA, 1998).

TABLE 2. SITE WATER AND ELUTRIATE

Target Compound	CAS Number	Units	VA WATER QUALITY STANDARDS			MDL	RL	07-BC-EL-3	07-BC-EL-3(F)	07-BC-EL-4	07-BC-EL-4(F)	07-BC-EL-5	07-BC-EL-5(F)
			VA Aquatic Life Saltwater Acute	VA Aquatic Life Saltwater Chronic	All Other Surface Waters								
Metals (SW-846 Method: 6010B)													
Copper	7440-50-8	ug/l	9.3	6		2.70	5.0	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Zinc	7440-66-6	ug/l	90	81	69,000	3.40	20.0	3.4 U	3.4 U	14.6 B	3.4 U	4.2 B	3.4 U
Polychlorinated Biphenyls - Congeners (SW-846 Method: 8082)													
2,4'-Dichlorobiphenyl-BZ8	34883-43-7	ug/l				0.0042	1.00	ND	ND	ND	ND	ND	ND
2,2',5-Trichlorobiphenyl-BZ18	37680-65-2	ug/l				0.0061	1.00	ND	ND	ND	ND	ND	ND
2,4,4'-Trichlorobiphenyl-BZ28	7012-37-5	ug/l				0.0076	1.00	ND	ND	ND	ND	ND	ND
2,2',3,5'-Tetrachlorobiphenyl-BZ44	41464-39-5	ug/l				0.0060	1.00	ND	ND	ND	ND	ND	ND
2,2',5,5'-Tetrachlorobiphenyl-BZ52	35693-99-3	ug/l				0.0082	1.00	ND	ND	ND	ND	ND	ND
2,3'4,4'-Tetrachlorobiphenyl-BZ66	32598-10-0	ug/l				0.0073	1.00	ND	ND	ND	ND	ND	ND
3,3',4,4'-Tetrachlorobiphenyl-BZ77	32598-13-3	ug/l				0.0052	1.00	ND	ND	ND	ND	ND	ND
2,2',4,5,5'-Pentachlorobiphenyl-BZ101	37680-73-2	ug/l				0.0041	1.00	ND	ND	ND	ND	ND	ND
2,3,3',4,4'-Pentachlorobiphenyl-BZ105	32598-14-4	ug/l				0.0206	1.00	ND	ND	ND	ND	ND	ND
2,3',4,4',5-Pentachlorobiphenyl-BZ118	31508-00-6	ug/l				0.0031	1.00	ND	ND	ND	ND	ND	ND
3,3',4,4',5-Pentachlorobiphenyl-BZ126	57465-28-8	ug/l				0.0055	1.00	ND	ND	ND	ND	ND	ND
2',3,3',4,4'-Hexachlorobiphenyl-BZ128	38380-07-3	ug/l				0.0096	1.00	ND	ND	ND	ND	ND	ND
2,2',3,4,4',5'-Hexachlorobiphenyl-BZ138	35065-28-2	ug/l				0.0046	1.00	ND	ND	ND	ND	ND	ND
2,2',4,4',5,5'-Hexachlorobiphenyl-BZ153	35065-27-1	ug/l				0.0077	1.00	ND	ND	ND	ND	ND	ND
3,3',4,4',5,5'-Hexachlorobiphenyl-BZ169	32774-16-6	ug/l				0.0047	1.00	ND	ND	ND	ND	ND	ND
2,2',3,3',4,4',5-Heptachlorobiphenyl-BZ170	35065-30-6	ug/l				0.0046	1.00	ND	ND	ND	ND	ND	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl-BZ180	35065-29-3	ug/l				0.0066	1.00	ND	ND	ND	ND	ND	ND
2,2',3,4',5,5',6-Heptachlorobiphenyl-BZ187	52663-68-0	ug/l				0.0075	1.00	ND	ND	ND	ND	ND	ND
Total PCBs	1336-36-3	ug/l			0.0017								
Organic Carbon (SW-846 9060)													
Total Organic Carbon		mg/l						4.0		3.7		4.7	
Total Suspended Solids (EPA 160.2)													
		mg/l						11.0		10.0		6.0	

RL - Reporting Limit

Data Qualifier

U = Indicates a result < MDL

MDL - Method Detection Limit

B + Indicates a result >= MDL but < RL

Note: Total PCBs to be determined by summation of the listed congeners per EPA guidance (EPA, 1998).

Appendix A



Technical Report for

USACE-Norfolk District

Broad Creek, VA

Accutest Job Number: J73350

Sampling Date: 10/03/07

Report to:

USACE-Norfolk District

ATTN: Robert Pruhs

Total number of pages in report: 79



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.



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Sample Summary

USACE-Norfolk District

Job No: J73350

Broad Creek, VA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
J73350-1	10/03/07	09:35 MDG	10/05/07	SO	Soil	07-BC-SS-01
J73350-2	10/03/07	09:35 MDG	10/05/07	SO	Soil	07-BC-SS-DUP
J73350-3	10/03/07	10:30 MDG	10/05/07	SO	Soil	07-BC-SS-02
J73350-3D	10/03/07	10:30 MDG	10/05/07	SO	Soil Dup/MSD	07-BC-SS-MSD
J73350-3S	10/03/07	10:30 MDG	10/05/07	SO	Soil Matrix Spike	07-BC-SS-MS
J73350-4	10/03/07	11:20 MDG	10/05/07	SO	Soil	07-BC-SS-03
J73350-5	10/03/07	11:45 MDG	10/05/07	SO	Soil	07-BC-SS-04
J73350-6	10/03/07	12:15 MDG	10/05/07	SO	Soil	07-BC-SS-05
J73350-7	10/03/07	12:50 MDG	10/05/07	AQ	Water	07-BC-SW-01
J73350-8	10/03/07	12:50 MDG	10/05/07	AQ	Equipment Blank	07-BC-EB
J73350-9	10/03/07	09:35 MDG	10/05/07	SO	Soil	07-BC-EL-01
J73350-9A	10/03/07	09:35 MDG	10/05/07	AQ	Surface Water	07-BC-EL-01
J73350-9AF	10/03/07	09:35 MDG	10/05/07	AQ	Surface H2O Filtered	07-BC-EL-01

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

USACE-Norfolk District

Job No: J73350

Broad Creek, VA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
J73350-10	10/03/07	09:35 MDG	10/05/07	SO	Soil	07-BC-EL-DUP
J73350-10A	10/03/07	09:35 MDG	10/05/07	AQ	Surface Water	07-BC-EL-DUP
J73350-10AF	10/03/07	09:35 MDG	10/05/07	AQ	Surface H2O Filtered	07-BC-EL-DUP
J73350-11	10/03/07	10:30 MDG	10/05/07	SO	Soil	07-BC-EL-02
J73350-11A	10/03/07	10:30 MDG	10/05/07	AQ	Surface Water	07-BC-EL-02
J73350-11AF	10/03/07	10:30 MDG	10/05/07	AQ	Surface H2O Filtered	07-BC-EL-02
J73350-12	10/03/07	11:20 MDG	10/05/07	SO	Soil	07-BC-EL-03
J73350-12A	10/03/07	11:20 MDG	10/05/07	AQ	Surface Water	07-BC-EL-03
J73350-12AF	10/03/07	11:20 MDG	10/05/07	AQ	Surface H2O Filtered	07-BC-EL-03
J73350-13	10/03/07	11:45 MDG	10/05/07	SO	Soil	07-BC-EL-04
J73350-13A	10/03/07	11:45 MDG	10/05/07	AQ	Surface Water	07-BC-EL-04
J73350-13AF	10/03/07	11:45 MDG	10/05/07	AQ	Surface H2O Filtered	07-BC-EL-04
J73350-14	10/03/07	12:15 MDG	10/05/07	SO	Soil	07-BC-EL-05

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

USACE-Norfolk District

Job No: J73350

Broad Creek, VA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
J73350-14A	10/03/07	12:15 MDG	10/05/07	AQ	Surface Water	07-BC-EL-05
J73350-14AF	10/03/07	12:15 MDG	10/05/07	AQ	Surface H2O Filtered	07-BC-EL-05
J73350-15	10/03/07	12:50 MDG	10/05/07	AQ	Water	07-BC-FL/SW-01
J73350-16	10/03/07	00:00 MDG	10/05/07	SO	Soil	07-BC-SS-01
J73350-17	10/03/07	00:00 MDG	10/05/07	SO	Soil	07-BC-SS-DUP
J73350-18	10/03/07	00:00 MDG	10/05/07	SO	Soil	07-BC-SS-02
J73350-19	10/03/07	00:00 MDG	10/05/07	SO	Soil	07-BC-SS-03
J73350-20	10/03/07	00:00 MDG	10/05/07	SO	Soil	07-BC-SS-04
J73350-21	10/03/07	00:00 MDG	10/05/07	SO	Soil	07-BC-SS-05

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 07-BC-SS-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-1	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 71.2
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	1.9 B	3.5	0.34	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²
Zinc	4.5	2.8	0.56	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19993

(2) Prep QC Batch: MP41256

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SS-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-1	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 71.2
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	28.8		%	1	10/18/07	JA	ASTM 2216
Total Organic Carbon	1760	140	mg/kg	1	10/15/07 09:23	SJG	LLOYD KAHN 1988

(a) Results shown reported as a percentage of total (as received) weight. 40.5% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-DUP	Date Sampled: 10/03/07
Lab Sample ID: J73350-2	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 72.7
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.0 B	3.3	0.32	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²
Zinc	4.8	2.7	0.53	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19993

(2) Prep QC Batch: MP41256

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SS-DUP	Date Sampled: 10/03/07
Lab Sample ID: J73350-2	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 72.7
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	27.3		%	1	10/18/07	JA	ASTM 2216
Total Organic Carbon	1730	140	mg/kg	1	10/15/07 09:38	SJG	LLOYD KAHN 1988

(a) Results shown reported as a percentage of total (as received) weight. 37.5% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-02	Date Sampled: 10/03/07
Lab Sample ID: J73350-3	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 73.7
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.6 B	3.4	0.33	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²
Zinc	6.8	2.7	0.55	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19993

(2) Prep QC Batch: MP41256

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SS-02	Date Sampled: 10/03/07
Lab Sample ID: J73350-3	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 73.7
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	26.3		%	1	10/18/07	JA	ASTM 2216
Total Organic Carbon	1470	140	mg/kg	1	10/15/07 09:10	SJG	LLOYD KAHN 1988

(a) Results shown reported as a percentage of total (as received) weight. 35.7% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-03	Date Sampled: 10/03/07
Lab Sample ID: J73350-4	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 73.8
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	6.7	3.3	0.32	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²
Zinc	11.4	2.7	0.53	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19993

(2) Prep QC Batch: MP41256

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SS-03	Date Sampled: 10/03/07
Lab Sample ID: J73350-4	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 73.8
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	26.2		%	1	10/18/07	JA	ASTM 2216
Total Organic Carbon	2180	140	mg/kg	1	10/15/07 09:50	SJG	LLOYD KAHN 1988

(a) Results shown reported as a percentage of total (as received) weight. 35.5% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-04	Date Sampled: 10/03/07
Lab Sample ID: J73350-5	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 70.3
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	9.7	3.6	0.34	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²
Zinc	16.5	2.8	0.57	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19993

(2) Prep QC Batch: MP41256

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SS-04	Date Sampled: 10/03/07
Lab Sample ID: J73350-5	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 70.3
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	29.7		%	1	10/18/07	JA	ASTM 2216
Total Organic Carbon	2230	140	mg/kg	1	10/15/07 10:04	SJG	LLOYD KAHN 1988

(a) Results shown reported as a percentage of total (as received) weight. 42.2% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-05	Date Sampled: 10/03/07
Lab Sample ID: J73350-6	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 63.9
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	14.2	3.8	0.36	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²
Zinc	27.3	3.0	0.60	mg/kg	1	10/23/07	10/24/07 WP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA19993

(2) Prep QC Batch: MP41256

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SS-05	Date Sampled: 10/03/07
Lab Sample ID: J73350-6	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 63.9
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	36.1		%	1	10/18/07	JA	ASTM 2216
Total Organic Carbon	5830	160	mg/kg	1	10/15/07 10:16	SJG	LLOYD KAHN 1988

(a) Results shown reported as a percentage of total (as received) weight. 56.4% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SW-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-7	Date Received: 10/05/07
Matrix: AQ - Water	Percent Solids: n/a
Method: SW846 8082 SW846 3510C	
Project: Broad Creek, VA	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OA40819.D	1	10/12/07	TDR	10/08/07	OP29552	GOA1461
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		38-133%
877-09-8	Tetrachloro-m-xylene	90%		38-133%
2051-24-3	Decachlorobiphenyl	92%		18-156%
2051-24-3	Decachlorobiphenyl	88%		18-156%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 07-BC-SW-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-7	Date Received: 10/05/07
Matrix: AQ - Water	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA19998
- (2) Instrument QC Batch: MA20006
- (3) Prep QC Batch: MP41274

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SW-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-7	Date Received: 10/05/07
Matrix: AQ - Water	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	4.0	4.0	mg/l	1	10/08/07	JA	SM20 2540D
Total Organic Carbon	3.5	1.0	mg/l	1	10/19/07 21:02	SJG	SM20 5310B, 9060 M

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EB	Date Sampled: 10/03/07
Lab Sample ID: J73350-8	Date Received: 10/05/07
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19998

(2) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-9	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 78.7
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	21.3		%	1	10/09/07	LE	ASTM 2216
Specific Gravity	1.9			1	10/16/07	LMM	ASTM 1429

(a) Results shown reported as a percentage of total (as received) weight. 27% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-9A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-9A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended ^a	10.0	4.0	mg/l	1	10/12/07	JA	SM20 2540D
Total Organic Carbon	4.0	1.0	mg/l	1	10/20/07 03:53	SJG	SM20 5310B, 9060 M

(a) Analysis done out of holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-9AF	Date Received: 10/05/07
Matrix: AQ - Surface H2O Filtered	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-DUP	Date Sampled: 10/03/07
Lab Sample ID: J73350-10	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 79.4
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	20.6		%	1	10/09/07	LE	ASTM 2216
Specific Gravity	1.9			1	10/16/07	LMM	ASTM 1429

(a) Results shown reported as a percentage of total (as received) weight. 26% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-DUP	Date Sampled: 10/03/07
Lab Sample ID: J73350-10A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-DUP	Date Sampled: 10/03/07
Lab Sample ID: J73350-10A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended ^a	8.0	4.0	mg/l	1	10/12/07	JA	SM20 2540D
Total Organic Carbon	3.7	1.0	mg/l	1	10/20/07 04:07	SJG	SM20 5310B, 9060 M

(a) Analysis done out of holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-DUP	Date Sampled: 10/03/07
Lab Sample ID: J73350-10AF	Date Received: 10/05/07
Matrix: AQ - Surface H2O Filtered	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-02	Date Sampled: 10/03/07
Lab Sample ID: J73350-11	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 81.8
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	18.2		%	1	10/09/07	LE	ASTM 2216
Specific Gravity	2.0			1	10/16/07	LMM	ASTM 1429

(a) Results shown reported as a percentage of total (as received) weight. 22.3% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-02	Date Sampled: 10/03/07
Lab Sample ID: J73350-11A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²
Zinc	4.1 B	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19998

(2) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-02	Date Sampled: 10/03/07
Lab Sample ID: J73350-11A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended ^a	10.0	4.0	mg/l	1	10/12/07	JA	SM20 2540D
Total Organic Carbon	3.4	1.0	mg/l	1	10/20/07 04:22	SJG	SM20 5310B, 9060 M

(a) Analysis done out of holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-02	Date Sampled: 10/03/07
Lab Sample ID: J73350-11AF	Date Received: 10/05/07
Matrix: AQ - Surface H2O Filtered	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	24.5	5.0	2.7	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19998

(2) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-03	
Lab Sample ID: J73350-12	Date Sampled: 10/03/07
Matrix: SO - Soil	Date Received: 10/05/07
	Percent Solids: 78.8
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	21.2		%	1	10/09/07	LE	ASTM 2216
Specific Gravity	1.9			1	10/16/07	LMM	ASTM 1429

(a) Results shown reported as a percentage of total (as received) weight. 27% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-03	Date Sampled: 10/03/07
Lab Sample ID: J73350-12A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-03	Date Sampled: 10/03/07
Lab Sample ID: J73350-12A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended ^a	11.0	4.0	mg/l	1	10/12/07	JA	SM20 2540D
Total Organic Carbon	4.0	1.0	mg/l	1	10/20/07 04:36	SJG	SM20 5310B, 9060 M

(a) Analysis done out of holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-03	Date Sampled: 10/03/07
Lab Sample ID: J73350-12AF	Date Received: 10/05/07
Matrix: AQ - Surface H2O Filtered	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19998

(2) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-04	Date Sampled: 10/03/07
Lab Sample ID: J73350-13	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 74.1
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	25.9		%	1	10/09/07	LE	ASTM 2216
Specific Gravity	1.8			1	10/16/07	LMM	ASTM 1429

(a) Results shown reported as a percentage of total (as received) weight. 34.9% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-04	Date Sampled: 10/03/07
Lab Sample ID: J73350-13A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	14.6 B	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-04	Date Sampled: 10/03/07
Lab Sample ID: J73350-13A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended ^a	10.0	4.0	mg/l	1	10/12/07	JA	SM20 2540D
Total Organic Carbon	3.7	1.0	mg/l	1	10/20/07 04:51	SJG	SM20 5310B, 9060 M

(a) Analysis done out of holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-04	Date Sampled: 10/03/07
Lab Sample ID: J73350-13AF	Date Received: 10/05/07
Matrix: AQ - Surface H2O Filtered	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-05	Date Sampled: 10/03/07
Lab Sample ID: J73350-14	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: 63.6
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent ^a	36.4		%	1	10/09/07	LE	ASTM 2216
Specific Gravity	1.6			1	10/16/07	LMM	ASTM 1429

(a) Results shown reported as a percentage of total (as received) weight. 57.3% moisture if reported as a percentage of the dry sample weight.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-05	Date Sampled: 10/03/07
Lab Sample ID: J73350-14A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/26/07 ND	SW846 6010B ²	SW846 3010A ³
Zinc	4.2 B	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA19998

(2) Instrument QC Batch: MA20006

(3) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-EL-05	Date Sampled: 10/03/07
Lab Sample ID: J73350-14A	Date Received: 10/05/07
Matrix: AQ - Surface Water	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended ^a	6.0	4.0	mg/l	1	10/12/07	JA	SM20 2540D
Total Organic Carbon	4.7	1.0	mg/l	1	10/20/07 05:36	SJG	SM20 5310B, 9060 M

(a) Analysis done out of holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-EL-05	Date Sampled: 10/03/07
Lab Sample ID: J73350-14AF	Date Received: 10/05/07
Matrix: AQ - Surface H2O Filtered	Percent Solids: n/a
Project: Broad Creek, VA	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Copper	2.7 U	5.0	2.7	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²
Zinc	3.4 U	20	3.4	ug/l	1	10/24/07	10/25/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA19998

(2) Prep QC Batch: MP41274

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: 07-BC-SS-01	Date Sampled: 10/03/07
Lab Sample ID: J73350-16	Date Received: 10/05/07
Matrix: SO - Soil	Percent Solids: n/a
Project: Broad Creek, VA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Particle Size Analysis (Sieve and Hydrometer Testing)							
3 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
1.5 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.75 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.375 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
No.4 Sieve (4.75 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.8 Sieve (2.36 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.10 Sieve (2.00 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.16 Sieve (1.18 mm)	99.4		%	1	10/22/07	ML	ASTM D422-63
No.30 Sieve (0.60 mm)	98.3		%	1	10/22/07	ML	ASTM D422-63
No.50 Sieve (0.30 mm)	95.2		%	1	10/22/07	ML	ASTM D422-63
No.100 Sieve (0.15 mm)	24.9		%	1	10/22/07	ML	ASTM D422-63
No.200 Sieve (0.075 mm)	4.3		%	1	10/22/07	ML	ASTM D422-63
0.030 mm (Hydrometer) ^a	4.2		%	1	10/22/07	ML	ASTM D422-63
0.005 mm (Hydrometer)	4.1		%	1	10/22/07	ML	ASTM D422-63
0.0015 mm (Hydrometer)	4.1		%	1	10/22/07	ML	ASTM D422-63
% Gravel	0.0		%	1	10/22/07	ML	ASTM D422-63
% Sand	95.7		%	1	10/22/07	ML	ASTM D422-63
% Silt, Clay, Colloids	4.3		%	1	10/22/07	ML	ASTM D422-63

(a) Data extrapolated from higher and lower data points due to possible analytical problem with hydrometer analysis at short analysis times.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-DUP**Lab Sample ID:** J73350-17**Matrix:** SO - Soil**Project:** Broad Creek, VA**Date Sampled:** 10/03/07**Date Received:** 10/05/07**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Particle Size Analysis (Sieve and Hydrometer Testing)							
3 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
1.5 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.75 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.375 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
No.4 Sieve (4.75 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.8 Sieve (2.36 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.10 Sieve (2.00 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.16 Sieve (1.18 mm)	99.8		%	1	10/22/07	ML	ASTM D422-63
No.30 Sieve (0.60 mm)	99.1		%	1	10/22/07	ML	ASTM D422-63
No.50 Sieve (0.30 mm)	96.9		%	1	10/22/07	ML	ASTM D422-63
No.100 Sieve (0.15 mm)	45.7		%	1	10/22/07	ML	ASTM D422-63
No.200 Sieve (0.075 mm)	22.0		%	1	10/22/07	ML	ASTM D422-63
0.030 mm (Hydrometer)	6.2		%	1	10/22/07	ML	ASTM D422-63
0.005 mm (Hydrometer)	4.1		%	1	10/22/07	ML	ASTM D422-63
0.0015 mm (Hydrometer)	4.1		%	1	10/22/07	ML	ASTM D422-63
% Gravel	0.0		%	1	10/22/07	ML	ASTM D422-63
% Sand	78.0		%	1	10/22/07	ML	ASTM D422-63
% Silt, Clay, Colloids	22.0		%	1	10/22/07	ML	ASTM D422-63

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-02**Lab Sample ID:** J73350-18**Matrix:** SO - Soil**Project:** Broad Creek, VA**Date Sampled:** 10/03/07**Date Received:** 10/05/07**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Particle Size Analysis (Sieve and Hydrometer Testing)							
3 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
1.5 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.75 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.375 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
No.4 Sieve (4.75 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.8 Sieve (2.36 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.10 Sieve (2.00 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.16 Sieve (1.18 mm)	99.3		%	1	10/22/07	ML	ASTM D422-63
No.30 Sieve (0.60 mm)	97.5		%	1	10/22/07	ML	ASTM D422-63
No.50 Sieve (0.30 mm)	87.6		%	1	10/22/07	ML	ASTM D422-63
No.100 Sieve (0.15 mm)	32.9		%	1	10/22/07	ML	ASTM D422-63
No.200 Sieve (0.075 mm)	6.2		%	1	10/22/07	ML	ASTM D422-63
0.030 mm (Hydrometer)	5.5		%	1	10/22/07	ML	ASTM D422-63
0.005 mm (Hydrometer)	4.0		%	1	10/22/07	ML	ASTM D422-63
0.0015 mm (Hydrometer)	4.0		%	1	10/22/07	ML	ASTM D422-63
% Gravel	0.0		%	1	10/22/07	ML	ASTM D422-63
% Sand	93.8		%	1	10/22/07	ML	ASTM D422-63
% Silt, Clay, Colloids	6.2		%	1	10/22/07	ML	ASTM D422-63

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-03**Lab Sample ID:** J73350-19**Matrix:** SO - Soil**Project:** Broad Creek, VA**Date Sampled:** 10/03/07**Date Received:** 10/05/07**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Particle Size Analysis (Sieve and Hydrometer Testing)							
3 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
1.5 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.75 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.375 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
No.4 Sieve (4.75 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.8 Sieve (2.36 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.10 Sieve (2.00 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.16 Sieve (1.18 mm)	99.7		%	1	10/22/07	ML	ASTM D422-63
No.30 Sieve (0.60 mm)	98.2		%	1	10/22/07	ML	ASTM D422-63
No.50 Sieve (0.30 mm)	88.1		%	1	10/22/07	ML	ASTM D422-63
No.100 Sieve (0.15 mm)	17.3		%	1	10/22/07	ML	ASTM D422-63
No.200 Sieve (0.075 mm)	7.4		%	1	10/22/07	ML	ASTM D422-63
0.030 mm (Hydrometer) ^a	7.0		%	1	10/22/07	ML	ASTM D422-63
0.005 mm (Hydrometer)	4.0		%	1	10/22/07	ML	ASTM D422-63
0.0015 mm (Hydrometer)	4.0		%	1	10/22/07	ML	ASTM D422-63
% Gravel	0.0		%	1	10/22/07	ML	ASTM D422-63
% Sand	92.6		%	1	10/22/07	ML	ASTM D422-63
% Silt, Clay, Colloids	7.4		%	1	10/22/07	ML	ASTM D422-63

(a) Data extrapolated from higher and lower data points due to possible analytical problem with hydrometer analysis at short analysis times.

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-04**Lab Sample ID:** J73350-20**Matrix:** SO - Soil**Project:** Broad Creek, VA**Date Sampled:** 10/03/07**Date Received:** 10/05/07**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Particle Size Analysis (Sieve and Hydrometer Testing)							
3 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
1.5 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.75 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.375 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
No.4 Sieve (4.75 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.8 Sieve (2.36 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.10 Sieve (2.00 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.16 Sieve (1.18 mm)	99.5		%	1	10/22/07	ML	ASTM D422-63
No.30 Sieve (0.60 mm)	97.9		%	1	10/22/07	ML	ASTM D422-63
No.50 Sieve (0.30 mm)	91.9		%	1	10/22/07	ML	ASTM D422-63
No.100 Sieve (0.15 mm)	26.8		%	1	10/22/07	ML	ASTM D422-63
No.200 Sieve (0.075 mm)	9.4		%	1	10/22/07	ML	ASTM D422-63
0.030 mm (Hydrometer)	7.9		%	1	10/22/07	ML	ASTM D422-63
0.005 mm (Hydrometer)	6.0		%	1	10/22/07	ML	ASTM D422-63
0.0015 mm (Hydrometer)	6.0		%	1	10/22/07	ML	ASTM D422-63
% Gravel	0.0		%	1	10/22/07	ML	ASTM D422-63
% Sand	90.6		%	1	10/22/07	ML	ASTM D422-63
% Silt, Clay, Colloids	9.4		%	1	10/22/07	ML	ASTM D422-63

RL = Reporting Limit

Report of Analysis

Client Sample ID: 07-BC-SS-05**Lab Sample ID:** J73350-21**Matrix:** SO - Soil**Project:** Broad Creek, VA**Date Sampled:** 10/03/07**Date Received:** 10/05/07**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Particle Size Analysis (Sieve and Hydrometer Testing)							
3 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
1.5 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.75 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
0.375 Inch Sieve	100		%	1	10/22/07	ML	ASTM D422-63
No.4 Sieve (4.75 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.8 Sieve (2.36 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.10 Sieve (2.00 mm)	100		%	1	10/22/07	ML	ASTM D422-63
No.16 Sieve (1.18 mm)	99.4		%	1	10/22/07	ML	ASTM D422-63
No.30 Sieve (0.60 mm)	97.7		%	1	10/22/07	ML	ASTM D422-63
No.50 Sieve (0.30 mm)	92.3		%	1	10/22/07	ML	ASTM D422-63
No.100 Sieve (0.15 mm)	53.2		%	1	10/22/07	ML	ASTM D422-63
No.200 Sieve (0.075 mm)	41.9		%	1	10/22/07	ML	ASTM D422-63
0.030 mm (Hydrometer) ^a	34.0		%	1	10/22/07	ML	ASTM D422-63
0.005 mm (Hydrometer)	22.0		%	1	10/22/07	ML	ASTM D422-63
0.0015 mm (Hydrometer)	15.5		%	1	10/22/07	ML	ASTM D422-63
% Gravel	0.0		%	1	10/22/07	ML	ASTM D422-63
% Sand	58.1		%	1	10/22/07	ML	ASTM D422-63
% Silt, Clay, Colloids	41.9		%	1	10/22/07	ML	ASTM D422-63

(a) Data extrapolated from higher and lower data points due to possible analytical problem with hydrometer analysis at short analysis times.

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # **836086402760** Bottle Order Control # **MV-9/28/2007-9**
Accutest Quote # _____ Accutest Job # **J73350**

Client / Reporting Information		Project Information		Requested Analysis												Matrix Codes					
Company Name US ARMY CORPS OF ENGRS NORFOLK		Project Name BROAD CREEK														DW - Drinking Water					
Address 803 FRONT ST		Street														GW - Ground Water					
City NORFOLK State VA Zip 23510		City														WW - Water					
Project Contact MARC D GUTTERMAN E-mail		Project #														SW - Surface Water					
Phone # 757-201-7469		Fax #														SO - Soil					
Sampler's Name MARC D GUTTERMAN		Client Purchase Order #														SL - Sludge					
Accutest Sample #		Field ID / Point of Collection		SUMMA #		Collection		Number of preserved Bottles												OI - Oil	
				MECH Val #		Date Time Sampled By Matrix														LIO - Other Liquid	
-1		07-BC-SS-01				10-3-07 0935 MDG SCA 3														AIR - Air	
-2		07-BC-SS-DUP				" 0935 " " 3														SOL - Other Solid	
-3		07-BC-SS-02				" 1030 " " 3														WP - Wipe	
		07-BC-SS-MS/MSD				" 1030 " " 3														LAB USE ONLY	
-4		07-BC-SS-03				" 1120 " " 3															
-5		07-BC-SS-04				" 1145 " " 3															
-6		07-BC-SS-05				" 1215 " " 3															

PCB Congeners
TOX, C4, ZN

31
3

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks			
<input checked="" type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other _____		Approved By: / Date: _____ <input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> Other _____ Commercial "A" = Results Only		<input type="checkbox"/> FULL CLP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format _____		ONE COOLER	

Emergency & Rush T/A data available VIA LabLink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: <i>[Signature]</i>	Date Time: 10/1/07 1045	Received by: Fed X	Relinquished by: So B X	Date Time: 10/1/07 1050	Received by: <i>[Signature]</i>
Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
Relinquished by:	Date Time:	Received by:	Custody Seal #	Preserved where applicable	On Ice
			Cooler Temp. 3.7 A		

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FED-EX Tracking # **W58624408400**
Accutest Quote #
Bottle Order Control # **MV-9128/2007-9**
Accutest Job # **J73350**

Client / Reporting Information		Project Information		Requested Analysis		Matrix Codes	
Company Name US ARMY CORPS OF ENGRS NORFOLK		Project Name BROAD CREEK					
Address 803 FRONT ST		Street				DW - Drinking Water	
City NORFOLK VA 23510		City State				GW - Ground Water	
Project Contact MARC D GUTTERMAN		Project #				WW - Water	
Phone # 757-201-7669		Fax #				SW - Surface Water	
Sampler's Name MARC D GUTTERMAN		Client Purchase Order #				SO - Soil	
Field ID / Point of Collection		Collection		Number of preserved Bottles		SL - Sludge	
Accutest Sample #	SUMMA #	Date	Time	Sampled By	Matrix	# of bottles	OI - Oil
	MECH Vial #						LIQ - Other Liquid
-9	107-BC-FL-01	10-3-07	0935	MDG	Sed	2	AIR - Air
-10	107-BC-EL-DUP	11	0935	MDG	Sed	2	SOL - Other Solid
-11	107-BC-EL-02	11	1030	MDG	Sed	2	WP - Wipe
-12	107-BC-EL-03	11	1120	MDG	Sed	2	LAB USE ONLY
-13	107-BC-EL-04	11	1145	MDG	Sed	2	
-14	107-BC-EL-05	11	1215	MDG	Sed	2	

8020 <input type="checkbox"/>	8021 <input type="checkbox"/>	8022 <input type="checkbox"/>	8023 <input type="checkbox"/>	8024 <input type="checkbox"/>	8025 <input type="checkbox"/>	8026 <input type="checkbox"/>	8027 <input type="checkbox"/>	8028 <input type="checkbox"/>	8029 <input type="checkbox"/>	8030 <input type="checkbox"/>	8031 <input type="checkbox"/>	8032 <input type="checkbox"/>	8033 <input type="checkbox"/>	8034 <input type="checkbox"/>	8035 <input type="checkbox"/>	8036 <input type="checkbox"/>	8037 <input type="checkbox"/>	8038 <input type="checkbox"/>	8039 <input type="checkbox"/>	8040 <input type="checkbox"/>	8041 <input type="checkbox"/>	8042 <input type="checkbox"/>	8043 <input type="checkbox"/>	8044 <input type="checkbox"/>	8045 <input type="checkbox"/>	8046 <input type="checkbox"/>	8047 <input type="checkbox"/>	8048 <input type="checkbox"/>	8049 <input type="checkbox"/>	8050 <input type="checkbox"/>	8051 <input type="checkbox"/>	8052 <input type="checkbox"/>	8053 <input type="checkbox"/>	8054 <input type="checkbox"/>	8055 <input type="checkbox"/>	8056 <input type="checkbox"/>	8057 <input type="checkbox"/>	8058 <input type="checkbox"/>	8059 <input type="checkbox"/>	8060 <input type="checkbox"/>	8061 <input type="checkbox"/>	8062 <input type="checkbox"/>	8063 <input type="checkbox"/>	8064 <input type="checkbox"/>	8065 <input type="checkbox"/>	8066 <input type="checkbox"/>	8067 <input type="checkbox"/>	8068 <input type="checkbox"/>	8069 <input type="checkbox"/>	8070 <input type="checkbox"/>	8071 <input type="checkbox"/>	8072 <input type="checkbox"/>	8073 <input type="checkbox"/>	8074 <input type="checkbox"/>	8075 <input type="checkbox"/>	8076 <input type="checkbox"/>	8077 <input type="checkbox"/>	8078 <input type="checkbox"/>	8079 <input type="checkbox"/>	8080 <input type="checkbox"/>	8081 <input type="checkbox"/>	8082 <input type="checkbox"/>	8083 <input type="checkbox"/>	8084 <input type="checkbox"/>	8085 <input type="checkbox"/>	8086 <input type="checkbox"/>	8087 <input type="checkbox"/>	8088 <input type="checkbox"/>	8089 <input type="checkbox"/>	8090 <input type="checkbox"/>	8091 <input type="checkbox"/>	8092 <input type="checkbox"/>	8093 <input type="checkbox"/>	8094 <input type="checkbox"/>	8095 <input type="checkbox"/>	8096 <input type="checkbox"/>	8097 <input type="checkbox"/>	8098 <input type="checkbox"/>	8099 <input type="checkbox"/>	8100 <input type="checkbox"/>
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PCB CONGENERS
TOC, CU, ZN
ELUTRIATE PREP

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
<input checked="" type="checkbox"/> Std. 15 Business Days	Approved By / Date:	<input type="checkbox"/> Commercial "A"	<input type="checkbox"/> FULL CLP	TWO (2) COOLERS 836086902782 8492 5384 7767	
<input type="checkbox"/> 10 Day RUSH	_____	<input type="checkbox"/> Commercial "B"	<input type="checkbox"/> NYASP Category A		
<input type="checkbox"/> 5 Day RUSH	_____	<input type="checkbox"/> NJ Reduced	<input type="checkbox"/> NYASP Category B		
<input type="checkbox"/> 3 Day EMERGENCY	_____	<input type="checkbox"/> NJ Full	<input type="checkbox"/> Slate Forms		
<input type="checkbox"/> 2 Day EMERGENCY	_____	<input type="checkbox"/> Other _____	<input type="checkbox"/> EDD Format _____		
<input type="checkbox"/> 1 Day EMERGENCY	_____	Commercial "A" = Results Only			
<input type="checkbox"/> Other	_____				

Emergency & Rush T/A data available VIA LabLink						Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by: MDG	Date Time: 10/6/07	Received by: FedX	Relinquished by: FedX	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]
Relinquished by: [Signature]	Date Time: 10/6/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]
Relinquished by: [Signature]	Date Time: 10/6/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]
Relinquished by: [Signature]	Date Time: 10/6/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]	Relinquished by: [Signature]	Date Time: 10/5/07	Received by: [Signature]

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FED-EX Tracking # **836086902771** Bottle Order Control # **MV9/28/2007-9**
Accutest Quote # _____ Accutest Job # **573350**

Client / Reporting Information		Project Information		Requested Analysis		Matrix Codes	
Company Name US ARMY CORPS OF ENGES NORFOLK		Project Name Broad Creek				DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OF - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe LAB USE ONLY	
Address 803 FRONT ST		Street					
City NORFOLK State VA Zip 23510		City		State			
Project Contact MARC D GUTTERMAN E-mail		Project #					
Phone # 757-201-7665		Fax #					
Sampler's Name Marc D Gutterman		Client Purchase Order #					
Accutest Sample #	Field ID / Point of Collection	SUMMA #	MEOH Vol #	Collection		Number of preserved Bottles	
				Date	Time	Sampled By	Matrix
							# of bottles
							NO
							NR1
							NR3
							NR304
							NR306
							NR308
							NR310
							NR312
							NR314
							NR316
							NR318
							NR320
							NR322
							NR324
							NR326
							NR328
							NR330
							NR332
							NR334
							NR336
							NR338
							NR340
							NR342
							NR344
							NR346
							NR348
							NR350
							NR352
							NR354
							NR356
							NR358
							NR360
							NR362
							NR364
							NR366
							NR368
							NR370
							NR372
							NR374
							NR376
							NR378
							NR380
							NR382
							NR384
							NR386
							NR388
							NR390
							NR392
							NR394
							NR396
							NR398
							NR400
							NR402
							NR404
							NR406
							NR408
							NR410
							NR412
							NR414
							NR416
							NR418
							NR420
							NR422
							NR424
							NR426
							NR428
							NR430
							NR432
							NR434
							NR436
							NR438
							NR440
							NR442
							NR444
							NR446
							NR448
							NR450
							NR452
							NR454
							NR456
							NR458
							NR460
							NR462
							NR464
							NR466
							NR468
							NR470
							NR472
							NR474
							NR476
							NR478
							NR480
							NR482
							NR484
							NR486
							NR488
							NR490
							NR492
							NR494
							NR496
							NR498
							NR500

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
<input checked="" type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other _____	Approved By: / Date: _____	<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> Other _____	<input type="checkbox"/> FULL CLP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format _____	ONE (1) COOLER	
Emergency & Rush/TIA data available VIA LabLink					

Sample Custody must be documented below each time samples change possession, including cooler delivery.					
Relinquished by: <i>[Signature]</i>	Date Time: 10/16/07 10:45	Received by: <i>[Signature]</i>	Relinquished by: <i>[Signature]</i>	Date Time: 10/16/07	Received by: <i>[Signature]</i>
Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
Relinquished by:	Date Time:	Received by:	Custody Seal #	Preserved where applicable <input type="checkbox"/>	On Ice <input checked="" type="checkbox"/>
					Cooler Temp: 4.4 °C



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: J73350
Account: USACEVAN USACE-Norfolk District
Project: Broad Creek, VA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29552-MB1	OA40824.D	1	10/13/07	TDR	10/08/07	OP29552	GOA1461

The QC reported here applies to the following samples:

Method: SW846 8082

J73350-7

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.094	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.47	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.16	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.11	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.12	ug/l	

CAS No.	Surrogate Recoveries	Results	Limits
877-09-8	Tetrachloro-m-xylene	88%	38-133%
877-09-8	Tetrachloro-m-xylene	88%	38-133%
2051-24-3	Decachlorobiphenyl	101%	18-156%
2051-24-3	Decachlorobiphenyl	103%	18-156%

Blank Spike Summary

Job Number: J73350
Account: USACEVAN USACE-Norfolk District
Project: Broad Creek, VA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29552-BS1	OA40825.D	1	10/13/07	TDR	10/08/07	OP29552	GOA1461

The QC reported here applies to the following samples:

Method: SW846 8082

J73350-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	2.4	120	71-131
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	2	2.2	110 ^a	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	85%	38-133%
877-09-8	Tetrachloro-m-xylene	89%	38-133%
2051-24-3	Decachlorobiphenyl	87%	18-156%
2051-24-3	Decachlorobiphenyl	91%	18-156%

(a) Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (15%) so using for confirmation only.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: J73350
Account: USACEVAN USACE-Norfolk District
Project: Broad Creek, VA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29552-MS	OA40826.D	1	10/13/07	TDR	10/08/07	OP29552	GOA1461
OP29552-MSD	OA40839.D	1	10/15/07	TDR	10/08/07	OP29552	GOA1463
J73350-7	OA40819.D	1	10/12/07	TDR	10/08/07	OP29552	GOA1461

The QC reported here applies to the following samples:

Method: SW846 8082

J73350-7

CAS No.	Compound	J73350-7 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	4	4.6	115	4.6	115	0	58-140/14	
11104-28-2	Aroclor 1221	ND		ND	ND	ND	nc	70-130/10		
11141-16-5	Aroclor 1232	ND		ND	ND	ND	nc	70-130/10		
53469-21-9	Aroclor 1242	ND		ND	ND	ND	nc	70-130/10		
12672-29-6	Aroclor 1248	ND		ND	ND	ND	nc	70-130/10		
11097-69-1	Aroclor 1254	ND		ND	ND	ND	nc	70-130/10		
11096-82-5	Aroclor 1260	ND	4	3.8	95	4.0	100	5	58-140/14	

CAS No.	Surrogate Recoveries	MS	MSD	J73350-7	Limits
877-09-8	Tetrachloro-m-xylene	86%	90%	89%	38-133%
877-09-8	Tetrachloro-m-xylene	91%	88%	90%	38-133%
2051-24-3	Decachlorobiphenyl	98%	98%	92%	18-156%
2051-24-3	Decachlorobiphenyl	102%	93%	88%	18-156%

Semivolatile Surrogate Recovery Summary

Job Number: J73350
Account: USACEVAN USACE-Norfolk District
Project: Broad Creek, VA

Method: SW846 8082	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
J73350-7	OA40819.D	89.0	90.0	92.0	88.0
OP29552-BS1	OA40825.D	85.0	89.0	87.0	91.0
OP29552-MB1	OA40824.D	88.0	88.0	101.0	103.0
OP29552-MS	OA40826.D	86.0	91.0	98.0	102.0
OP29552-MSD	OA40839.D	90.0	88.0	98.0	93.0

Surrogate Compounds

Recovery Limits

S1 = Tetrachloro-m-xylene	38-133%
S2 = Decachlorobiphenyl	18-156%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2

4.4
4



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: J73350
Account: USACEVAN - USACE-Norfolk District
Project: Broad Creek, VA

QC Batch ID: MP41256
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 10/23/07

Metal	RL	IDL	MB raw	final
Aluminum	20	1.9	anr	
Antimony	2.0	.51	anr	
Arsenic	2.0	.31	anr	
Barium	20	.04	anr	
Beryllium	0.50	.01	anr	
Cadmium	0.50	.08	anr	
Calcium	500	2.2	anr	
Chromium	1.0	.11	anr	
Cobalt	5.0	.11	anr	
Copper	2.5	.34	0.12	<2.5
Iron	10	5.5	anr	
Lead	2.0	.35	anr	
Magnesium	500	.76	anr	
Manganese	1.5	.06	anr	
Nickel	4.0	.23	anr	
Potassium	1000	6.1	anr	
Selenium	2.0	.35	anr	
Silver	1.0	.23	anr	
Sodium	1000	45	anr	
Thallium	1.0	.77	anr	
Vanadium	5.0	.27	anr	
Zinc	2.0	.14	0.098	<2.0

Associated samples MP41256: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

5.1.1
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41256
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 10/23/07

Metal	J73350-3		SpikeLot		QC
	Original	MS	MPIRS1	% Rec	Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	2.6	69.2	69.1	96.4	75-125
Iron	anr				
Lead	anr				
Magnesium	anr				
Manganese	anr				
Nickel	anr				
Potassium	anr				
Selenium	anr				
Silver	anr				
Sodium	anr				
Thallium	anr				
Vanadium	anr				
Zinc	6.8	136	138	93.5	75-125

Associated samples MP41256: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41256
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 10/23/07

Metal	J73350-3 Original MSD	SpikeLot MPIRS1 % Rec		MSD RPD	QC Limit	
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	2.6	66.7	66.4	96.6	3.7	20
Iron	anr					
Lead	anr					
Magnesium	anr					
Manganese	anr					
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Thallium	anr					
Vanadium	anr					
Zinc	6.8	130	133	92.8	4.5	20

Associated samples MP41256: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.1.2
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41256
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 10/23/07

Metal	BSP Result	Spikelot MPRS1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	50.5	50	101.0	80-120
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Vanadium	anr			
Zinc	97.4	100	97.4	80-120

Associated samples MP41256: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.1.3
5

SERIAL DILUTION RESULTS SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41256
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 10/23/07

Metal	J73350-3 Original SDL 1:5		RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	19.0	28.4	49.5 (a)	0-10
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Vanadium	anr			
Zinc	49.2	75.6	53.7 (a)	0-10

Associated samples MP41256: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

5.1.4
5

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: J73350
Account: USACEVAN - USACE-Norfolk District
Project: Broad Creek, VA

QC Batch ID: MP41274
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/24/07

Metal	RL	IDL	MB raw	final
Aluminum	200	14		
Antimony	6.0	4.7	anr	
Arsenic	8.0	3.6	anr	
Barium	200	1.1	anr	
Beryllium	1.0	.07	anr	
Boron	100	4.2		
Cadmium	4.0	.4	anr	
Calcium	5000	73		
Chromium	10	1	anr	
Cobalt	50	.7	anr	
Copper	25	1.1	1.1	<25
Iron	100	14	anr	
Lead	3.0	2	anr	
Magnesium	5000	4.4		
Manganese	15	.2		
Molybdenum	20	.9	anr	
Nickel	40	1.5	anr	
Palladium	50	5.9		
Potassium	10000	64		
Selenium	10	4.4	anr	
Silicon	200	12		
Silver	10	2.4	anr	
Sodium	10000	280		
Strontium	10	.1		
Thallium	10	3.3	anr	
Tin	10	1.9		
Titanium	10	.6		
Vanadium	50	.8	anr	
Zinc	20	.4	0.88	<20

Associated samples MP41274: J73350-7, J73350-8, J73350-9A, J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9AF, J73350-10AF, J73350-11AF, J73350-12AF, J73350-13AF, J73350-14AF

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41274
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 10/24/07

Metal	J74035-1 Original MS	Spike/lot MPIOW4	% Rec	QC Limits	
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt	anr				
Copper	1.4	250	250	99.4	75-125
Iron	anr				
Lead	anr				
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	anr				
Palladium					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	106	600	500	98.8	75-125

Associated samples MP41274: J73350-7, J73350-8, J73350-9A, J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9AF, J73350-10AF, J73350-11AF, J73350-12AF, J73350-13AF, J73350-14AF

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.2.2
 5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41274
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 10/24/07

Metal	J74035-1 Original MSD	SpikeLot MPIOW4	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	1.4	252	250	100.2	0.8	20
Iron	anr					
Lead	anr					
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	anr					
Palladium						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	106	602	500	99.2	0.3	20

Associated samples MP41274: J73350-7, J73350-8, J73350-9A, J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9AF, J73350-10AF, J73350-11AF, J73350-12AF, J73350-13AF, J73350-14AF

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.2.2
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41274
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 10/24/07 10/24/07

Metal	BSP Result	Spikelot MPIOW4	% Rec	QC Limits	LCS Result	Spikelot MPLCW2	% Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	anr							
Barium	anr							
Beryllium	anr							
Boron								
Cadmium	anr							
Calcium								
Chromium	anr							
Cobalt	anr							
Copper	248	250	99.2	80-120	501	500	100.2	80-120
Iron	anr							
Lead	anr							
Magnesium								
Manganese								
Molybdenum	anr							
Nickel	anr							
Palladium								
Potassium								
Selenium	anr							
Silicon								
Silver	anr							
Sodium								
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	499	500	99.8	80-120	511	500	102.2	80-120

Associated samples MP41274: J73350-7, J73350-8, J73350-9A, J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9AF, J73350-10AF, J73350-11AF, J73350-12AF, J73350-13AF, J73350-14AF

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.2.3
 5

SERIAL DILUTION RESULTS SUMMARY

Login Number: J73350
 Account: USACEVAN - USACE-Norfolk District
 Project: Broad Creek, VA

QC Batch ID: MP41274
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 10/24/07

Metal	J74035-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	1.42	0.00	100.0(a)	0-10
Iron	anr			
Lead	anr			
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	106	232	119.8*(b)	0-10

Associated samples MP41274: J73350-7, J73350-8, J73350-9A, J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9AF, J73350-10AF, J73350-11AF, J73350-12AF, J73350-13AF, J73350-14AF

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: J73350
Account: USACEVAN - USACE-Norfolk District
Project: Broad Creek, VA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Suspended	GN8270	4.0	<4.0	mg/l				
Solids, Total Suspended	GN8434	4.0	<4.0	mg/l				
Total Organic Carbon	GP41352/GN8491	100	<100	mg/kg	2000	2030	101.5	80-120%
Total Organic Carbon	GP41425/GN8674	1.0	<1.0	mg/l	10	9.75	97.5	90-110%
Total Organic Carbon	GP41426/GN8674	1.0	<1.0	mg/l	10	9.86	98.6	90-110%

Associated Samples:

Batch GN8270: J73350-7

Batch GN8434: J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9A

Batch GP41352: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6

Batch GP41425: J73350-7

Batch GP41426: J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9A

(*) Outside of QC limits

6.1

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: J73350
Account: USACEVAN - USACE-Norfolk District
Project: Broad Creek, VA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
% Gravel	GP41454/GN8731	J72626-6	%	11.9	22.5	61.9	0-77%
% Sand	GP41454/GN8731	J72626-6	%	56.9	48.9	15.1	0-31%
% Silt, Clay, Colloids	GP41454/GN8731	J72626-6	%	31.3	28.6	8.8	0-36%
0.0015 mm (Hydrometer)	GP41454/GN8731	J72626-6	%	11.0	10.0	9.5	0-61%
0.005 mm (Hydrometer)	GP41454/GN8731	J72626-6	%	15.5	13.5	13.8	0-87%
0.030 mm (Hydrometer)	GP41454/GN8731	J72626-6	%	24.5	22.5	8.5	0-50%
0.375 Inch Sieve	GP41454/GN8731	J72626-6	%	94.0	86.5	8.3	0-27%
0.75 Inch Sieve	GP41454/GN8731	J72626-6	%	100	100	0.0	0-21%
1.5 Inch Sieve	GP41454/GN8731	J72626-6	%	100	100	0.0	0-20%
3 Inch Sieve	GP41454/GN8731	J72626-6	%	100	100	0.0	0-20%
No.10 Sieve (2.00 mm)	GP41454/GN8731	J72626-6	%	72.5	66.9	7.9	0-18%
No.100 Sieve (0.15 mm)	GP41454/GN8731	J72626-6	%	35.8	33.2	7.6	0-32%
No.16 Sieve (1.18 mm)	GP41454/GN8731	J72626-6	%	67.9	63.3	7.0	0-21%
No.200 Sieve (0.075 mm)	GP41454/GN8731	J72626-6	%	31.3	28.6	8.8	0-27%
No.30 Sieve (0.60 mm)	GP41454/GN8731	J72626-6	%	58.5	53.4	9.1	0-27%
No.4 Sieve (4.75 mm)	GP41454/GN8731	J72626-6	%	88.1	77.5	12.8	0-17%
No.50 Sieve (0.30 mm)	GP41454/GN8731	J72626-6	%	45.5	41.3	9.6	0-25%
No.8 Sieve (2.36 mm)	GP41454/GN8731	J72626-6	%	76.2	69.1	9.8	0-18%
Solids, Total Suspended	GN8270	J73088-4	mg/l	22.0	20.0	9.5	0-12%
Solids, Total Suspended	GN8434	J73350-9A	mg/l	10.0	10.0	0.0	0-12%
Specific Gravity	GN8538	J73350-9		1.9	1.9	0.0	0-10%
Total Organic Carbon	GP41352/GN8491	J73350-3	mg/kg	1470	1460	0.7	0-27%
Total Organic Carbon	GP41425/GN8674	J74234-3	mg/l	11.5	11.6	0.9	0-34%
Total Organic Carbon	GP41426/GN8674	J74271-1	mg/l	2.0	1.9	5.1	0-34%

Associated Samples:

Batch GN8270: J73350-7
 Batch GN8434: J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9A
 Batch GN8538: J73350-10, J73350-11, J73350-12, J73350-13, J73350-14, J73350-9
 Batch GP41352: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6
 Batch GP41425: J73350-7
 Batch GP41426: J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9A
 Batch GP41454: J73350-16, J73350-17, J73350-18, J73350-19, J73350-20, J73350-21
 (*) Outside of QC limits

6.2
6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: J73350
Account: USACEVAN - USACE-Norfolk District
Project: Broad Creek, VA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP41352/GN8491	J73350-3	mg/kg	1470	2700	3780	85.7	55-133%
Total Organic Carbon	GP41425/GN8674	J74234-3	mg/l	11.5	10	21.6	101.0	70-130%
Total Organic Carbon	GP41426/GN8674	J74271-1	mg/l	2.0	10	11.6	96.0	70-130%

Associated Samples:

Batch GP41352: J73350-1, J73350-2, J73350-3, J73350-4, J73350-5, J73350-6

Batch GP41425: J73350-7

Batch GP41426: J73350-10A, J73350-11A, J73350-12A, J73350-13A, J73350-14A, J73350-9A

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.3

6

Technical Report for

USACE-Norfolk District

Broad Creek, VA

Accutest Job Number: J73350X

Sampling Date: 10/03/07

Report to:


USACE-Norfolk District
803 Front Street
Norfolk, VA 23510

ATTN: Marc Gutterman

Total number of pages in report:



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Vincent J. Pugliese
President

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Sample Summary

USACE-Norfolk District

Job No: J73350X

Broad Creek, VA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
J73350-1X	10/03/07	09:35 MDG	10/05/07	SO	Soil	07-BC-SS-01
J73350-2X	10/03/07	09:35 MDG	10/05/07	SO	Soil	07-BC-SS-DUP
J73350-3X	10/03/07	10:30 MDG	10/05/07	SO	Soil	07-BC-SS-02
J73350-3XD	10/03/07	10:30 MDG	10/05/07	SO	Soil Dup/MSD	07-BC-SS-02
J73350-3XS	10/03/07	10:30 MDG	10/05/07	SO	Soil Matrix Spike	07-BC-SS-02
J73350-4X	10/03/07	11:20 MDG	10/05/07	SO	Soil	07-BC-SS-03
J73350-5X	10/03/07	11:45 MDG	10/05/07	SO	Soil	07-BC-SS-04
J73350-6X	10/03/07	12:15 MDG	10/05/07	SO	Soil	07-BC-SS-05
J73350-7X	10/03/07	12:50 MDG	10/05/07	AQ	Water	07-BC-SW-01
J73350-8X	10/03/07	12:50 MDG	10/05/07	AQ	Equipment Blank	07-BC-EB
J73350-9XA	10/03/07	09:35 MDG	10/05/07	AQ	Surface Water	07-BC-FL-01
J73350-9XF	10/03/07	09:35 MDG	10/05/07	AQ	Surface H2O Filtered	07-BC-EL-01
J73350-10XA	10/03/07	09:35 MDG	10/05/07	AQ	Surface Water	07-BC-EL-DUP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

USACE-Norfolk District

Job No: J73350X

Broad Creek, VA

Sample Number	Collected		Matrix Received	Code Type	Client Sample ID
	Date	Time By			
J73350-10XF	10/03/07	09:35 MDG	10/05/07 AQ	Surface H2O Filtered	07-BC-EL-DUP
J73350-11XA	10/03/07	10:30 MDG	10/05/07 AQ	Surface Water	07-BC-EL-02
J73350-11XF	10/03/07	10:30 MDG	10/05/07 AQ	Surface H2O Filtered	07-BC-EL-02
J73350-12XA	10/03/07	11:20 MDG	10/05/07 AQ	Surface Water	07-BC-EL-03
J73350-12XF	10/03/07	11:20 MDG	10/05/07 AQ	Surface H2O Filtered	07-BC-EL-03
J73350-13XA	10/03/07	11:45 MDG	10/05/07 AQ	Surface Water	07-BC-EL-04
J73350-13XF	10/03/07	11:45 MDG	10/05/07 AQ	Surface H2O Filtered	07-BC-EL-04
J73350-14XA	10/03/07	12:15 MDG	10/05/07 AQ	Surface Water	07-BC-EL-05
J73350-14XF	10/03/07	12:15 MDG	10/05/07 AQ	Surface H2O Filtered	07-BC-EL-05

CHAIN OF CUSTODY

2235 Route 130, Dayton NJ 08810
 TEL: 732-329-0200 FAX: 732-329-3499/3480
 www.accutest.com

ACCUTEST
 Laboratories

FED-EX Tracking # **83608690277**
 Bottle Order Control # **MV9/28/2007-9**
 Accutest Job # **573350**

Company Name U.S. ARMY CORPS OF ENGENS NORFOLK		Project Information Broad Creek	
Address 803 FRONT ST		Street	
City NORFOLK VA	State VA	City	State
Project Contact MARC D GUTTERMAN	Zip 23510	Project #	
Phone # 757-201-7669	E-mail	Fax #	
Sampler's Name Marc D Gutterman		Client Purchase Order #	
Accutest Sample #	Field ID / Point of Collection	Collection	Matrix
		Date	Time
		Sampled By	
		ENCLOSURE	
		MECH	
		NAHS04	
		NONE	
		H2SO4	
		HNO3	
		H2O2	
		# of bottles	
		Matrix	
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		NONE	
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		H2O2	
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		ENCLOSURE	
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		NAHS04	
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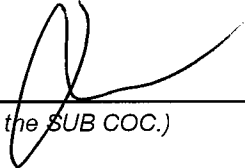
Accutest Subcontractor Order

Date/Time: 10/12/07 11:28 AM
Accutest Job No. J73350X
Client Project: Broad Creek
CSR: MV

Sub Lab: Universal Labs
Address: 20 Research Drive
 Hampton VA 23666
Contact: Sample Management
Phone: 800-695-2162

Sample #:	Analyses
350X - 9XA & 9XF	PCB Conginers 8082
10XA & 10XF	PCB Conginers 8082
11XA & 11XF	PCB Conginers 8082
12XA & 12XF	PCB Conginers 8082
13XA & 13XF	PCB Conginers 8082
14XA & 14XF	PCB Conginers 8082
0	
0	
0	
0	
Turn Around	21

Sample Managment receipt:



Date: 10/12/07

(Print form and sign/date. Submit this form to Login Dept. with the SUB COC.)

Accutest Subcontractor Order

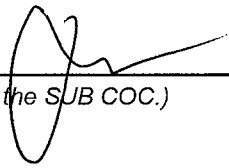
Date/Time: 10/12/07 11:48 AM
Accutest Job No. J73350X
Client Project: Broad Creek
CSR: MV

Sub Lab: Universal Labs
Address: 20 Research Drive
 Hampton VA 23666
Contact: Sample Management
Phone: 800-695-2162

Sample #:	Analyses
J73350X - 1X	PCB Conginers 8082
2X	PCB Conginers 8082
3X	PCB Conginers 8082
3XD	PCB Conginers 8082
3XS	PCB Conginers 8082
4X	PCB Conginers 8082
5X	PCB Conginers 8082
6X	PCB Conginers 8082
0	
0	
Turn Around	
21	

Sample Managment receipt:

(Print form and sign/date. Submit this form to Login Dept. with the SUB COC.)



Date: 10/12/07



CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
 2235 Route 130, Dayton, NJ 08810
 908-329-0200 FAX: 908-329-3499/3480

Accutest Job #: _____
 Accutest Quote #: _____

Client Information				Facility Information					Analytical Information							
Accutest				Project Name Broad Creek												
Name				Location												
2235 Route 130				Project No. J73350X												
Dayton NJ 08810				FAX #: (732) 329-3499												
Marty Vitanza																
Send Report to:																
Phone #: (732) 329-0200 X-216																
Turnaround Information				Collection					Data Deliverable Information							
21 Day Standard				Date	Time	Sampled By	Matrix	# of bottles	HC	NOH	HNO3	HSO4	None			
14 Day				10/3/07	12:50	MDG	AQ	2						0		
7 Days EMERGENCY				10/3/07	12:30	MDG	AQ	2								
<input checked="" type="checkbox"/> Other 21 (Days)																
Approved By: _____ Date Time: _____									<input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____							
Relinquished by Sampler: _____ Date Time: 10/9/07 1700									<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> State Forms							
Relinquished by Sampler: _____ Date Time: _____									Relinquished By: _____ Seal # _____				Comments / Remarks			
Relinquished by Sampler: _____ Date Time: _____									Relinquished By: _____ Seal # _____				Date Time: _____ Received By: _____			
Relinquished by Sampler: _____ Date Time: _____									Relinquished By: _____ Seal # _____				Date Time: _____ Received By: _____			
Sample Custody must be documented below each time samples change possession, including courier delivery.																
1									1				2			
2									2				3			
3									3				4			
4									4				5			
5									5				On Ice <input type="checkbox"/>			

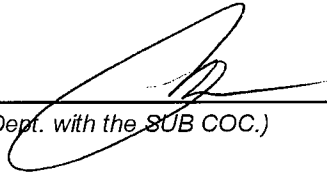
Accutest Subcontractor Order

Date/Time: 10/9/07 3:52 PM
Accutest Job No. J73350X
Client Project: Broad Creek
CSR: DJM

Sub Lab: Unioversal Labs
Address: 20 Research Drive
 Hampton VA 23666
Contact: Sample Management
Phone: 800-695-2162

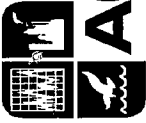
Sample #:	Analyses
J73350X - 7X	PCB Conginers 8082
8X	PCB Conginers 8082
0	
0	
0	
0	
0	
0	
0	
0	
0	
0	
0	
	Turn Around 21

Sample Managment receipt:



Date: 10/9/07

(Print form and sign/date. Submit this form to Login Dept. with the SUB COC.)



ACCUTEST®

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
908-329-0200 FAX: 908-329-3499/3480

Accutest Job #:	
Accutest Quote #:	

Client Information			Facility Information			Analytical Information								
Accutest			Project Name Broad Creek											
Name 2235 Route 130			Location											
Address Dayton NJ 08810			Project No. J73350X											
City Marty Vitanza			State NJ											
Zip 08810			FAX #: (732) 329-3499											
Send Report to: Phone #: (732) 329-0200 X-216														
Field ID / Point of Collection	Date	Time	Collection			Matrix	# of bottles	Preservation				Comments / Remarks		
			Date	Time	Matrix			# of bottles	TCL	NaOH	HNO3		H2SO4	None
J73350X-1X	10/3/07	9:35	07-BC-SS-01	MDG	Soil	1								
-2X	10/3/07	9:35	07-BC-SS-DUP	MDG	Soil	1								
-3X	10/3/07	10:30	07-BC-SS-02	MDG	Soil	1								
-3XD	10/3/07	10:30	07-BC-SS-MSD	MDG	Soil	1								
-3XS	10/3/07	10:30	07-BC-SS-MS	MDG	Soil	1								
-4X	10/3/07	11:20	07-BC-SS-03	MDG	Soil	1								
-5X	10/3/07	11:45	07-BC-SS-04	MDG	Soil	1								
-6X	10/3/07	12:15	07-BC-SS-05	MDG	Soil	1								
Turnaround Information			Data Deliverable Information											
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input type="checkbox"/> 7 Days EMERGENCY <input checked="" type="checkbox"/> Other 21 (Days)			<input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify)			<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> State Forms								
21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.														
Relinquished by Sampler: <i>[Signature]</i>			Date Time: 1			Relinquished By: 2			Date Time: 2					
Relinquished by Sampler: <i>[Signature]</i>			Date Time: 3			Relinquished By: 4			Date Time: 4					
Relinquished by Sampler: <i>[Signature]</i>			Date Time: 5			Relinquished By: 5			Date Time: 5					
Sample Custody must be documented below each time samples change possession, including courier delivery.														
Relinquished by Sampler: <i>[Signature]</i>												Date Time: 1		
Relinquished by Sampler: <i>[Signature]</i>												Date Time: 2		
Relinquished by Sampler: <i>[Signature]</i>												Date Time: 3		
Relinquished by Sampler: <i>[Signature]</i>												Date Time: 4		
Relinquished by Sampler: <i>[Signature]</i>												Date Time: 5		
Preserved where applicable												Seal # <input type="checkbox"/>		



CHAIN OF CUSTODY
 Fresh Ponds Corporate Village, Building B
 2235 Route 130, Dayton, NJ 08810
 908-329-0200 FAX: 908-329-3499/3480

Accutest Job #:
 Accutest Quote #:

Client Information		Facility Information		Analytical Information	
Accutest Name: 2235 Route 130 Address: Dayton NJ 08810 City: Dayton NJ State: Zip: 08810 City: Martyr Vitanza State: Zip: J73350X Send Report to: Phone #: (732) 329-0200 X-216 FAX #: (732) 329-3499		Project Name: Broad Creek Location: Project No.: J73350X		Analytical Information	
Field ID / Point of Collection J73350X-9XA & 9XF -10XA & 10XF -11XA & 11XF -12XA & 12XF -13XA & 13XF -14XA & 14XF		Date 10/11/07 10/11/07 10/11/07 10/11/07 10/11/07 10/11/07		Time 9:35 9:35 10:30 11:20 11:45 12:15	
Matrix AQ AQ AQ AQ AQ AQ		Sampled By MDG MDG MDG MDG MDG MDG		# of bottles 1 1 1 1 1 1	
Preservation <input type="checkbox"/> None <input type="checkbox"/> HSO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> HNO2 <input type="checkbox"/> HCL		Matrix AQ AQ AQ AQ AQ AQ		Sampled By MDG MDG MDG MDG MDG MDG	
Turnaround Information <input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input type="checkbox"/> 7 Days EMERGENCY <input checked="" type="checkbox"/> Other <u>21</u> (Days) 21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.		Data Deliverable Information <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____		Comments / Remarks -9 = 07-BC-EL-01, -10 = 07-BC-EL-DUP -11 = 07-BC-EL-02, -12 = 07-BC-EL-03 -13 = 07-BC-EL-04, -14 = 07-BC-EL-05	
Relinquished by Sampler: _____ Date Time: 10/12/07 17:00 Relinquished by Sampler: _____ Date Time: _____ Relinquished by Sampler: _____ Date Time: _____		Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____ Received By: _____ Date Time: _____ Received By: _____ Date Time: _____	
Sample Custody must be documented below each time samples change possession, including courier delivery.		Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____ Received By: _____ Date Time: _____ Received By: _____ Date Time: _____	
Relinquished by Sampler: _____ Date Time: _____ Relinquished by Sampler: _____ Date Time: _____ Relinquished by Sampler: _____ Date Time: _____		Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____ Received By: _____ Date Time: _____ Received By: _____ Date Time: _____	
Relinquished by Sampler: _____ Date Time: _____ Relinquished by Sampler: _____ Date Time: _____ Relinquished by Sampler: _____ Date Time: _____		Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____ Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____ Received By: _____ Date Time: _____ Received By: _____ Date Time: _____	

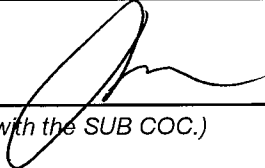
Accutest Subcontractor Order

Date/Time: 10/12/07 3:11 PM
Accutest Job No. J73350X
Client Project: Broad Creek
CSR: MV

Sub Lab: Universal Labs
Address: 20 Research Drive
Hampton VA 23666
Contact: Sample Management
Phone: 800-695-2162

Sample #:	Analyses
J73350X - 1X	PCB Conginers 8082
2X	PCB Conginers 8082
3X	PCB Conginers 8082
3XD	PCB Conginers 8082
3XS	PCB Conginers 8082
4X	PCB Conginers 8082
5X	PCB Conginers 8082
6X	PCB Conginers 8082
0	
0	
	Turn Around 21

Sample Managment receipt:



Date: 10/12/07

(Print form and sign/date. Submit this form to Login Dept. with the SUB COC.)

Accutest Subcontractor Order

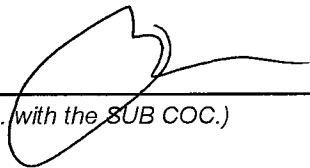
Date/Time: 10/12/07 3:11 PM
Accutest Job No. J73350X
Client Project: Broad Creek
CSR: MV

Sub Lab: Universal Labs
Address: 20 Research Drive
 Hampton VA 23666
Contact: Sample Management
Phone: 800-695-2162

Sample #:	Analyses
350X - 9XA & 9XF	PCB Conginers 8082
10XA & 10XF	PCB Conginers 8082
11XA & 11XF	PCB Conginers 8082
12XA & 12XF	PCB Conginers 8082
13XA & 13XF	PCB Conginers 8082
14XA & 14XF	PCB Conginers 8082
0	
0	
0	
0	
Turn Around	21

Sample Managment receipt:

(Print form and sign/date. Submit this form to Login Dept. with the SUB COC.)



Date: 10/12/07

SUBCONTRACT DATA

J73350X



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710136**

REPORT OF ANALYSIS

(REPORT DATE)

11-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710136-001**
Sample ID: J73350-7X
Grab Date/Time: 10/3/2007 12:50
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',5'-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM

2,2',3,4,4',5,5'-Heptachlorobiph SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM
2,2',3,4',5,5',6-Heptachlorobiph SW-846 8082	<	ug/L	1	10/11/2007 01:57:00	VM

Comments for Sample ID 0710136-001

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710136**

REPORT OF ANALYSIS

(REPORT DATE)

11-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A

Site: J73350X

Matrix: Surface Water

Comments for Order:

UL Sample Number: **0710136-002**
Sample ID: J73350-8X
Grab Date/Time: 10/3/2007 12:30
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM

2,2',3,4,4',5,5'-Heptachlorobiph SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM
2,2',3,4',5,5',6-Heptachlorobiph SW-846 8082	<	ug/L	1	10/11/2007 08:05:00	VM

Comments for Sample ID 0710136-002

No comments

Respectfully Submitted,

Carol Kleemeier



CHAIN OF CUSTODY
 Fresh Ponds Corporate Village, Building B
 2235 Route 130₁ Dayton, NJ 08810
 908-329-0200 FAX: 908-329-3499/3480

0710136
 Accutest Job #: _____
 Accutest Quote #: _____

Client Information		Facility Information		Analytical Information	
Account Name	2235 Route 130	Project Name	Broad Creek		
Address	Dayton NJ 08810	Location			
City	Dayton	State	NJ	Project No.	JY3350X
Zip	08810	Project No.	JY3350X		
Phone #:	(732) 329-0200 X-216	FAX #:	(732) 329-3499		

Field ID / Point of Collection	Date	Time	Collection		Matrix	# of bottles	Preservation				PCB Congeners 8082	
			Sampled By	Time			HCl	HNO ₃	H ₂ SO ₄	None		
JY3350X -7X	10/3/07	12:50	MDG	12:30	AQ	2					X	
-8X	10/3/07	12:30	MDG		AQ	2					X	

Turnaround Information	Approved By:	Data Deliverable Information	Comments / Remarks
<input type="checkbox"/> 21 Day Standard		<input type="checkbox"/> NJ Reduced	
<input type="checkbox"/> 14 Day		<input checked="" type="checkbox"/> NJ Full	
<input type="checkbox"/> 7 Days EMERGENCY		<input type="checkbox"/> FULL CLP	
<input checked="" type="checkbox"/> Other 21 (Days)		<input type="checkbox"/> Disk Deliverable	
		<input type="checkbox"/> Other (Specify)	

21 Day Turnaround Hardcopy, Emergency or RUSH is FAX
 Data unless previously approved.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:
1	10/9/07 1700	1	10/9/07 1700	2	10/9/07 1700	2	10/9/07 1700	3	10/9/07 1700	3	10/9/07 1700	4	10/9/07 1700
3		3		4		4		5		5		6	

Seal # 602
 Preserved where applicable N/A
 On Ice < 4°C



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-001**
Sample ID: J73350X-1X 07-BC-SS-01
Grab Date/Time: 10/3/2007 09:35
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

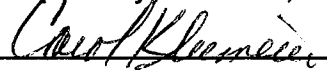
Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-1X 07-BC-SS-01
Matrix: Soil

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 14:53:00	TS
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 14:53:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 14:53:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 14:53:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 14:53:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 14:53:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 14:53:00	TS
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 14:53:00	TS

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A

Site: J73350X-2X 07-BC-SS-DUP


Matrix: Soil

Comments for Order:

UL Sample Number: **0710195-002**
Sample ID: J73350X-2X 07-BC-SS-DUP
Grab Date/Time: 10/3/2007 09:35
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 15:33:00	TS
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 15:33:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 15:33:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 15:33:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 15:33:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 15:33:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 15:33:00	TS
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 15:33:00	TS

Respectfully Submitted,



No comments



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

UL Sample Number: **0710195-003**
Sample ID: J73350X-3X 07-BC-SS-02
Grab Date/Time: 10/3/2007 10:30
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A

Site: J73350X-3X 07-BC-SS-02

Matrix: Soil

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 17:32:00	TS
2,2',5'-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 17:32:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 17:32:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 17:32:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
2,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
3,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 17:32:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS
2,2',3,3',4,4',5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 17:32:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 17:32:00	TS
2,2',3,4',5,5',6'-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 17:32:00	TS

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

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(REPORT DATE)
22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-004**
Sample ID: J73350X-3XD 07-BC-SS-MSD
Grab Date/Time: 10/3/2007 10:30
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

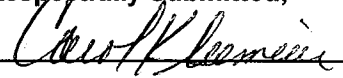
Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-3XD 07-BC-SS-MSD
Matrix: Soil

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 16:52:00	TS
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 16:52:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 16:52:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 16:52:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 16:52:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 16:52:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 16:52:00	TS
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 16:52:00	TS

No comments

Respectfully Submitted,





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20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

UL Sample Number: **0710195-005**
Sample ID: J73350X-3XS 07-BC-SS-MSD
Grab Date/Time: 10/3/2007 10:30
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A

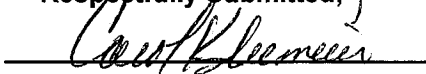
Site: J73350X-3XS 07-BC-SS-MSD

Matrix: Soil

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 18:11:00	TS
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 18:11:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 18:11:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 18:11:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 18:11:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 18:11:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 18:11:00	TS
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:11:00	TS

Respectfully Submitted,



No comments



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20 Research Drive Hampton, Va 23666

Order ID: **0710195**

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22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

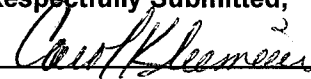
UL Sample Number: **0710195-006**
Sample ID: J73350X-4X 07-BC-SS-MS
Grab Date/Time: 10/3/2007 11:20
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-4X 07-BC-SS-MS
Matrix: Soil
Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 18:50:00	TS
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 18:50:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 18:50:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 18:50:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 18:50:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 18:50:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 18:50:00	TS
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 18:50:00	TS

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

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(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A

Site: J73350X-5X 07-BC-SS-04

Matrix: Soil

Comments for Order:

UL Sample Number: **0710195-007**
Sample ID: J73350X-5X 07-BC-SS-04
Grab Date/Time: 10/3/2007 11:45
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 20:09:00	TS
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 20:09:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 20:09:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 20:09:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 20:09:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 20:09:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 20:09:00	TS
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:09:00	TS

No comments

Respectfully Submitted,

Carol Klemeis



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)
22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-008**
Sample ID: J73350X-6X 07-BC-SS-05
Grab Date/Time: 10/3/2007 12:15
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

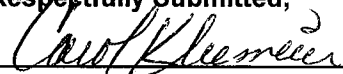
Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-6X 07-BC-SS-05
Matrix: Soil

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/Kg	2.2	10/17/2007 20:49:00	TS
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/Kg	2.4	10/17/2007 20:49:00	TS
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/Kg	1.8	10/17/2007 20:49:00	TS
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	2.7	10/17/2007 20:49:00	TS
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/Kg	2.4	10/17/2007 20:49:00	TS
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/Kg	3.2	10/17/2007 20:49:00	TS
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/Kg	2.3	10/17/2007 20:49:00	TS
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/Kg	1.6	10/17/2007 20:49:00	TS

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

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22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

UL Sample Number: **0710195-009**
Sample ID: J73350X-9XA
Grab Date/Time: 10/11/2007 09:35
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A


Site: J73350X-9XA
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',5'-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
3,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',3,3',4,4',5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM
2,2',3,4',5,5',6'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 19:22:00	VM

No comments

Respectfully Submitted,)





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-010**
Sample ID: J73350X-9XF
Grab Date/Time: 10/11/2007 09:35
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

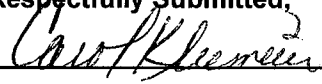
Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-9XF
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 20:02:00	VM

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-011**
Sample ID: J73350X-10XA
Grab Date/Time: 10/11/2007 09:35
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT


Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-10XA
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 20:41:00	VM

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

UL Sample Number: **0710195-012**
Sample ID: J73350X-10XF
Grab Date/Time: 10/11/2007 09:35
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A

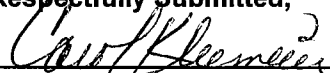
Site: J73350X-10XF
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',5'-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
3,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',3,3',4,4',5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM
2,2',3,4',5,5',6'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 21:20:00	VM

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)
22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-013**
Sample ID: J73350X-11XA
Grab Date/Time: 10/11/2007 10:30
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

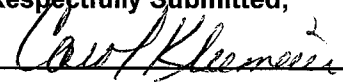
Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-11XA
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',5'-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
3,3',4,4',5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 21:59:00	VM

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-014**
Sample ID: J73350X-11XF
Grab Date/Time: 10/11/2007 10:30
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Project ID: Broad Creek J73350X
Project # N/A
Site: J73350X-11XF
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 22:38:00	VM
		low surrogate recovery , due to emulsions				

Respectfully Submitted,



No comments



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

UL Sample Number: **0710195-015**
Sample ID: J73350-12XA
Grab Date/Time: 10/11/2007 11:20
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A


Site: J73350-12XA
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/16/2007 23:57:00	VM
		low surrogate recovery , due to emulsions				

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-016**
Sample ID: J73350-12XF
Grab Date/Time: 10/11/2007 11:20
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

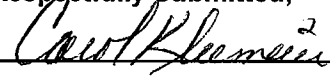
Project ID: Broad Creek J73350X
Project # N/A
Site: J73350-12XF
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 00:36:00	VM

No comments

Respectfully Submitted,





UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810
ATTN: Marty Vitanza

UL Sample Number: **0710195-017**
Sample ID: J73350-13XA
Grab Date/Time: 10/11/2007 11:45
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Project ID: Broad Creek J73350X
Project # N/A
Site: J73350-13XA
Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 01:15:00	VM

No comments

Respectfully Submitted,

Carol Kleemann



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X

Project # N/A

Site: J73350-13XF

Matrix: Surface Water

Comments for Order:

UL Sample Number: **0710195-018**
Sample ID: J73350-13XF
Grab Date/Time: 10/11/2007 11:45
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 02:34:00	VM

No comments

Respectfully Submitted,

Carl Klemer



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

ATTN: Marty Vitanza

UL Sample Number: **0710195-019**
Sample ID: J73350-14XA
Grab Date/Time: 10/11/2007 12:15
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Project ID: Broad Creek J73350X

Project # N/A

Site: J73350-14XA

Matrix: Surface Water

Comments for Order:

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 03:13:00	VM
		low surrogate recovery , due to emulsions				

No comments

Respectfully Submitted,

Carol Kleemann



UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

Order ID: **0710195**

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 695-2162
FAX: (757) 865-8014

REPORT OF ANALYSIS

(REPORT DATE)

22-Oct-07

TO: **AccuTest Laboratories**
2235 Route 130
Dayton NJ 08810

ATTN: Marty Vitanza

Project ID: Broad Creek J73350X
Project # N/A

Site: J73350X-14XF
Matrix: Surface Water

Comments for Order:

UL Sample Number: **0710195-020**
Sample ID: J73350X-14XF
Grab Date/Time: 10/11/2007 12:15
Composite Start: N/A
Composite Stop: N/A
Collected By: CLIENT

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
2,4'-Dichlorobiphenyl (BZ #8)	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',5-Trichlorobiphenyl (BZ#18)	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,4,4'-Trichlorobiphenyl (BZ#28)	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',3,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',5,5'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
3,3',4,4'-Tetrachlorobiphenyl (B)	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',4,5,5'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,3,3',4,4'-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
3,3',4,4',5-Pentachlorobiphenyl	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',3,3',4,4'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',3,4,4',5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
3,3',4,4',5,5'-Hexachlorobiphen	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',3,3',4,4',5-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',3,4,4',5,5'-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM
2,2',3,4',5,5',6-Heptachlorobiph	SW-846 8082	<	ug/L	1	10/17/2007 03:52:00	VM



CHAIN OF CUSTODY
 Fresh Ponds Corporate Village, Building B
 2235 Route 130, Dayton, NJ 08810
 908-329-0200 FAX: 908-329-3499/3480

8710195

Client Information		Facility Information		Analytical Information	
Name 2235 Route 130		Project Name Broad Creek			
Address Dayton NJ 08810		Location			
City Marty Vitanza		Project No. J73350X			
State NJ		FAX # (732) 329-3499			
Zip 08810					
Send Report to: Phone #: (732) 329-0200 X-216					
Turnaround Information		Collection		Data Deliverable Information	
<input type="checkbox"/> 21 Day Standard	Approved By:	Date	Time	Matrix	# of bottles
<input type="checkbox"/> 14 Day					
<input type="checkbox"/> 7 Days EMERGENCY					
<input checked="" type="checkbox"/> Other 21 (Days)					
21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.					
Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:
1		1 Fed X		2	
3		3		4	
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:
5	10/15/07 10:40	5		4	
Seal #		Preserved where applicable		On Ice <input checked="" type="checkbox"/> 5°C	
Comments / Remarks					

FedEx attempted but failed to deliver 10/13/07 Saturday



CHAIN OF CUSTODY
 Fresh Ponds Corporate Village, Building B
 2235 Route 130, Dayton, NJ 08810
 908-329-0200 FAX: 908-329-3499/3480

6710195
 Accutest Job #:
 Accutest Quote #:

Client Information		Facility Information		Analytical Information	
Name	2235 Route 130	Project Name	Broad Creek		
Address	Dayton NJ 08810	Location			
City	Marty Vitanza	Project No.	J73350X		
State		FAX #:	(732) 329-3499		
Zip					
Send Report to:					
Phone #:	(732) 329-0200 X-216				

Field ID / Point of Collection	Collection			Preservation				Matrix	# of bottles	Data Deliverable Information	Comments / Remarks
	Date	Time	Sampled By	HCl	NaOH	HNO3	H2SO4				
J73350X-9XA & 9XF	10/11/07	9:35	MDG						1		
2 -10XA & 10XF	10/11/07	9:35	MDG						1		PCB Congeners 8082
2 -11XA & 11XF	10/11/07	10:30	MDG						1		
2 -12XA & 12XF	10/11/07	11:20	MDG						1		
2 -13XA & 13XF	10/11/07	11:45	MDG						1		
2 -14XA & 14XF	10/11/07	12:15	MDG						1		

Turnaround Information		Data Deliverable Information	
<input type="checkbox"/> 21 Day Standard	Approved By:	<input type="checkbox"/> NJ Reduced	<input type="checkbox"/> Commercial "A"
<input type="checkbox"/> 14 Day		<input checked="" type="checkbox"/> NJ Full	<input type="checkbox"/> Commercial "B"
<input type="checkbox"/> 7 Days EMERGENCY		<input type="checkbox"/> FULL CLP	<input type="checkbox"/> State Forms
<input checked="" type="checkbox"/> Other 21 (Days)		<input type="checkbox"/> Disk Deliverable	
21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.		<input type="checkbox"/> Other (Specify)	

Relinquished by Sampler		Relinquished by Courier	
1	Date Time: 10/12/07 17:00	1	Date Time:
3	Date Time:	2	Date Time:
5	Date Time: 10/15/07	4	Date Time:

Sample Custody must be documented below each time samples change possession, including courier delivery.	
Received By:	Received By:
1	2
3	4
5M	4
10:40	Seal #
	Preserved where applicable <input type="checkbox"/>

Fed Ex attempted but failed to deliver 10/13/07