COMMITMENT & INTEGRITY
DRIVE RESULTS

41 Hutchins Drive
Portland, Maine 04102
www.woodardcurran.com

T 800.426.4262
T 207.774.2112
F 207.774.6635

MEMORANDUM

TO: Doug Roncarati, City of Portland
FROM: Zach Henderson and Dave Dinsmore
DATE: December 2, 2011
RE: Capisic Pond Sediment Sampling

Introduction

Capisic Pond (hereafter referred to as Pond) is Portland's largest freshwater body and formed by a manmade impoundment, the Capisic Pond Dam, on the Capisic Brook. The current Capisic Pond dam was built by the City of Portland during the mid-1950s as part of the West Side Interceptor Sewer project, and as part of the overflow structure of the combined sewer system. This structure was a reconstruction of and is located below the placement of the original privately owned dam, the construction period of which is unknown, but knowledge of the pond reaches as far back as the mid- to late-1800s or further. Capisic Pond has been a central part of Portland's history for many years. The original falls, near the current dam location, powered a sawmill and a gristmill established in the late 1600's and was central to the economy in early Portland (then called Falmouth). Capisic Brook, which feeds the pond, is a small stream approximately 2.5 miles in length. The Capisic Brook watershed is approximately 1,500 acres and is highly developed with a mix of residential and commercial development. The Pond receives runoff from undeveloped land, developed areas and roads and combined sewer overflows during certain rain events.

The City of Portland is currently implementing combined sewer overflow abatement activities with the goal of eliminating combined sewer discharges into the Capisic Brook within the next several years. Additionally, the City has drafted a watershed management plan to address urban area stormwater runoff impacts to both the Capisic Brook and Capisic Pond. These environmental remediation efforts in the watershed now allow the City to consider a long-term management and enhancement plan for the Pond.

Over the last three decades, the City of Portland and other entities have undertaken a number of studies and plans relevant to Capisic Pond and the adjacent park area. With the increasing public awareness and appreciation for urban natural spaces, the 18-acre Capisic Pond Park has gained increasing importance both for its walking trails and as an environment in which to experience wildlife in an otherwise urban setting. The City and project partners are now contemplating restoration and management activities consistent with previous plans, which may include removal of pond sediments under various restoration scenarios.

In order to inform the potential costs and benefits of various pond management alternatives, characterization of existing pond sediment is necessary. This memorandum is consistent with our proposal dated April 13, 2011 and includes a description of sediment sampling and analytical methods, the chemical parameters of sampled sediment, results and conclusions.

In addition, the following results were compared to previous pond sediment analysis conducted in 1996 by the Friends of Casco Bay. At that time, Normandeau Associates collected composite sediment samples at four locations (on April 25, 1996); samples were analyzed for percent solids, metals, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). There was no graphic available to enable Woodard & Curran to determine the locations from which those samples were collected.

Methods

On September 14, 2011 sediment samples were collected from four locations along the margin of the pond. The dam had been opened for four days prior to sample collection so water levels were lowered and areas of shoreline were exposed.

Sediment samples were collected from four locations, as depicted on the attached Figure 1. As indicated in the Figure, the locations cover the entire length of the pond and were selected to evaluate the distribution and variability of the chemical and physical characteristics described above. SD-01 is the furthest south of all samples locations, located on the western shore of the pond just south of Capisic Street and just north of a section of the shoreline where riprap has been recently installed. At the time of sample collection there was minimal water remaining in this part of the pond. SD-02 is situated on the eastern shoreline of the pond approximately 300 feet north of the Capisic Street crossing. SD-03 is also located on the eastern shoreline approximately 200 feet northwest of SD-02. The final sample location, SD-04, is just downstream from the Rockland Avenue stormwater discharge point at the northern end of the pond. Only one location, SD-4, was submerged during sample collection.

At each of the four locations, a 48" long by 1.5" diameter macro acetate liner tube was pushed into the sediments to maximum penetration to obtain a core sample. The liner is equipped with a core catcher on one end to retain the sediments and to prevent them from falling out of the liner upon retrieval. In order to collect representative samples and sufficient volume of material for analysis, several cores were obtained at each location. The sediment material in the liners was extracted from the liners into a glass mixing bowl. A stainless steel spoon was used to homogenize the material once all of the cores were placed into the bowl to create a composite sample. Once the material was homogenized into a composite it was transferred into labeled sample containers and put on ice in a cooler. The samples were submitted to an environmental laboratory for chemical analysis.

Sediment samples were analyzed at Katahdin Analytical Laboratories for chemical parameters including metals, dioxins, pesticides, PCBs, PAHs, extractable petroleum hydrocarbons (EPH), and phosphorous. Grain size analyses were conducted to determine physical characteristics of the sediments.

All of the sediment samples were analyzed for parameters in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods, SW-846, 2nd Edition, 1982" and compared against Maine Department of Environmental Protection (MaineDEP) limits defined for beneficial reuse and described in MaineDEP Chapter 418, Section A. The concentrations from analyses of the four samples collected during this project were compared against these specifications to evaluate the option of potential reuse of the sediment material.

The chemical and physical analytical methods that were used to characterize the sediment samples are summarized in **Table 1** below.

Table 1: Sediment Sample Analytical Summary

Parameter	Analytical Method
Pesticides	USEPA 8081
PCBs (polychlorinated biphenyls)	USEPA 8082
EPH (extractable petroleum hydrocarbons)	MA DEP EPH 04-1.1
PAHs (polycyclic aromatic hydrocarbons)	USEPA 8270C – SIMs
Metals (As, Cd, Cr, Pb, Hg)	USEPA 3050/6010, 7471 (Hg)
Hexavalent chromium	USEPA 3060
Total Phosphorous	USEPA 365.4
Dioxins	USEPA Method 1631
Grain Size Analysis	ASTM D422

Sample Results

The depth of penetration for each core and a visual physical characterization of the material were recorded and are summarized in Table 2 below.

Table 2: Core Penetration Depths and Visual Sediment Characterization Summary

Sample Location	Number of Cores	Depth of Penetration to Refusal (feet below pond bottom surface)	Physical Characteristics
SD-01	5	1.1 to 1.4	Poorly sorted medium to fine sands evenly distributed in greenish-gray clay.
SD-02	6	0.7 to 1.65	Stiff olive gray clay overlain by a loose unconsolidated layer of varying thickness (approximately 0.13 to 0.5 feet) of highly organic silt.
SD-03	9	0.5 to 0.8	Layer of organic silt (0.5) feet overlying clay.
SD-04	5	1.4 to 1.96	Hard dark brown clay containing small amounts of peat dispersed throughout and overlain by a thin layer of peat

Laboratory analyses of the sediment samples collected from Capisic Pond are summarized by chemical parameter in the following subsections. The raw data as received by the laboratory is included in Appendix A. The MaineDEP reduced procedure beneficial reuse standards are included in the following tables for comparison against the reported concentrations. For the EPH analysis, there is no current guidance from Chapter 418, so the total concentration was compared to the total petroleum hydrocarbon (TPH) standard in the Guidance on Disposal & Use of Assorted Solid Wastes Generated in Maine (rev. 4/16/2008). Sediment sample concentrations were also compared with results reported from the 1996 study conducted by Normandeau (where appropriate).

PAHs

For PAHs, results were obtained using two different methods; the selective ion monitoring (SIMs) Method 8270 and the EPH analysis. Although lower detection limits are reported with the USEPA 8270 SIMs analysis, concentrations obtained using both methods were compared against MaineDEP reuse limits and are summarized in Table 3.

As indicated in Table 3, the concentrations of all PAHs for both methods are below the beneficial reuse limits, when they are available. All PAH concentrations from the USEPA 8270 SIMs method are within the historical range of concentrations reported for the Normandeau 1996 study. For the EPH method, PAHs were not detected and are below the historical concentrations for samples collected at SD-02, SD-03, and SD-04. The highest concentrations of PAHs using both methods were detected in the sample collected from SD-01. Since the sample locations from the 1996 Normandeau study are unknown, the results cannot be compared directly with the locations selected for this study. Therefore, a range of historical concentrations are included in Table 3 for comparison.

Table 3: Summary of Analytical Results – PAHs

PAHs – USEPA 8270 and EPH Methods	1996 Study Historical Range- mg/kg	DEP Reuse mg/kg	2011 Sediment Sample Concentrations – mg/kg							
			SD-01		SD-02		SD-03		SD-04	
Compound			8270	EPH	8270	EPH	8270	EPH	8270	EPH
Naphthalene	-	-	0.20	0.37	<0.028	<0.27	<0.035	<0.33	<0.029	<0.25
2-methylnaphthalene	-	-	0.46	0.76	<0.028	<0.27	<0.035	<0.33	<0.029	<0.25
Acenaphthylene	-	-	<0.025	0.26	<0.028	<0.27	<0.035	<0.33	<0.029	<0.25
Acenaphthene	-	-	0.27	0.51	<0.028	<0.27	<0.035	<0.33	<0.029	<0.25
Fluorene	-	-	0.44	0.67	<0.028	<0.27	<0.035	<0.33	<0.029	<0.25
Phenanthrene	-	-	1.5	2.6	0.088	<0.27	0.15	<0.33	0.037	<0.25
Anthracene	-	-	0.28	0.52	<0.028	<0.27	<0.035	<0.33	<0.029	<0.25
Fluoranthene	-	-	0.76	1.7	0.21	<0.27	0.31	<0.33	0.075	<0.25
Pyrene	-	-	1.1	2.5	0.18	<0.27	0.28	<0.33	0.064	<0.25
Benzo(a)anthracene	-	2.0	0.36	0.62	0.092	<0.27	0.15	<0.33	0.034	<0.25
Chrysene	-	1.6	0.37	0.74	0.15	<0.27	0.24	<0.33	0.035	<0.25
Benzo(b)fluoranthene	-	5.0	0.34	0.48	0.24	<0.27	0.40	<0.33	0.062	<0.25
Benzo(k)fluoranthene	-	49	0.14	0.49	0.083	<0.27	0.14	<0.33	<0.029	<0.25
Benzo(a)pyrene	-	8.0	0.27	0.43	0.13	<0.27	0.20	<0.33	0.044	<0.25
Indeno(1,2,3-cd)pyrene	-	14	0.18	0.33	0.14	<0.27	0.20	<0.33	0.039	<0.25
Dibenzo(a,h)anthracene	-	2.0	0.041	<0.22	<0.028	<0.27	0.047	<0.33	<0.029	<0.25
Benzo(g,h,i)perylene	-	-	0.11	0.31	0.084	<0.27	0.13	<0.33	<0.029	<0.25
Total all PAHs	1.68 to 24.3		6.821	13.29	1.397	ND	2.247	ND	0.039	ND

ND = not detected
- = Not available
All concentrations in Table 3 are dry weight
Totals do not include non-detection values.

EPH

Although PAHs are considered to be target compounds, the primary constituents from the EPH analyses are petroleum hydrocarbons which are extracted from the sediment matrix using methylene chloride and hexane. As the name implies, the chemicals detected in this analysis are related to compounds found in petroleum products such as motor oil. The results are reported as different fractions based on the chemical structure and number of carbons contained in the extracted compounds. A summary of the petroleum hydrocarbon results are contained below in **Table 4**. Samples collected from the 1996 study were not analyzed for EPH, therefore there is no historical data against which to compare these results.

Table 4: Summary of Petroleum Hydrocarbon Results

Petroleum Hydrocarbon Fraction	DEP Standard – mg/kg	Sediment Sample Locations – mg/kg			
		SD-01	SD-02	SD-03	SD-04
Unadjusted C11-C22 Aromatics		160	<27	41	<25
C9-C18 Aliphatics		<22	<27	<33	<25
C19-C36		55	58	100	<25
C11-C22 Aromatics		150	<27	40	<25
Total TPH	500 (see description below)	365	58	181	ND

ND = not detected
- = Not available
All concentrations in Table 4 are dry weight
Totals do not include non-detection values.

As indicated from **Table 4**, petroleum hydrocarbons were not detected in the sample collected at SD-04. Concentrations were compared to the standard for TPH found in the Guidance on Disposal & Use of Assorted Solid Wastes Generated in Maine. This document, produced by the MaineDEP provides additional guidance on the disposal and characterization of solid wastes such as grit retrieved from storm sewers and car wash facilities. This document contains a maximum limit of 500 mg/kg TPH for disposal of these kinds of waste. For the sediment sample locations where TPH was detected, all total concentrations are below this limit.

PCBs

PCB analysis was performed to identify any of seven target Arochlors including Arochlor-1016, 1221, 1232, 1242, 1248, 1254, and 1260. None of these compounds were detected above detection limits in any of the four sediment samples and are therefore below DEP beneficial reuse standards. However, each of the five samples collected in the 1996 study had detections of PCBs, ranging from 0.046 to 0.29 mg/kg. The low end of the range of detections is only slightly above the detection limit of 0.031 mg/kg. The concentrations of PCBs detected in all samples from the 1996 study are below the current beneficial reuse limit of 0.74 mg/kg.

Pesticides

The pesticide analysis includes 21 target compounds that were used for pest control and their associated degradation products. Only two pesticides were detected and the results are summarized in Table 5 below.

None of these compounds were detected in the sediment sample collected at SD-04. 4,4'-DDD and 4,4'-DDE were detected in each of the other three samples at generally trace concentrations. SD-03 had the highest concentrations of these compounds. 4,4'-DDE and 4,4'-DDD are degradation products of the pesticide 4,4'-DDT. DDT was widely used in the 1950s and 1960s to control mosquitoes. As indicated in Table 5, the total concentrations of pesticides are below the DEP's reuse standard of 0.74 mg/kg.

Table 5: Summary of Pesticide Detections

Pesticide	DEP Standard – mg/kg	Sediment Sample Locations – mg/kg			
		SD-01	SD-02	SD-03	SD-04
4,4'-DDE	-	0.0076	0.0079	0.056	<0.0025
4,4'-DDD	-	0.019	0.0089	0.044	<0.0025
Total	0.74	0.0266	0.0168	0.1	ND

ND = not detected
- = Not available
All concentrations in Table 5 are dry weight
Totals do not include non-detection values.

Metals

Sediment samples from each of the four locations were also analyzed for the metals arsenic, cadmium, chromium, lead and mercury. In addition, all samples were analyzed for hexavalent chromium, a particularly toxic form of this heavy metal. The results for each of the locations are summarized in Table 6 below.

Table 6: Summary of Metals Results

Metals – Methods 6010, 7471, 3060	1996 Study Historical Range-mg/kg	DEP Reuse Standard mg/kg	Sediment Concentrations – mg/kg			
Element			SD-01	SD-02	SD-03	SD-04
Arsenic	8.45 – 16.2	29	6.6	8.5	8.4	5.8
Cadmium	Not detected	8.0	<1.0	<2.33	<1.75	<1.0
Chromium	43.6-72.9	100	33.5	60.4	37	40.7
Lead	66.6-162	800	19.7	18	51.9	26.1
Mercury	ND to 0.59	60	<0.048	<0.054	0.072	<0.052
Hexavalent Chromium	Not analyzed	38	<0.66	<0.66	<0.94	<0.72

ND = not detected
- = Not available
All concentrations in Table 6 are dry weight
Totals do not include non-detection values.

As indicated by the summarized results in Table 6, the concentrations of all elements are below the corresponding MaineDEP reuse standards. Cadmium was not detected in any of the four sediment

samples. Lead concentrations were below the historical concentrations detected in 1996 for all samples. Chromium concentrations ranged from 33.5 to 60.4 mg/kg. This is similar to the range of historical concentrations from the 1996 Normandeau study. Hexavalent chromium was not detected in any of the samples.

Phosphorus

Phosphorus is an essential nutrient for plant and animal growth in aquatic systems, however, elevated levels within pond sediments can cycle when conditions are conducive and can contribute to algae blooms. Each of the four sediment samples was analyzed for phosphorus using USEPA Method 365.1. Each of the four samples had concentrations below what is considered typical for the sediments within natural lakes and ponds (approximately 1000-2000 mg/kg). Lower concentrations indicated in these results may be explained by the integration of samples across a few feet of sediments which include both deeper "parent" sediment as well as the surficial sediments/silt that are likely to be higher in nutrients. Total phosphorus concentrations are summarized in Table 7 below.

Table 7: Total Phosphorus Results

Sample Location	Total Phosphorus – mg/kg
SD-01	530
SD-02	580
SD-03	720
SD-04	600

While concentrations of phosphorus are not regulated under beneficial reuse requirements it is important to understand the concentration of phosphorus in sediments for long-term lake management. The sampling for Total Phosphorus was included in this evaluation for use in future studies of nutrient dynamics within the Capisic Pond.

Dioxins

The four sediment samples were also analyzed for dioxins using USEPA Method 1631. Dioxin is a generic term that is applied to many individual dioxin or dioxin-like compounds that are persistent in the environment. Dioxins are produced by natural and man-made combustion processes as well as some industrial processes. Some of these compounds are considered to be non-toxic while others are considered to be toxic. The dioxin and dioxin-like compounds are currently evaluated by toxic equivalency (TEQ). The TEQ approach uses a toxic equivalency factor (TEF) to weight the individual dioxin congeners and the dioxin-like compounds. With the TEFs, the toxicity of a mixture of dioxins and dioxin-like compounds can be expressed in a single number - the toxic equivalent, TEQ. It is a single figure resulting from the product of the concentration and individual TEF values of each congener. The TEQ concept has been developed to facilitate risk assessment and regulatory control. The TEF uses 2,3,7,8-tetrachlorodibenxo-p-dioxin (TCDD) as the comparison and the other congeners and dioxin-like compounds are some fractional part of the TCDD toxicity. The individual weighted values are summed to generate a TEQ value for each sample. The beneficial reuse TEQ limit for dioxin and dioxin-like compounds is 16 pg/g. The TEQ determined from the analysis of each of the sediment samples was compared against this limit. A summary of the TEQ values are presented in **Table 8** below.

Table 8: Summary of TEQ from Dioxin Analyses

	Sediment Sample Location			
	SD-01	SD-02	SD-03	SD-04
TEQ (pg/g)	2.50	1.57	2.59	1.37

The TEQs reported use the detection limit for non-detects and are the estimated maximum possible concentrations.

As indicated from **Table 8** above, all of the sediment samples had TEQ values that were below the DEP's beneficial use standard of 16 pg/g. TCDD was not detected in any of the four samples.

Physical Characteristics

Sediment samples were analyzed for grain size. For this analysis, the sample is passed through sieves of various mesh sizes to characterize the physical composition of the sediment material. Visual observations from field personnel during sample collection were also noted and recorded. The visual observations are summarized previously in Table 1. In general the sediment material was characterized as clay overlain by a layer of highly organic silts of varying thickness with small amounts of fine and medium sand. The results from the sieve analysis results are summarized in **Table 9** below.

Table 9: Summary of Physical Characteristics

	Sediment Sample Location - % Composition			
Sediment	SD-01	SD-02	SD-03	SD-04
Gravel	0.4 %	0.0%	4.4%	0.0%
Total Sand	23.2 %	11.6%	14.7%	1.8%
Coarse Sand	1.2%	0.3%	0.7%	0.0%
Medium Sand	5.6%	2.5%	4.5%	0.1%
Fine Sand	16.4%	8.8%	9.5%	1.7%
Silt	36.6%	41.3%	44.9%	46.3%
Clay	39.8%	47.1%	36.0%	51.4%

As indicated from **Table 9**, the highest percentage of sand was found in the sample collected at SD-01. The sample location with the highest percentage of clay and silt was SD-04. The physical composition of the sediments will be taken into consideration when options are assessed for reuse of dredged material.

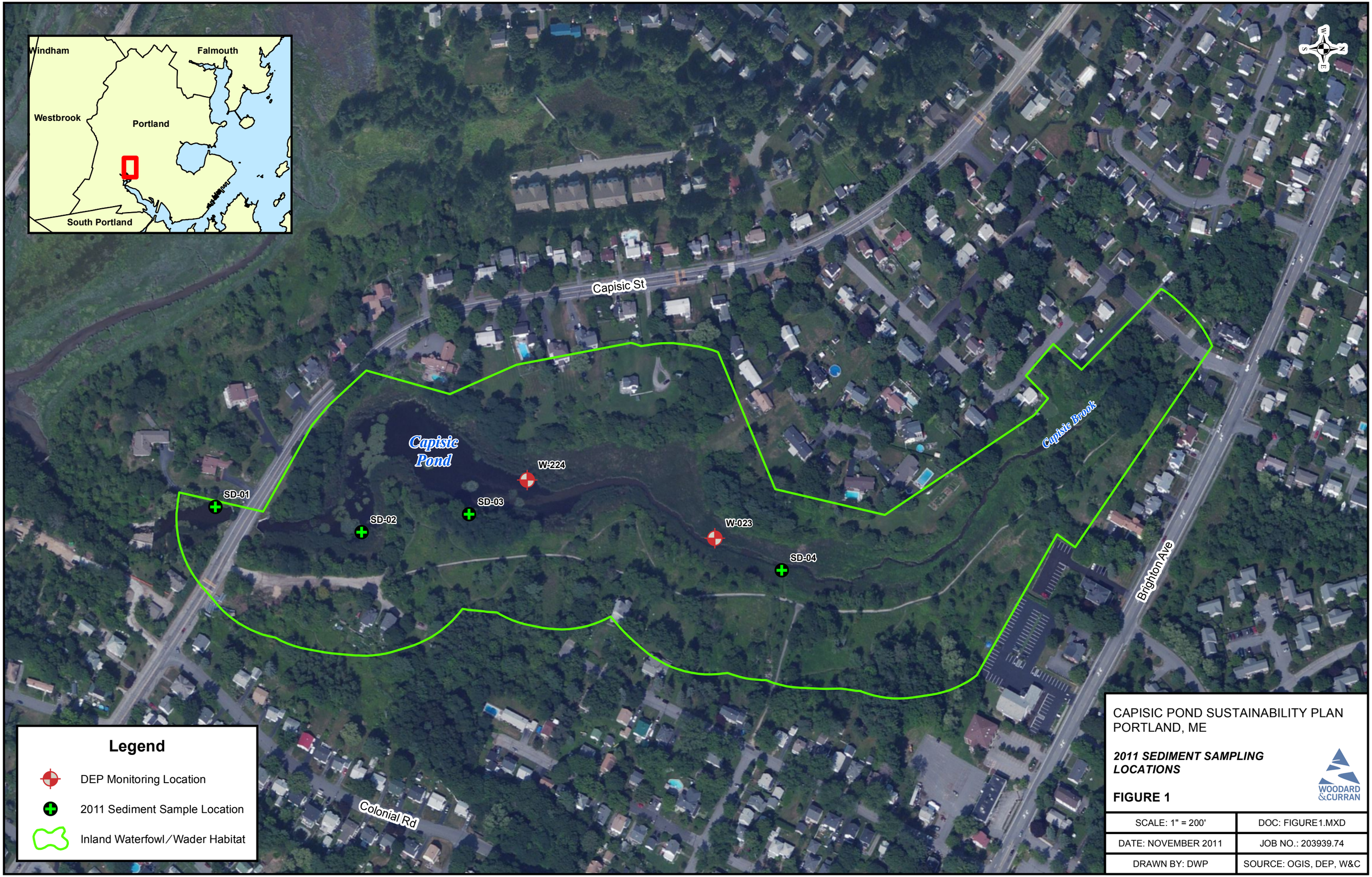
Conclusions

Sediment samples collected during the September 14, 2011 Capisic Pond study was analyzed for physical and chemical parameters in order to inform the potential reuse of this material under several future restoration scenarios. Sediments were also physically characterized for grain size to further define what purposes would be appropriate for the pond sediment material removed during restoration activities.

The concentrations from the chemical analyses were compared against MaineDEP reduced procedure beneficial reuse standards where available. The concentrations of all parameters at all sampled locations were below these standards. Concentrations of several chemical parameters were also compared against historical data from a 1996 study and while most concentrations were within the range of those from the 1996 study, a few parameters appeared to be higher in 1996 than in the sediment analysis conducted in 2011.

Although all samples had concentrations of all chemical parameters below MaineDEP reuse standards, other risk factors based on the removal methods or ultimate location selected for reuse of the sediment material will have to be considered and additional sampling and analysis may be required.

FIGURE



CAPISIC POND SUSTAINABILITY PLAN
PORTLAND, ME

2011 SEDIMENT SAMPLING LOCATIONS

FIGURE 1

WOODARD & CURRAN

SCALE: 1" = 200'	DOC: FIGURE1.MXD
DATE: NOVEMBER 2011	JOB NO.: 203939.74
DRAWN BY: DWP	SOURCE: OGIS, DEP, W&C

SITE PHOTOGRAPHS

Sampling Location SD-01

Sampling Location SD-02

Sampling Location SD-03

Sampling Location SD-04

APPENDIX A

Katahdin ANALYTICAL SERVICES

nelac Cert. No. E87604

October 17, 2011

Mr. Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

RE: Katahdin Lab Number: SE5823
Project ID: Capisic Pond / 203939
Project Manager: Ms. Kelly Perkins
Sample Receipt Date(s): September 14, 2011

Dear Mr. Henderson:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Laboratory results from subcontracted analysis (es)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert.html for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Deborah J Nadeau
Authorized Signature

10/17/2011
Date

TECHNICAL NARRATIVE

Organics Analysis

The samples of Work Order SE5823 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8081 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

There were no other protocol deviations or observations noted by the organics laboratory staff.

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS
(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H1 Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H2 Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H3 Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H4 Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

KATAHDIN ANALYTICAL SERVICES
Combined Dilution Form 1

Client: Woodard & Curran
Project: Capisic Pond/203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/19/11
Analysis Date: 27-SEP-2011 16:24
Report Date: 10/06/2011
Matrix: SOIL
% Solids: 75.1

Lab ID: SE5823-1DL
Client ID: SD-01
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3550
Analyst: WAS
Analysis Method: SW846 M8270C SIM
Lab Prep Batch: WG97583
Units: ug/Kgdrywt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL
91-20-3	Naphthalene		200	1.0	20	25
91-57-6	2-Methylnaphthalene		460	5.0	20	120
208-96-8	Acenaphthylene	U	25	1.0	20	25
83-32-9	Acenaphthene		270	1.0	20	25
86-73-7	Fluorene		440	5.0	20	120
85-01-8	Phenanthrene		1500	5.0	20	120
120-12-7	Anthracene		280	1.0	20	25
206-44-0	Fluoranthene		760	5.0	20	120
129-00-0	Pyrene		1100	5.0	20	120
56-55-3	Benzo(a)anthracene		360	5.0	20	120
218-01-9	Chrysene		370	5.0	20	120
205-99-2	Benzo(b)fluoranthene		340	5.0	20	120
207-08-9	Benzo(k)fluoranthene		140	1.0	20	25
50-32-8	Benzo(a)pyrene		270	1.0	20	25
193-39-5	Indeno(1,2,3-cd)pyrene		180	1.0	20	25
53-70-3	Dibenzo(a,h)anthracene		41	1.0	20	25
191-24-2	Benzo(g,h,i)perylene		110	1.0	20	25
321-60-8	2-Methylnaphthalene-D10		46%			
118-79-6	Fluorene-D10		41%			
1718-51-0	Pyrene-D10		56%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond/ 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 22-SEP-2011 00:15
Report Date: 10/04/2011
Matrix: SOIL
% Solids: 75.1

Lab ID: SE5823-1
Client ID: SD-01
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: CB
Analysis Method: SW846 8082
Lab Prep Batch: WG97401
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	22	1.0	17	22
Aroclor-1221	U	22	1.0	17	22
Aroclor-1232	U	22	1.0	17	22
Aroclor-1242	U	22	1.0	17	22
Aroclor-1248	U	22	1.0	17	22
Aroclor-1254	U	22	1.0	17	22
Aroclor-1260	U	22	1.0	17	22
Tetrachloro-m-xylene		60%			
Decachlorobiphenyl		73%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond / 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 23-SEP-2011 14:48
Report Date: 10/12/2011
Matrix: SOIL
% Solids: 75.1

Lab ID: SE5823-1
Client ID: SD-01
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: EKC
Analysis Method: SW846 8081A
Lab Prep Batch: WG97400
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
alpha-BHC	U	2.2	1.0	1.7	2.2
gamma-BHC	U	2.2	1.0	1.7	2.2
Heptachlor	U	2.2	1.0	1.7	2.2
Aldrin	U	2.2	1.0	1.7	2.2
beta-BHC	U	2.2	1.0	1.7	2.2
delta-BHC	U	2.2	1.0	1.7	2.2
Heptachlor Epoxide	U	2.2	1.0	1.7	2.2
Endosulfan I	U	2.2	1.0	1.7	2.2
gamma-Chlordane	U	2.2	1.0	1.7	2.2
alpha-Chlordane	U	2.2	1.0	1.7	2.2
4,4'-DDE		7.6	1.0	3.3	4.2
Dieldrin	U	4.2	1.0	3.3	4.2
Endrin	U	4.2	1.0	3.3	4.2
4,4'-DDD		19	1.0	3.3	4.2
Endosulfan II	U	4.2	1.0	3.3	4.2
4,4'-DDT	U	4.2	1.0	3.3	4.2
Endrin Aldehyde	U	4.2	1.0	3.3	4.2
Endosulfan sulfate	U	4.2	1.0	3.3	4.2
Methoxychlor	U	22	1.0	17	22
Endrin Ketone	U	4.2	1.0	3.3	4.2
Toxaphene	U	42	1.0	33	42
Tetrachloro-m-Xylene		72%			
Decachlorobiphenyl		84%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SE5823
Client Sample ID:	SD-01	**Date Collected:**	14-SEP-11
KAS Sample ID:	SE5823-1	**Date Received:**	14-SEP-11
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	20-SEP-11
Prep Method:	SW846 3540	**Date Reported:**	04-OCT-11
Matrix:	SL	**Percent Solids:**	75.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	160	22	mg/Kgdrywt	1	23-SEP-11	
C9-C18 Aliphatics	22	22	mg/Kgdrywt	1	23-SEP-11	U
C19-C36 Aliphatics	55	22	mg/Kgdrywt	1	23-SEP-11	
C11-C22 Aromatics	150	22	mg/Kgdrywt	1	23-SEP-11	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.37	.22	mg/Kgdrywt	1	23-SEP-11	
2-Methylnaphthalene	0.76	.22	mg/Kgdrywt	1	23-SEP-11	
Phenanthrene	2.6	.22	mg/Kgdrywt	1	23-SEP-11	
Acenaphthylene	0.26	.22	mg/Kgdrywt	1	23-SEP-11	
Acenaphthene	0.51	.22	mg/Kgdrywt	1	23-SEP-11	
Anthracene	0.52	.22	mg/Kgdrywt	1	23-SEP-11	
Benzo(a)anthracene	0.62	.22	mg/Kgdrywt	1	23-SEP-11	
Benzo(a)pyrene	0.43	.22	mg/Kgdrywt	1	23-SEP-11	
Benzo(b)fluoranthene	0.48	.22	mg/Kgdrywt	1	23-SEP-11	
Benzo(g,h,i)perylene	0.31	.22	mg/Kgdrywt	1	23-SEP-11	
Benzo(k)fluoranthene	0.49	.22	mg/Kgdrywt	1	23-SEP-11	
Chrysene	0.74	.22	mg/Kgdrywt	1	23-SEP-11	
Dibenzo(a,h)anthracene	0.22	.22	mg/Kgdrywt	1	23-SEP-11	U
Fluoranthene	1.7	.22	mg/Kgdrywt	1	23-SEP-11	
Fluorene	0.67	.22	mg/Kgdrywt	1	23-SEP-11	
Indeno(1,2,3-cd)pyrene	0.33	.22	mg/Kgdrywt	1	23-SEP-11	
Pyrene	2.5	.22	mg/Kgdrywt	1	23-SEP-11	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	93	40-140	23-SEP-11	
o-Terphenyl	84	40-140	23-SEP-11	
2-Fluorobiphenyl	70	40-140	23-SEP-11	
2-Bromonaphthalene	75	40-140	23-SEP-11	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SE5823-001
Report Date: 10/5/2011
PO No.:
Project: Capisic Pond / 203939

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SD-01	SL	75.1	09/14/2011	09/14/2011

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	6.6	mg/Kgdrywt	0.8	1	0.8	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
CADMIUM	U 1.00	mg/Kgdrywt	1.00	1	1	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
CHROMIUM	33.5	mg/Kgdrywt	1.50	1	1.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
LEAD	19.7	mg/Kgdrywt	0.5	1	0.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
MERCURY	U 0.048	ug/gdrywt	0.048	1	0.04	SW846 7471	9/28/11	NAT	SW846 7471	9/26/11	NAT	BI26HGS1	1

1 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SE5823-1
Report Date: 03-OCT-11
Client PO:
Project: Capisic Pond / 203939
SDG: SE5823

Sample Description	Matrix	Date Sampled	Date Received
SD-01	SL	14-SEP-11	14-SEP-11

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Chromium, Hexavalent	U0.66 mg/Kgdrywt	0.66	0.20	SW846 7196A	WG98085	22-SEP-11 10:45:00	SW846 3060A	21-SEP-11	CT	
Phosphorus, Total As P	530 mg/Kgdrywt	34.	8.8	EPA 365.4	WG97751	20-SEP-11 15:19:52	EPA 365.4	19-SEP-11	CT	
Total Solids	75. %	1		SM2540G	WG97657	21-SEP-11 09:15:00	ASTM D2216	20-SEP-11	RO	

Katahdin Analytical Services SE5823 page 0000010 of 0000108

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond/203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/19/11
Analysis Date: 25-SEP-2011 13:37
Report Date: 10/06/2011
Matrix: SOIL
% Solids: 68.1

Lab ID: SE5823-2
Client ID: SD-02
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3550
Analyst: WAS
Analysis Method: SW846 M8270C SIM
Lab Prep Batch: WG97583
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Naphthalene	U	28	1.0	20	28
2-Methylnaphthalene	U	28	1.0	20	28
Acenaphthylene	U	28	1.0	20	28
Acenaphthene	U	28	1.0	20	28
Fluorene	U	28	1.0	20	28
Phenanthrene		88	1.0	20	28
Anthracene	U	28	1.0	20	28
Fluoranthene		210	1.0	20	28
Pyrene		180	1.0	20	28
Benzo(a)anthracene		92	1.0	20	28
Chrysene		150	1.0	20	28
Benzo(b)fluoranthene		240	1.0	20	28
Benzo(k)fluoranthene		83	1.0	20	28
Benzo(a)pyrene		130	1.0	20	28
Indeno(1,2,3-cd)pyrene		140	1.0	20	28
Dibenzo(a,h)anthracene	U	28	1.0	20	28
Benzo(g,h,i)perylene		84	1.0	20	28
2-Methylnaphthalene-D10		37%			
Fluorene-D10		36%			
Pyrene-D10		51%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond/ 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 22-SEP-2011 00:36
Report Date: 10/04/2011
Matrix: SOIL
% Solids: 68.1

Lab ID: SE5823-2
Client ID: SD-02
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: CB
Analysis Method: SW846 8082
Lab Prep Batch: WG97401
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	23	1.0	17	23
Aroclor-1221	U	23	1.0	17	23
Aroclor-1232	U	23	1.0	17	23
Aroclor-1242	U	23	1.0	17	23
Aroclor-1248	U	23	1.0	17	23
Aroclor-1254	U	23	1.0	17	23
Aroclor-1260	U	23	1.0	17	23
Tetrachloro-m-xylene		92%			
Decachlorobiphenyl		83%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond / 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 23-SEP-2011 15:08
Report Date: 10/11/2011
Matrix: SOIL
% Solids: 68.1

Lab ID: SE5823-2
Client ID: SD-02
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: EKC
Analysis Method: SW846 8081A
Lab Prep Batch: WG97400
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
alpha-BHC	U	2.3	1.0	1.7	2.3
gamma-BHC	U	2.3	1.0	1.7	2.3
Heptachlor	U	2.3	1.0	1.7	2.3
Aldrin	U	2.3	1.0	1.7	2.3
beta-BHC	U	2.3	1.0	1.7	2.3
delta-BHC	U	2.3	1.0	1.7	2.3
Heptachlor Epoxide	U	2.3	1.0	1.7	2.3
Endosulfan I	U	2.3	1.0	1.7	2.3
gamma-Chlordane	U	2.3	1.0	1.7	2.3
alpha-Chlordane	U	2.3	1.0	1.7	2.3
4,4'-DDE		7.9	1.0	3.3	4.4
Dieldrin	U	4.4	1.0	3.3	4.4
Endrin	U	4.4	1.0	3.3	4.4
4,4'-DDD		8.9	1.0	3.3	4.4
Endosulfan II	U	4.4	1.0	3.3	4.4
4,4'-DDT	U	4.4	1.0	3.3	4.4
Endrin Aldehyde	U	4.4	1.0	3.3	4.4
Endosulfan sulfate	U	4.4	1.0	3.3	4.4
Methoxychlor	U	23	1.0	17	23
Endrin Ketone	U	4.4	1.0	3.3	4.4
Toxaphene	U	44	1.0	33	44
Tetrachloro-m-Xylene		87%			
Decachlorobiphenyl		94%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SE5823
Client Sample ID:	SD-02	**Date Collected:**	14-SEP-11
KAS Sample ID:	SE5823-2	**Date Received:**	14-SEP-11
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	20-SEP-11
Prep Method:	SW846 3540	**Date Reported:**	04-OCT-11
Matrix:	SL	**Percent Solids:**	68.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	27	27	mg/Kgdrywt	1	23-SEP-11	U
C9-C18 Aliphatics	27	27	mg/Kgdrywt	1	23-SEP-11	U
C19-C36 Aliphatics	58	27	mg/Kgdrywt	1	23-SEP-11	
C11-C22 Aromatics	27.	27	mg/Kgdrywt	1	23-SEP-11	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
2-Methylnaphthalene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Phenanthrene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Acenaphthylene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Acenaphthene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Anthracene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Benzo(a)anthracene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Benzo(a)pyrene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Benzo(b)fluoranthene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Benzo(g,h,i)perylene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Benzo(k)fluoranthene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Chrysene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Dibenzo(a,h)anthracene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Fluoranthene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Fluorene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Indeno(1,2,3-cd)pyrene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U
Pyrene	0.27	.27	mg/Kgdrywt	1	23-SEP-11	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	101	40-140	23-SEP-11	
o-Terphenyl	75	40-140	23-SEP-11	
2-Fluorobiphenyl	72	40-140	23-SEP-11	
2-Bromonaphthalene	73	40-140	23-SEP-11	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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sales@katahdinlab.com

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SE5823-002
Report Date: 10/5/2011
PO No.:
Project: Capisic Pond / 203939

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SD-02	SL	68.1	09/14/2011	09/14/2011

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	8.6	mg/Kgdrywt	2.	2	0.8	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
CADMIUM	U 2.33	mg/Kgdrywt	2.33	2	1	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	1
CHROMIUM	60.4	mg/Kgdrywt	3.50	2	1.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
LEAD	18.	mg/Kgdrywt	1.	2	0.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
MERCURY	U 0.054	ug/gdrywt	0.054	1	0.04	SW846 7471	9/28/11	NAT	SW846 7471	9/26/11	NAT	BI26HGS1	1

1 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SE5823-2
Report Date: 03-OCT-11
Client PO:
Project: Capisic Pond / 203939
SDG: SE5823

Sample Description	Matrix	Date Sampled	Date Received
SD-02	SL	14-SEP-11	14-SEP-11

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Chromium, Hexavalent	U0.66 mg/Kgdrywt	0.66	0.20	SW846 7196A	WG98085	22-SEP-11 10:51:00	SW846 3060A	21-SEP-11	CT	
Phosphorus, Total As P	580 mg/Kgdrywt	35.	9.1	EPA 365.4	WG97751	20-SEP-11 15:20:49	EPA 365.4	19-SEP-11	CT	
Total Solids	68. %	1		SM2540G	WG97657	21-SEP-11 09:16:00	ASTM D2216	20-SEP-11	RO	

Katahdin Analytical Services SE5823 page 0000016 of 0000108

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond/203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/19/11
Analysis Date: 25-SEP-2011 14:19
Report Date: 10/06/2011
Matrix: SOIL
% Solids: 52.8

Lab ID: SE5823-3
Client ID: SD-03
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3550
Analyst: WAS
Analysis Method: SW846 M8270C SIM
Lab Prep Batch: WG97583
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Naphthalene	U	35	1.0	20	35
2-Methylnaphthalene	U	35	1.0	20	35
Acenaphthylene	U	35	1.0	20	35
Acenaphthene	U	35	1.0	20	35
Fluorene	U	35	1.0	20	35
Phenanthrene		150	1.0	20	35
Anthracene	U	35	1.0	20	35
Fluoranthene		310	1.0	20	35
Pyrene		280	1.0	20	35
Benzo(a)anthracene		150	1.0	20	35
Chrysene		240	1.0	20	35
Benzo(b)fluoranthene		400	1.0	20	35
Benzo(k)fluoranthene		140	1.0	20	35
Benzo(a)pyrene		200	1.0	20	35
Indeno(1,2,3-cd)pyrene		200	1.0	20	35
Dibenzo(a,h)anthracene		47	1.0	20	35
Benzo(g,h,i)perylene		130	1.0	20	35
2-Methylnaphthalene-D10		55%			
Fluorene-D10		43%			
Pyrene-D10		60%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond/ 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 22-SEP-2011 00:58
Report Date: 10/04/2011
Matrix: SOIL
% Solids: 52.8

Lab ID: SE5823-3
Client ID: SD-03
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: CB
Analysis Method: SW846 8082
Lab Prep Batch: WG97401
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	31	1.0	17	31
Aroclor-1221	U	31	1.0	17	31
Aroclor-1232	U	31	1.0	17	31
Aroclor-1242	U	31	1.0	17	31
Aroclor-1248	U	31	1.0	17	31
Aroclor-1254	U	31	1.0	17	31
Aroclor-1260	U	31	1.0	17	31
Tetrachloro-m-xylene		88%			
Decachlorobiphenyl		82%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond / 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 23-SEP-2011 15:27
Report Date: 10/12/2011
Matrix: SOIL
% Solids: 52.8

Lab ID: SE5823-3
Client ID: SD-03
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: EKC
Analysis Method: SW846 8081A
Lab Prep Batch: WG97400
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
alpha-BHC	U	3.1	1.0	1.7	3.1
gamma-BHC	U	3.1	1.0	1.7	3.1
Heptachlor	U	3.1	1.0	1.7	3.1
Aldrin	U	3.1	1.0	1.7	3.1
beta-BHC	U	3.1	1.0	1.7	3.1
delta-BHC	U	3.1	1.0	1.7	3.1
Heptachlor Epoxide	U	3.1	1.0	1.7	3.1
Endosulfan I	U	3.1	1.0	1.7	3.1
gamma-Chlordane	U	3.1	1.0	1.7	3.1
alpha-Chlordane	U	3.1	1.0	1.7	3.1
4,4'-DDE		44	1.0	3.3	6.1
Dieldrin	U	6.1	1.0	3.3	6.1
Endrin	U	6.1	1.0	3.3	6.1
4,4'-DDD		56	1.0	3.3	6.1
Endosulfan II	U	6.1	1.0	3.3	6.1
4,4'-DDT	U	6.1	1.0	3.3	6.1
Endrin Aldehyde	U	6.1	1.0	3.3	6.1
Endosulfan sulfate	U	6.1	1.0	3.3	6.1
Methoxychlor	U	31	1.0	17	31
Endrin Ketone	U	6.1	1.0	3.3	6.1
Toxaphene	U	61	1.0	33	61
Tetrachloro-m-Xylene		75%			
Decachlorobiphenyl		89%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SE5823
Client Sample ID:	SD-03	**Date Collected:**	14-SEP-11
KAS Sample ID:	SE5823-3	**Date Received:**	14-SEP-11
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	20-SEP-11
Prep Method:	SW846 3540	**Date Reported:**	04-OCT-11
Matrix:	SL	**Percent Solids:**	53.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	41	33	mg/Kgdrywt	1	23-SEP-11	
C9-C18 Aliphatics	33	33	mg/Kgdrywt	1	23-SEP-11	U
C19-C36 Aliphatics	100	33	mg/Kgdrywt	1	23-SEP-11	
C11-C22 Aromatics	40.	33	mg/Kgdrywt	1	23-SEP-11	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
2-Methylnaphthalene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Phenanthrene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Acenaphthylene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Acenaphthene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Anthracene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Benzo(a)anthracene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Benzo(a)pyrene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Benzo(b)fluoranthene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Benzo(g,h,i)perylene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Benzo(k)fluoranthene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Chrysene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Dibenzo(a,h)anthracene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Fluoranthene	0.38	.33	mg/Kgdrywt	1	23-SEP-11	
Fluorene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Indeno(1,2,3-cd)pyrene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U
Pyrene	0.33	.33	mg/Kgdrywt	1	23-SEP-11	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	100	40-140	23-SEP-11	
o-Terphenyl	77	40-140	23-SEP-11	
2-Fluorobiphenyl	69	40-140	23-SEP-11	
2-Bromonaphthalene	71	40-140	23-SEP-11	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SE5823-003
Report Date: 10/5/2011
PO No.:
Project: Capisic Pond / 203939

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SD-03	SL	52.8	09/14/2011	09/14/2011

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	8.4	mg/Kgdrywt	1.	1	0.8	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
CADMIUM	U 1.75	mg/Kgdrywt	1.75	1	1	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	1
CHROMIUM	37.0	mg/Kgdrywt	2.63	1	1.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
LEAD	51.9	mg/Kgdrywt	0.9	1	0.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
MERCURY	0.072	ug/gdrywt	0.069	1	0.04	SW846 7471	9/28/11	NAT	SW846 7471	9/26/11	NAT	BI26HGS1	

1 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

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ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SE5823-3
Report Date: 03-OCT-11
Client PO:
Project: Capisic Pond / 203939
SDG: SE5823

Sample Description	Matrix	Date Sampled	Date Received
SD-03	SL	14-SEP-11	14-SEP-11

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Chromium, Hexavalent	U0.94 mg/Kgdrywt	0.94	0.29	SW846 7196A	WG98085	22-SEP-11 10:52:00	SW846 3060A	21-SEP-11	CT	
Phosphorus, Total As P	720 mg/Kgdrywt	62.	16.	EPA 365.4	WG97751	20-SEP-11 15:21:46	EPA 365.4	19-SEP-11	CT	
Total Solids	53. %	1		SM2540G	WG97657	21-SEP-11 09:17:00	ASTM D2216	20-SEP-11	RO	

Katahdin Analytical Services SE5823 page 0000022 of 0000108

680 Technology Way
P.O. Box 540, Scarborough, ME 04070

http://katahdinlab.com
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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond/203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/19/11
Analysis Date: 25-SEP-2011 15:01
Report Date: 10/06/2011
Matrix: SOIL
% Solids: 67.4

Lab ID: SE5823-4
Client ID: SD-04
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3550
Analyst: WAS
Analysis Method: SW846 M8270C SIM
Lab Prep Batch: WG97583
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Naphthalene	U	29	1.0	20	29
2-Methylnaphthalene	U	29	1.0	20	29
Acenaphthylene	U	29	1.0	20	29
Acenaphthene	U	29	1.0	20	29
Fluorene	U	29	1.0	20	29
Phenanthrene		37	1.0	20	29
Anthracene	U	29	1.0	20	29
Fluoranthene		75	1.0	20	29
Pyrene		64	1.0	20	29
Benzo(a)anthracene		34	1.0	20	29
Chrysene		35	1.0	20	29
Benzo(b)fluoranthene		62	1.0	20	29
Benzo(k)fluoranthene	U	29	1.0	20	29
Benzo(a)pyrene		44	1.0	20	29
Indeno(1,2,3-cd)pyrene		39	1.0	20	29
Dibenzo(a,h)anthracene	U	29	1.0	20	29
Benzo(g,h,i)perylene	U	29	1.0	20	29
2-Methylnaphthalene-D10		52%			
Fluorene-D10		44%			
Pyrene-D10		64%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond/ 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 22-SEP-2011 01:19
Report Date: 10/04/2011
Matrix: SOIL
% Solids: 67.4

Lab ID: SE5823-4
Client ID: SD-04
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: CB
Analysis Method: SW846 8082
Lab Prep Batch: WG97401
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	25	1.0	17	25
Aroclor-1221	U	25	1.0	17	25
Aroclor-1232	U	25	1.0	17	25
Aroclor-1242	U	25	1.0	17	25
Aroclor-1248	U	25	1.0	17	25
Aroclor-1254	U	25	1.0	17	25
Aroclor-1260	U	25	1.0	17	25
Tetrachloro-m-xylene		88%			
Decachlorobiphenyl		72%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Capisic Pond / 203939
PO No:
Sample Date: 09/14/11
Received Date: 09/14/11
Extraction Date: 09/15/11
Analysis Date: 23-SEP-2011 15:47
Report Date: 10/11/2011
Matrix: SOIL
% Solids: 67.4

Lab ID: SE5823-4
Client ID: SD-04
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: EKC
Analysis Method: SW846 8081A
Lab Prep Batch: WG97400
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
alpha-BHC	U	2.5	1.0	1.7	2.5
gamma-BHC	U	2.5	1.0	1.7	2.5
Heptachlor	U	2.5	1.0	1.7	2.5
Aldrin	U	2.5	1.0	1.7	2.5
beta-BHC	U	2.5	1.0	1.7	2.5
delta-BHC	U	2.5	1.0	1.7	2.5
Heptachlor Epoxide	U	2.5	1.0	1.7	2.5
Endosulfan I	U	2.5	1.0	1.7	2.5
gamma-Chlordane	U	2.5	1.0	1.7	2.5
alpha-Chlordane	U	2.5	1.0	1.7	2.5
4,4'-DDE	U	4.8	1.0	3.3	4.8
Dieldrin	U	4.8	1.0	3.3	4.8
Endrin	U	4.8	1.0	3.3	4.8
4,4'-DDD	U	4.8	1.0	3.3	4.8
Endosulfan II	U	4.8	1.0	3.3	4.8
4,4'-DDT	U	4.8	1.0	3.3	4.8
Endrin Aldehyde	U	4.8	1.0	3.3	4.8
Endosulfan sulfate	U	4.8	1.0	3.3	4.8
Methoxychlor	U	25	1.0	17	25
Endrin Ketone	U	4.8	1.0	3.3	4.8
Toxaphene	U	48	1.0	33	48
Tetrachloro-m-Xylene		74%			
Decachlorobiphenyl		86%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SE5823
Client Sample ID:	SD-04	**Date Collected:**	14-SEP-11
KAS Sample ID:	SE5823-4	**Date Received:**	14-SEP-11
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	20-SEP-11
Prep Method:	SW846 3540	**Date Reported:**	04-OCT-11
Matrix:	SL	**Percent Solids:**	67.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	25	25	mg/Kgdrywt	1	23-SEP-11	U
C9-C18 Aliphatics	25	25	mg/Kgdrywt	1	23-SEP-11	U
C19-C36 Aliphatics	25	25	mg/Kgdrywt	1	23-SEP-11	U
C11-C22 Aromatics	25.	25	mg/Kgdrywt	1	23-SEP-11	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
2-Methylnaphthalene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Phenanthrene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Acenaphthylene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Acenaphthene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Anthracene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Benzo(a)anthracene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Benzo(a)pyrene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Benzo(b)fluoranthene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Benzo(g,h,i)perylene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Benzo(k)fluoranthene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Chrysene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Dibenzo(a,h)anthracene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Fluoranthene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Fluorene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Indeno(1,2,3-cd)pyrene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U
Pyrene	0.25	.25	mg/Kgdrywt	1	23-SEP-11	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	97	40-140	23-SEP-11	
o-Terphenyl	80	40-140	23-SEP-11	
2-Fluorobiphenyl	79	40-140	23-SEP-11	
2-Bromonaphthalene	80	40-140	23-SEP-11	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

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P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SE5823-004
Report Date: 10/5/2011
PO No.:
Project: Capisic Pond / 203939

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SD-04	SL	67.4	09/14/2011	09/14/2011

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
ARSENIC	5.8	mg/Kgdrywt	0.8	1	0.8	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
CADMIUM	U 1.00	mg/Kgdrywt	1.00	1	1	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
CHROMIUM	40.7	mg/Kgdrywt	1.50	1	1.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
LEAD	26.1	mg/Kgdrywt	0.5	1	0.5	SW846 6010	9/22/11	EAM	SW846 3050	9/21/11	NAT	BI21ICS1	
MERCURY	U 0.052	ug/gdrywt	0.052	1	0.04	SW846 7471	9/28/11	NAT	SW846 7471	9/26/11	NAT	BI26HGS1	1

1 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects,sample volume, or quantity used for analysis.

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ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Zach Henderson
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SE5823-4
Report Date: 03-OCT-11
Client PO:
Project: Capisic Pond / 203939
SDG: SE5823

Sample Description	Matrix	Date Sampled	Date Received
SD-04	SL	14-SEP-11	14-SEP-11

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Chromium, Hexavalent	U0.72 mg/Kgdrywt	0.72	0.22	SW846 7196A	WG98085	22-SEP-11 10:53:00	SW846 3060A	21-SEP-11	CT	
Phosphorus, Total As P	600 mg/Kgdrywt	48.	12.	EPA 365.4	WG97751	20-SEP-11 15:22:43	EPA 365.4	19-SEP-11	CT	
Total Solids	67. %	1		SM2540G	WG97657	21-SEP-11 09:18:00	ASTM D2216	20-SEP-11	RO	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070

http://katahdinlab.com
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FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG97583-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CAPISIC POND/203939 SDG No.: SE5823

Lab File ID: N1683 Lab Sample ID: WG97583-1

Instrument ID: GCMS-N Date Extracted: 09/19/11

Matrix: (soil/water) SOIL Date Analyzed: 09/25/11

Level:(low/med) LOW Time Analyzed: 1047

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG97583-LCS	WG97583-2	N1684	09/25/11	1129
02	WG97583-LCSD	WG97583-3	N1685	09/25/11	1212
03	SD-01	SE5823-1	N1686	09/25/11	1254
04	SD-02	SE5823-2	N1687	09/25/11	1337
05	SD-03	SE5823-3	N1688	09/25/11	1419
06	SD-04	SE5823-4	N1689	09/25/11	1501
07	SD-01	SE5823-1DL	N1722	09/27/11	1624
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
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22					
23					
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28					
29					
30					

COMMENTS:

FORM IVSV

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Capisic Pond/203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/19/11
Analysis Date: 25-SEP-2011 10:47
Report Date: 10/06/2011
Matrix: SOIL
% Solids: 100

Lab ID: WG97583-1
Client ID: WG97583-Blank
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3550
Analyst: WAS
Analysis Method: SW846 M8270C SIM
Lab Prep Batch: WG97583
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Naphthalene	U	20	1.0	20	20
2-Methylnaphthalene	U	20	1.0	20	20
Acenaphthylene	U	20	1.0	20	20
Acenaphthene	U	20	1.0	20	20
Fluorene	U	20	1.0	20	20
Phenanthrene	U	20	1.0	20	20
Anthracene	U	20	1.0	20	20
Fluoranthene	U	20	1.0	20	20
Pyrene	U	20	1.0	20	20
Benzo(a)anthracene	U	20	1.0	20	20
Chrysene	U	20	1.0	20	20
Benzo(b)fluoranthene	U	20	1.0	20	20
Benzo(k)fluoranthene	U	20	1.0	20	20
Benzo(a)pyrene	U	20	1.0	20	20
Indeno(1,2,3-cd)pyrene	U	20	1.0	20	20
Dibenzo(a,h)anthracene	U	20	1.0	20	20
Benzo(g,h,i)perylene	U	20	1.0	20	20
2-Methylnaphthalene-D10		52%			
Fluorene-D10		47%			
Pyrene-D10		60%			

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Capisic Pond/203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/19/11
Analysis Date: 09/25/11
Report Date: 10/06/2011
Matrix: SOIL

Lab ID: WG97583-2 & WG97583-3
Client ID: WG97583-LCS & WG97583-LCSD
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3550
Analyst: WAS
Analysis Method: SW846 M8270C SIM
Lab Prep Batch: WG97583
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	67	67	NA	41	49	62	73	16	50	10-129
2-Methylnaphthalene	67	67	NA	45	52	67	78	15	50	10-152
Acenaphthylene	67	67	NA	41	48	62	71	14	50	25- 94
Acenaphthene	67	67	NA	40	46	60	68	13	50	33- 98
Fluorene	67	67	NA	40	45	60	67	10	50	40- 92
Phenanthrene	67	67	NA	46	49	69	74	7	50	46- 96
Anthracene	67	67	NA	43	46	65	68	5	50	34- 96
Fluoranthene	67	67	NA	56	56	84	84	0.7	50	38-116
Pyrene	67	67	NA	38	43	58	65	12	50	35-111
Benzo(a)anthracene	67	67	NA	48	49	72	74	2	50	48-100
Chrysene	67	67	NA	48	50	72	75	4	30	46-101
Benzo(b)fluoranthene	67	67	NA	58	56	86	84	3	50	53-100
Benzo(k)fluoranthene	67	67	NA	46	46	68	68	0.2	50	49- 96
Benzo(a)pyrene	67	67	NA	58	49	87	73	17	50	61-101
Indeno(1,2,3-cd)pyrene	67	67	NA	51	53	76	80	5	50	50-105
Dibenzo(a,h)anthracene	67	67	NA	55	58	82	87	6	50	55-105
Benzo(g,h,i)perylene	67	67	NA	43	45	64	68	6	50	53-103

FORM III SV-2

N1684.D & N1685.D

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG97401-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CAPISIC POND/ 203939 SDG No.: SE5823

Lab Sample ID: WG97401-1 Lab File ID: 8EI00169

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3540

Sulfur Cleanup: (Y/N) N Date Extracted: 09/15/11

Date Analyzed (1): 09/21/11 Date Analyzed (2): 09/21/11

Time Analyzed (1): 1836 Time Analyzed (2): 1836

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column (1): ZB-MULTIRESIDUE1 ID: 0.53(mm) GC Column (2): ZB-MULTIRESIDUE2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG97401-LCS	WG97401-2	8EI00170	09/21/11	09/21/11
02	WG97401-LCSD	WG97401-3	8EI00171	09/21/11	09/21/11
03	SD-01	SE5823-1	8EI00185	09/22/11	09/22/11
04	SD-02	SE5823-2	8EI00186	09/22/11	09/22/11
05	SD-03	SE5823-3	8EI00187	09/22/11	09/22/11
06	SD-04	SE5823-4	8EI00188	09/22/11	09/22/11
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COMMENTS:

FORM IVPCB

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Capisic Pond/ 203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/15/11
Analysis Date: 21-SEP-2011 18:36
Report Date: 10/04/2011
Matrix: SOIL
% Solids: 100

Lab ID: WG97401-1
Client ID: WG97401-Blank
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: CB
Analysis Method: SW846 8082
Lab Prep Batch: WG97401
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Aroclor-1016	U	3.4	1.0	17	3.4
Aroclor-1221	U	3.4	1.0	17	3.4
Aroclor-1232	U	3.4	1.0	17	3.4
Aroclor-1242	U	3.4	1.0	17	3.4
Aroclor-1248	U	3.4	1.0	17	3.4
Aroclor-1254	U	3.4	1.0	17	3.4
Aroclor-1260	U	3.4	1.0	17	3.4
Tetrachloro-m-xylene		85%			
Decachlorobiphenyl		97%			

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Capisic Pond / 203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/15/11
Analysis Date: 09/21/11
Report Date: 10/08/2011
Matrix: SOIL

Lab ID: WG97401-2 & WG97401-3
Client ID: WG97401-LCS & WG97401-LCSD
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: CB
Analysis Method: SW846 8082
Lab Prep Batch: WG97401
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Aroclor-1016	33	33	NA	32	37	94	111	16	50	53-123
Aroclor-1260	33	33	NA	37	38	111	115	3	50	58-120

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG97628-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CAPISIC POND / 203939 SDG No.: SE5823

Lab File ID: CEI1184 Lab Sample ID: WG97628-1

Instrument ID: GC12 Date Extracted: 09/20/11

Matrix: (soil/water) SOIL Date Analyzed: 09/22/11

Level:(low/med) LOW Time Analyzed: 1545

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG97628-LCSD	WG97628-3	CEI1182	09/22/11	1218
02	WG97628-LCS	WG97628-2	CEI1186	09/22/11	1752
03	SD-01	SE5823-1	CEI1195	09/23/11	0319
04	SD-02	SE5823-2	CEI1196	09/23/11	0422
05	SD-03	SE5823-3	CEI1197	09/23/11	0524
06	SD-04	SE5823-4	CEI1198	09/23/11	0627
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COMMENTS:

FORM IVDRO

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG97628-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CAPISIC POND / 203939 SDG No.: SE5823

Lab File ID: CEI1184A Lab Sample ID: WG97628-1

Instrument ID: GC12 Date Extracted: 09/20/11

Matrix: (soil/water) SOIL Date Analyzed: 09/22/11

Level:(low/med) LOW Time Analyzed: 1545

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG97628-LCSD	WG97628-3	CEI1182A	09/22/11	1218
02	WG97628-LCS	WG97628-2	CEI1186A	09/22/11	1752
03	SD-01	SE5823-1	CEI1195A	09/23/11	0319
04	SD-02	SE5823-2	CEI1196A	09/23/11	0422
05	SD-03	SE5823-3	CEI1197A	09/23/11	0524
06	SD-04	SE5823-4	CEI1198A	09/23/11	0627
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COMMENTS:

FORM IVDRO

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG97628-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CAPISIC POND / 203939 SDG No.: SE5823

Lab File ID: CEI2184 Lab Sample ID: WG97628-1

Instrument ID: GC12 Date Extracted: 09/20/11

Matrix: (soil/water) SOIL Date Analyzed: 09/22/11

Level: (low/med) LOW Time Analyzed: 1545

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG97628-LCSD	WG97628-3	CEI2182	09/22/11	1218
02	WG97628-LCS	WG97628-2	CEI2186	09/22/11	1752
03	SD-01	SE5823-1	CEI2195	09/23/11	0319
04	SD-02	SE5823-2	CEI2196	09/23/11	0422
05	SD-03	SE5823-3	CEI2197	09/23/11	0524
06	SD-04	SE5823-4	CEI2198	09/23/11	0627
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COMMENTS:

FORM IVDRO

Blank Analysis

Client:	Katahdin Analytical Services	**SDG:**	SE5823
Client Sample ID:	Method Blank Sample	**Date Collected:**	
KAS Sample ID:	WG97628-1	**Date Received:**	
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	20-SEP-11
Prep Method:	SW846 3540	**Date Reported:**	04-OCT-11
Matrix:	SL	**Percent Solids:**	NA

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	20	20	mg/Kgdrywt	1	22-SEP-11 15:45	U
C9-C18 Aliphatics	20	20	mg/Kgdrywt	1	22-SEP-11 15:45	U
C19-C36 Aliphatics	20	20	mg/Kgdrywt	1	22-SEP-11 15:45	U
C11-C22 Aromatics	20.	20	mg/Kgdrywt	1	22-SEP-11 15:45	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
2-Methylnaphthalene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Phenanthrene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Acenaphthylene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Acenaphthene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Anthracene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Benzo(a)anthracene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Benzo(a)pyrene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Benzo(b)fluoranthene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Benzo(g,h,i)perylene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Benzo(k)fluoranthene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Chrysene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Dibenzo(a,h)anthracene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Fluoranthene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Fluorene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Indeno(1,2,3-cd)pyrene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U
Pyrene	0.20	.2	mg/Kgdrywt	1	22-SEP-11 15:45	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	81	40-140	22-SEP-11 15:45	
o-Terphenyl	61	40-140	22-SEP-11 15:45	
2-Fluorobiphenyl	73	40-140	22-SEP-11 15:45	
2-Bromonaphthalene	72	40-140	22-SEP-11 15:45	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Capisic Pond / 203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/20/11
Analysis Date: 09/22/11
Report Date: 10/04/2011
Matrix: SOIL

Lab ID: WG97628-2 & WG97628-3
Client ID: WG97628-LCS & WG97628-LCSD
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3540
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Lab Prep Batch: WG97628
Units: mg/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Unadjusted C11-C22 Aromatics	153	153	NA	114	116	74	76	2	25	40-140

FORM III DRO-2

CEI1186.d & CEI1182.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Capisic Pond / 203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/20/11
Analysis Date: 09/22/11
Report Date: 10/04/2011
Matrix: SOIL

Lab ID: WG97628-2 & WG97628-3
Client ID: WG97628-LCS & WG97628-LCSD
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3540
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Lab Prep Batch: WG97628
Units: mg/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	9.0	9.0	NA	4.6	4.7	52	52	0.6	25	40-140
2-Methylnaphthalene	9.0	9.0	NA	4.8	4.8	53	53	1	25	40-140
Acenaphthylene	9.0	9.0	NA	4.8	4.9	53	54	1	25	40-140
Acenaphthene	9.0	9.0	NA	4.9	4.9	54	54	0.6	25	40-140
Fluorene	9.0	9.0	NA	5.2	5.5	58	61	4	25	40-140
Phenanthrene	9.0	9.0	NA	6.2	6.5	69	72	5	25	40-140
Anthracene	9.0	9.0	NA	6.7	7.0	74	77	4	25	40-140
Fluoranthene	9.0	9.0	NA	7.1	7.3	78	81	3	25	40-140
Pyrene	9.0	9.0	NA	7.0	7.2	77	80	3	25	40-140
Benzo(a)Anthracene	9.0	9.0	NA	8.4	8.6	93	95	2	25	40-140
Chrysene	9.0	9.0	NA	7.4	7.5	82	84	1	25	40-140
Benzo(b)Fluoranthene	9.0	9.0	NA	8.0	8.1	89	90	0.7	25	40-140
Benzo(k)Fluoranthene	9.0	9.0	NA	7.5	7.6	83	85	2	25	40-140
Benzo(a)Pyrene	9.0	9.0	NA	7.1	7.4	79	82	4	25	40-140
Indeno(1,2,3-cd)Pyrene	9.0	9.0	NA	7.6	7.8	85	87	2	25	40-140
Dibenzo(a,h)Anthracene	9.0	9.0	NA	7.5	7.7	84	85	2	25	40-140
Benzo(g,h,i)Perylene	9.0	9.0	NA	7.6	7.7	84	85	0.9	25	40-140

FORM III DRO-2

CEI1186a.d & CEI1182a.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Capisic Pond / 203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/20/11
Analysis Date: 09/22/11
Report Date: 10/04/2011
Matrix: SOIL

Lab ID: WG97628-2 & WG97628-3
Client ID: WG97628-LCS & WG97628-LCSD
SDG: SE5823
Extracted by: JMS
Extraction Method: SW846 3540
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Lab Prep Batch: WG97628
Units: mg/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
C9-C18 Aliphatics	54	54	NA	41	46	75	84	12	25	40-140
C19-C36 Aliphatics	72	72	NA	55	60	76	83	9	25	40-140

FORM III DRO-2

CEI2186.d & CEI2182.d

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG97400-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CAPISIC POND / 203939 SDG No.: SE5823

Lab Sample ID: WG97400-1 Lab File ID: 1EI00445

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3540

Sulfur Cleanup: (Y/N) N Date Extracted: 09/15/11

Date Analyzed (1): 09/23/11 Date Analyzed (2): 09/23/11

Time Analyzed (1): 1251 Time Analyzed (2): 1251

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column (1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column (2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG97400-LCS	WG97400-2	1EI00446	09/23/11	09/23/11
02	WG97400-LCSD	WG97400-3	1EI00447	09/23/11	09/23/11
03	SD-01	SE5823-1	1EI00451	09/23/11	09/23/11
04	SD-02	SE5823-2	1EI00452	09/23/11	09/23/11
05	SD-03	SE5823-3	1EI00453	09/23/11	09/23/11
06	SD-04	SE5823-4	1EI00454	09/23/11	09/23/11
07					
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COMMENTS:

FORM IVPESTICIDE

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Capisic Pond / 203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/15/11
Analysis Date: 23-SEP-2011 12:51
Report Date: 10/11/2011
Matrix: SOIL
% Solids: 100

Lab ID: WG97400-1
Client ID: WG97400-Blank
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: EKC
Analysis Method: SW846 8081A
Lab Prep Batch: WG97400
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
alpha-BHC	U	0.34	1.0	1.7	0.34
gamma-BHC	U	0.34	1.0	1.7	0.34
Heptachlor	U	0.34	1.0	1.7	0.34
Aldrin	U	0.34	1.0	1.7	0.34
beta-BHC	U	0.34	1.0	1.7	0.34
delta-BHC	U	0.34	1.0	1.7	0.34
Heptachlor Epoxide	U	0.34	1.0	1.7	0.34
Endosulfan I	U	0.34	1.0	1.7	0.34
gamma-Chlordane	U	0.34	1.0	1.7	0.34
alpha-Chlordane	U	0.34	1.0	1.7	0.34
4,4'-DDE	U	0.66	1.0	3.3	0.66
Dieldrin	U	0.66	1.0	3.3	0.66
Endrin	U	0.66	1.0	3.3	0.66
4,4'-DDD	U	0.66	1.0	3.3	0.66
Endosulfan II	U	0.66	1.0	3.3	0.66
4,4'-DDT	U	0.66	1.0	3.3	0.66
Endrin Aldehyde	U	0.66	1.0	3.3	0.66
Endosulfan sulfate	U	0.66	1.0	3.3	0.66
Methoxychlor	U	3.4	1.0	17	3.4
Endrin Ketone	U	0.66	1.0	3.3	0.66
Toxaphene	U	6.6	1.0	33	6.6
Tetrachloro-m-Xylene		71%			
Decachlorobiphenyl		78%			

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Capisic Pond / 203939
PO No:
Sample Date:
Received Date:
Extraction Date: 09/15/11
Analysis Date: 09/23/11
Report Date: 10/11/2011
Matrix: SOIL

Lab ID: WG97400-2 & WG97400-3
Client ID: WG97400-LCS & WG97400-LCSD
SDG: SE5823
Extracted by: KD
Extraction Method: SW846 3540
Analyst: EKC
Analysis Method: SW846 8081A
Lab Prep Batch: WG97400
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
alpha-BHC	3.3	3.3	NA	2.2	2.5	68	75		10	50	31-128
gamma-BHC	3.3	3.3	NA	2.2	2.5	66	74		11	30	47- 98
beta-BHC	3.3	3.3	NA	2.3	2.6	69	79		13	50	53-106
delta-BHC	3.3	3.3	NA	2.5	2.8	74	82		11	50	34-123
Heptachlor	3.3	3.3	NA	2.2	2.0	66	60		10	50	47-101
Aldrin	3.3	3.3	NA	2.2	2.6	66	78		16	50	46- 91
Heptachlor Epoxide	3.3	3.3	NA	2.3	2.6	69	78		13	50	50- 96
gamma-Chlordane	3.3	3.3	NA	2.4	2.8	73	85		16	50	54- 96
alpha-Chlordane	3.3	3.3	NA	2.5	2.9	74	88		17	50	32-131
4,4'-DDE	3.3	3.3	NA	2.4	2.9	73	87		17	50	52-103
Endosulfan I	3.3	3.3	NA	2.2	2.2	67	67		0.4	50	23- 80
Dieldrin	3.3	3.3	NA	2.3	2.7	68	80		16	50	39-115
Endrin	3.3	3.3	NA	2.0	0.78	61	24	*	88	50	19-148
4,4'-DDD	3.3	3.3	NA	2.5	2.7	74	81		9	50	48-111
Endosulfan II	3.3	3.3	NA	2.3	2.7	70	80		13	50	33- 87
4,4'-DDT	3.3	3.3	NA	2.4	2.4	73	70		3	50	39-112
Endrin Aldehyde	3.3	3.3	NA	3.9	2.5	* 118	76		43	50	34- 91
Methoxychlor	3.3	3.3	NA	2.5	2.6	74	76		4	50	28-142
Endosulfan sulfate	3.3	3.3	NA	2.5	2.4	74	71		4	50	11-143
Endrin Ketone	3.3	3.3	NA	2.7	3.5	82	104		24	50	52-120

FORM III PESTICIDE-2

1EI00446.D & 1EI00447.D

Katahdin ANALYTICAL SERVICES

PREPARATION BLANK REPORT

Sample ID: PBSBI21ICS1 **Batch ID:** BI21ICS1

Element Name	Result	Units	Flag	PQL	File
ALUMINUM	1.	mg/kgdrywt	U	30.0	IBI21B
ANTIMONY	0.2	mg/kgdrywt	U	0.800	IBI21B
ARSENIC	0.2	mg/kgdrywt	U	0.800	IBI21B
BARIUM	0.06	mg/kgdrywt	J	0.500	IBI21B
BERYLLIUM	0.003	mg/kgdrywt	U	0.500	IBI21B
BORON	0.3	mg/kgdrywt	J	10.0	IBI21B
CADMIUM	0.09	mg/kgdrywt	U	1.00	IBI21B
CALCIUM	14.	mg/kgdrywt	H	10.0	IBI21B
CHROMIUM	0.07	mg/kgdrywt	J	1.50	IBI21B
COBALT	0.03	mg/kgdrywt	U	3.00	IBI21B
COPPER	0.08	mg/kgdrywt	J	2.50	IBI21B
IRON	2.2	mg/kgdrywt	J	10.0	IBI21B
LEAD	0.1	mg/kgdrywt	U	0.500	IBI21B
LITHIUM	0.2	mg/kgdrywt	U	10.0	IBI21B
MAGNESIUM	4.0	mg/kgdrywt	J	10.0	IBI21B
MANGANESE	0.09	mg/kgdrywt	J	0.500	IBI21B
MOLYBDENUM	0.2	mg/kgdrywt	U	1.00	IBI21B
NICKEL	0.08	mg/kgdrywt	J	4.00	IBI21B
PALLADIUM	0.2	mg/kgdrywt	U	10.0	IBI21B
POTASSIUM	10.	mg/kgdrywt	U	100.	IBI21B
SELENIUM	0.2	mg/kgdrywt	U	1.00	IBI21B
SILICON	2.	mg/kgdrywt	J	20.0	IBI21B
SILVER	0.05	mg/kgdrywt	U	1.50	IBI21B
SODIUM	10.	mg/kgdrywt	U	100.	IBI21B
STRONTIUM	0.05	mg/kgdrywt	J	10.0	IBI21B
THALLIUM	0.2	mg/kgdrywt	U	1.50	IBI21B
TIN	3.0	mg/kgdrywt	J	10.0	IBI21B
TITANIUM	0.04	mg/kgdrywt	U	1.50	IBI21B
VANADIUM	0.04	mg/kgdrywt	U	2.50	IBI21B
ZINC	0.14	mg/kgdrywt	J	2.50	IBI21B

U The analyte was not detected in the sample at a level greater than the instrument detection limit.

J The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the sample at a concentration greater than the laboratory's acceptance limit.

Katahdin ANALYTICAL SERVICES

LABORATORY CONTROL SAMPLE REPORT

Sample ID: LCSOBI21ICS1 **Batch ID:** BI21ICS1

Element Name	True Value	Result	Units	Recovery(%)	Flag	Limits (mg/kgdrywt)		File
ALUMINUM	200.	198.	mg/kgdrywt	99.0%		159	241	IBI21B
ANTIMONY	10.0	8.9	mg/kgdrywt	89.0%		7.95	12.0	IBI21B
ARSENIC	10.0	9.2	mg/kgdrywt	92.0%		7.95	12.0	IBI21B
BARIUM	200.	199.	mg/kgdrywt	99.5%		159	241	IBI21B
BERYLLIUM	5.00	4.97	mg/kgdrywt	99.4%		3.98	6.02	IBI21B
BORON	50.0	47.7	mg/kgdrywt	95.4%		39.8	60.2	IBI21B
CADMIUM	25.0	24.8	mg/kgdrywt	99.2%		19.9	30.1	IBI21B
CALCIUM	250.	261.	mg/kgdrywt	104.4%		199	301	IBI21B
CHROMIUM	20.0	20.1	mg/kgdrywt	100.5%		15.9	24.1	IBI21B
COBALT	50.0	50.6	mg/kgdrywt	101.2%		39.8	60.2	IBI21B
COPPER	25.0	24.7	mg/kgdrywt	98.8%		19.9	30.1	IBI21B
IRON	100.	101.	mg/kgdrywt	101.0%		79.5	120	IBI21B
LEAD	10.0	9.8	mg/kgdrywt	98.0%		7.95	12.0	IBI21B
LITHIUM	50.0	47.8	mg/kgdrywt	95.6%		39.8	60.2	IBI21B
MAGNESIUM	500.	494.	mg/kgdrywt	98.8%		398	602	IBI21B
MANGANESE	50.0	48.4	mg/kgdrywt	96.8%		39.8	60.2	IBI21B
MOLYBDENUM	30.0	29.1	mg/kgdrywt	97.0%		23.8	36.1	IBI21B
NICKEL	50.0	49.8	mg/kgdrywt	99.6%		39.8	60.2	IBI21B
PALLADIUM	50.0	47.7	mg/kgdrywt	95.4%		39.5	60	IBI21B
POTASSIUM	1000.	960.	mg/kgdrywt	96.0%		795	1200	IBI21B
SELENIUM	10.0	9.3	mg/kgdrywt	93.0%		7.95	12.0	IBI21B
SILICON	500.	423.	mg/kgdrywt	84.6%		398	602	IBI21B
SILVER	5.00	4.75	mg/kgdrywt	95.0%		3.98	6.02	IBI21B
SODIUM	750.	780.	mg/kgdrywt	104.0%		596	904	IBI21B
STRONTIUM	50.0	48.6	mg/kgdrywt	97.2%		39.8	60.2	IBI21B
THALLIUM	10.0	0.07	mg/kgdrywt	0.7%	L	7.95	12.0	IBI21B
TIN	50.0	52.7	mg/kgdrywt	105.4%		39.8	60.2	IBI21B
TITANIUM	50.0	57.0	mg/kgdrywt	114.0%		39.8	60	IBI21B
VANADIUM	50.0	48.4	mg/kgdrywt	96.8%		39.8	60.2	IBI21B
ZINC	50.0	50.5	mg/kgdrywt	101.0%		39.8	60.2	IBI21B

H Laboratory control sample recovery is greater than the laboratory's acceptance limit.

L Laboratory control sample recovery is less than the laboratory's acceptance limit.

Katahdin ANALYTICAL SERVICES

PREPARATION BLANK REPORT

Sample ID: PBSBI26HGS1 **Batch ID:** BI26HGS1

Element Name	Result	Units	Flag	PQL	File
MERCURY	0.005	ug/gdrywt	U	0.04	HBI28A

U The analyte was not detected in the sample at a level greater than the instrument detection limit.

J The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the sample at a concentration greater than the laboratory's acceptance limit.

Katahdin ANALYTICAL SERVICES

LABORATORY CONTROL SAMPLE REPORT

Sample ID: LCSOBI26HGS1 **Batch ID:** BI26HGS1

Element Name	True Value	Result	Units	Recovery(%)	Flag	Limits (ug/gdrywt)		File
MERCURY	0.83	0.863	ug/gdrywt	104.0%		0.663	1.00	HBI28A

H Laboratory control sample recovery is greater than the laboratory's acceptance limit.

L Laboratory control sample recovery is less than the laboratory's acceptance limit.

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Cert No E87604

Quality Control Report

Blank Sample Summary Report

Chromium, Hexavalent

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG98085	SW846 7196A	22-SEP-11	21-SEP-11	U 0.36 mg/Kgdrywt	0.48 mg/Kgdr

Phosphorus, Total As P

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG97751	EPA 365.4	20-SEP-11	19-SEP-11	U 0.080 mg/L	0.10 mg/L

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG97657	ASTM D2216	21-SEP-11	20-SEP-11	U 1 %	1 %

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Chromium, Hexavalent

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG98085-2	LCS	WG98085	22-SEP-11	21-SEP-11	mg/Kgdrywt	40	40.	101	80-120	

Phosphorus, Total As P

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG97751-2	LCS	WG97751	20-SEP-11	19-SEP-11	mg/L	.5	0.53	106	80-120	

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG97657-2	LCS	WG97657	21-SEP-11	20-SEP-11	%	90	91.	101	80-120	
WG97657-3	LCSD	WG97657	21-SEP-11	20-SEP-11	%	90	91.	101	80-120	0

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 200-7019-1

SDG Number: SE5823

Job Description: Katahdin General Project

For:
Katahdin Analytical Services
PO BOX 540
600 Technology Way
Scarborough, ME 04074

Attention: Kelly Perkins

Approved for release.
Kathryn A Kelly
Project Manager I
9/27/2011 4:23 PM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
09/27/2011

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.
TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403
Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

Client: Katahdin Analytical Services

Project: Katahdin General Project

Report Number: 200-7019-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 09/16/2011; the samples arrived in good condition. The temperature of the coolers at receipt was 17.2 C.

GRAIN SIZE
Samples SE5823-1, SE5823-2, SE5823-3 and SE5823-4 were analyzed for grain size in accordance with D422 grain size. The samples were analyzed on 09/22/2011.

No difficulties were encountered during the grain size analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-7019-1	SE5823-1					
Sieve Size 3 inch - Percent Finer		100.0			% Passing	D422
Gravel		0.4			%	D422
Sieve Size 2 inch - Percent Finer		100.0			% Passing	D422
Sand		23.2			%	D422
Sieve Size 1.5 inch - Percent Finer		100.0			% Passing	D422
Coarse Sand		1.2			%	D422
Sieve Size 1 inch - Percent Finer		100.0			% Passing	D422
Medium Sand		5.6			%	D422
Sieve Size 0.75 inch - Percent Finer		100.0			% Passing	D422
Fine Sand		16.4			%	D422
Sieve Size 0.375 inch - Percent Finer		100.0			% Passing	D422
Silt		36.6			%	D422
Sieve Size #4 - Percent Finer		99.6			% Passing	D422
Clay		39.8			%	D422
Sieve Size #10 - Percent Finer		98.4			% Passing	D422
Sieve Size #20 - Percent Finer		96.2			% Passing	D422
Sieve Size #40 - Percent Finer		92.8			% Passing	D422
Sieve Size #60 - Percent Finer		90.6			% Passing	D422
Sieve Size #80 - Percent Finer		86.4			% Passing	D422
Sieve Size #100 - Percent Finer		84.1			% Passing	D422
Sieve Size #200 - Percent Finer		76.4			% Passing	D422
Hydrometer Reading 1 - Percent Finer		62.2			% Passing	D422
Hydrometer Reading 2 - Percent Finer		56.2			% Passing	D422
Hydrometer Reading 3 - Percent Finer		50.3			% Passing	D422
Hydrometer Reading 4 - Percent Finer		45.8			% Passing	D422
Hydrometer Reading 5 - Percent Finer		39.8			% Passing	D422
Hydrometer Reading 6 - Percent Finer		30.7			% Passing	D422
Hydrometer Reading 7 - Percent Finer		26.2			% Passing	D422

EXECUTIVE SUMMARY - Detections

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-7019-2	SE5823-2					
Sieve Size 3 inch - Percent Finer		100.0			% Passing	D422
Gravel		0.0			%	D422
Sieve Size 2 inch - Percent Finer		100.0			% Passing	D422
Sand		11.6			%	D422
Sieve Size 1.5 inch - Percent Finer		100.0			% Passing	D422
Coarse Sand		0.3			%	D422
Sieve Size 1 inch - Percent Finer		100.0			% Passing	D422
Medium Sand		2.5			%	D422
Sieve Size 0.75 inch - Percent Finer		100.0			% Passing	D422
Fine Sand		8.8			%	D422
Sieve Size 0.375 inch - Percent Finer		100.0			% Passing	D422
Silt		41.3			%	D422
Sieve Size #4 - Percent Finer		100.0			% Passing	D422
Clay		47.1			%	D422
Sieve Size #10 - Percent Finer		99.7			% Passing	D422
Sieve Size #20 - Percent Finer		98.5			% Passing	D422
Sieve Size #40 - Percent Finer		97.2			% Passing	D422
Sieve Size #60 - Percent Finer		95.6			% Passing	D422
Sieve Size #80 - Percent Finer		94.4			% Passing	D422
Sieve Size #100 - Percent Finer		93.4			% Passing	D422
Sieve Size #200 - Percent Finer		88.4			% Passing	D422
Hydrometer Reading 1 - Percent Finer		67.9			% Passing	D422
Hydrometer Reading 2 - Percent Finer		63.4			% Passing	D422
Hydrometer Reading 3 - Percent Finer		57.5			% Passing	D422
Hydrometer Reading 4 - Percent Finer		53.0			% Passing	D422
Hydrometer Reading 5 - Percent Finer		47.1			% Passing	D422
Hydrometer Reading 6 - Percent Finer		36.6			% Passing	D422
Hydrometer Reading 7 - Percent Finer		35.1			% Passing	D422

EXECUTIVE SUMMARY - Detections

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-7019-3	SE5823-3					
Sieve Size 3 inch - Percent Finer		100.0			% Passing	D422
Gravel		4.4			%	D422
Sieve Size 2 inch - Percent Finer		100.0			% Passing	D422
Sand		14.7			%	D422
Sieve Size 1.5 inch - Percent Finer		100.0			% Passing	D422
Coarse Sand		0.7			%	D422
Sieve Size 1 inch - Percent Finer		100.0			% Passing	D422
Medium Sand		4.5			%	D422
Sieve Size 0.75 inch - Percent Finer		100.0			% Passing	D422
Fine Sand		9.5			%	D422
Sieve Size 0.375 inch - Percent Finer		97.7			% Passing	D422
Silt		44.9			%	D422
Sieve Size #4 - Percent Finer		95.6			% Passing	D422
Clay		36.0			%	D422
Sieve Size #10 - Percent Finer		94.9			% Passing	D422
Sieve Size #20 - Percent Finer		93.3			% Passing	D422
Sieve Size #40 - Percent Finer		90.4			% Passing	D422
Sieve Size #60 - Percent Finer		89.0			% Passing	D422
Sieve Size #80 - Percent Finer		86.2			% Passing	D422
Sieve Size #100 - Percent Finer		85.3			% Passing	D422
Sieve Size #200 - Percent Finer		80.9			% Passing	D422
Hydrometer Reading 1 - Percent Finer		65.2			% Passing	D422
Hydrometer Reading 2 - Percent Finer		57.9			% Passing	D422
Hydrometer Reading 3 - Percent Finer		50.6			% Passing	D422
Hydrometer Reading 4 - Percent Finer		43.3			% Passing	D422
Hydrometer Reading 5 - Percent Finer		36.0			% Passing	D422
Hydrometer Reading 6 - Percent Finer		25.0			% Passing	D422
Hydrometer Reading 7 - Percent Finer		15.9			% Passing	D422

EXECUTIVE SUMMARY - Detections

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-7019-4	SE5823-4					
Sieve Size 3 inch - Percent Finer		100.0			% Passing	D422
Gravel		0.0			%	D422
Sieve Size 2 inch - Percent Finer		100.0			% Passing	D422
Sand		1.8			%	D422
Sieve Size 1.5 inch - Percent Finer		100.0			% Passing	D422
Coarse Sand		0.0			%	D422
Sieve Size 1 inch - Percent Finer		100.0			% Passing	D422
Medium Sand		0.1			%	D422
Sieve Size 0.75 inch - Percent Finer		100.0			% Passing	D422
Fine Sand		1.7			%	D422
Sieve Size 0.375 inch - Percent Finer		100.0			% Passing	D422
Silt		46.3			%	D422
Sieve Size #4 - Percent Finer		100.0			% Passing	D422
Clay		51.9			%	D422
Sieve Size #10 - Percent Finer		100.0			% Passing	D422
Sieve Size #20 - Percent Finer		99.9			% Passing	D422
Sieve Size #40 - Percent Finer		99.9			% Passing	D422
Sieve Size #60 - Percent Finer		99.9			% Passing	D422
Sieve Size #80 - Percent Finer		99.9			% Passing	D422
Sieve Size #100 - Percent Finer		99.8			% Passing	D422
Sieve Size #200 - Percent Finer		98.2			% Passing	D422
Hydrometer Reading 1 - Percent Finer		83.4			% Passing	D422
Hydrometer Reading 2 - Percent Finer		76.4			% Passing	D422
Hydrometer Reading 3 - Percent Finer		65.9			% Passing	D422
Hydrometer Reading 4 - Percent Finer		58.9			% Passing	D422
Hydrometer Reading 5 - Percent Finer		51.9			% Passing	D422
Hydrometer Reading 6 - Percent Finer		36.2			% Passing	D422
Hydrometer Reading 7 - Percent Finer		30.9			% Passing	D422

METHOD SUMMARY

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Grain Size	TAL BUR	ASTM D422	

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

ASTM = ASTM International

METHOD / ANALYST SUMMARY

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Method	Analyst	Analyst ID
ASTM D422	Bourdeau, Timothy P	TPB

SAMPLE SUMMARY

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-7019-1	SE5823-1	Solid	09/14/2011 0820	09/16/2011 0922
200-7019-2	SE5823-2	Solid	09/14/2011 0905	09/16/2011 0922
200-7019-3	SE5823-3	Solid	09/14/2011 1140	09/16/2011 0922
200-7019-4	SE5823-4	Solid	09/14/2011 1020	09/16/2011 0922

SAMPLE RESULTS

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: SE5823-1

Lab Sample ID: 200-7019-1
Client Matrix: Solid

Date Sampled: 09/14/2011 0820
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-1.txt
Dilution:	1.0			Initial Weight/Volume:	69.6 g
Analysis Date:	09/22/2011 0002			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		99.6			
Sieve Size #10 - Percent Finer		98.4			
Sieve Size #20 - Percent Finer		96.2			
Sieve Size #40 - Percent Finer		92.8			
Sieve Size #60 - Percent Finer		90.6			
Sieve Size #80 - Percent Finer		86.4			
Sieve Size #100 - Percent Finer		84.1			
Sieve Size #200 - Percent Finer		76.4			
Hydrometer Reading 1 - Percent Finer		62.2			
Hydrometer Reading 2 - Percent Finer		56.2			
Hydrometer Reading 3 - Percent Finer		50.3			
Hydrometer Reading 4 - Percent Finer		45.8			
Hydrometer Reading 5 - Percent Finer		39.8			
Hydrometer Reading 6 - Percent Finer		30.7			
Hydrometer Reading 7 - Percent Finer		26.2			

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: **SE5823-1**

Lab Sample ID: 200-7019-1
Client Matrix: Solid

Date Sampled: 09/14/2011 0820
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-1.txt
Dilution:	1.0			Initial Weight/Volume:	69.6 g
Analysis Date:	09/22/2011 0002			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		0.4			
Sand		23.2			
Coarse Sand		1.2			
Medium Sand		5.6			
Fine Sand		16.4			
Silt		36.6			
Clay		39.8			

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: SE5823-2

Lab Sample ID: 200-7019-2
Client Matrix: Solid

Date Sampled: 09/14/2011 0905
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-2.txt
Dilution:	1.0			Initial Weight/Volume:	84.61 g
Analysis Date:	09/22/2011 0003			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		100.0			
Sieve Size #10 - Percent Finer		99.7			
Sieve Size #20 - Percent Finer		98.5			
Sieve Size #40 - Percent Finer		97.2			
Sieve Size #60 - Percent Finer		95.6			
Sieve Size #80 - Percent Finer		94.4			
Sieve Size #100 - Percent Finer		93.4			
Sieve Size #200 - Percent Finer		88.4			
Hydrometer Reading 1 - Percent Finer		67.9			
Hydrometer Reading 2 - Percent Finer		63.4			
Hydrometer Reading 3 - Percent Finer		57.5			
Hydrometer Reading 4 - Percent Finer		53.0			
Hydrometer Reading 5 - Percent Finer		47.1			
Hydrometer Reading 6 - Percent Finer		36.6			
Hydrometer Reading 7 - Percent Finer		35.1			

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: **SE5823-2**

Lab Sample ID: 200-7019-2
Client Matrix: Solid

Date Sampled: 09/14/2011 0905
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-2.txt
Dilution:	1.0			Initial Weight/Volume:	84.61 g
Analysis Date:	09/22/2011 0003			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		0.0			
Sand		11.6			
Coarse Sand		0.3			
Medium Sand		2.5			
Fine Sand		8.8			
Silt		41.3			
Clay		47.1			

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: SE5823-3

Lab Sample ID: 200-7019-3
Client Matrix: Solid

Date Sampled: 09/14/2011 1140
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-3.txt
Dilution:	1.0			Initial Weight/Volume:	79.11 g
Analysis Date:	09/22/2011 0004			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		97.7			
Sieve Size #4 - Percent Finer		95.6			
Sieve Size #10 - Percent Finer		94.9			
Sieve Size #20 - Percent Finer		93.3			
Sieve Size #40 - Percent Finer		90.4			
Sieve Size #60 - Percent Finer		89.0			
Sieve Size #80 - Percent Finer		86.2			
Sieve Size #100 - Percent Finer		85.3			
Sieve Size #200 - Percent Finer		80.9			
Hydrometer Reading 1 - Percent Finer		65.2			
Hydrometer Reading 2 - Percent Finer		57.9			
Hydrometer Reading 3 - Percent Finer		50.6			
Hydrometer Reading 4 - Percent Finer		43.3			
Hydrometer Reading 5 - Percent Finer		36.0			
Hydrometer Reading 6 - Percent Finer		25.0			
Hydrometer Reading 7 - Percent Finer		15.9			

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: **SE5823-3**

Lab Sample ID: 200-7019-3
Client Matrix: Solid

Date Sampled: 09/14/2011 1140
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-3.txt
Dilution:	1.0			Initial Weight/Volume:	79.11 g
Analysis Date:	09/22/2011 0004			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		4.4			
Sand		14.7			
Coarse Sand		0.7			
Medium Sand		4.5			
Fine Sand		9.5			
Silt		44.9			
Clay		36.0			

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: SE5823-4

Lab Sample ID: 200-7019-4
Client Matrix: Solid

Date Sampled: 09/14/2011 1020
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-4.txt
Dilution:	1.0			Initial Weight/Volume:	67.41 g
Analysis Date:	09/22/2011 0005			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		100.0			
Sieve Size #10 - Percent Finer		100.0			
Sieve Size #20 - Percent Finer		99.9			
Sieve Size #40 - Percent Finer		99.9			
Sieve Size #60 - Percent Finer		99.9			
Sieve Size #80 - Percent Finer		99.9			
Sieve Size #100 - Percent Finer		99.8			
Sieve Size #200 - Percent Finer		98.2			
Hydrometer Reading 1 - Percent Finer		83.4			
Hydrometer Reading 2 - Percent Finer		76.4			
Hydrometer Reading 3 - Percent Finer		65.9			
Hydrometer Reading 4 - Percent Finer		58.9			
Hydrometer Reading 5 - Percent Finer		51.9			
Hydrometer Reading 6 - Percent Finer		36.2			
Hydrometer Reading 7 - Percent Finer		30.9			

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

Client Sample ID: SE5823-4

Lab Sample ID: 200-7019-4
Client Matrix: Solid

Date Sampled: 09/14/2011 1020
Date Received: 09/16/2011 0922

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-25733	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-7019-A-4.txt
Dilution:	1.0			Initial Weight/Volume:	67.41 g
Analysis Date:	09/22/2011 0005			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		0.0			
Sand		1.8			
Coarse Sand		0.0			
Medium Sand		0.1			
Fine Sand		1.7			
Silt		46.3			
Clay		51.9			

Particle Size of Soils by ASTM D422

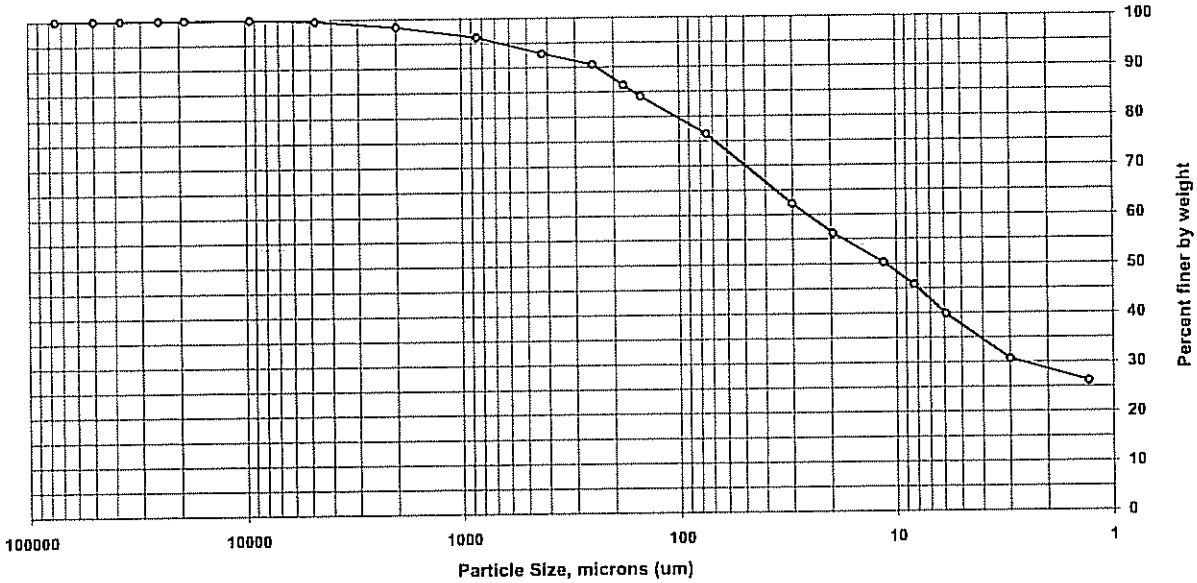
Sample ID: SE5823-1
Lab ID: 200-7019-A-1

Percent Solids: 77.3%
Specific Gravity: 2.650

Date Received: 9/16/2011
Start Date: 9/22/2011
End Date: 9/24/2011

Shape (> #10): subangular

Non-soil material: plant
Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	99.6	0.4
#10	2000	98.4	1.2
#20	850	96.2	2.2
#40	425	92.8	3.4
#60	250	90.6	2.2
#80	180	86.4	4.2
#100	150	84.1	2.3
#200	75	76.4	7.7
Hyd1	30.1	62.2	14.2
Hyd2	19.5	56.2	6.0
Hyd3	11.5	50.3	5.9
Hyd4	8.3	45.8	4.5
Hyd5	5.9	39.8	6.0
Hyd6	3	30.7	9.1
Hyd7	1.3	26.2	4.5

Soil Classification	Percent of sample
Gravel	0.4
Sand	23.2
Coarse Sand	1.2
Medium Sand	5.6
Fine Sand	16.4
Silt	36.6
Clay	39.8

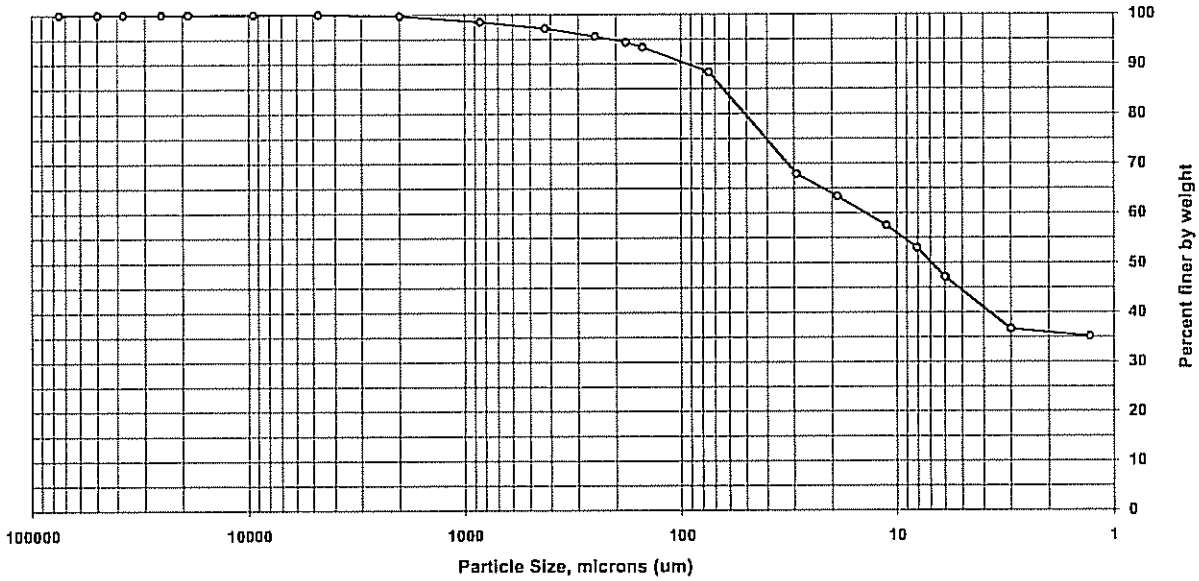
Particle Size of Soils by ASTM D422

Sample ID:	SE5823-2	Percent Solids:	63.9%	Date Received:	9/16/2011
Lab ID:	200-7019-A-2	Specific Gravity:	2.650	Start Date:	9/22/2011
				End Date:	9/24/2011

Shape (> #10): subangular

Non-soil material: N/A

Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.7	0.3
#20	850	98.5	1.2
#40	425	97.2	1.3
#60	250	95.6	1.6
#80	180	94.4	1.2
#100	150	93.4	1.0
#200	75	88.4	5.0
Hyd1	29.3	67.9	20.5
Hyd2	18.9	63.4	4.5
Hyd3	11.2	57.5	5.9
Hyd4	8.1	53.0	4.5
Hyd5	6	47.1	5.9
Hyd6	3	36.6	10.5
Hyd7	1.3	35.1	1.5

Soil Classification	Percent of sample
Gravel	0.0
Sand	11.6
Coarse Sand	0.3
Medium Sand	2.5
Fine Sand	8.8
Silt	41.3
Clay	47.1

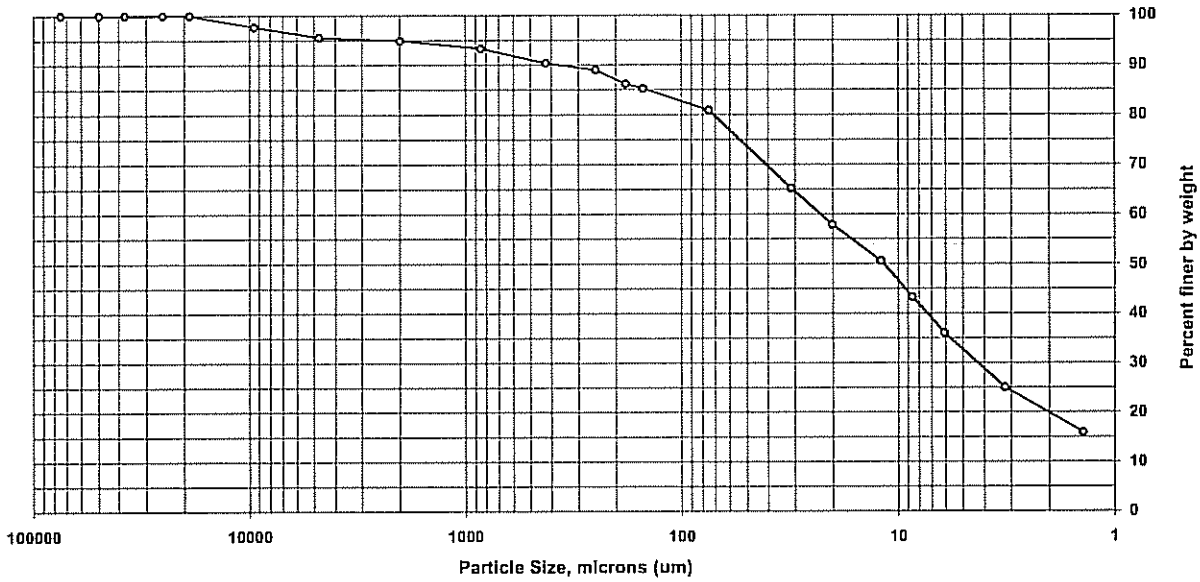
Particle Size of Soils by ASTM D422

				Date Received:	9/16/2011
Sample ID:	SE5823-3	Percent Solids:	55.5%	Start Date:	9/22/2011
Lab ID:	200-7019-A-3	Specific Gravity:	2.650	End Date:	9/24/2011

Shape (> #10): subangular

Non-soil material: plant,shell

Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	97.7	2.3
#4	4750	95.6	2.1
#10	2000	94.9	0.7
#20	850	93.3	1.6
#40	425	90.4	2.9
#60	250	89.0	1.4
#80	180	86.2	2.8
#100	150	85.3	0.9
#200	75	80.9	4.4
Hyd1	31.2	65.2	15.7
Hyd2	20.2	57.9	7.3
Hyd3	12	50.6	7.3
Hyd4	8.6	43.3	7.3
Hyd5	6.1	36.0	7.3
Hyd6	3.2	25.0	11.0
Hyd7	1.4	15.9	9.1

Soil Classification	Percent of sample
Gravel	4.4
Sand	14.7
Coarse Sand	0.7
Medium Sand	4.5
Fine Sand	9.5
Silt	44.9
Clay	36.0

Particle Size of Soils by ASTM D422

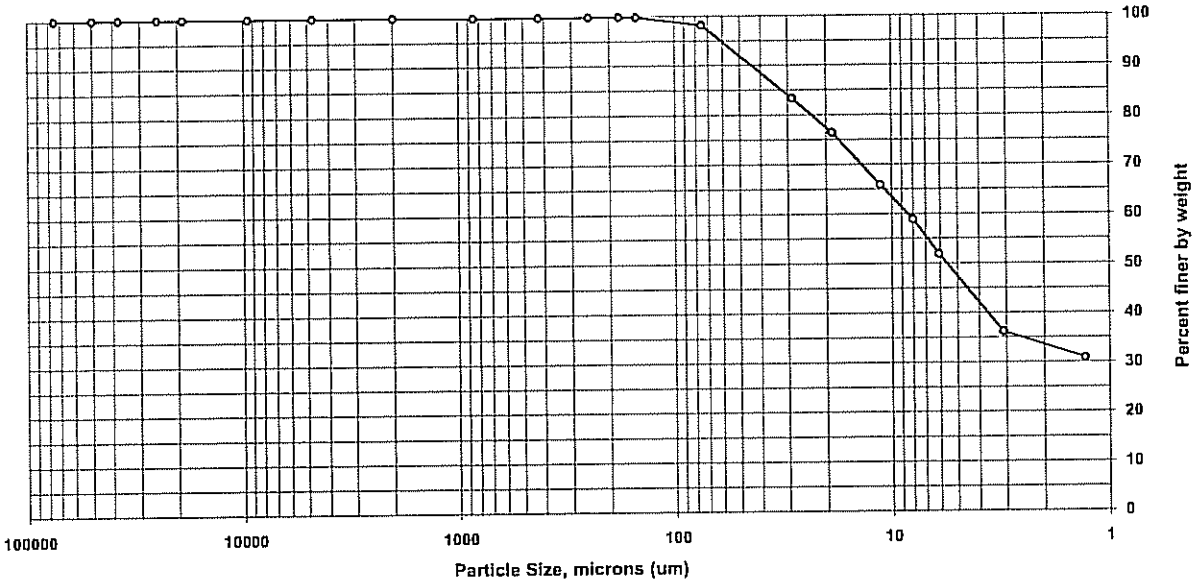
Sample ID: SE5823-4
Lab ID: 200-7019-A-4

Percent Solids: 68.1%
Specific Gravity: 2.650

Date Received: 9/16/2011
Start Date: 9/22/2011
End Date: 9/24/2011

Shape (> #10): N/A

Non-soil material: N/A
Hardness (> #10): N/A



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.8	0.1
#200	75	98.2	1.6
Hyd1	26.8	83.4	14.8
Hyd2	18.8	76.4	7.0
Hyd3	11.3	65.9	10.5
Hyd4	8	58.9	7.0
Hyd5	6.1	51.9	7.0
Hyd6	3.1	36.2	15.7
Hyd7	1.3	30.9	5.3

Soil Classification	Percent of sample
Gravel	0.0
Sand	1.8
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	1.7
Silt	46.3
Clay	51.9

TestAmerica Burlington

Sediment Grain Size - D422

Client		Date Received	9/16/2011
Client Sample ID	SE5823-1	Start Date	09/22/2011 0:02
Lab Sample ID	200-7019-A-1	End Date	09/24/2011 0:17

Dry Weight Determination

Tin Weight	0.99 g	Non-soil material:	plant
Wet Sample + Tin	31.98 g	Shape (> #10):	subangular
Dry Sample + Tin	24.94 g	Hardness (> #10):	hard
% Moisture	22.72 %	Date/Time in oven	09/22/2011 0:03
		Date/Time out of oven	09/22/2011 17:43

Sample Weights	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)		69.60	69.6
Sample Weight (Oven Dried)			53.8

Sample Split (oven dried)	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			0.88
Sample <#10			52.9
% Passing #10			76

Hydrometer Data

Serial Number	741402
Calib. Date (mm/dd/yyyy)	12/21/2010
Low Temp (C)	17.0
Reading at Low Temp	1.0035
High Temp (C)	23.0
Reading at High Temp	1.0030
Hydrometer Cal Slope	-8.33333E-05
Hydrometer Cal Intercept	1.004916667
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.23	488.45	0.22 g	99.6	Gravel	
#10	2000	462.94	463.60	0.66 g	98.4	Sand	Coarse
#20	850	390.53	391.71	1.18 g	96.2	Sand	Medium
#40	425	355.31	357.14	1.83 g	92.8	Sand	Medium
#60	250	335.53	336.71	1.18 g	90.6	Sand	Fine
#80	180	312.89	315.17	2.28 g	86.4	Sand	Fine
#100	150	331.37	332.60	1.23 g	84.1	Sand	Fine
#200	75	320.78	324.92	4.14 g	76.4	Sand	Fine
				0.00 g	76.4		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 53.8

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual		Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
	2	2	1.0240	21.0	30.1	62.2	Silt	
	5	5	1.0220	21.0	19.5	56.2	Silt	
	15	15	1.0200	21.0	11.5	50.3	Silt	
	30	30	1.0185	21.0	8.3	45.8	Silt	
	60	63	1.0165	21.0	5.9	39.8	Silt	
	250	253	1.0135	20.5	3	30.7	Clay	
	1440	1400	1.0120	20.5	1.3	26.2	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client		Date Received	9/16/2011
Client Sample ID	SE5823-2	Start Date	09/22/2011 0:03
Lab Sample ID	200-7019-A-2	End Date	09/24/2011 0:28

Dry Weight Determination

Tin Weight	1.01 g	Non-soil material:	N/A
Wet Sample + Tin	45.36 g	Shape (> #10):	subangular
Dry Sample + Tin	29.33 g	Hardness (> #10):	hard
% Moisture	36.14 %	Date/Time in oven	09/22/2011 0:04
		Date/Time out of oven	09/22/2011 17:43

Sample Weights	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)		84.61	84.61
Sample Weight (Oven Dried)			54

Sample Split (oven dried)	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			0.18
Sample <#10			53.8
% Passing #10			63.6

Hydrometer Data

Serial Number	741402
Calib. Date (mm/dd/yyyy)	12/21/2010
Low Temp (C)	17.0
Reading at Low Temp	1.0035
High Temp (C)	23.0
Reading at High Temp	1.0030
Hydrometer Cal Slope	-8.33333E-05
Hydrometer Cal Intercept	1.004916667
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750			0.00 g	100.0	Gravel	
#10	2000	462.94	463.12	0.18 g	99.7	Sand	Coarse
#20	850	384.04	384.69	0.65 g	98.5	Sand	Medium
#40	425	353.79	354.50	0.71 g	97.2	Sand	Medium
#60	250	341.77	342.65	0.88 g	95.6	Sand	Fine
#80	180	330.82	331.48	0.66 g	94.4	Sand	Fine
#100	150	327.03	327.57	0.54 g	93.4	Sand	Fine
#200	75	312.66	315.35	2.69 g	88.4	Sand	Fine
				0.00 g	88.4		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 54

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0260	21.0	29.3	67.9	Silt	
5	5	1.0245	21.0	18.9	63.4	Silt	
15	15	1.0225	21.0	11.2	57.5	Silt	
30	30	1.0210	21.0	8.1	53	Silt	
60	57	1.0190	21.0	6	47.1	Silt	
250	247	1.0155	20.5	3	36.6	Clay	
1440	1394	1.0150	20.5	1.3	35.1	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client		Date Received	9/16/2011
Client Sample ID	SE5823-3	Start Date	09/22/2011 0:04
Lab Sample ID	200-7019-A-3	End Date	09/24/2011 0:31

Dry Weight Determination

Tin Weight	0.99 g	Non-soil material:	plant,shell
Wet Sample + Tin	35.54 g	Shape (> #10):	subangular
Dry Sample + Tin	20.18 g	Hardness (> #10):	hard
% Moisture	44.46 %		
		Date/Time in oven	09/22/2011 0:05
		Date/Time out of oven	09/22/2011 17:43

Sample Weights	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)		79.11	79.11
Sample Weight (Oven Dried)			43.9

Sample Split (oven dried)	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			2.23
Sample <#10			41.7
% Passing #10			52.7

Hydrometer Data

Serial Number	741402
Calib. Date (mm/dd/yyyy)	12/21/2010
Low Temp (C)	17.0
Reading at Low Temp	1.0035
High Temp (C)	23.0
Reading at High Temp	1.0030
Hydrometer Cal Slope	-8.33333E-05
Hydrometer Cal Intercept	1.004916667
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500	447.50	448.53	1.03 g	97.7	Gravel	
#4	4750	488.23	489.14	0.91 g	95.6	Gravel	
#10	2000	462.94	463.23	0.29 g	94.9	Sand	Coarse
#20	850	390.53	391.22	0.69 g	93.3	Sand	Medium
#40	425	355.31	356.57	1.26 g	90.4	Sand	Medium
#60	250	335.53	336.13	0.60 g	89.0	Sand	Fine
#80	180	312.89	314.11	1.22 g	86.2	Sand	Fine
#100	150	331.37	331.77	0.40 g	85.3	Sand	Fine
#200	75	320.78	322.72	1.94 g	80.9	Sand	Fine
				0.00 g	80.9		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 43.9

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual		Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
	2	2	1.0210	21.0	31.2	65.2	Silt	
	5	5	1.0190	21.0	20.2	57.9	Silt	
	15	15	1.0170	21.0	12	50.6	Silt	
	30	30	1.0150	21.0	8.6	43.3	Silt	
	60	63	1.0130	21.0	6.1	36	Silt	
	250	241	1.0100	21.0	3.2	25	Clay	
	1440	1388	1.0075	21.0	1.4	15.9	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client		Date Received	9/16/2011
Client Sample ID	SE5823-4	Start Date	09/22/2011 0:05
Lab Sample ID	200-7019-A-4	End Date	09/24/2011 0:43

Dry Weight Determination

Tin Weight	1.00 g
Wet Sample + Tin	30.86 g
Dry Sample + Tin	21.32 g
% Moisture	31.95 %

Non-soil material:	N/A
Shape (> #10):	N/A
Hardness (> #10):	N/A
Date/Time in oven	09/22/2011 0:06
Date/Time out of oven	09/22/2011 17:43

Sample Weights	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)		67.41	67.41
Sample Weight (Oven Dried)			45.9

Sample Split (oven dried)	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			0
Sample <#10			45.9
% Passing #10			68.1

Hydrometer Data

Serial Number	741402
Calib. Date (mm/dd/yyyy)	12/21/2010
Low Temp (C)	17.0
Reading at Low Temp	1.0035
High Temp (C)	23.0
Reading at High Temp	1.0030
Hydrometer Cal Slope	-8.33333E-05
Hydrometer Cal Intercept	1.004916667
Default Soil Gravity	2.6500

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750			0.00 g	100.0	Gravel	
#10	2000			0.00 g	100.0	Sand	Coarse
#20	850	384.04	384.10	0.06 g	99.9	Sand	Medium
#40	425	353.79	353.80	0.01 g	99.9	Sand	Medium
#60	250	341.77	341.78	0.01 g	99.9	Sand	Fine
#80	180	330.76	330.76	0.00 g	99.9	Sand	Fine
#100	150	327.03	327.07	0.04 g	99.8	Sand	Fine
#200	75	312.66	313.38	0.72 g	98.2	Sand	Fine
				0.00 g	98.2		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 45.9

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size (Micron)	% Finer	Classification	Sub Class
2	2	1.0270	21.0	28.8	83.4	Silt	
5	5	1.0250	21.0	18.8	76.4	Silt	
15	15	1.0220	21.0	11.3	65.9	Silt	
30	31	1.0200	21.0	8	58.9	Silt	
60	57	1.0180	21.0	6.1	51.9	Silt	
250	235	1.0135	21.0	3.1	36.2	Clay	
1440	1382	1.0120	21.0	1.3	30.9	Clay	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

QUALITY CONTROL RESULTS

Client: Katahdin Analytical Services

Job Number: 200-7019-1
Sdg Number: SE5823

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Geotechnical					
Analysis Batch:200-25733					
200-7019-1	SE5823-1	T	Solid	D422	
200-7019-2	SE5823-2	T	Solid	D422	
200-7019-3	SE5823-3	T	Solid	D422	
200-7019-4	SE5823-4	T	Solid	D422	

Report Basis
T = Total

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: Katahdin Analytical | Contact: Kelly Perkins | Phone #: ( ) | Fax #: ( )

Address | City | State | Zip Code

Purchase Order # | Proj. Name / No.: Capisic Pond / 203939 | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign) | Copies To:

LAB USE ONLY | WORK ORDER #: SE5823

KATAHDIN PROJECT NUMBER

REMARKS: To: Test America, VT

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☐N Grain Size	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	SE5823-1	9-14-11/8:20	SL	1	✓									
	SE5823-2	/09:05	↓	↓	↓									
	SE5823-3	/11:40												
	SE5823-4	/10:20												
		/												
		/												
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COMMENTS

QC II Results by 10/3/11 please!

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Dn Medli	9/15/11 0930	C 09/16/11 0922			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

Login Sample Receipt Checklist

Client: Katahdin Analytical Services

Job Number: 200-7019-1
SDG Number: SE5823

List Source: TestAmerica Burlington

Login Number: 7019
List Number: 1
Creator: Marion, Greg T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO SEAL NUMBERS
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	17.5°C IR GUN ID 96/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not requested on COC.
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

From:
WILLARD WARREN
KATAHDIN ANALYTICAL SERVICES
600 TECHNOLOGY WAY

SCARBOROUGH, ME 04074
(207) 874-2400

Ship Date: 15SEP11
ActWgt: 6.3 LB
CAD: 683287/CAFE2472

TO SAMPLE RECEIPT
TEST AMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON, VT 05403 (US)

FedEx Ground

Ref:
INV:
PO: Dept:

1 of 1

(96 12019) 8146969 60043208

GND
Prepaid

THIS PACKA
APPROVAL

49 CFR

SGS

Laboratory Report of Analysis

To: Kelly Perkins
Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074

Report Number: **31102529**

Client Project: **Capisic Pond/203939**

Dear Kelly Perkins,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Amy J. Boehm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Amy Boehm
Date: 2011.10.03 14:32:22 - 05'00'

Amy J. Boehm
Project Manager
amy.boehm@sgs.com

Date

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < LOD)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Amount detected is between the Method Detection Limit and the Lower Calibration Limit
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

SGS North America Inc. 5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 f 910.350.1557 www.us.sgs.com

Member of SGS Group

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SE5823-1	31102529001	09/14/2011 08:20	09/16/2011 09:45	Soil-Solid as dry weight
SE5823-2	31102529002	09/14/2011 09:05	09/16/2011 09:45	Soil-Solid as dry weight
SE5823-3	31102529003	09/14/2011 11:40	09/16/2011 09:45	Soil-Solid as dry weight
SE5823-4	31102529004	09/14/2011 10:20	09/16/2011 09:45	Soil-Solid as dry weight

	A	B	C	D	E	F
1	TEQ Calculations using tables in Chapter 405 of the ME Solid Waste Rules					
2						
3	Compound Name	Reporting TEF Table 405.1	Compliance TEF Table 405.2	Lab Result	Calculated TEQ for Reporting	Calculated TEQ for Compliance
4	2,3,7,8 TCDF	0.1	0.1	0.000	0.000	0.000
5	Other TCDF**	0	0.001	1.08	0.000	0.00108
6	2,3,7,8 TCDD	1	1	0.000	0.000	0.000
7	Other TCDD**	0	0.01	0.000	0.000	0.000
8	1,2,3,7,8 PeCDF	0.05	0.1	0.000	0.000	0.000
9	2,3,4,7,8 PeCDF	0.5	0.1	0.688	0.344	0.0688
10	Other PeCDF***	0	0.001	6.09	0.000	0.00540
11	1,2,3,7,8 PeCDD	0.5	0.5	0.000	0.000	0.000
12	Other PeCDD***	0	0.005	0.707	0.000	0.00354
13	1,2,3,4,7,8 HxCDF	0.1	0.01	0.000	0.000	0.000
14	1,2,3,7,8,9-HxCDF	0.1	0.01	0.000	0.000	0.000
15	2,3,4,6,7,8 HxCDF	0.1	0.01	0.605	0.0605	0.00605
16	1,2,3,6,7,8-HxCDF	0.1	0.01	0.333	0.0333	0.00333
17	Other HxCDF***	0	0.0001	5.84	0.000	0.000490
18	1,2,3,4,7,8 HxCDD	0.1	0.04	0.496	0.0496	0.0198
19	1,2,3,6,7,8 HxCDD	0.1	0.04	1.14	0.114	0.0456
20	1,2,3,7,8,9 HxCDD	0.1	0.04	1.22	0.122	0.0488
21	Other HxCDD***	0	0.0004	11.8	0.000	0.00358
22	1,2,3,4,6,7,8 HpCDF	0.01	0.001	2.86	0.0286	0.00286
23	1,2,3,4,7,8,9 HpCDF	0.01	0.001	0.000	0.000	0.000
24	Other HpCDF***	0	0.00001	7.70	0.000	0.0000484
25	1,2,3,4,6,7,8 HpCDD	0.01	0.001	79.0	0.790	0.0790
26	Other HpCDD***	0	0.00001	191	0.000	0.00112
27	1,2,3,4,6,7,8,9 OCDF	0.001	0.001	6.16	0.00616	0.00616
28	1,2,3,4,6,7,8,9 OCDD	0.001	0	2170	2.170	0.000
29	Totals:				3.72	0.296
30		EPA 89				
31	*** Use lab result for "total" and the spreadsheet will calculate "other"					

Results of **SE5823-1**

Client Sample ID: **SE5823-1**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529001-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 08:20
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 76.40

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.177	0.463	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.185	2.31	pg/g		
1,2,3,4,7,8-HxCDD	**0.496**		J	0.219	2.31	pg/g	34.44	1.15
1,2,3,6,7,8-HxCDD	**1.14**		J	0.276	2.31	pg/g	34.56	1.42
1,2,3,7,8,9-HxCDD	**1.22**		J	0.251	2.31	pg/g	34.62	1.14
1,2,3,4,6,7,8-HpCDD	**79.0**			0.734	2.31	pg/g	38.47	1.03
OCDD	**2170**			1.52	4.63	pg/g	43.67	0.91
2,3,7,8-TCDF	ND		U	0.426	0.463	pg/g		
1,2,3,7,8-PeCDF	ND		U	0.0737	2.31	pg/g		
2,3,4,7,8-PeCDF	**0.688**		J	0.0594	2.31	pg/g	31.30	1.09
1,2,3,4,7,8-HxCDF	ND		U	0.124	2.31	pg/g		
1,2,3,6,7,8-HxCDF		0.333	J	0.153	2.31	pg/g	33.71	1.97
2,3,4,6,7,8-HxCDF	**0.605**		J	0.160	2.31	pg/g	34.29	1.28
1,2,3,7,8,9-HxCDF	ND		U	0.199	2.31	pg/g		
1,2,3,4,6,7,8-HpCDF	**2.86**			0.213	2.31	pg/g	36.95	0.95
1,2,3,4,7,8,9-HpCDF	ND		U	0.271	2.31	pg/g		
OCDF	**6.16**			0.473	4.63	pg/g	44.00	0.94
Total TCDD	ND		U	0.177	0.463	pg/g		
Total TCDF	ND	1.08		0.426	0.463	pg/g		
Total PeCDD	**0.707**		J	0.213	2.31	pg/g		
Total PeCDF	**6.09**			3.46	3.46	pg/g		
Total HxCDD	**9.94**	11.8		0.276	2.31	pg/g		
Total HxCDF	**4.95**	5.84		0.199	2.31	pg/g		
Total HpCDD	**191**			0.939	2.31	pg/g		
Total HpCDF	**7.70**			0.318	2.31	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	2.02	2.25	2.48
WHO-2005 TEQ w/EMPC	pg/g	2.06	2.28	2.50

Results of **SE5823-1**

Client Sample ID: **SE5823-1**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529001-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 08:20
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 76.40

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	92.0				25.0-164	%		
13C-12378-PeCDD	90.0				25.0-181	%		
13C-123478-HxCDD	107				32.0-141	%		
13C-123678-HxCDD	97.0				28.0-130	%		
13C-1234678-HpCDD	90.0				23.0-140	%		
13C-OCDD	97.0				17.0-157	%		
13C-2378-TCDF	87.0				24.0-169	%		
13C-12378-PeCDF	79.0				24.0-185	%		
13C-23478-PeCDF	97.0				21.0-178	%		
13C-123478-HxCDF	99.0				26.0-152	%		
13C-123678-HxCDF	84.0				26.0-123	%		
13C-234678-HxCDF	86.0				29.0-147	%		
13C-123789-HxCDF	87.0				28.0-136	%		
13C-1234678-HpCDF	81.0				28.0-143	%		
13C-1234789-HpCDF	101				26.0-138	%		
37Cl-2378-TCDD	94.0				35.0-197	%		

Batch Information

Analytical Batch: HRD1307
Analytical Method: EPA 1613B
Instrument: HRMS2
Analyst: JHL
Analytical Date/Time: 09/29/2011 07:42
Dilution: 1

Prep Batch: HXA1279
Prep Method: EPA 1613 PREP S/D/T
Prep Date/Time: 09/20/2011 17:00
Prep Initial Wt./Vol.: 14.14 g
Prep Extract Vol.: 20 uL

	A	B	C	D	E	F
1	TEQ Calculations using tables in Chapter 405 of the ME Solid Waste Rules					
2						
3	Compound Name	Reporting TEF Table 405.1	Compliance TEF Table 405.2	Lab Result	Calculated TEQ for Reporting	Calculated TEQ for Compliance
4	2,3,7,8 TCDF	0.1	0.1	0.391	0.0391	0.0391
5	Other TCDF**	0	0.001	2.70	0.000	0.00231
6	2,3,7,8 TCDD	1	1	0.000	0.000	0.000
7	Other TCDD**	0	0.01	0.000	0.000	0.000
8	1,2,3,7,8 PeCDF	0.05	0.1	0.000	0.000	0.000
9	2,3,4,7,8 PeCDF	0.5	0.1	0.800	0.400	0.0800
10	Other PeCDF***	0	0.001	7.21	0.000	0.00641
11	1,2,3,7,8 PeCDD	0.5	0.5	0.000	0.000	0.000
12	Other PeCDD***	0	0.005	0.547	0.000	0.00274
13	1,2,3,4,7,8 HxCDF	0.1	0.01	0.000	0.000	0.000
14	1,2,3,7,8,9-HxCDF	0.1	0.01	0.000	0.000	0.000
15	2,3,4,6,7,8 HxCDF	0.1	0.01	0.860	0.0860	0.00860
16	1,2,3,6,7,8-HxCDF	0.1	0.01	0.558	0.0558	0.00558
17	Other HxCDF***	0	0.0001	9.16	0.000	0.000774
18	1,2,3,4,7,8 HxCDD	0.1	0.04	0.499	0.0499	0.0200
19	1,2,3,6,7,8 HxCDD	0.1	0.04	1.44	0.144	0.0576
20	1,2,3,7,8,9 HxCDD	0.1	0.04	1.07	0.107	0.0428
21	Other HxCDD***	0	0.0004	9.10	0.000	0.00244
22	1,2,3,4,6,7,8 HpCDF	0.01	0.001	6.56	0.0656	0.00656
23	1,2,3,4,7,8,9 HpCDF	0.01	0.001	0.473	0.00473	0.000
24	Other HpCDF***	0	0.00001	18.2	0.000	0.000112
25	1,2,3,4,6,7,8 HpCDD	0.01	0.001	25.7	0.257	0.0257
26	Other HpCDD***	0	0.00001	55.6	0.000	0.000299
27	1,2,3,4,6,7,8,9 OCDF	0.001	0.001	14.5	0.0145	0.01450
28	1,2,3,4,6,7,8,9 OCDD	0.001	0	225	0.225	0.000
29	Totals:				1.45	0.316
30		EPA 89				
31	*** Use lab result for "total" and the spreadsheet will calculate "other"					

Results of **SE5823-2**

Client Sample ID: **SE5823-2**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529002-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 09:05
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 62.50

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.186	0.465	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.229	2.33	pg/g		
1,2,3,4,7,8-HxCDD	**0.499**		J	0.168	2.33	pg/g	34.44	1.20
1,2,3,6,7,8-HxCDD	**1.44**		J	0.219	2.33	pg/g	34.59	1.20
1,2,3,7,8,9-HxCDD		1.07	J	0.195	2.33	pg/g	34.81	1.01*
1,2,3,4,6,7,8-HpCDD	**25.7**			0.455	2.33	pg/g	38.46	1.05
OCDD	**225**			0.943	4.65	pg/g	43.66	0.87
2,3,7,8-TCDF		0.391	J	0.240	0.465	pg/g	27.09	1.01*
1,2,3,7,8-PeCDF	ND		U	0.106	2.33	pg/g		
2,3,4,7,8-PeCDF	**0.800**		J	0.0925	2.33	pg/g	31.27	1.52
1,2,3,4,7,8-HxCDF	ND		U	0.101	2.33	pg/g		
1,2,3,6,7,8-HxCDF	**0.558**		J	0.119	2.33	pg/g	33.72	1.08
2,3,4,6,7,8-HxCDF	**0.860**		J	0.134	2.33	pg/g	34.29	1.14
1,2,3,7,8,9-HxCDF	ND		U	0.160	2.33	pg/g		
1,2,3,4,6,7,8-HpCDF	**6.56**			0.203	2.33	pg/g	36.94	1.01
1,2,3,4,7,8,9-HpCDF		0.473	J	0.246	2.33	pg/g	39.24	0.80*
OCDF	**14.5**			0.458	4.65	pg/g	43.99	0.90
Total TCDD	ND		U	0.186	0.465	pg/g		
Total TCDF	**1.51**	2.70		0.240	0.465	pg/g		
Total PeCDD	**0.547**		J	0.263	2.33	pg/g		
Total PeCDF	**6.96**	7.21		3.87	3.87	pg/g		
Total HxCDD	**5.44**	9.10		0.219	2.33	pg/g		
Total HxCDF	**9.16**			0.160	2.33	pg/g		
Total HpCDD	**55.6**			0.581	2.33	pg/g		
Total HpCDF	**17.7**	18.2		0.296	2.33	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	0.970	1.22	1.46
WHO-2005 TEQ w/EMPC	pg/g	1.12	1.34	1.57

Results of **SE5823-2**

Client Sample ID: **SE5823-2**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529002-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 09:05
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 62.50

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Rmin
Labeled Standards								
13C-2378-TCDD	88.0				25.0-164	%		
13C-12378-PeCDD	88.0				25.0-181	%		
13C-123478-HxCDD	109				32.0-141	%		
13C-123678-HxCDD	93.0				28.0-130	%		
13C-1234678-HpCDD	90.0				23.0-140	%		
13C-OCDD	81.0				17.0-157	%		
13C-2378-TCDF	80.0				24.0-169	%		
13C-12378-PeCDF	81.0				24.0-185	%		
13C-23478-PeCDF	96.0				21.0-178	%		
13C-123478-HxCDF	100				26.0-152	%		
13C-123678-HxCDF	85.0				26.0-123	%		
13C-234678-HxCDF	85.0				29.0-147	%		
13C-123789-HxCDF	87.0				28.0-136	%		
13C-1234678-HpCDF	79.0				28.0-143	%		
13C-1234789-HpCDF	96.0				26.0-138	%		
37Cl-2378-TCDD	85.0				35.0-197	%		

Batch Information

Analytical Batch: HRD1397
Analytical Method: EPA 1613B
Instrument: HRMS2
Analyst: JHL
Analytical Date/Time: 09/29/2011 08:30
Dilution: 1

Prep Batch: HXX1279
Prep Method: EPA 1613 PREP S/D/T
Prep Date/Time: 09/26/2011 17:00
Prep Initial Wt./Vol.: 17.19 g
Prep Extract Vol: 20 uL

	A	B	C	D	E	F
1	TEQ Calculations using tables in Chapter 405 of the ME Solid Waste Rules					
2						
3	Compound Name	Reporting TEF Table 405.1	Compliance TEF Table 405.2	Lab Result	Calculated TEQ for Reporting	Calculated TEQ for Compliance
4	2,3,7,8 TCDF	0.1	0.1	0.619	0.0619	0.0619
5	Other TCDF**	0	0.001	8.54	0.000	0.00792
6	2,3,7,8 TCDD	1	1	0.000	0.000	0.000
7	Other TCDD**	0	0.01	0.000	0.000	0.000
8	1,2,3,7,8 PeCDF	0.05	0.1	0.258	0.0129	0.0258
9	2,3,4,7,8 PeCDF	0.5	0.1	2.18	1.09	0.218
10	Other PeCDF***	0	0.001	18.3	0.000	0.0159
11	1,2,3,7,8 PeCDD	0.5	0.5	0.350	0.175	0.175
12	Other PeCDD***	0	0.005	3.35	0.000	0.0150
13	1,2,3,4,7,8 HxCDF	0.1	0.01	0.595	0.0595	0.00595
14	1,2,3,7,8,9-HxCDF	0.1	0.01	0.000	0.000	0.000
15	2,3,4,6,7,8 HxCDF	0.1	0.01	1.34	0.134	0.0134
16	1,2,3,6,7,8-HxCDF	0.1	0.01	0.961	0.0961	0.00961
17	Other HxCDF***	0	0.0001	16.7	0.000	0.00138
18	1,2,3,4,7,8 HxCDD	0.1	0.04	0.552	0.0552	0.0221
19	1,2,3,6,7,8 HxCDD	0.1	0.04	2.19	0.219	0.0876
20	1,2,3,7,8,9 HxCDD	0.1	0.04	1.38	0.138	0.0552
21	Other HxCDD***	0	0.0004	14.7	0.000	0.0042
22	1,2,3,4,6,7,8 HpCDF	0.01	0.001	5.48	0.0548	0.00548
23	1,2,3,4,7,8,9 HpCDF	0.01	0.001	0.372	0.00372	0.000
24	Other HpCDF***	0	0.00001	15.0	0.000	0.0000915
25	1,2,3,4,6,7,8 HpCDD	0.01	0.001	35.7	0.357	0.0357
26	Other HpCDD***	0	0.00001	79.3	0.000	0.000436
27	1,2,3,4,6,7,8,9 OCDF	0.001	0.001	11.5	0.0115	0.0115
28	1,2,3,4,6,7,8,9 OCDD	0.001	0	447	0.447	0.000
29	Totals:				2.92	0.773
30		EPA 89				
31	*** Use lab result for "total" and the spreadsheet will calculate "other"					

Results of **SE5823-3**

Client Sample ID: **SE5823-3**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529003-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 11:40
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 51.80

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.236	0.489	pg/g		
1,2,3,7,8-PeCDD	**0.350**		J	0.180	2.45	pg/g	31.48	1.37
1,2,3,4,7,8-HxCDD		0.552	J	0.280	2.45	pg/g	34.44	0.63*
1,2,3,6,7,8-HxCDD	**2.19**		J	0.341	2.45	pg/g	34.54	1.22
1,2,3,7,8,9-HxCDD	**1.38**		J	0.314	2.45	pg/g	34.81	1.26
1,2,3,4,6,7,8-HpCDD	**35.7**			0.502	2.45	pg/g	38.47	1.01
OCDD	**447**			0.811	4.89	pg/g	43.66	0.90
2,3,7,8-TCDF	0.666			0.389	0.489	pg/g	27.05	0.88
2,3,7,8-TCDF [confirm]		0.619		0.218	0.489	pg/g	11.92	1.00*
1,2,3,7,8-PeCDF		0.258	J	0.123	2.45	pg/g	30.59	2.16*
2,3,4,7,8-PeCDF		2.18	J	0.0975	2.45	pg/g	31.30	1.20*
1,2,3,4,7,8-HxCDF		0.595	J	0.175	2.45	pg/g	33.61	1.05*
1,2,3,6,7,8-HxCDF		0.961	J	0.219	2.45	pg/g	33.72	1.99*
2,3,4,6,7,8-HxCDF		1.34	J	0.221	2.45	pg/g	34.28	1.00*
1,2,3,7,8,9-HxCDF	ND		U	0.286	2.45	pg/g		
1,2,3,4,6,7,8-HpCDF	**5.48**			0.271	2.45	pg/g	36.94	1.06
1,2,3,4,7,8,9-HpCDF	**0.372**		J	0.315	2.45	pg/g	39.24	0.92
OCDF	**11.5**			0.462	4.89	pg/g	43.99	0.89
Total TCDD	ND		U	0.236	0.489	pg/g		
Total TCDF	**5.46**	8.54		0.389	0.489	pg/g		
Total PeCDD	**1.75**	3.35	J	0.207	2.45	pg/g		
Total PeCDF	**15.1**	18.3		9.66	9.66	pg/g		
Total HxCDD	**13.7**	14.7		0.341	2.45	pg/g		
Total HxCDF	**13.8**	16.7		0.286	2.45	pg/g		
Total HpCDD	**79.3**			0.642	2.45	pg/g		
Total HpCDF	**15.0**			0.386	2.45	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	1.26	1.46	1.67
WHO-2005 TEQ w/EMPC	pg/g	2.33	2.46	2.59

Results of **SE5823-3**

Client Sample ID: **SE5823-3**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529003-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 11:40
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 51.80

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Rel RT
Labeled Standards								
13C-2378-TCDD	76.0				25.0-164	%		
13C-12378-PeCDD	87.0				25.0-181	%		
13C-123478-HxCDD	104				32.0-141	%		
13C-123678-HxCDD	92.0				28.0-130	%		
13C-1234678-HpCDD	90.0				23.0-140	%		
13C-OCDD	87.0				17.0-157	%		
13C-2378-TCDF	56.0				24.0-169	%		
13C-12378-PeCDF	80.0				24.0-185	%		
13C-23478-PeCDF	96.0				21.0-178	%		
13C-123478-HxCDF	99.0				26.0-152	%		
13C-123678-HxCDF	82.0				26.0-123	%		
13C-234678-HxCDF	84.0				29.0-147	%		
13C-123789-HxCDF	86.0				28.0-136	%		
13C-1234678-HpCDF	78.0				28.0-143	%		
13C-1234789-HpCDF	98.0				26.0-138	%		
37Cl-2378-TCDD	81.0				35.0-197	%		

Batch Information

Analytical Batch: HRD1397
Analytical Method: EPA 1613B
Instrument: HRMS2
Analyst: JHL
Analytical Date/Time: 09/29/2011 09:16
Dilution: 1

Prep Batch: HXX1279
Prep Method: EPA 1613 PREP S/D/T
Prep Date/Time: 09/26/2011 17:00
Prep Initial Wt./Vol.: 19.73 g
Prep Extract Vol: 20 uL

Analytical Batch: HRD1401
Analytical Method: EPA 1613B
Instrument: HRMS3
Analyst: JHL
Analytical Date/Time: 09/29/2011 12:52
Dilution: 1

Prep Batch: HXX1279
Prep Method: EPA 1613 PREP S/D/T
Prep Date/Time: 09/26/2011 17:00
Prep Initial Wt./Vol.: 19.73 g
Prep Extract Vol: 20 uL

	A	B	C	D	E	F
1	TEQ Calculations using tables in Chapter 405 of the ME Solid Waste Rules					
2						
3	Compound Name	Reporting TEF Table 405.1	Compliance TEF Table 405.2	Lab Result	Calculated TEQ for Reporting	Calculated TEQ for Compliance
4	2,3,7,8 TCDF	0.1	0.1	0.000	0.000	0.000
5	Other TCDF**	0	0.001	1.67	0.000	0.00167
6	2,3,7,8 TCDD	1	1	0.000	0.000	0.000
7	Other TCDD**	0	0.01	0.000	0.000	0.000
8	1,2,3,7,8 PeCDF	0.05	0.1	0.000	0.000	0.000
9	2,3,4,7,8 PeCDF	0.5	0.1	0.435	0.218	0.0435
10	Other PeCDF***	0	0.001	3.65	0.000	0.00322
11	1,2,3,7,8 PeCDD	0.5	0.5	0.000	0.000	0.000
12	Other PeCDD***	0	0.005	0.000	0.000	0.000
13	1,2,3,4,7,8 HxCDF	0.1	0.01	0.000	0.000	0.000
14	1,2,3,7,8,9-HxCDF	0.1	0.01	0.000	0.000	0.000
15	2,3,4,6,7,8 HxCDF	0.1	0.01	0.000	0.000	0.000
16	1,2,3,6,7,8-HxCDF	0.1	0.01	0.200	0.0200	0.00200
17	Other HxCDF***	0	0.0001	2.72	0.000	0.000252
18	1,2,3,4,7,8 HxCDD	0.1	0.04	0.000	0.000	0.000
19	1,2,3,6,7,8 HxCDD	0.1	0.04	0.451	0.0451	0.0180
20	1,2,3,7,8,9 HxCDD	0.1	0.04	0.453	0.0453	0.0181
21	Other HxCDD***	0	0.0004	4.74	0.000	0.00153
22	1,2,3,4,6,7,8 HpCDF	0.01	0.001	0.665	0.00665	0.000665
23	1,2,3,4,7,8,9 HpCDF	0.01	0.001	0.000	0.000	0.000
24	Other HpCDF***	0	0.00001	2.18	0.000	0.0000152
25	1,2,3,4,6,7,8 HpCDD	0.01	0.001	32.7	0.327	0.0327
26	Other HpCDD***	0	0.00001	84.8	0.000	0.000521
27	1,2,3,4,6,7,8,9 OCDF	0.001	0.001	1.19	0.00119	0.00119
28	1,2,3,4,6,7,8,9 OCDD	0.001	0	1210	1.21	0.000
29	Totals:				1.87	0.123
30		EPA 89				
31	*** Use lab result for "total" and the spreadsheet will calculate "other"					

Results of **SE5823-4**

Client Sample ID: **SE5823-4**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529004-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 10:20
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 68.40

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.174	0.495	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.157	2.47	pg/g		
1,2,3,4,7,8-HxCDD	ND		U	0.221	2.47	pg/g		
1,2,3,6,7,8-HxCDD	**0.451**		J	0.276	2.47	pg/g	34.53	1.40
1,2,3,7,8,9-HxCDD	**0.453**		J	0.252	2.47	pg/g	34.81	1.31
1,2,3,4,6,7,8-HpCDD	**32.7**			0.549	2.47	pg/g	38.46	1.07
OCDD	**1210**			1.17	4.95	pg/g	43.65	0.89
2,3,7,8-TCDF	ND		U	0.180	0.495	pg/g		
1,2,3,7,8-PeCDF	ND		U	0.0837	2.47	pg/g		
2,3,4,7,8-PeCDF	**0.435**		J	0.0730	2.47	pg/g	31.28	1.54
1,2,3,4,7,8-HxCDF	ND		U	0.134	2.47	pg/g		
1,2,3,6,7,8-HxCDF	**0.200**		J	0.166	2.47	pg/g	33.71	1.11
2,3,4,6,7,8-HxCDF	ND		U	0.173	2.47	pg/g		
1,2,3,7,8,9-HxCDF	ND		U	0.213	2.47	pg/g		
1,2,3,4,6,7,8-HpCDF		0.665	J	0.209	2.47	pg/g	36.93	1.26*
1,2,3,4,7,8,9-HpCDF	ND		U	0.261	2.47	pg/g		
OCDF		1.19	J	0.413	4.95	pg/g	44.00	1.95*
Total TCDD	ND		U	0.174	0.495	pg/g		
Total TCDF	**0.869**	1.67		0.180	0.495	pg/g		
Total PeCDD	ND		U	0.157	2.47	pg/g		
Total PeCDF	**2.55**	3.65		2.11	2.47	pg/g		
Total HxCDD	**4.34**	4.74		0.276	2.47	pg/g		
Total HxCDF	**2.41**	2.72	J	0.213	2.47	pg/g		
Total HpCDD	**84.8**			0.703	2.47	pg/g		
Total HpCDF	**1.52**	2.18	J	0.308	2.47	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	0.931	1.15	1.36
WHO-2005 TEQ w/EMPC	pg/g	0.938	1.15	1.37

Results of **SE5823-4**

Client Sample ID: **SE5823-4**
Client Project ID: **Capisic Pond/203939**
Lab Sample ID: 31102529004-A
Lab Project ID: 31102529

Collection Date: 09/14/2011 10:20
Received Date: 09/16/2011 09:45
Matrix: Soil-Solid as dry weight
Solids (%): 68.40

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	88.0				25.0-164	%		
13C-12378-PeCDD	88.0				25.0-181	%		
13C-123478-HxCDD	109				32.0-141	%		
13C-123678-HxCDD	95.0				28.0-130	%		
13C-1234678-HpCDD	92.0				23.0-140	%		
13C-OCDD	98.0				17.0-157	%		
13C-2378-TCDF	84.0				24.0-169	%		
13C-12378-PeCDF	83.0				24.0-185	%		
13C-23478-PeCDF	99.0				21.0-178	%		
13C-123478-HxCDF	101				26.0-152	%		
13C-123678-HxCDF	85.0				26.0-123	%		
13C-234678-HxCDF	86.0				29.0-147	%		
13C-123789-HxCDF	90.0				28.0-136	%		
13C-1234678-HpCDF	84.0				28.0-143	%		
13C-1234789-HpCDF	101				26.0-138	%		
37Cl-2378-TCDD	88.0				35.0-197	%		

Batch Information

Analytical Batch: HRD1397
Analytical Method: EPA 1613B
Instrument: HRMS2
Analyst: JHL
Analytical Date/Time: 09/29/2011 10:05
Dilution: 1

Prep Batch: HXX1379
Prep Method: EPA 1613 PREP S/D/T
Prep Date/Time: 09/26/2011 17:00
Prep Initial Wt./Vol.: 14.78 g
Prep Extract Vol.: 20 uL

Batch Summary

Analytical Method: EPA 1613B

Prep Method: EPA 1613 PREP S/D/T
Prep Batch: HXX1279
Prep Date: 09/26/2011 17:00

Client Sample ID	Lab Sample ID	Analysis Date	Analytical Batch	Instrument	Analyst
OPR for HBN 12239 [HXX/1279]	41227	09/29/2011 02:02	HRD1397	HRMS2	JHL
OPRD for HBN 12239 [HXX/1279]	41228	09/29/2011 02:49	HRD1397	HRMS2	JHL
LMB for HBN 12239 [HXX/1279]	41226	09/29/2011 03:37	HRD1397	HRMS2	JHL
SE5823-1	31102529001	09/29/2011 07:42	HRD1397	HRMS2	JHL
SE5823-2	31102529002	09/29/2011 08:30	HRD1397	HRMS2	JHL
SE5823-3	31102529003	09/29/2011 09:18	HRD1397	HRMS2	JHL
SE5823-4	31102529004	09/29/2011 10:05	HRD1397	HRMS2	JHL
SE5823-3	31102529003	09/29/2011 12:52	HRD1401	HRMS3	JHL

Method Blank Summary

Blank ID: LMB for HBN 12239 [HXX/1279]
Blank Lab ID: 41226
QC for Samples:
31102529001, 31102529002, 31102529003, 31102529004

Matrix: Soil-Solid as dry weight

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Rels
2,3,7,8-TCDD	ND		U	0.134	0.500	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.119	2.50	pg/g		
1,2,3,4,7,8-HxCDD	ND		U	0.127	2.50	pg/g		
1,2,3,6,7,8-HxCDD	ND		U	0.160	2.50	pg/g		
1,2,3,7,8,9-HxCDD	ND		U	0.145	2.50	pg/g		
1,2,3,4,6,7,8-HpCDD	ND		U	0.210	2.50	pg/g		
OCDD	ND		U	0.556	5.00	pg/g		
2,3,7,8-TCDF	ND		U	0.110	0.500	pg/g		
1,2,3,7,8-PeCDF	ND		U	0.0652	2.50	pg/g		
2,3,4,7,8-PeCDF	ND		U	0.0554	2.50	pg/g		
1,2,3,4,7,8-HxCDF	ND		U	0.0698	2.50	pg/g		
1,2,3,6,7,8-HxCDF	ND		U	0.0842	2.50	pg/g		
2,3,4,6,7,8-HxCDF	ND		U	0.0900	2.50	pg/g		
1,2,3,7,8,9-HxCDF	ND		U	0.116	2.50	pg/g		
1,2,3,4,6,7,8-HpCDF	ND		U	0.137	2.50	pg/g		
1,2,3,4,7,8,9-HpCDF	ND		U	0.178	2.50	pg/g		
OCDF	ND		U	0.386	5.00	pg/g		
Total TCDD	ND		U	0.134	0.500	pg/g		
Total TCDF	ND		U	0.110	0.500	pg/g		
Total PeCDD	ND		U	0.119	2.50	pg/g		
Total PeCDF	ND		U	0.0652	2.50	pg/g		
Total HxCDD	ND		U	0.160	2.50	pg/g		
Total HxCDF	ND		U	0.116	2.50	pg/g		
Total HpCDD	ND		U	0.210	2.50	pg/g		
Total HpCDF	ND		U	0.178	2.50	pg/g		
Labeled Standards								
13C-2378-TCDD	84.0				25.0-164	%		
13C-12378-PeCDD	85.0				25.0-181	%		
13C-123478-HxCDD	100				32.0-141	%		
13C-123678-HxCDD	87.0				28.0-130	%		
13C-1234678-HpCDD	86.0				23.0-140	%		
13C-OCDD	79.0				17.0-157	%		
13C-2378-TCDF	79.0				24.0-169	%		
13C-12378-PeCDF	78.0				24.0-185	%		
13C-23478-PeCDF	91.0				21.0-178	%		
13C-123478-HxCDF	91.0				26.0-152	%		
13C-123678-HxCDF	78.0				26.0-123	%		
13C-234678-HxCDF	78.0				29.0-147	%		
13C-123789-HxCDF	79.0				28.0-136	%		
13C-1234678-HpCDF	75.0				28.0-143	%		
13C-1234789-HpCDF	88.0				26.0-138	%		

Method Blank Summary

Blank ID: LMB for HBN 12239 [HXX/1279]
Blank Lab ID: 41226
QC for Samples:
31102529001, 31102529002, 31102529003, 31102529004

Matrix: Soil-Solid as dry weight

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Relrp
37Cl-2378-TCDD	85.0				35.0-197	%		

Batch Information

Analytical Batch: HRD1397
Analytical Method: EPA 1613B
Instrument: HRMS2
Analyst: JHL
Analytical Date/Time: 09/29/2011 03:37
Dilution: 1

Prep Batch: HXX1279
Prep Method: EPA 1613 PREP S/D/T
Prep Date/Time: 09/26/2011 17:00
Prep Initial Wt./Vol.: 10 g
Prep Extract Vol: 20 uL

Blank Spike Summary

Blank Spike ID: OPR for HBN 12239 [HXX/1279]
Blank Spike Lab ID: 41227
Date Analyzed: 09/29/2011 02:02

Spike Duplicate ID: OPRD for HBN 12239 [HXX/1279]
Spike Duplicate Lab ID: 41228
Date Analyzed: 09/29/2011 02:49
Matrix: Soil-Solid as dry weight

QC for Samples: 31102529001, 31102529002, 31102529003, 31102529004

Results by **EPA 1613B**

	Blank Spike (pg/g)			Spike Duplicate (pg/g)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
2,3,7,8-TCDD	20.0	19.3	96	20.0	19.0	95	67.0-158	1.6	20.00
1,2,3,7,8-PeCDD	100	99.0	99	100	95.5	95	70.0-142	3.6	20.00
1,2,3,4,7,8-HxCDD	100	79.1	79	100	78.4	78	70.0-164	0.89	20.00
1,2,3,6,7,8-HxCDD	100	102	102	100	96.7	97	76.0-134	5.3	20.00
1,2,3,7,8,9-HxCDD	100	90.5	91	100	87.9	88	64.0-162	3.4	20.00
1,2,3,4,6,7,8-HpCDD	100	94.5	94	100	90.7	91	70.0-140	4.1	20.00
OCDD	200	191	96	200	186	93	78.0-144	2.7	20.00
2,3,7,8-TCDF	20.0	20.5	103	20.0	19.6	98	75.0-158	4.5	20.00
1,2,3,7,8-PeCDF	100	92.5	92	100	87.3	87	80.0-134	5.8	20.00
2,3,4,7,8-PeCDF	100	75.4	75	100	75.1	75	68.0-160	0.40	20.00
1,2,3,4,7,8-HxCDF	100	79.9	80	100	77.5	77	72.0-134	3.0	20.00
1,2,3,6,7,8-HxCDF	100	99.0	99	100	93.2	93	84.0-130	6.0	20.00
2,3,4,6,7,8-HxCDF	100	97.3	97	100	95.0	95	70.0-158	2.4	20.00
1,2,3,7,8,9-HxCDF	100	94.5	95	100	94.6	95	78.0-130	0.11	20.00
1,2,3,4,6,7,8-HpCDF	100	99.2	99	100	99.1	99	82.0-122	0.10	20.00
1,2,3,4,7,8,9-HpCDF	100	83.8	84	100	78.4	78	78.0-138	6.7	20.00
OCDF	200	181	90	200	180	90	63.0-170	0.55	20.00
Labeled Standards									
13C-2378-TCDD			82			82	25.0-164		
13C-12378-PeCDD			84			88	35.0-151		
13C-123478-HxCDD			103			103	32.0-141		
13C-123678-HxCDD			88			89	28.0-130		
13C-1234678-HpCDD			84			85	23.0-140		
13C-OCDD			73			86	17.0-157		
13C-2378-TCDF			69			78	24.0-169		
13C-12378-PeCDF			76			81	24.0-185		
13C-23478-PeCDF			89			94	21.0-178		
13C-123478-HxCDF			90			92	26.0-152		
13C-123678-HxCDF			77			77	26.0-123		
13C-234678-HxCDF			79			79	29.0-147		
13C-123789-HxCDF			79			78	26.0-136		
13C-1234678-HpCDF			72			74	28.0-143		
13C-1234789-HpCDF			87			94	26.0-138		
37Cl-2378-TCDD			86			82	35.0-197		

Blank Spike Summary

Blank Spike ID: OPR for HBN 12239 [HXX/1279]
Blank Spike Lab ID: 41227
Date Analyzed: 09/29/2011 02:02

Spike Duplicate ID: OPRD for HBN 12239 [HXX/1279]
Spike Duplicate Lab ID: 41228
Date Analyzed: 09/29/2011 02:49
Matrix: Soil-Solid as dry weight

QC for Samples: 31102529001, 31102529002, 31102529003, 31102529004

Results by **EPA 1613B**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: HRD1397
Analytical Method: EPA 1613B
Instrument: HRMS2
Analyst: JHL

Prep Batch: HXX1279
Prep Method: EPA 1613 PREP 2/0/T
Prep Date/Time: 09/26/2011 17:00
Spike Init Wt./Vol.: 10 g Extract Vol: 20 uL
Dupe Init Wt./Vol.: 10 g Extract Vol: 20 uL

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

31102529

Page ____ of ____

Client: Katahdin Analytical	Contact: Kelly Perkins	Phone # ( )	Fax # ( )
Address	City	State	Zip Code
Purchase Order #	Proj. Name / No.: Capisic Pond/203939		Katahdin Quote #
Bill (if different than above)	Address		
Sampler (Print / Sign)			Copies To:

LAB USE ONLY — WORK ORDER #: SE5823
KATAHDIN PROJECT NUMBER ____

REMARKS: ____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO: ____

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Dioxin method 1613 (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	SE5823-1	9-14-11/0820	SL	1	✓									
	SE5823-2	/0905			✓									
	SE5823-3	/1140			✓									
	SE5823-4	/1020			✓									
		/												
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		/												
		/												
		/												

w/ confirmation - US TEF
Equivalent Maine 1987
Reg + II TEF
1989 Maine factors

COMMENTS: 1.4°C - Seal intact

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
D. Medlin	9/14/11 1530			9/16/11 9:45	
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

KAS-COC1

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Katahdin** Work Order No.: **31102529**

Notes:

1. x Shipped
   ___ Hand Delivered

2. x COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. x Custody Tape on Container
   ___ No Custody Tape

4. x Samples Intact
   ___ Samples Broken / Leaking

5. x Chilled on Receipt Actual Temp.(s) in °C: 1.4
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. x Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. ___ Chlorine absent NA
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. x Received Within Holding Time
   ___ Not Received Within Holding Time

9. x No Discrepancies Noted
   ___ Discrepancies Noted

10. ___ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Comments:

Inspected and Logged in by: TP
Date: Mon-9/19/11 00:00

Katahdin Analytical Services, Inc. Sample Receipt Condition Report

Client:	Woodard + Curran	KAS PM:	KAP	Sampled By:	Client
Project:		KIMS Entry By:	DM	Delivered By:	Client
KAS Work Order#:	SE5823	KIMS Review By:	MAP	Received By:	DM
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	9/14/11 1250

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 3.3
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: WOODARD & CURRAN
Contact: ZACH HENDERSON
Phone #: (207) 774-2112
Fax #: ( )
Address: 41 HUTCHINS Dr.
City: PORTLAND
State: ME
Zip Code: 04102
Purchase Order #:
Proj. Name / No.: CAPISIC POND / 203939
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): David Dinsmore / David Dinsmore
Copies To: Dave Dinsmore

LAB USE ONLY
WORK ORDER #: SE5823
KATAHDIN PROJECT NUMBER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y ☒N DIOXIN	Filt. ☐Y ☒N Metals, Total P	Filt. ☐Y ☒N PAH, Pest, PCB	Filt. ☐Y ☒N EPH	Filt. ☐Y ☒N Grain Size	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	SD-01	9/14/11 / 0820	SED	5	1	1	1	1	1					
	SD-02	9/14/11 / 0905	↓	5	1	1	1	1	1					
	SD-03	9/14/11 / 1140	↓	5	1	1	1	1	1					
	SD-04	9/14/11 / 1020	↓	5	1	1	1	1	1					

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
David Dinsmore	9/14/11 1245	[illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Sep. 15, 2011
11:55 AM

Quote/Incoming:

Login Number: SE5823

Account: WOODAR001 Web
Woodard & Curran

Project:

Primary Report Address:
Zach Henderson
Woodard & Curran
41 Hutchins Drive

Portland,ME 04102
zhenderson@woodardcurran.com

Primary Invoice Address:
Accounts Payable
Woodard & Curran
41 Hutchins Drive

Portland,ME 04102

Report CC Addresses:
Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	merge results for EDD
CHECK NO.	:	
CLIENT PO#	:	
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	3.3
DELIVERY SERVICES	:	Client
EDD FORMAT	:	KAS027-XLS and KAS064-XLS
LOGIN INITIALS	:	GN
PM	:	KAP
PROJECT NAME	:	Capisic Pond / 203939
QC LEVEL	:	II
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	email pdf and EDD to Zach and Dave Dinsmore. No HC
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE5823-1	SD-01	14-SEP-11 08:20	14-SEP-11			04-OCT-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	ASTM-D422-SUB		50g Glass		
Solid	S	E365.4-TOTAL-PHOS	12-OCT-11	100g Glass		
Solid	S	MA-EPH	28-SEP-11	100g Glass		
Solid	P	RCRA-METALS				
SW3050-PREP		SW6010-ARSENIC		SW6010-CADMIUM		
SW6010-CHROMIUM		SW6010-LEAD		SW7471-MERCURY		
Solid	S	SW7196A-CRVI	12-OCT-11	50g Glass		
Solid	S	SW8081	28-SEP-11	100g Glass		
Solid	S	SW8082	28-SEP-11	100g Glass		
Solid	S	SW8270SIM	28-SEP-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		50g Glass		
Solid	S	TS	14-OCT-11			

SE5823-2	SD-02	14-SEP-11 09:05	14-SEP-11			04-OCT-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	ASTM-D422-SUB		50g Glass		
Solid	S	E365.4-TOTAL-PHOS	12-OCT-11	100g Glass		
Solid	S	MA-EPH	28-SEP-11	100g Glass		
Solid	P	RCRA-METALS				
SW3050-PREP		SW6010-ARSENIC		SW6010-CADMIUM		
SW6010-CHROMIUM		SW6010-LEAD		SW7471-MERCURY		
Solid	S	SW7196A-CRVI	12-OCT-11	50g Glass		
Solid	S	SW8081	28-SEP-11	100g Glass		
Solid	S	SW8082	28-SEP-11	100g Glass		
Solid	S	SW8270SIM	28-SEP-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		50g Glass		
Solid	S	TS	14-OCT-11			

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Sep. 15, 2011
11:55 AM

Login Number: SE5823

Quote/Incoming:

Account: WOODAR001 Web
Woodard & Curran

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE5823-3	SD-03	14-SEP-11 11:40	14-SEP-11			04-OCT-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	ASTM-D422-SUB		50g Glass		
Solid	S	E365.4-TOTAL-PHOS	12-OCT-11	100g Glass		
Solid	S	MA-EPH	28-SEP-11	100g Glass		
Solid	P	RCRA-METALS				
SW3050-PREP		SW6010-ARSENIC		SW6010-CADMIUM		
SW6010-CHROMIUM		SW6010-LEAD		SW7471-MERCURY		
Solid	S	SW7196A-CRVI	12-OCT-11	50g Glass		
Solid	S	SW8081	28-SEP-11	100g Glass		
Solid	S	SW8082	28-SEP-11	100g Glass		
Solid	S	SW8270SIM	28-SEP-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		50g Glass		
Solid	S	TS	14-OCT-11			

SE5823-4	SD-04	14-SEP-11 10:20	14-SEP-11	04-OCT-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	ASTM-D422-SUB		50g Glass		
Solid	S	E365.4-TOTAL-PHOS	12-OCT-11	100g Glass		
Solid	S	MA-EPH	28-SEP-11	100g Glass		
Solid	P	RCRA-METALS				
SW3050-PREP		SW6010-ARSENIC		SW6010-CADMIUM		
SW6010-CHROMIUM		SW6010-LEAD		SW7471-MERCURY		
Solid	S	SW7196A-CRVI	12-OCT-11	50g Glass		
Solid	S	SW8081	28-SEP-11	100g Glass		
Solid	S	SW8082	28-SEP-11	100g Glass		
Solid	S	SW8270SIM	28-SEP-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		50g Glass		
Solid	S	TS	14-OCT-11			

Total Samples: *4* ***Total Analyses:*** *40*