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7/1/2015
KATAHDIN ANALYTICAL SERVICES

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE08 SDG NO. S13862 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	TO	CHECK LAB	EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000012	✓	
2. **SDG Case Narrative**	0000015	0000024	✓	
3. **SDG Cover Sheet/Traffic Report**	0000013	0000014	✓	
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000036	0000039	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	0000057	0000059	✓	
Method Blank Summary (Form IV VOA)	0000040	0000041	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000060	0000062	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000063	0000066	✓	
b. Sample Data	0000067	0000087		
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000088	0000104		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	NA	NA	NA	
Blank Data	0000042	0000050	✓	
Martix Spike/Matrix Spike Duplicate Data	0000051	0000056	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE08 SDG NO. 913862 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	NA	NA	NA	
2. **SDG Case Narrative**	↓	↓	↓	
3. **SDG Cover Sheet/Traffic Report**				
4. **Volatiles Data** – ~~SHA~~ SPLP				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000110	0000112	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	0000125	0000126	✓	
Method Blank Summary (Form IV VOA)	0000113	0000114	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000127	0000129	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000130	0000131	✓	
b. Sample Data	0000132	0000138	✓	
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000139	0000148		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	NA	NA	NA	
Blank Data	0000115	0000120	✓	
Martix Spike/Matrix Spike Duplicate Data	0000121	0000124	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE08 SDG NO. S13882 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data** SIM				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000156	0000159	✓	
MS/MSD Summary (Form III SV)	—	—	—	
Method Blank Summary (Form IV SV)	0000160	0000161	✓	
GC/MS Instrument Performance Check (Form V SV)	0000166	0000167	✓	
Internal Standard Area and RT Summary (Form VIII SV)	0000168	0000169	✓	
b. Sample Data	0000170	0000175		
TCL Results - (Form I SV-1, SV-2)			✓	
Tentatively Identified Compounds (Form I SV-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	0000176	0000180		
Initial Calibration Data (Form VI SV-1, SV-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	NA	NA	NA	
Blank Data	0000162	0000163	✓	
Matrix Spike/Matrix Spike Duplicate Data	0000164	0000165	✓	
e. ~~Raw GPC Data~~ Logbooks	0000181	0000185	✓	
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	NA	NA	NA	
MS/MSD Duplicate Summary (Form III PEST)	↓	↓	↓	
Method Blank Summary (Form IV PEST)	↓	↓	↓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE08 SDG NO. S13862 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000186	0000189	✓	
MS/MSD Summary (Form III SV)	—	—	—	
Method Blank Summary (Form IV SV)	0000196	0000191	✓	
GC/MS Instrument Performance Check (Form V SV)	0000200	0000201	✓	
Internal Standard Area and RT Summary (Form VIII SV)	0000202	0000203	✓	
b. Sample Data	0000204	0000212		
TCL Results - (Form I SV-1, SV-2)			✓	
Tentatively Identified Compounds (Form I SV-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	0000213	0000220		
Initial Calibration Data (Form VI SV-1, SV-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	NA	NA	NA	
Blank Data	0000192	0000195	✓	
Matrix Spike/Matrix Spike Duplicate Data	0000196	0000199	✓	
e. ~~Raw GPC Data~~ Logbooks	0000221	0000225	✓	
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	NA	NA	NA	
MS/MSD Duplicate Summary (Form III PEST)	↓	↓	↓	
Method Blank Summary (Form IV PEST)				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. LUE08 SDG NO. S13862 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data** SIMSPLP				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000226	0000228	✓	
MS/MSD Summary (Form III SV)	0000241	0000242	✓	
Method Blank Summary (Form IV SV)	0000229	0000230	✓	
GC/MS Instrument Performance Check (Form V SV)	0000243	0000246	✓	
Internal Standard Area and RT Summary (Form VIII SV)	0000247	0000250	✓	
b. Sample Data	0000251	0000257		
TCL Results - (Form I SV-1, SV-2)			✓	
Tentatively Identified Compounds (Form I SV-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	0000258	0000270		
Initial Calibration Data (Form VI SV-1, SV-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	NA	NA	NA	
Blank Data	0000231	0000236	✓	
Matrix Spike/Matrix Spike Duplicate Data	0000237	0000240	✓	
e. ~~Raw GPC Data~~ Logbooks	0000271	0000279	✓	
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	NA	NA	NA	
MS/MSD Duplicate Summary (Form III PEST)	↓	↓	↓	
Method Blank Summary (Form IV PEST)	↓	↓	↓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE08 SDG NO. 313862 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data** SPLP				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000280	0000282	✓	
MS/MSD Summary (Form III SV)	0000290	0000290	✓	
Method Blank Summary (Form IV SV)	0000283	0000284	✓	
GC/MS Instrument Performance Check (Form V SV)	0000291	0000294	✓	
Internal Standard Area and RT Summary (Form VIII SV)	0000295	0000298	✓	
b. Sample Data	0000299	0000303		
TCL Results - (Form I SV-1, SV-2)			✓	
Tentatively Identified Compounds (Form I SV-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	0000304	0000314		
Initial Calibration Data (Form VI SV-1, SV-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	NA	NA	NA	
Blank Data	0000285	0000287	✓	
Matrix Spike/Matrix Spike Duplicate Data	0000288	0000289	✓	
e. ~~Raw GPC Data~~ Logbooks	0000315	0000322	✓	
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	NA	NA	NA	
MS/MSD Duplicate Summary (Form III PEST)	↓	↓	↓	
Method Blank Summary (Form IV PEST)	↓	↓	↓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE08 SDG NO. S13862 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. ~~Pesticides Data~~ (Cont.) VOA SPLP				
e. ~~Raw GPC Data~~ Logbook pages	0000149	0000155	✓	
f. Raw Florisil Data	NA	NA	NA	
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages – VOA	0000104	0000109	✓	
Internal sample and sample extract transfer chain-of-custody records	0000032	0000035	✓	
Screening records	NA	NA	NA	
All instrument output, including strip charts from screening activities (describe or list)				
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments _____)	NA	NA	NA	
Chain-of-Custody Records	0000027	0000027	✓	
Sample Tags				
Sample Log-in Sheet (Lab & DC1)	NA	NA	NA	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000026	0000026	—	
Login Chain of Custody	0000028	0000031	—	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
	NA	NA	NA	
10. **Other Records** (describe or list)				
Telephone Communication Log				

11. **Comments:**

FORM DC-2-4 OLM04.2

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE08 SDG NO. S13862 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	Heather Manz (Signature)	Heather Manz (Printed Name/Title)	7-1-15 (Date)
Verified by: (CLP Lab)	(Signature)	(Printed Name/Title)	(Date)
Audited by: (EPA)	(Signature)	(Printed Name/Title)	(Date)

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, ME
CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____

CONTRACT NO. _____
SOW NO. _____

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - ILM05.4, Exhibit B Section 2.6)

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Cover Page	0000013	0000014	—	
2. SDG Narrative	0000015	0000024	✓	
3. Sample Log-In Sheet (DC-1)	—	—	—	
4. Inventory Sheet (DC-2))	0000001	0000012	✓	
5. Traffic Report/Chain of Custody Record(s)	0000027	0000027	✓	
Inorganic Analysis - metals				
6. Data Sheet (Form I-IN)	0000323	0000331	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	0000332	0000367	✓	
8. CRQL Standard(Form IIB-IN)	0000368	0000376	✓	
9. Blanks (Form III-IN)	0000377	0000408	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	0000409	0000415	✓	
11. ICP-MS Interference Check Sample(Form IVB-IN)	NA	NA	—	
12. Matrix Spike Sample Recovery(Form VA-IN)	0000416	0000419	✓	
13. Post-Digestion Spike Sample Recovery(Form VB-IN)	0000420	0000421	✓	
14. Duplicates (Form VI-IN)	0000422	0000424	✓	
15. Laboratory Control Sample(Form VII-IN)	0000425	0000431	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	0000432	0000433	✓	
17. Method Detection Limits (Annually) (Form IX-IN)	—	—	—	
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	0000434	0000446	✓	
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	0000447	0000447	✓	
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	0000448	0000449	✓	
21. Preparation Log (Form XII-IN)	0000450	0000456	✓	
22. Analysis Run Log (Form XIII-IN)	0000457	0000483	✓	

FORM DC-2-2 M&E DAS

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23. ICP-MS Tune (Form XIV-IN)	—	—	—	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	—	—	—	
25. ~~ICP-AES Raw Data~~ Logbooks	0000284	0000492	✓	
26. ICP-MS Raw Data	NA	NA	NA	
27. Mercury Raw Data	↓	↓	↓	
28. Cyanide Raw Data	↓	↓	↓	
29. Preparation Logs Raw Data (Wet Chemistry)	↓	↓	↓	
30. Percent Solids Determination Log	↓	↓	↓	
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	↓	↓	↓	
Sample Tags	↓	↓	↓	
Sample Log-In Sheet (Lab)	↓	↓	↓	
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	↓	↓	↓	
Sample Receipt Condition Report	↓	↓	↓	
	↓	↓	↓	
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	↓	↓	↓	
Internal Chain of Custody	↓	↓	↓	
Login Chain of Custody Report	↓	↓	↓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	↓	↓	↓	
Analysis Records	↓	↓	↓	
Description Duplicate Precision Form	↓	↓	↓	
35. Other Records (describe or list)				
Telephone Communications Log	↓	↓	↓	
DAS Specifications	↓	↓	↓	

36. Comments

Completed by:
(CLP Lab) [signature] Heather Marz/DM 7-1-15
(Signature) (Print Name & Title) (Date)

Audited by:
(USEPA) _____ _____ _____
(Signature) (Print Name & Title) (Date)

FORM DC-2-2 M&E DAS

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, ME
CASE NO. WE08 SDG NO. S13862 SDG NOS. TO FOLLOW

CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - ILM05.4, Exhibit B Section 2.6)

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1. Cover Page	NA	NA	NA	
2. SDG Narrative				
3. Sample Log-In Sheet (DC-1)				
4. Inventory Sheet (DC-2))				
5. Traffic Report/Chain of Custody Record(s)				
Inorganic Analysis - Wet Chemistry				
6. Data Sheet (Form I-IN)	0000498	0000502	✓	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	NA	NA	NA	
8. CRQL Standard(Form IIB-IN)				
9. Blanks (Form III-IN)	0000493	0000495	✓	
10. ICP-AES Interference Check Sample (Form IVA-IN)	NA	NA	NA	
11. ICP-MS Interference Check Sample(Form IVB-IN)				
12. Matrix Spike Sample Recovery(Form VA-IN)				
13. Post-Digestion Spike Sample Recovery(Form VB-IN)				
14. Duplicates (Form VI-IN)	0000497	0000497	✓	
15. Laboratory Control Sample(Form VII-IN)	0000496	0000496	✓	
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	NA	NA	NA	
17. Method Detection Limits (Annually) (Form IX-IN)				
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)				
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)				
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)				
21. Preparation Log (Form XII-IN)				
22. Analysis Run Log (Form XIII-IN)				

FORM DC-2-2 M&E DAS

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
23. ICP-MS Tune (Form XIV-IN)	NA	NA	NA	
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)				
25. ~~ICP-AES~~ Raw Data - Wet chemistry	0000503	0000506	✓	
26. ICP-MS Raw Data	NA	NA	NA	
27. Mercury Raw Data				
28. Cyanide Raw Data				
29. Preparation Logs Raw Data (Wet Chemistry)				
30. Percent Solids Determination Log				
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)				
Sample Tags				
Sample Log-In Sheet (Lab)				
32. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs				
Sample Receipt Condition Report	0000026	0000026	✓	
	NA	NA	NA	
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
Internal Chain of Custody	0000032	0000035	✓	
Login Chain of Custody Report	0000028	0000031	✓	
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	NA	NA	NA	
Analysis Records				
Description Duplicate Precision Form				
35. Other Records (describe or list)				
Telephone Communications Log				
DAS Specifications				

36. Comments

Completed by:
(CLP Lab) Heather Maiz | PM 7-1-95
(Signature) (Print Name & Title) (Date)

Audited by:
(USEPA)
(Signature) (Print Name & Title) (Date)

FORM DC-2-2 M&E DAS

0000012

ENSAFE
NAVY CLEAN WE08 NWIRP
BETHPAGE, NY
SI3862

KATAHDIN ANALYTICAL SERVICES, LLC
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

0000013

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ENSAFE
NAVY CLEAN WE08 NWIRP BETHPAGE, NY
SI3862

Sample Receipt

The following samples were received on June 05, 2015 and were logged in under Katahdin Analytical Services work order number SI3862 for a hardcopy due date of June 24, 2015.

KATAHDIN Sample No.	ENSAFE Sample Identification
SI3862-1	SITE4TS-FB
SI3862-2	SITE4TS-XX
SI3862-3	SITE4TS-EB
SI3862-4	SITE4TS-TB-SOIL
SI3862-6	SITE4TS-FB
SI3862-7	SITE4TS-XX

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

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

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin.** This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SI3862 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.

8270D SIM Analysis

Samples SI3862-1DL and 2DL were manually integrated for the analytes chrysene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene, the internal standards chreysene-d12, and/or perylene-d12. The specific reason for the manual

integration is indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

8260C SPLP Analysis

The independent check standard (file P1435A) associated with the initial calibration analyzed on the P instrument on 06/16/15 had high concentrations for the target analytes dichlorodifluoromethane, bromomethane, chloromethane, vinyl chloride, chloroethane and trichlorofluoromethane and a low concentration for the target analyte methyl acetate, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL.

The MSD, WG165024-7, had a recovery for the surrogate dibromofluoromethane which was high and exceed the DoD QSM acceptance limits. The associated MS, WG165024-6, and native sample SI3862-6 had acceptable surrogate recoveries. Since the recoveries were acceptable for the native sample and MS and the recoveries for the compounds matched between the MS and MSD, the MSD was not reanalyzed.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are based on DoD QSM acceptance limits for the full list of spiked compounds and laboratory established acceptance limits for all other analytes. 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.

8260C Analysis

Sample SI3862-4 was manually integrated for the target analyte acetone. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

Sample SI3862-1 and the MS WG164407-11 had low recoveries for one surrogate and a high recoveries for one surrogate and the MSD WG164407-12 had a low recovery for one surrogate, which were outside of the DoD QSM acceptance limits. The sample and MS/MSD also had low responses for one or more internals that exceed the DoD QSM acceptance limits of -50% to +100% of the responses of the internal standards of the midpoint of the ICAL. Since sample SI3862-1 is the native sample for the MS/MSD's and the surrogate and internal standard deviations confirm a matrix effect, the sample was not reanalyzed.

The analysis of the low concentration soil sample vial (DI water) of sample SI3862-2 had a low recovery for one surrogate and a high recovery for one surrogate, which were outside of the DoD QSM acceptance limits and also had a low response for one internal standard. These sample was reanalyzed using the high concentration soil sample vial (methanol) due to high concentrations of one or more target analytes that were outside the calibration range. Since the methanol vial analysis had acceptable recoveries for all surrogates and the concentration of target analytes were within the calibration ranges, the DI water vials were not reanalyzed.

The initial calibration analyzed on the P instrument on 06/03/15 had %RSD values for some target analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analyte chloroethane failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990, respectively. This analyte was calibrated using the average model. The corresponding independent check standard (file P1233A) had high concentrations for the target analytes dichlorodifluoromethane, bromomethane, carbon disulfide and 2,2-dichloropropane, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL.

The initial calibration analyzed on the T instrument on 06/08/15 had %RSD values for some target analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analyte trichlorofluoromethane failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990, respectively. This analyte was calibrated using the average model. The corresponding independent check standard (file T3790A) had high concentrations for the target analytes chloroethane, trichlorofluoromethane and carbon disulfide and low concentrations for the target analytes methy tert-butyl ether and 2-butanone, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL.

The calibration verification standard (file P1304) had high responses for the target analytes dichlorodifluoromethane and 2,2-dichloropropane that resulted in %D's that exceeded the DoD QSM acceptance limits of 20%.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are based on DoD QSM acceptance limits for the full list of spiked compounds and laboratory established acceptance limits for all other analytes. 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.

<u>8270D SIM SPLP Analysis</u>

The matrix spike sample duplicate WG165249-6 had a high recovery for one surrogate, which was outside the DoD QSM acceptance limits.

The initial calibration analyzed on the N instrument on 06/05/2015 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The corresponding independent check standard (file N6398) had a low concentration for the target analytes hexachlorocyclopentadiene, 2,4-dinitrophenol, 2,3,4,6-tetrachlorophenol, N-nitrosodiphenylamine, pentachlorophenol and bis(2-ethyl-hexyl)phthalate, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The Independent Check Report consists of the full list of spiked analytes, but only the client's list of target analytes

are evaluated.

The initial calibration analyzed on the N instrument on 06/23/2015 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The target analyte 2,4-dinitrophenol failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990 respectively. This compound was calibrated using the average model. The corresponding independent check standard (file N6784) had high concentrations for the target analytes 3&4-methylphenol, nitrobenzene, 4-nitroaniline and low concentrations for hexachlorocyclopentadiene, 2,4-dintrophenol and 2,3,4,6-tetrachlorophenol, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The Independent Check Report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated.

The CV (file N6525) had high responses for the target analytes 2,2'-oxybis(1-chloropropane), bis(2-chloroethoxy)methane, 2-nitroaniline, 2,4-dinitrophenol, 4-nitroaniline and a low response for benzo(k)fluoranthene, which resulted in %D's that were greater than the acceptance limit of 20% from DoD QSM.

The CV (file N6598) had high responses for the target analytes bis(2-chloroethyl)ether, nitrobenzene, 2-nitroaniline, di-n-octylphthalate and a low response forhexachloroethane and 2,4,6-trichlorophenol, which resulted in %D's that were greater than the acceptance limit of 20% from DoD QSM.

The target analyte benzo(b)fluoranthene was detected above ½ of the LOQ, but less than the LOQ and the target analyte benzo(k)fluoranthene was detected (below ½ of the LOQ) in the method blank WG165249-1. According to the DoD QSM section D.1.1.1, a method blank is considered to be contaminated if the concentration of any target analyte in the blank exceeds ½ the reporting limit and is greater than 1/10 the amount measured in any sample or 1/10 the regulatory limit (whichever is greater). If the target analyte was detected in any samples associated with the blank, they were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived limits for the full list of spiked compounds and are statistically derived limits for the surrogates. Although DoD QSM acceptance limits were requested for this project, laboratory established acceptance limits were used because the DoD QSM does not list acceptance limits for 8270SIM. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these statistical 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.

8270C Analysis

Samples SI3862-1 and 2 were concentrated to a final volume of 5mL instead of the standard 1mL and were also analyzed at a dilution of 1:5 due to matrix interference, sample viscosity or other matrix-related problem. Consequently, the sample PQL was elevated by a factor of 2.

Samples SI3862-1DL and 2DL had low responses for one internal that exceed the DoD QSM acceptance limits of -50% to +100% of the responses of the internal standards of the midpoint of the ICAL. Based on the sample chromatogram the deviation is likely matrix related. Therefore the sample was not reanalyzed.
The initial calibration analyzed on the U instrument on 06/05/2015 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The target analyte 1,1'-biphenyl failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990 respectively. This compound was calibrated using the average model.

The CV (file U0611) had a high response for the target analyte benzoic acid which resulted in a %D that was greater than the acceptance limit of 20% from DoD QSM.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are based on DoD QSM acceptance limits for the full list of spiked compounds and laboratory established acceptance limits for all other analytes. 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.

8270C SPLP Analysis

The SPLP blank WG165594-3 had high recoveries for four surrogates, which were outside the DoD QSM acceptance limits.

The initial calibration analyzed on the U instrument on 06/22/2015 had the target analyte fluorene fail for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990 respectively. This compound was calibrated using the average model.

The CV (file U0788) had a high response for the target analyte4-bromophenyl-phenylether which resulted in a %D that was greater than the acceptance limit of 20% from DoD QSM.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are based on DoD QSM acceptance limits for the full list of spiked compounds and laboratory established acceptance limits for all other analytes. 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.

Metals Analysis

The samples of Katahdin Work Order SI3862 were prepared and analyzed for metals in accordance with the "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.

SPLP Extraction (EPA Method 1312)

Katahdin Sample Numbers SI3862-(6 and 7) are soil samples that were subjected to SPLP extraction on 06/05/15 in accordance with USEPA Method 1312. The SPLP fluid blank identified as PBT1225D is associated with these extracts. The measured concentrations of contaminants in this SPLP fluid blank are listed in Form 3P in the accompanying data package. The measured barium concentration (53.2 ug/L) in SPLP fluid blank PBT1225D is above the laboratory's reporting limit. However, because the concentrations of this element in the SPLP blank and in the associated SPLP extracts are well below regulatory limits, reanalysis was not required.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix SPLP Extraction Blank PBT1225D and aqueous-matrix SPLP extractions of Katahdin Sample Numbers SI3862-(6 and 7) were digested for ICP analysis on 06/08/15 (QC Batch IF08ICW3) in accordance with USEPA Method 3010A.

Duplicate matrix-spiked aliquots of aqueous-matrix SPLP extraction of Katahdin Sample Number SI3862-6 were digested for ICP analysis on 06/19/15 (QC Batch IF19ICW1) in accordance with USEPA Method 3010A.

All SPLP extracts are diluted by a factor of five during digestion to reduce matrix interferences during ICP analysis.

ICP analyses of Katahdin Work Order SI3862 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010C. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following exceptions:

The measured recoveries of beryllium, cadmium, and manganese in the PQL (LOQ) standard analyzed in ICP analysis sequence IIF23A were above the project acceptance limit. Results for these analytes for samples analyzed in this sequence were either greater than ten times the concentration of the PQL standard or less than the LOD.

The measured concentration of potassium in the ICSA standard analyzed in ICP analysis sequence IIF23A was above the project acceptance limit. Results for potassium for samples analyzed in this sequence were either greater than ten times the concentration of the ICSA standard or less than the LOD.

The measured concentration of antimony in the CCBs analyzed at 21:57 and 22:58 in ICP analysis sequence IIF09B were above the project acceptance limit. Results for antimony for samples associated with these CCBs were either greater than ten times the concentration of the CCBs or less than the LOD.

Inductively-Coupled Plasma Mass Spectrometric Analysis (ICP-MS)

Solid-matrix Katahdin Sample Numbers SI3862-(1 and 2) were digested for ICP-MS analysis on 06/05/15 (QC Batch IF05IMS2) in accordance with USEPA Method 3050B. Katahdin Sample Number SI3862-1 was prepared in duplicate and with a matrix-spiked aliquot. The measured calcium (18 mg/Kg) and manganese (0.28 mg/Kg) concentrations of the preparation blank in this batch exceed the project acceptance limit. The measured manganese concentrations of the associated field samples are greater than ten times that of the preparation blank. No corrective action was necessary. The measured calcium concentrations of the associated field samples are less than ten times that of the preparation blank. The results for these samples appear with a "B" flag on the accompanying Form Is.

Aqueous-matrix Katahdin Sample Number SI3862-3 was digested for ICP-MS analysis on 06/08/15 (QC Batch IF08IMW2) in accordance with USEPA Method 3010A.

ICP-MS analyses of Katahdin Work Order SI3862 sample digestates were performed using an Agilent 7500 ICP-MS spectrometer in accordance with USEPA Method 6020A. Results for all standards and samples are reported using the mean of 3 replicate measurements. All sample digestates were diluted by a factor of 5 during analysis to reduce mass interferences from chlorine, which is present in the digestates from the hydrochloric acid used in digesting the samples. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following exceptions:

The measured recovery of selenium in the PQL (LOQ) standard analyzed in ICP-MS analysis sequence JIF08A was above the project acceptance limit. Results for selenium for samples analyzed in this sequence were either greater than ten times the concentration of the PQL standard or less than the LOD.

Internal standard recoveries for ICP-MS analyses can be found in the raw data section of the accompanying data package. The following table indicates which analytes are associated with each internal standard element.

Internal Standard Element	Associated Analytes
Lithium	Beryllium
Scandium	Sodium, Magnesium, Aluminum, Potassium, Calcium
Germanium	Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Silver, Cadmium
Terbium	Antimony, Barium
Bismuth	Lead, Thallium

Instrument tuning information can also be found in the raw data section in the report labeled "6020 QC Tune Report". The relative standard deviation was determined from 4 replicate measurements. The peak width was measured at 10% of the peak height.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Solid-matrix Katahdin Sample Numbers SI3862-(1 and 2) were digested for mercury analysis on 06/08/15 (QC Batch IF08HGS1) in accordance with USEPA Method 7471B. Katahdin Sample Number SI3862-1 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix SPLP extracts of Katahdin Sample Numbers SI3862-(6 and 7), and aqueous-matrix Katahdin Sample Number SI3862-3 were digested for mercury analysis on 06/10/15 (QC Batch IF10HGW2) in accordance with USEPA Method 7470A. Katahdin Sample Number SI3862-6 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix SPLP extraction blank PBT1225D was digested for mercury analysis on 06/10/15 (QC Batch IF10HGW3) in accordance with USEPA Method 7470A.

Mercury analysis of the Katahdin Work Order SI3862 sample digestates were performed using a Cetac M6100 automated mercury analyzer in accordance with USEPA Methods 7470A and 7471B. All analytical run QC criteria were met and all samples were analyzed within holding times.

Matrix QC Summary

The measured recoveries of aluminum, antimony, calcium, and iron in the matrix-spiked aliquot of Katahdin Sample Number SI3862-1 are outside the project acceptance criteria (80% - 120% recovery of the added element). For aluminum and iron, this may be attributable to the native concentration of the sample being much greater than the spike amount added.

The measured recovery of iron in the matrix-spiked aliquots of Katahdin Sample Number SI3862-6 is outside the project acceptance criteria (80% - 120% recovery of the added element).

The measured recoveries of iron and mercury in the post-digestion spike of Katahdin Sample

Number SI3862-1 is outside the project acceptance criteria (75% - 125% recovery of the added element). For iron, this may be attributable to the native concentration of the sample being much greater than the spike amount added.

The measured recovery of arsenic in the post-digestion spike of Katahdin Sample Number SI3862-6 is outside the project acceptance criteria (75% - 125% recovery of the added element).

The matrix-spike duplicate analyses of Katahdin Sample Numbers SI3862-(1 and 6) are within the laboratory's acceptance limit (<20% relative difference between duplicate matrix-spiked aliquots) for all analytes.

The duplicate analysis of Katahdin Sample Number SI3862-1 is outside the laboratory's acceptance limit (<20% relative difference between duplicate matrix-spiked aliquots) for aluminum, arsenic, barium, calcium, cobalt, copper, iron, lead, magnesium, potassium, and zinc.

The serial dilution analyses of Katahdin Sample Numbers SI3862-(1 and 6) are within the project acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the LOD) for all analytes.

Reporting of Metals Results

Per client request, analytical results for client samples on Form I and preparation blanks on Form IIIP have been reported using the laboratory's limits of detection (LOD). All results were evaluated down to the laboratory's method detection limits (MDLs). Results that fall between the MDL and the LOQ are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQs, MDLs, and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the measured concentration is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of Work Order SI3862 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times. All quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond
07.01.15

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client: AECOM	KAS PM: JO	Sampled By: Client
Project:	KIMS Entry By: AP	Delivered By: Fed Ex
KAS Work Order#: 513862	KIMS Review By:	Received By: AP
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 6/5/15 0915

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): AP ~~0~~ 1.7
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg) analysi
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt t begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
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 (except Hg) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?	✓				
Soil/Sediment:					
Received in airtight container?	✓				
Received in methanol?	✓				
Methanol covering soil?	✓				
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
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.

G000026

S13862

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No.: | Page 1 of 1

Project Name: NWIRP Bethpage | PO No.: | Project No. 0788913596 Phase TS PT

Site Location: Site 4

CTO No. | RC Project Manager: Caldwell

Sampler/Site Phone# Gordon Hicks 952.221.9961

Lab Name: Katahdin | Turnaround Time(specify): 48 hrs.

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	VOC VOA 4oz	SPLP VOA	SPLP Metals	SVOA TS 8oz	Metals SVOA TS 8oz	SVOA 1L amber	VOC VOA	Metals				Extra Volume for MS/MSD	HOLD
								(3)→	MeOH/Na2S2O3						HCl	HNO3					
	SITE4TS - FB		060415	1200					4	1	1	1									
	SITE4TS - MSMSD - FB		060415	1200					8	2	1	1								2	
	SITE4TS - XX		060415	—					4	1	1	1									
	SITE4TS - EB		060415	1300										2	3	1					
	SITE4TS - TB - SOIL		052815	1500					4												
	SITE4TS - TB - WATER		052815	1145											3						

Field **Comments:** 48 hour turnaround. Site 4 Samples

Lab **Comments:**

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1	060415	1500	1 FedEx		
2			2	6/5/15	0915
3			3		

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

Samples Iced?(check) Yes X No

Method of Shipment: FedEx

Airbill No: 806492689719

Date Shipped: 060415

(1) **AA**=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) **Sample Type: AB**=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) **Preservative added: HA**=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, If **NO preservative** added leave blank

Rev 5/12

00027

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 25, 2015
07:29 AM

Login Number: SI3862

Account: ENSAFE001 Web
ENSAFE

Project: ENSAFE-BETHPAGE-WE08
NWIRP Bethpage, WE08

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: ENSAFE-BETHPAG

Login Information:

ANALYSIS INSTRUCTIONS	:	Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ. VOA soils are NaHSO4 and MeOH pres.
CHECK NO.	:	
CLIENT PO#	:	18884
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	1.7
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV & KAS062-CSV
LOGIN INITIALS	:	AP
PM	:	JO
PROJECT NAME	:	Navy Clean WE08 NWIRP Bethpage, NY
QC LEVEL	:	III
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send PDF and CD to Dana. Upload to SDS folder. Email PDF to Dana and Jeff (jparillo@Ensafe.com) Email invoice to purchasing@ensafe.com.

Laboratory Sample ID	Client Sample Number	Collect Date/Time	SDG ID / SDG STATUS	Receive Date	PR	Verbal Date	Due Date	Mailed
SI3862-1	SITE4TS-FB	04-JUN-15 12:00		05-JUN-15		**09-JUN-15**	24-JUN-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8260-S	18-JUN-15	40 mL Vial+DI+MEOH		**MS/MSD**
Solid	S	SW8270-S	18-JUN-15	1L N-Amber Glass		
Solid	S	SW8270SIM-S	18-JUN-15	100g Glass		
Solid	P	TAL-MET-SW846-ICPMS		8oz Glass		

SW3050MS-PREP	SW6020-ALUMINUM	SW6020-ANTIMONY
SW6020-ARSENIC	SW6020-BARIUM	SW6020-BERYLLIUM
SW6020-CADMIUM	SW6020-CALCIUM	SW6020-CHROMIUM
SW6020-COBALT	SW6020-COPPER	SW6020-IRON
SW6020-LEAD	SW6020-MAGNESIUM	SW6020-MANGANESE
SW6020-NICKEL	SW6020-POTASSIUM	SW6020-SELENIUM
SW6020-SILVER	SW6020-SODIUM	SW6020-THALLIUM
SW6020-VANADIUM	SW6020-ZINC	SW7471-MERCURY

Solid	S	TS	04-JUL-15

SI3862-2	SITE4TS-XX	04-JUN-15 00:00		05-JUN-15		**09-JUN-15**	24-JUN-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8260-S	18-JUN-15	40 mL Vial+DI+MEOH		
Solid	S	SW8270-S	18-JUN-15	1L N-Amber Glass		
Solid	S	SW8270SIM-S	18-JUN-15	100g Glass		
Solid	P	TAL-MET-SW846-ICPMS		8oz Glass		

SW3050MS-PREP	SW6020-ALUMINUM	SW6020-ANTIMONY
SW6020-ARSENIC	SW6020-BARIUM	SW6020-BERYLLIUM
SW6020-CADMIUM	SW6020-CALCIUM	SW6020-CHROMIUM
SW6020-COBALT	SW6020-COPPER	SW6020-IRON
SW6020-LEAD	SW6020-MAGNESIUM	SW6020-MANGANESE
SW6020-NICKEL	SW6020-POTASSIUM	SW6020-SELENIUM
SW6020-SILVER	SW6020-SODIUM	SW6020-THALLIUM
SW6020-VANADIUM	SW6020-ZINC	SW7471-MERCURY

Solid	S	TS	04-JUL-15

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Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 25, 2015
07:29 AM

Login Number: SI3862

Quote/Incoming: ENSAFE-BETHPAGI

Account: ENSAFE001 Web
ENSAFE

Project: ENSAFE-BETHPAGE-WE08
NWIRP Bethpage, WE08

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI3862-3	SITE4TS-EB	04-JUN-15 13:00	05-JUN-15		**09-JUN-15**	24-JUN-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	18-JUN-15	40mL Vial+HCl		
Aqueous	S	SW8270-S	11-JUN-15	1L N-Amber Glass		
Aqueous	S	SW8270SIM-S	11-JUN-15	1L N-Amber Glass		
Aqueous	P	TAL-MET-SW846-ICPMS				

SW3010MS-PREP	SW6020-ALUMINUM	SW6020-ANTIMONY
SW6020-ARSENIC	SW6020-BARIUM	SW6020-BERYLLIUM
SW6020-CADMIUM	SW6020-CALCIUM	SW6020-CHROMIUM
SW6020-COBALT	SW6020-COPPER	SW6020-IRON
SW6020-LEAD	SW6020-MAGNESIUM	SW6020-MANGANESE
SW6020-NICKEL	SW6020-POTASSIUM	SW6020-SELENIUM
SW6020-SILVER	SW6020-SODIUM	SW6020-THALLIUM
SW6020-VANADIUM	SW6020-ZINC	SW7470-MERCURY

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI3862-4	SITE4TS-TB-SOIL	04-JUN-15 15:00	05-JUN-15		**09-JUN-15**	24-JUN-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8260-S	18-JUN-15	40 mL Vial+DI+MEOH		**Trip blank, no TS jar.**
Solid	S	TS	04-JUL-15			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI3862-5	SITE4TS-TB-WATER	04-JUN-15 11:45	05-JUN-15		**09-JUN-15**	24-JUN-15	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments

Total Samples: *6* ***Total Analyses:*** *54*

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Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 25, 2015
07:29 AM

Login Number: SI3862

Account: ENSAFE001 Web
ENSAFE

Project: ENSAFE-BETHPAGE-WE08
NWIRP Bethpage, WE08

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: ENSAFE-BETHPAG

Login Information:

ANALYSIS INSTRUCTIONS	:	Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ. VOA soils are NaHSO4 and MeOH pres.
CHECK NO.	:	
CLIENT PO#	:	18884
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	1.7
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV & KAS062-CSV
LOGIN INITIALS	:	AP
PM	:	JO
PROJECT NAME	:	Navy Clean WE08 NWIRP Bethpage, NY
QC LEVEL	:	III
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send PDF and CD to Dana. Upload to SDS folder. Email PDF to Dana and Jeff (jparillo@Ensafe.com) Email invoice to purchasing@ensafe.com.

Laboratory Sample ID	Client Sample Number	Collect Date/Time	SDG ID / SDG STATUS	Receive Date	PR	Verbal Date	Due Date	Mailed
SI3862-6	SITE4TS-FB	04-JUN-15 12:00		05-JUN-15		**19-JUN-15**	24-JUN-15	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Aqueous	S	SPLP-ALUMINUM	01-DEC-15			**MS/MSD**
Aqueous	S	SPLP-ANTIMONY	01-DEC-15			
Aqueous	S	SPLP-BERYLLIUM	01-DEC-15			
Aqueous	S	SPLP-CALCIUM	01-DEC-15			
Aqueous	S	SPLP-COBALT	01-DEC-15			
Aqueous	S	SPLP-COPPER	01-DEC-15			
Aqueous	S	SPLP-IRON	01-DEC-15			
Aqueous	S	SPLP-MAGNESIUM	01-DEC-15			
Aqueous	S	SPLP-MANGANESE	01-DEC-15			
Solid	P	SPLP-METALS				
SPLP-ARSENIC		SPLP-BARIUM		SPLP-CADMIUM		
SPLP-CHROMIUM		SPLP-LEAD		SPLP-MERCURY		
SPLP-SELENIUM		SPLP-SILVER		SW1312-EXT		
SW3010-PREP						
Aqueous	S	SPLP-NICKEL	01-DEC-15			
Aqueous	S	SPLP-POTASSIUM	01-DEC-15			
Aqueous	S	SPLP-SODIUM	01-DEC-15			
Solid	P	SPLP-SVOA				
SPLP-SW8270		SW1312-EXT-SVOA				
Aqueous	S	SPLP-SW8270SIM	11-JUN-15	1L N-Amber Glass		
Aqueous	S	SPLP-THALLIUM	01-DEC-15			
Aqueous	S	SPLP-VANADIUM	01-DEC-15			
Solid	P	SPLP-VOA				
SPLP-SW8260		SW1312-EXT-VOA				
Aqueous	S	SPLP-ZINC	01-DEC-15			

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Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 25, 2015
07:29 AM

Login Number: SI3862

Quote/Incoming: ENSAFE-BETHPAG

Account: ENSAFE001 Web
ENSAFE

Project: ENSAFE-BETHPAGE-WE08
NWIRP Bethpage, WE08

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI3862-7	SITE4TS-XX	04-JUN-15 00:00	05-JUN-15		**19-JUN-15**	24-JUN-15	

Matrix		*Product*	*Hold Date (shortest)*	*Bottle Type*	*Bottle Count*	*Comments*
Aqueous	S	SPLP-ALUMINUM	01-DEC-15			
Aqueous	S	SPLP-ANTIMONY	01-DEC-15			
Aqueous	S	SPLP-BERYLLIUM	01-DEC-15			
Aqueous	S	SPLP-CALCIUM	01-DEC-15			
Aqueous	S	SPLP-COBALT	01-DEC-15			
Aqueous	S	SPLP-COPPER	01-DEC-15			
Aqueous	S	SPLP-IRON	01-DEC-15			
Aqueous	S	SPLP-MAGNESIUM	01-DEC-15			
Aqueous	S	SPLP-MANGANESE	01-DEC-15			
Solid	P	SPLP-METALS				
SPLP-ARSENIC		SPLP-BARIUM		SPLP-CADMIUM		
SPLP-CHROMIUM		SPLP-LEAD		SPLP-MERCURY		
SPLP-SELENIUM		SPLP-SILVER		SW1312-EXT		
SW3010-PREP						
Aqueous	S	SPLP-NICKEL	01-DEC-15			
Aqueous	S	SPLP-POTASSIUM	01-DEC-15			
Aqueous	S	SPLP-SODIUM	01-DEC-15			
Solid	P	SPLP-SVOA				
SPLP-SW8270		SW1312-EXT-SVOA				
Aqueous	S	SPLP-SW8270SIM	11-JUN-15	1L N-Amber Glass		
Aqueous	S	SPLP-THALLIUM	01-DEC-15			
Aqueous	S	SPLP-VANADIUM	01-DEC-15			
Solid	P	SPLP-VOA				
SPLP-SW8260		SW1312-EXT-VOA				
Aqueous	S	SPLP-ZINC	01-DEC-15			

***Total Samples:* 6** ***Total Analyses:* 54**

06.25.15

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Katahdin Analytical Services, Inc.

Container Transfer History for SI3862

Samplenum SI3862-1

Container Id SI3862-1A **Containertype** **40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	

Container Id SI3862-1B **Containertype** **40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	

Container Id SI3862-1C **Containertype** **40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	

Container Id SI3862-1D **Containertype** **40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .
08-JUN-15 16:29	VOA_WALK-IN	GC/MS	EEVERETT	N	
09-JUN-15 13:47	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI3862-1E **Containertype** **8oz Glass** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .
08-JUN-15 16:29	VOA_WALK-IN	GC/MS	EEVERETT	N	
09-JUN-15 13:47	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI3862-1F **Containertype** **1L N-Amber Glass** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .
08-JUN-15 16:29	VOA_WALK-IN	GC/MS	EEVERETT	N	
09-JUN-15 13:47	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI3862-1G **Containertype** **40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-1H **Containertype** **40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-1I **Containertype** **40 mL Vial+DI+MEOH** **Matrix SL**

Katahdin Analytical Services, Inc.

Container Transfer History for SI3862

Samplenum SI3862-1

Container Id SI3862-1I **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-1J **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-1K **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-1L **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-1O **Containertype 1L N-Amber Glass** **Matrix SL**

Product *SW8270SIM-S, SW7471-MERCURY, SW6020-THALLIUM, SW6020-VANADIUM, SW6020-ZINC, SW8270-S, SW6020-SODIUM, SW6020-COPPER, SW6020-IRON, SW6020-LEAD, SW6020-MAGNESIUM, SW6020-MANGANESE, SW6020-NICKEL, SW6020-POTASSIUM, SW6020-SELENIUM, SW6020-SILVER, SW6020-ALUMINUM, SW6020-ANTIMONY, SW6020-ARSENIC, SW6020-BARIUM, SW6020-BERYLLIUM, SW6020-CADMIUM, SW6020-CALCIUM, SW6020-CHROMIUM, SW6020-COBALT*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:26	WALK-IN	WALK-IN	APIMENTEL	N	
18-JUN-15 12:55	WET CHEMISTRY	METALS PREP	GJOHNSON	N	

Container Id SI3862-1P **Containertype 1L N-Amber Glass** **Matrix SL**

Product *SW8270SIM-S, SW7471-MERCURY, SW6020-THALLIUM, SW6020-VANADIUM, SW6020-ZINC, SW8270-S, SW6020-SODIUM, SW6020-ANTIMONY, SW6020-ARSENIC, SW6020-BARIUM, SW6020-BERYLLIUM, SW6020-CADMIUM, SW6020-CALCIUM, SW6020-CHROMIUM, SW6020-COBALT, SW6020-COPPER, SW6020-ALUMINUM, SW6020-IRON, SW6020-LEAD, SW6020-MAGNESIUM, SW6020-MANGANESE, SW6020-NICKEL, SW6020-POTASSIUM, SW6020-SELENIUM, SW6020-SILVER*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:26	WALK-IN	WALK-IN	APIMENTEL	N	
05-JUN-15 15:31	WALK-IN	METALS PREP	GJOHNSON	N	
05-JUN-15 17:08	METALS PREP	WALK-IN	GJOHNSON	N	
08-JUN-15 15:12	WALK-IN	METALS PREP	TSWETT	N	
08-JUN-15 16:31	ORGANIC PREP	WALK-IN	GJOHNSON	N	

Samplenum SI3862-2

Container Id SI3862-2A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	

Container Id SI3862-2B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments

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Katahdin Analytical Services, Inc.

Container Transfer History for SI3862

Samplenum SI3862-2

Container Id SI3862-2B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .
08-JUN-15 16:29	VOA_WALK-IN	GC/MS	EEVERETT	N	
09-JUN-15 13:47	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI3862-2C **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .
08-JUN-15 16:29	VOA_WALK-IN	GC/MS	EEVERETT	N	
09-JUN-15 13:47	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI3862-2D **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:28	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-2F **Containertype 1L N-Amber Glass** **Matrix SL**

Product *SW8270SIM-S, SW6020-COPPER, SW6020-IRON, SW6020-LEAD, SW6020-MAGNESIUM, SW6020-MANGANESE, SW6020-NICKEL, SW6020-POTASSIUM, SW6020-SELENIUM, SW6020-SILVER, SW6020-ALUMINUM, SW6020-ANTIMONY, SW6020-ARSENIC, SW6020-BARIUM, SW6020-BERYLLIUM, SW6020-CADMIUM, SW6020-CALCIUM, SW6020-CHROMIUM, SW6020-COBALT, SW7471-MERCURY, SW6020-ZINC, SW6020-VANADIUM, SW6020-SODIUM, SW6020-THALLIUM, SW8270-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:23	LOGIN	WALK-IN	APIMENTEL	N	
05-JUN-15 15:31	WALK-IN	METALS PREP	GJOHNSON	N	
05-JUN-15 17:08	METALS PREP	WALK-IN	GJOHNSON	N	

Samplenum SI3862-3

Container Id SI3862-3A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	
08-JUN-15 12:11	VOA_WALK-IN	GC/MS	RCROCKER	N	
09-JUN-15 13:41	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI3862-3B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	

Container Id SI3862-3C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	

Samplenum SI3862-4

Container Id SI3862-4A **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:21	LOGIN	VOA_WALK-IN	APIMENTEL	N	

Katahdin Analytical Services, Inc.

Container Transfer History for SI3862

Samplenum SI3862-4

Container Id SI3862-4B **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:32	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .
08-JUN-15 16:29	VOA_WALK-IN	GC/MS	EEVERETT	N	
09-JUN-15 13:47	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI3862-4C **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:32	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

Container Id SI3862-4D **Containertype 40 mL Vial+DI+MEOH** **Matrix SL**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
05-JUN-15 13:22	LOGIN	VOA_FREEZER1	APIMENTEL	N	
05-JUN-15 13:32	VOA_FREEZER1	VOA_WALK-IN	APIMENTEL	Y	This container has not been properly returned to CUSTODY! It was last assigned to APIMENTEL for department CUSTODY on 06/05/15 13:22 .

VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
SITE4TS-EB	SI3862-3		88.4		93.6		101.		93.0	
Laboratory Control S	WG164386-1		97.2		104.		104.		96.8	
Method Blank Sample	WG164386-2		98.9		103.		109.		103.	

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** SL
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
SITE4TS-FB	SI3862-1		199.	*	96.8		102.		72.8	*
SITE4TS-FB	SI3862-1DL		107.		98.8		107.		102.	
SITE4TS-XX	SI3862-2		190.	*	109.		108.		61.6	*
SITE4TS-XX	SI3862-2DL		106.		93.6		101.		97.4	
SITE4TS-TB-SOIL	SI3862-4		110.		110.		105.		113.	
Methanol Blank	WG164386-5		98.7		92.1		99.3		94.5	
Matrix Spike	WG164407-11		199.	*	81.6		83.4		59.1	*
Matrix Spike Duplica	WG164407-12		102.		64.8		75.2		65.3	*
Laboratory Control S	WG164407-8		92.3		93.7		85.8		96.8	
Method Blank Sample	WG164407-9		104.		101.		89.9		115.	

		QC Limits
DBF	DIBROMOFLUOROMETHANE	64-130
TOL	TOLUENE-D8	85-115
BFB	P-BROMOFLUOROBENZENE	85-120
DCA	1,2-DICHLOROETHANE-D4	58-134

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : P1308.D
Instrument ID : GCMS-P
Heated Purge : No

SDG : SI3862
Lab Sample ID : WG164386-2
Date Analyzed : 08-JUN-15
Time Analyzed : 13:15

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164386-1	P1305.D	06/08/15	11:42
Methanol Blank	WG164386-5	P1309.D	06/08/15	13:41
SITE4TS-EB	SI3862-3	P1310.D	06/08/15	14:06
SITE4TS-FB	SI3862-1DL	P1321.D	06/08/15	18:52
SITE4TS-XX	SI3862-2DL	P1322.D	06/08/15	19:18

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : T3793.D
Instrument ID : GCMS-T
Heated Purge : Yes

SDG : SI3862
Lab Sample ID : WG164407-9
Date Analyzed : 08-JUN-15
Time Analyzed : 17:34

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164407-8	T3790.D	06/08/15	15:33
SITE4TS-TB-SOIL	SI3862-4	T3794.D	06/08/15	18:12
SITE4TS-FB	SI3862-1	T3795.D	06/08/15	18:49
SITE4TS-XX	SI3862-2	T3796.D	06/08/15	19:27
Matrix Spike	WG164407-11	T3798.D	06/08/15	20:42
Matrix Spike Duplica	WG164407-12	T3799.D	06/08/15	21:20

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164386-2
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: P1308.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50

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Report of Analytical Results

Client:
Lab ID: WG164386-2
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: P1308.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	2	2.0	0.50	1.0
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
1,1-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.21	0.50
1,2,3-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,2,3-Trichloropropane	U	0.50	ug/L	1	1	1.0	0.19	0.50
1,2,4-Trimethylbenzene	U	0.50	ug/L	1	1	1.0	0.19	0.50
1,3,5-Trimethylbenzene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,3-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.22	0.50
2-Chlorotoluene	U	0.50	ug/L	1	1	1.0	0.20	0.50
2,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
Bromochloromethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
Dibromomethane	U	0.50	ug/L	1	1	1.0	0.46	0.50
Hexachlorobutadiene	U	0.75	ug/L	1	1	1.0	0.52	0.75
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
Naphthalene	U	0.50	ug/L	1	1	1.0	0.30	0.50
n-Butylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
o-xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
p-Isopropyltoluene	U	0.50	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	0.50	ug/L	1	1	1.0	0.31	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
4-Chlorotoluene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Ethylbenzene	U	2.5	ug/L	1	5	5.0	0.65	2.5
Benzene	U	2.5	ug/L	1	5	5.0	0.93	2.5
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
1,3,5-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50

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Report of Analytical Results

Client:
Lab ID: WG164386-2
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: P1308.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Diethyl Ether	U	0.50	ug/L	1	1	1.0	0.40	0.50
Di-Isopropyl Ether	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
Tetrahydrofuran	U	5.0	ug/L	1	10	10.	1.7	5.0
Vinyl Acetate	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.9	%					
Toluene-d8		103.	%					
1,2-Dichloroethane-d4		109.	%					
Dibromofluoromethane		103.	%					

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Report of Analytical Results

Client:
Lab ID: WG164386-5
Client ID: Methanol Blank
Project:
SDG: SI3862
Lab File ID: P1309.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	250	ug/Kgdrywt	1	10	500	46.	250
Chloromethane	U	250	ug/Kgdrywt	1	10	500	70.	250
Vinyl Chloride	U	250	ug/Kgdrywt	1	10	500	44.	250
Bromomethane	U	250	ug/Kgdrywt	1	10	500	55.	250
Chloroethane	U	250	ug/Kgdrywt	1	10	500	65.	250
Trichlorofluoromethane	U	250	ug/Kgdrywt	1	10	500	46.	250
1,1-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	46.	120
Carbon Disulfide	U	120	ug/Kgdrywt	1	5	250	39.	120
Methylene Chloride	U	620	ug/Kgdrywt	1	25	1200	400	620
Acetone	U	620	ug/Kgdrywt	1	25	1200	260	620
trans-1,2-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	36.	120
Methyl tert-butyl Ether	U	120	ug/Kgdrywt	1	5	250	55.	120
1,1-Dichloroethane	U	120	ug/Kgdrywt	1	5	250	85.	120
cis-1,2-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	46.	120
Chloroform	U	120	ug/Kgdrywt	1	5	250	18.	120
Carbon Tetrachloride	U	120	ug/Kgdrywt	1	5	250	65.	120
1,1,1-Trichloroethane	U	120	ug/Kgdrywt	1	5	250	21.	120
2-Butanone	U	620	ug/Kgdrywt	1	25	1200	300	620
Benzene	U	120	ug/Kgdrywt	1	5	250	46.	120
1,2-Dichloroethane	U	120	ug/Kgdrywt	1	5	250	50.	120
Trichloroethene	U	120	ug/Kgdrywt	1	5	250	30.	120
1,2-Dichloropropane	U	120	ug/Kgdrywt	1	5	250	70.	120
Bromodichloromethane	U	120	ug/Kgdrywt	1	5	250	30.	120
cis-1,3-Dichloropropene	U	120	ug/Kgdrywt	1	5	250	36.	120
Toluene	U	120	ug/Kgdrywt	1	5	250	70.	120
4-Methyl-2-Pentanone	U	620	ug/Kgdrywt	1	25	1200	300	620
Tetrachloroethene	U	120	ug/Kgdrywt	1	5	250	60.	120
trans-1,3-Dichloropropene	U	120	ug/Kgdrywt	1	5	250	43.	120
1,1,2-Trichloroethane	U	120	ug/Kgdrywt	1	5	250	48.	120
Dibromochloromethane	U	120	ug/Kgdrywt	1	5	250	50.	120
1,2-Dibromoethane	U	120	ug/Kgdrywt	1	5	250	60.	120
Chlorobenzene	U	120	ug/Kgdrywt	1	5	250	26.	120
Ethylbenzene	U	120	ug/Kgdrywt	1	5	250	32.	120
Styrene	U	120	ug/Kgdrywt	1	5	250	26.	120

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Report of Analytical Results

Client:
Lab ID: WG164386-5
Client ID: Methanol Blank
Project:
SDG: SI3862
Lab File ID: P1309.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Bromoform	U	120	ug/Kgdrywt	1	5	250	35.	120
Isopropylbenzene	U	120	ug/Kgdrywt	1	5	250	46.	120
1,1,2,2-Tetrachloroethane	U	120	ug/Kgdrywt	1	5	250	42.	120
1,3-Dichlorobenzene	U	120	ug/Kgdrywt	1	5	250	31.	120
1,4-Dichlorobenzene	U	120	ug/Kgdrywt	1	5	250	22.	120
1,2-Dichlorobenzene	U	120	ug/Kgdrywt	1	5	250	39.	120
1,2-Dibromo-3-Chloropropane	U	120	ug/Kgdrywt	1	5	250	75.	120
1,2,4-Trichlorobenzene	U	120	ug/Kgdrywt	1	5	250	40.	120
1,2,4-Trimethylbenzene	U	120	ug/Kgdrywt	1	5	250	44.	120
1,3,5-Trimethylbenzene	U	120	ug/Kgdrywt	1	5	250	34.	120
n-Butylbenzene	U	120	ug/Kgdrywt	1	5	250	46.	120
sec-Butylbenzene	U	120	ug/Kgdrywt	1	5	250	46.	120
tert-Butylbenzene	U	120	ug/Kgdrywt	1	5	250	45.	120
m+p-Xylenes	U	120	ug/Kgdrywt	1	10	500	85.	120
o-Xylene	U	120	ug/Kgdrywt	1	5	250	65.	120
Xylenes (Total)	U	380	ug/Kgdrywt	1	15	750	65.	380
Naphthalene	U	120	ug/Kgdrywt	1	5	250	44.	120
1,1-Dichloropropene	U	120	ug/Kgdrywt	1	5	250	46.	120
1,2,3-Trichlorobenzene	U	120	ug/Kgdrywt	1	5	250	38.	120
1,2,3-Trichloropropane	U	120	ug/Kgdrywt	1	5	250	60.	120
2-Chlorotoluene	U	120	ug/Kgdrywt	1	5	250	55.	120
2,2-Dichloropropane	U	120	ug/Kgdrywt	1	5	250	25.	120
Bromobenzene	U	120	ug/Kgdrywt	1	5	250	37.	120
Bromochloromethane	U	120	ug/Kgdrywt	1	5	250	46.	120
Dibromomethane	U	120	ug/Kgdrywt	1	5	250	26.	120
Hexachlorobutadiene	U	120	ug/Kgdrywt	1	5	250	37.	120
n-Propylbenzene	U	120	ug/Kgdrywt	1	5	250	42.	120
p-Isopropyltoluene	U	120	ug/Kgdrywt	1	5	250	38.	120
1,3-Dichloropropane	U	120	ug/Kgdrywt	1	5	250	47.	120
2-Hexanone	U	620	ug/Kgdrywt	1	25	1200	240	620
4-Chlorotoluene	U	120	ug/Kgdrywt	1	5	250	24.	120
1,2-Dichloroethylene (Total)	U	250	ug/Kgdrywt	1	10	500	36.	250
Methylcyclohexane	U	120	ug/Kgdrywt	1	5	250	48.	120
Freon-113	U	120	ug/Kgdrywt	1	5	250	45.	120

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164386-5
Client ID: Methanol Blank
Project:
SDG: SI3862
Lab File ID: P1309.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,3,5-Trichlorobenzene	U	120	ug/Kgdrywt	1	5	250	44.	120
Cyclohexane	U	120	ug/Kgdrywt	1	5	250	70.	120
Diethyl Ether	U	120	ug/Kgdrywt	1	5	250	40.	120
Di-Isopropyl Ether	U	120	ug/Kgdrywt	1	5	250	100	120
Methyl Acetate	U	150	ug/Kgdrywt	1	5	250	140	150
Tetrahydrofuran	U	1200	ug/Kgdrywt	1	50	2500	220	1200
Vinyl Acetate	U	120	ug/Kgdrywt	1	5	250	47.	120
p-Bromofluorobenzene		98.7	%					
Toluene-D8		94.5	%					
1,2-Dichloroethane-D4		99.3	%					
Dibromofluoromethane		92.1	%					

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164407-9
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: T3793.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	5.0	ug/Kgdrywt	1	10	10.	0.92	5.0
Chloromethane	U	5.0	ug/Kgdrywt	1	10	10.	1.4	5.0
Vinyl Chloride	U	5.0	ug/Kgdrywt	1	10	10.	0.87	5.0
Bromomethane	U	5.0	ug/Kgdrywt	1	10	10.	1.1	5.0
Chloroethane	U	5.0	ug/Kgdrywt	1	10	10.	1.3	5.0
Trichlorofluoromethane	U	5.0	ug/Kgdrywt	1	10	10.	0.91	5.0
1,1-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.93	2.5
Carbon Disulfide	U	2.5	ug/Kgdrywt	1	5	5.0	0.78	2.5
Methylene Chloride	U	12	ug/Kgdrywt	1	25	25.	7.9	12.
Acetone	U	12	ug/Kgdrywt	1	25	25.	5.1	12.
trans-1,2-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.71	2.5
Methyl tert-butyl Ether	U	2.5	ug/Kgdrywt	1	5	5.0	1.1	2.5
1,1-Dichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.7	2.5
cis-1,2-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
Chloroform	U	2.5	ug/Kgdrywt	1	5	5.0	0.35	2.5
Carbon Tetrachloride	U	2.5	ug/Kgdrywt	1	5	5.0	1.3	2.5
1,1,1-Trichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.42	2.5
2-Butanone	U	12	ug/Kgdrywt	1	25	25.	5.9	12.
Benzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
1,2-Dichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.0	2.5
Trichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.59	2.5
1,2-Dichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
Bromodichloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.60	2.5
cis-1,3-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.72	2.5
Toluene	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
4-Methyl-2-Pentanone	U	12	ug/Kgdrywt	1	25	25.	5.9	12.
Tetrachloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
trans-1,3-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.86	2.5
1,1,2-Trichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.97	2.5
Dibromochloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.0	2.5
1,2-Dibromoethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
Chlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5
Ethylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.65	2.5
Styrene	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164407-9
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: T3793.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Bromoform	U	2.5	ug/Kgdrywt	1	5	5.0	0.70	2.5
Isopropylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
1,1,2,2-Tetrachloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.84	2.5
1,3-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.62	2.5
1,4-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.44	2.5
1,2-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.78	2.5
1,2-Dibromo-3-Chloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.5	2.5
1,2,4-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.79	2.5
1,2,4-Trimethylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.87	2.5
1,3,5-Trimethylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.67	2.5
n-Butylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
sec-Butylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
tert-Butylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.90	2.5
m+p-Xylenes	U	2.5	ug/Kgdrywt	1	10	10.	1.7	2.5
o-Xylene	U	2.5	ug/Kgdrywt	1	5	5.0	1.3	2.5
Xylenes (Total)	U	7.5	ug/Kgdrywt	1	15	15.	1.3	7.5
Naphthalene	U	2.5	ug/Kgdrywt	1	5	5.0	0.88	2.5
1,1-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
1,2,3-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.76	2.5
1,2,3-Trichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
2-Chlorotoluene	U	2.5	ug/Kgdrywt	1	5	5.0	1.1	2.5
2,2-Dichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	0.50	2.5
Bromobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.74	2.5
Bromochloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
Dibromomethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5
Hexachlorobutadiene	U	2.5	ug/Kgdrywt	1	5	5.0	0.74	2.5
n-Propylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.83	2.5
p-Isopropyltoluene	U	2.5	ug/Kgdrywt	1	5	5.0	0.76	2.5
1,3-Dichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	0.94	2.5
2-Hexanone	U	12	ug/Kgdrywt	1	25	25.	4.8	12.
4-Chlorotoluene	U	2.5	ug/Kgdrywt	1	5	5.0	0.49	2.5
1,2-Dichloroethylene (Total)	U	5.0	ug/Kgdrywt	1	10	10.	0.71	5.0
Methylcyclohexane	U	2.5	ug/Kgdrywt	1	5	5.0	0.96	2.5
Freon-113	U	2.5	ug/Kgdrywt	1	5	5.0	0.90	2.5

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Report of Analytical Results

Client:
Lab ID: WG164407-9
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: T3793.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,3,5-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.87	2.5
Cyclohexane	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
Diethyl Ether	U	2.5	ug/Kgdrywt	1	5	5.0	0.80	2.5
Di-Isopropyl Ether	U	2.5	ug/Kgdrywt	1	5	5.0	2.1	2.5
Methyl Acetate	U	3.0	ug/Kgdrywt	1	5	5.0	2.7	3.0
Tetrahydrofuran	U	25	ug/Kgdrywt	1	50	50.	4.5	25.
Vinyl Acetate	U	2.5	ug/Kgdrywt	1	5	5.0	0.94	2.5
p-Bromofluorobenzene		104.	%					
Toluene-D8		115.	%					
1,2-Dichloroethane-D4		89.9	%					
Dibromofluoromethane		101.	%					

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164386-1
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: P1305.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	* 167.	50.0	83.3	ug/L	30-155
Chloromethane	107.	50.0	53.3	ug/L	40-125
Vinyl Chloride	114.	50.0	57.2	ug/L	50-145
Bromomethane	103.	50.0	51.6	ug/L	30-145
Chloroethane	129.	50.0	64.6	ug/L	60-135
Trichlorofluoromethane	116.	50.0	57.8	ug/L	60-145
1,1-Dichloroethene	119.	50.0	59.3	ug/L	70-130
Carbon Disulfide	128.	50.0	63.9	ug/L	35-160
Methylene Chloride	105.	50.0	52.3	ug/L	55-140
Acetone	97.8	50.0	48.9	ug/L	40-140
trans-1,2-Dichloroethene	108.	50.0	53.8	ug/L	60-140
Methyl tert-butyl Ether	113.	100.	113.	ug/L	65-125
1,1-Dichloroethane	107.	50.0	53.7	ug/L	70-135
cis-1,2-Dichloroethene	103.	50.0	51.4	ug/L	70-125
Chloroform	109.	50.0	54.4	ug/L	65-135
1,1,1-Trichloroethane	112.	50.0	55.8	ug/L	65-130
2-Butanone	93.0	50.0	46.5	ug/L	30-150
Carbon Tetrachloride	109.	50.0	54.6	ug/L	65-140
1,2-Dichloroethane	106.	50.0	53.0	ug/L	70-130
Trichloroethene	101.	50.0	50.6	ug/L	70-125
1,2-Dichloropropane	103.	50.0	51.5	ug/L	75-125
Bromodichloromethane	110.	50.0	54.8	ug/L	75-120
cis-1,3-Dichloropropene	110.	50.0	54.9	ug/L	70-130
Toluene	98.4	50.0	49.2	ug/L	75-120
4-Methyl-2-Pentanone	96.2	50.0	48.1	ug/L	60-135
trans-1,3-Dichloropropene	119.	50.0	59.6	ug/L	55-140
1,1,2-Trichloroethane	103.	50.0	51.6	ug/L	75-125
Tetrachloroethene	95.2	50.0	47.6	ug/L	45-150
Dibromochloromethane	104.	50.0	52.2	ug/L	60-135
1,2-Dibromoethane	105.	50.0	52.7	ug/L	80-120
Chlorobenzene	105.	50.0	52.3	ug/L	80-120
Styrene	106.	50.0	52.8	ug/L	65-135
Bromoform	103.	50.0	51.3	ug/L	70-130
Isopropylbenzene	108.	50.0	53.8	ug/L	75-125
1,1,2,2-Tetrachloroethane	94.6	50.0	47.3	ug/L	65-130

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LCS Recovery Report

Client:
Lab ID: WG164386-1
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: P1305.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,3-Dichlorobenzene	108.	50.0	54.2	ug/L	75-125
1,4-Dichlorobenzene	98.4	50.0	49.2	ug/L	75-125
1,2-Dichlorobenzene	108.	50.0	53.8	ug/L	70-120
1,2-Dibromo-3-Chloropropane	101.	50.0	50.3	ug/L	50-130
1,2,4-Trichlorobenzene	101.	50.0	50.3	ug/L	65-135
1,1-Dichloropropene	107.	50.0	53.7	ug/L	75-130
1,2,3-Trichlorobenzene	100.	50.0	50.2	ug/L	55-140
1,2,3-Trichloropropane	96.0	50.0	48.0	ug/L	75-125
1,2,4-Trimethylbenzene	99.4	50.0	49.7	ug/L	75-130
1,3,5-Trimethylbenzene	101.	50.0	50.4	ug/L	75-130
1,3-Dichloropropane	101.	50.0	50.4	ug/L	75-125
2-Chlorotoluene	108.	50.0	54.2	ug/L	75-125
2,2-Dichloropropane	* 142.	50.0	71.2	ug/L	70-135
Bromobenzene	101.	50.0	50.6	ug/L	75-125
Bromochloromethane	113.	50.0	56.3	ug/L	65-130
Dibromomethane	106.	50.0	53.1	ug/L	75-125
Hexachlorobutadiene	109.	50.0	54.3	ug/L	50-140
m+p-Xylenes	104.	100.	104.	ug/L	75-130
Naphthalene	99.0	50.0	49.5	ug/L	55-140
n-Butylbenzene	99.8	50.0	49.9	ug/L	70-135
n-Propylbenzene	106.	50.0	52.9	ug/L	70-130
o-xylene	107.	50.0	53.7	ug/L	80-120
p-Isopropyltoluene	112.	50.0	55.9	ug/L	75-130
sec-Butylbenzene	104.	50.0	52.0	ug/L	70-125
tert-Butylbenzene	109.	50.0	54.5	ug/L	70-130
2-Hexanone	92.2	50.0	46.1	ug/L	55-130
4-Chlorotoluene	111.	50.0	55.7	ug/L	75-130
1,2-Dichloroethylene (Total)	105.	100.	105.	ug/L	84-121
Xylenes (Total)	105.	150.	157.	ug/L	89-116
Ethylbenzene	97.6	50.0	48.8	ug/L	75-125
Benzene	100.	50.0	50.0	ug/L	80-120
Freon-113	107.	50.0	53.4	ug/L	73-126
1,3,5-Trichlorobenzene	104.	50.0	52.1	ug/L	77-120
Cyclohexane	97.2	50.0	48.6	ug/L	71-133
Diethyl Ether	110.	50.0	55.1	ug/L	78-124

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LCS Recovery Report

Client:
Lab ID: WG164386-1
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: P1305.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Di-Isopropyl Ether	105.	50.0	52.4	ug/L	81-123
Methyl Acetate	95.0	50.0	47.5	ug/L	70-132
Methylcyclohexane	107.	50.0	53.3	ug/L	73-125
Tetrahydrofuran	85.8	50.0	42.9	ug/L	74-123
Vinyl Acetate	102.	50.0	51.2	ug/L	56-129
P-Bromofluorobenzene	97.2				75-120
Toluene-d8	96.8				85-120
1,2-Dichloroethane-d4	104.				70-120
Dibromofluoromethane	104.				85-115

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LCS Recovery Report

Client:
Lab ID: WG164407-8
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: T3790.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 22-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	102.	50.0	51.0	ug/Kgdrywt	35-135
Chloromethane	83.6	50.0	41.8	ug/Kgdrywt	50-130
Vinyl Chloride	96.4	50.0	48.2	ug/Kgdrywt	60-125
Bromomethane	114.	50.0	57.2	ug/Kgdrywt	30-160
Chloroethane	* 167.	50.0	83.6	ug/Kgdrywt	40-155
Trichlorofluoromethane	128.	50.0	64.1	ug/Kgdrywt	25-185
1,1-Dichloroethene	106.	50.0	52.8	ug/Kgdrywt	65-135
Carbon Disulfide	128.	50.0	64.0	ug/Kgdrywt	45-160
Methylene Chloride	92.0	50.0	46.0	ug/Kgdrywt	55-140
Acetone	91.2	50.0	45.6	ug/Kgdrywt	20-160
trans-1,2-Dichloroethene	109.	50.0	54.4	ug/Kgdrywt	65-135
Methyl tert-butyl Ether	* 74.8	100.	74.8	ug/Kgdrywt	81-125
1,1-Dichloroethane	102.	50.0	50.9	ug/Kgdrywt	75-125
cis-1,2-Dichloroethene	94.4	50.0	47.2	ug/Kgdrywt	65-125
Chloroform	99.2	50.0	49.6	ug/Kgdrywt	70-125
Carbon Tetrachloride	106.	50.0	53.1	ug/Kgdrywt	65-135
1,1,1-Trichloroethane	103.	50.0	51.4	ug/Kgdrywt	70-135
2-Butanone	73.8	50.0	36.9	ug/Kgdrywt	30-160
Benzene	104.	50.0	51.8	ug/Kgdrywt	75-125
1,2-Dichloroethane	93.0	50.0	46.5	ug/Kgdrywt	70-135
Trichloroethene	108.	50.0	54.0	ug/Kgdrywt	75-125
1,2-Dichloropropane	101.	50.0	50.6	ug/Kgdrywt	70-120
Bromodichloromethane	104.	50.0	51.9	ug/Kgdrywt	70-130
cis-1,3-Dichloropropene	104.	50.0	51.8	ug/Kgdrywt	70-125
Toluene	103.	50.0	51.3	ug/Kgdrywt	70-125
4-Methyl-2-Pentanone	89.0	50.0	44.5	ug/Kgdrywt	45-145
Tetrachloroethene	115.	50.0	57.3	ug/Kgdrywt	65-140
trans-1,3-Dichloropropene	107.	50.0	53.6	ug/Kgdrywt	65-125
1,1,2-Trichloroethane	97.4	50.0	48.7	ug/Kgdrywt	60-125
Dibromochloromethane	112.	50.0	55.8	ug/Kgdrywt	65-130
1,2-Dibromoethane	96.8	50.0	48.4	ug/Kgdrywt	70-125
Chlorobenzene	106.	50.0	53.2	ug/Kgdrywt	75-125
Ethylbenzene	108.	50.0	53.8	ug/Kgdrywt	75-125
Styrene	107.	50.0	53.6	ug/Kgdrywt	75-125
Bromoform	111.	50.0	55.3	ug/Kgdrywt	55-135

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LCS Recovery Report

Client:
Lab ID: WG164407-8
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: T3790.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 22-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Isopropylbenzene	115.	50.0	57.3	ug/Kgdrywt	75-130
1,1,2,2-Tetrachloroethane	99.4	50.0	49.7	ug/Kgdrywt	55-130
1,3-Dichlorobenzene	112.	50.0	55.9	ug/Kgdrywt	70-125
1,4-Dichlorobenzene	108.	50.0	54.1	ug/Kgdrywt	70-125
1,2-Dichlorobenzene	108.	50.0	54.1	ug/Kgdrywt	75-120
1,2-Dibromo-3-Chloropropane	99.6	50.0	49.8	ug/Kgdrywt	40-135
1,2,4-Trichlorobenzene	111.	50.0	55.4	ug/Kgdrywt	65-130
1,2,4-Trimethylbenzene	109.	50.0	54.7	ug/Kgdrywt	65-135
1,3,5-Trimethylbenzene	115.	50.0	57.3	ug/Kgdrywt	65-135
n-Butylbenzene	110.	50.0	54.9	ug/Kgdrywt	65-140
sec-Butylbenzene	114.	50.0	56.9	ug/Kgdrywt	65-130
tert-Butylbenzene	113.	50.0	56.6	ug/Kgdrywt	65-130
m+p-Xylenes	111.	100.	111.	ug/Kgdrywt	80-125
o-Xylene	111.	50.0	55.5	ug/Kgdrywt	75-125
Xylenes (Total)	111.	150.	167.	ug/Kgdrywt	81-114
Naphthalene	118.	50.0	58.8	ug/Kgdrywt	40-125
1,1-Dichloropropene	108.	50.0	54.1	ug/Kgdrywt	70-135
1,2,3-Trichlorobenzene	108.	50.0	54.2	ug/Kgdrywt	60-135
1,2,3-Trichloropropane	100.	50.0	50.0	ug/Kgdrywt	65-130
2-Chlorotoluene	111.	50.0	55.4	ug/Kgdrywt	70-130
2,2-Dichloropropane	104.	50.0	52.0	ug/Kgdrywt	65-135
Bromobenzene	112.	50.0	55.8	ug/Kgdrywt	65-120
Bromochloromethane	107.	50.0	53.6	ug/Kgdrywt	70-125
Dibromomethane	98.0	50.0	49.0	ug/Kgdrywt	75-130
Hexachlorobutadiene	110.	50.0	54.9	ug/Kgdrywt	55-140
n-Propylbenzene	114.	50.0	57.1	ug/Kgdrywt	65-135
p-Isopropyltoluene	114.	50.0	57.0	ug/Kgdrywt	75-135
1,3-Dichloropropane	98.4	50.0	49.2	ug/Kgdrywt	75-125
2-Hexanone	90.0	50.0	45.0	ug/Kgdrywt	45-145
4-Chlorotoluene	109.	50.0	54.7	ug/Kgdrywt	75-125
1,2-Dichloroethylene (Total)	102.	100.	102.	ug/Kgdrywt	82-120
Methylcyclohexane	104.	50.0	51.8	ug/Kgdrywt	71-127
Freon-113	106.	50.0	52.9	ug/Kgdrywt	67-135
1,3,5-Trichlorobenzene	99.4	50.0	49.7	ug/Kgdrywt	64-133
Cyclohexane	96.8	50.0	48.4	ug/Kgdrywt	75-128

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164407-8
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: T3790.D

Sample Date:
Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: NA
Report Date: 22-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Diethyl Ether	89.4	50.0	44.7	ug/Kgdrywt	76-135
Di-Isopropyl Ether	94.0	50.0	47.0	ug/Kgdrywt	68-131
Methyl Acetate	87.0	50.0	43.5	ug/Kgdrywt	72-133
Tetrahydrofuran	84.8	50.0	42.4	ug/Kgdrywt	78-137
Vinyl Acetate	110.	50.0	54.9	ug/Kgdrywt	77-119
p-Bromofluorobenzene	92.3				85-120
Toluene-D8	96.8				85-115
1,2-Dichloroethane-D4	85.8				58-134
Dibromofluoromethane	93.7				64-130

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG164407-11
MSD ID: WG164407-12
Sample ID: SI3862-1
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: T3798.D

Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407
Report Date: 22-JUN-15
MSD File ID: T3799.D

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dichlorodifluoromethane	45.0	45.0	ug/Kgdrywt	U4.4	55.	30.	122.	65.6	60*	30	35-135
Chloromethane	45.0	45.0	ug/Kgdrywt	U4.4	47.	26.	104.	56.7	58*	30	50-130
Vinyl Chloride	45.0	45.0	ug/Kgdrywt	U4.4	50.	27.	111.	60.4	59*	30	60-125
Bromomethane	45.0	45.0	ug/Kgdrywt	U4.4	47.	34.	104.	76.0	31*	30	30-160
Chloroethane	45.0	45.0	ug/Kgdrywt	ULM4.4	79.	51.	175.*	114.	43*	30	40-155
Trichlorofluoromethane	45.0	45.0	ug/Kgdrywt	U4.4	60.	35.	134.	77.8	53*	30	25-185
1,1-Dichloroethene	45.0	45.0	ug/Kgdrywt	U2.2	48.	32.	106.	70.0	41*	30	65-135
Carbon Disulfide	45.0	45.0	ug/Kgdrywt	J2.9	57.	38.	121.	77.3	41*	30	45-160
Methylene Chloride	45.0	45.0	ug/Kgdrywt	U11	43.	32.	96.0	70.0	31*	30	55-140
Acetone	45.0	45.0	ug/Kgdrywt	M100	180	140	173.*	68.9	29	30	20-160
trans-1,2-Dichloroethene	45.0	45.0	ug/Kgdrywt	U2.2	46.	31.	103.	68.4	40*	30	65-135
Methyl tert-butyl Ether	89.0	89.0	ug/Kgdrywt	ULMM2.	130	28.	147.*	31.1*	130*	30	81-125
1,1-Dichloroethane	45.0	45.0	ug/Kgdrywt	UM2.2	41.	28.	90.4	61.6*	38*	30	75-125
cis-1,2-Dichloroethene	45.0	45.0	ug/Kgdrywt	JM1.3	39.	28.	83.8	59.3*	33*	30	65-125
Chloroform	45.0	45.0	ug/Kgdrywt	UM2.2	37.	28.	81.8	62.0*	28	30	70-125
Carbon Tetrachloride	45.0	45.0	ug/Kgdrywt	UMM2.2	29.	19.	64.4*	42.2*	42*	30	65-135
1,1,1-Trichloroethane	45.0	45.0	ug/Kgdrywt	UM2.2	34.	22.	76.7	48.9*	44*	30	70-135
2-Butanone	45.0	45.0	ug/Kgdrywt	UMM11	120	78.	2.22*	0*	40*	30	30-160
Benzene	45.0	45.0	ug/Kgdrywt	JM4.2	40.	32.	80.0	62.7*	21	30	75-125
1,2-Dichloroethane	45.0	45.0	ug/Kgdrywt	UM2.2	33.	29.	72.9	64.9*	12	30	70-135
Trichloroethene	45.0	45.0	ug/Kgdrywt	UMM2.2	30.	29.	66.2*	65.1*	2	30	75-125
1,2-Dichloropropane	45.0	45.0	ug/Kgdrywt	UMM2.2	28.	26.	62.4*	57.3*	8	30	70-120
Bromodichloromethane	45.0	45.0	ug/Kgdrywt	UMM2.2	28.	25.	63.3*	55.6*	13	30	70-130
cis-1,3-Dichloropropene	45.0	45.0	ug/Kgdrywt	UM2.2	32.	21.	70.4	47.6*	39*	30	70-125
Toluene	45.0	45.0	ug/Kgdrywt	JMM4.0	29.	30.	55.8*	58.4*	4	30	70-125
4-Methyl-2-Pentanone	45.0	45.0	ug/Kgdrywt	UM11	440	510	91.1	247.*	15	30	45-145
Tetrachloroethene	45.0	45.0	ug/Kgdrywt	M9.7	42.	33.	71.1	52.7*	22	30	65-140
trans-1,3-Dichloropropene	45.0	45.0	ug/Kgdrywt	UM2.2	30.	14.	66.0	32.2*	69*	30	65-125
1,1,2-Trichloroethane	45.0	45.0	ug/Kgdrywt	UMM2.2	880	1100	1950*	2530*	26	30	60-125
Dibromochloromethane	45.0	45.0	ug/Kgdrywt	U2.2	40.	33.	89.3	73.6	19	30	65-130
1,2-Dibromoethane	45.0	45.0	ug/Kgdrywt	UM2.2	34.	28.	76.4	61.8*	21	30	70-125
Chlorobenzene	45.0	45.0	ug/Kgdrywt	UM2.2	38.	32.	83.6	70.2*	17	30	75-125
Ethylbenzene	45.0	45.0	ug/Kgdrywt	63	110	100	109.	84.7	10	30	75-125

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG164407-11
MSD ID: WG164407-12
Sample ID: SI3862-1
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: T3798.D

Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407
Report Date: 22-JUN-15
MSD File ID: T3799.D

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Styrene	45.0	45.0	ug/Kgdrywt	UMM2.2	24.	24.	54.0*	52.7*	2	30	75-125
Bromoform	45.0	45.0	ug/Kgdrywt	UM2.2	26.	20.	58.7	44.7*	27	30	55-135
Isopropylbenzene	45.0	45.0	ug/Kgdrywt	73	120	130	107.	127.	7	30	75-130
1,1,2,2-Tetrachloroethane	45.0	45.0	ug/Kgdrywt	UMM2.2	670	860	1500*	1920*	25	30	55-130
1,3-Dichlorobenzene	45.0	45.0	ug/Kgdrywt	UMM2.2	15.	14.	33.1*	31.6*	5	30	70-125
1,4-Dichlorobenzene	45.0	45.0	ug/Kgdrywt	UMM2.2	14.	15.	31.8*	32.4*	2	30	70-125
1,2-Dichlorobenzene	45.0	45.0	ug/Kgdrywt	UMM2.2	13.	12.	28.4*	27.1*	5	30	75-120
1,2-Dibromo-3-Chloropropane	45.0	45.0	ug/Kgdrywt	UMM2.2	16.	14.	34.7*	31.8*	9	30	40-135
1,2,4-Trichlorobenzene	45.0	45.0	ug/Kgdrywt	UMM2.2	1.2	2.0	2.67*	4.44*	50*	30	65-130
1,2,4-Trimethylbenzene	45.0	45.0	ug/Kgdrywt	MM26	47.	49.	45.3*	51.1*	5	30	65-135
1,3,5-Trimethylbenzene	45.0	45.0	ug/Kgdrywt	73	120	130	107.	127.	7	30	65-135
n-Butylbenzene	45.0	45.0	ug/Kgdrywt	MM39	54.	61.	33.8*	49.6*	12	30	65-140
sec-Butylbenzene	45.0	45.0	ug/Kgdrywt	M54	76.	86.	50.2*	71.8	12	30	65-130
tert-Butylbenzene	45.0	45.0	ug/Kgdrywt	UM2.2	31.	28.	69.3	62.2*	11	30	65-130
m+p-Xylenes	89.0	89.0	ug/Kgdrywt	JMM8.4	66.	58.	65.3*	55.7*	14	30	80-125
o-Xylene	45.0	45.0	ug/Kgdrywt	MM7.4	36.	32.	64.7*	54.4*	13	30	75-125
Xylenes (Total)	130.	130.	ug/Kgdrywt	MM16	100	90.	67.1*	57.0*	14	30	81-114
Naphthalene	45.0	45.0	ug/Kgdrywt	M29	52.	33.	49.8	7.78*	45*	30	40-125
1,1-Dichloropropene	45.0	45.0	ug/Kgdrywt	UMM2.2	31.	27.	69.8*	59.8*	15	30	70-135
1,2,3-Trichlorobenzene	45.0	45.0	ug/Kgdrywt	UMM2.2	12.	3.5	26.0*	7.78*	108*	30	60-135
1,2,3-Trichloropropane	45.0	45.0	ug/Kgdrywt	UMM2.2	61.	69.	136.*	152.*	11	30	65-130
2-Chlorotoluene	45.0	45.0	ug/Kgdrywt	U2.2	54.	35.	121.	78.7	42*	30	70-130
2,2-Dichloropropane	45.0	45.0	ug/Kgdrywt	UM2.2	38.	9.8	83.8	21.8*	117*	30	65-135
Bromobenzene	45.0	45.0	ug/Kgdrywt	U2.2	37.	38.	83.1	84.4	2	30	65-120
Bromochloromethane	45.0	45.0	ug/Kgdrywt	U2.2	45.	35.	99.6	76.9	26	30	70-125
Dibromomethane	45.0	45.0	ug/Kgdrywt	UMM2.2	33.	33.	73.3*	72.7*	1	30	75-130
Hexachlorobutadiene	45.0	45.0	ug/Kgdrywt	UMM2.2	1.2	2.2	2.67*	0*	200*	30	55-140
n-Propylbenzene	45.0	45.0	ug/Kgdrywt	UMM2.2	110	130	249.*	298.*	18	30	65-135
p-Isopropyltoluene	45.0	45.0	ug/Kgdrywt	MM52	79.	64.	58.9*	26.4*	20	30	75-135
1,3-Dichloropropane	45.0	45.0	ug/Kgdrywt	U2.2	46.	40.	103.	88.0	16	30	75-125
2-Hexanone	45.0	45.0	ug/Kgdrywt	UMM11	200	150	447.*	342.*	26	30	45-145
4-Chlorotoluene	45.0	45.0	ug/Kgdrywt	UMM2.2	27.	34.	59.6*	74.4*	22	30	75-125
1,2-Dichloroethylene (Total)	89.0	89.0	ug/Kgdrywt	JM1.3	85.	59.	94.4	64.5*	37*	30	82-120

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MS/MSD Recovery Report

MS ID: WG164407-11
MSD ID: WG164407-12
Sample ID: SI3862-1
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: T3798.D

Received Date:
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407
Report Date: 22-JUN-15
MSD File ID: T3799.D

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Methylcyclohexane	45.0	45.0	ug/Kgdrywt	EM470	510	480	88.9	2.22*	8	30	71-127
Freon-113	45.0	45.0	ug/Kgdrywt	UM2.2	36.	26.	79.1	58.7*	30	30	67-135
1,3,5-Trichlorobenzene	45.0	45.0	ug/Kgdrywt	UMM2.2	1.0	0.92	2.22*	2.04*	8	30	64-133
Cyclohexane	45.0	45.0	ug/Kgdrywt	M120	160	110	84.4	0*	39*	30	75-128
Diethyl Ether	45.0	45.0	ug/Kgdrywt	UM2.2	44.	31.	98.9	69.1*	35*	30	76-135
Di-Isopropyl Ether	45.0	45.0	ug/Kgdrywt	UM2.2	40.	30.	89.8	65.8*	31*	30	68-131
Methyl Acetate	45.0	45.0	ug/Kgdrywt	UMM2.7	23.	22.	51.6*	48.4*	6	30	72-133
Tetrahydrofuran	45.0	45.0	ug/Kgdrywt	UM22	88.	61.	196.*	136.	36*	30	78-137
Vinyl Acetate	45.0	45.0	ug/Kgdrywt	UMM2.2	25.	7.4	55.3*	16.4*	108*	30	77-119
p-Bromofluorobenzene							199.*	102.			85-120
Toluene-D8							59.1*	65.3*			85-115
1,2-Dichloroethane-D4							83.4	75.2			58-134
Dibromofluoromethane							81.6	64.8			64-130

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : PB283.D
Instrument ID : GCMS-P

SDG : SI3862
Date Analyzed : 03-JUN-15
Time Analyzed : 13:35
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.4		
75	30.0 - 60.0% of mass 95	50.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.4		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	63.1		
175	5.0 - 9.0% of mass 174	3.2	5.11	1
176	95.0 - 101.0% of mass 174	61.0	96.63	1
177	5.0 - 9.0% of mass 176	4.2	6.93	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG164075-4	P1227.D	06/03/15	13:58
Initial Calibration	WG164075-3	P1228.D	06/03/15	14:23
Initial Calibration	WG164075-2	P1229.D	06/03/15	14:49
Initial Calibration	WG164075-1	P1230.D	06/03/15	15:15
Initial Calibration	WG164075-6	P1231.D	06/03/15	15:40
Initial Calibration	WG164075-5	P1232.D	06/03/15	16:06
Independent Source	WG164075-7	P1233A.D	06/03/15	16:32

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : PB286.D
Instrument ID : GCMS-P

SDG : SI3862
Date Analyzed : 08-JUN-15
Time Analyzed : 10:27
Heated Purge : Yes

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.9		
75	30.0 - 60.0% of mass 95	57.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.0		
173	Less than 2.0% of mass 174	0.5	0.79	1
174	Greater than 50.0% of mass 95	64.5		
175	5.0 - 9.0% of mass 174	3.5	5.48	1
176	95.0 - 101.0% of mass 174	62.5	96.97	1
177	5.0 - 9.0% of mass 176	4.0	6.34	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG164386-4	P1304.D	06/08/15	10:51
Laboratory Control S	WG164386-1	P1305.D	06/08/15	11:42
Method Blank Sample	WG164386-2	P1308.D	06/08/15	13:15
Methanol Blank	WG164386-5	P1309.D	06/08/15	13:41
SITE4TS-EB	SI3862-3	P1310.D	06/08/15	14:06
SITE4TS-FB	SI3862-1DL	P1321.D	06/08/15	18:52
SITE4TS-XX	SI3862-2DL	P1322.D	06/08/15	19:18

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : TB908.D
Instrument ID : GCMS-T

SDG : SI3862
Date Analyzed : 08-JUN-15
Time Analyzed : 10:08
Heated Purge : Yes

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.1		
75	30.0 - 60.0% of mass 95	47.1		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.5		
173	Less than 2.0% of mass 174	0.5	0.59	1
174	Greater than 50.0% of mass 95	77.2		
175	5.0 - 9.0% of mass 174	6.0	7.77	1
176	95.0 - 101.0% of mass 174	77.5	100.37	1
177	5.0 - 9.0% of mass 176	4.5	5.80	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG164407-4	T3783.D	06/08/15	10:43
Initial Calibration	WG164407-3	T3784.D	06/08/15	11:25
Initial Calibration	WG164407-2	T3785.D	06/08/15	12:03
Initial Calibration	WG164407-1	T3786.D	06/08/15	12:41
Initial Calibration	WG164407-6	T3787.D	06/08/15	13:18
Initial Calibration	WG164407-5	T3788.D	06/08/15	13:56
Laboratory Control S	WG164407-8	T3790.D	06/08/15	15:33
Independent Source	WG164407-7	T3790A.D	06/08/15	15:33
Method Blank Sample	WG164407-9	T3793.D	06/08/15	17:34
SITE4TS-TB-SOIL	SI3862-4	T3794.D	06/08/15	18:12
SITE4TS-FB	SI3862-1	T3795.D	06/08/15	18:49
SITE4TS-XX	SI3862-2	T3796.D	06/08/15	19:27
Matrix Spike	WG164407-11	T3798.D	06/08/15	20:42
Matrix Spike Duplica	WG164407-12	T3799.D	06/08/15	21:20

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164075-4
Lab File ID : P1227.D

SDG: SI3862
Analytical Date: 06/03/15 13:58
Instrument ID: GCMS-P

		PENTAFLUOROBENZENE				1,4-DIFLUOROBENZENE				CHLOROBENZENE-D5			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	395997		8.71		747566		9.58		656138		13.93	
	Upper Limit	791994		9.21		1495132		10.08		1312276		14.43	
	Lower Limit	197998.5		8.21		373783		9.08		328069		13.43	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG164386-4	358541		8.71		681546		9.58		622596		13.93	
Laboratory Control S	WG164386-1	357512		8.71		695599		9.57		626507		13.93	
Method Blank Sample	WG164386-2	373511		8.72		702573		9.58		636531		13.93	
Methanol Blank	WG164386-5	394623		8.72		732160		9.58		693305		13.93	
SITE4TS-EB	SI3862-3	383379		8.72		731400		9.58		649046		13.93	
SITE4TS-FB	SI3862-1DL	380436		8.72		711266		9.58		676515		13.93	
SITE4TS-XX	SI3862-2DL	412489		8.71		772436		9.58		739911		13.93	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164075-4
Lab File ID : P1227.D

SDG: SI3862
Analytical Date: 06/03/15 13:58
Instrument ID: GCMS-P

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	348639		16.93	
	Upper Limit	697278		17.43	
	Lower Limit	174319.5		16.43	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG164386-4	334540		16.93	
Laboratory Control S	WG164386-1	338056		16.93	
Method Blank Sample	WG164386-2	334482		16.93	
Methanol Blank	WG164386-5	378033		16.93	
SITE4TS-EB	SI3862-3	338232		16.93	
SITE4TS-FB	SI3862-1DL	367677		16.93	
SITE4TS-XX	SI3862-2DL	392493		16.93	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164407-4
Lab File ID : T3783.D

SDG: SI3862
Analytical Date: 06/08/15 10:43
Instrument ID: GCMS-T

		PENTAFLUOROBENZENE				1,4-DIFLUOROBENZENE				CHLOROBENZENE-D5			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	309641		7.99		562002		8.76		551636		12.82	
	Upper Limit	619282		8.49		1124004		9.26		1103272		13.32	
	Lower Limit	154820.5		7.49		281001		8.26		275818		12.32	
Client Sample ID	Lab Sample ID												
Laboratory Control S	WG164407-8	378293		7.99		627414		8.75		592417		12.82	
Method Blank Sample	WG164407-9	333019		7.99		507968		8.75		545996		12.82	
SITE4TS-TB-SOIL	SI3862-4	325412		7.99		517751		8.75		551843		12.82	
SITE4TS-FB	SI3862-1	294101		7.99		564097		8.75		357025		12.83	
SITE4TS-XX	SI3862-2	244258		7.99		479211		8.75		237346	*	12.83	
Matrix Spike	WG164407-11	341335		7.99		637839		8.76		363541		12.83	
Matrix Spike Duplica	WG164407-12	52385	*	7.99		92071	*	8.75		56368	*	12.83	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164407-4
Lab File ID : T3783.D

SDG: SI3862
Analytical Date: 06/08/15 10:43
Instrument ID: GCMS-T

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	345501		15.95	
	Upper Limit	691002		16.45	
	Lower Limit	172750.5		15.45	
Client Sample ID	Lab Sample ID				
Laboratory Control S	WG164407-8	337380		15.95	
Method Blank Sample	WG164407-9	314913		15.95	
SITE4TS-TB-SOIL	SI3862-4	306795		15.95	
SITE4TS-FB	SI3862-1	95720	*	15.96	
SITE4TS-XX	SI3862-2	97050	*	15.97	
Matrix Spike	WG164407-11	104694	*	15.96	
Matrix Spike Duplica	WG164407-12	14498	*	15.96	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

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 Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes 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.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native 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).

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Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3795.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	4.4	ug/Kgdrywt	1	10	8.9	0.82	4.4
Chloromethane	U	4.4	ug/Kgdrywt	1	10	8.9	1.2	4.4
Vinyl Chloride	U	4.4	ug/Kgdrywt	1	10	8.9	0.77	4.4
Bromomethane	U	4.4	ug/Kgdrywt	1	10	8.9	0.98	4.4
Chloroethane	ULM	4.4	ug/Kgdrywt	1	10	8.9	1.2	4.4
Trichlorofluoromethane	U	4.4	ug/Kgdrywt	1	10	8.9	0.81	4.4
1,1-Dichloroethene	U	2.2	ug/Kgdrywt	1	5	4.4	0.83	2.2
Carbon Disulfide	J	2.9	ug/Kgdrywt	1	5	4.4	0.69	2.2
Methylene Chloride	U	11	ug/Kgdrywt	1	25	22.	7.0	11.
Acetone	M	100	ug/Kgdrywt	1	25	22.	4.5	11.
trans-1,2-Dichloroethene	U	2.2	ug/Kgdrywt	1	5	4.4	0.63	2.2
Methyl tert-butyl Ether	ULMM	2.2	ug/Kgdrywt	1	5	4.4	0.98	2.2
1,1-Dichloroethane	UM	2.2	ug/Kgdrywt	1	5	4.4	1.5	2.2
cis-1,2-Dichloroethene	JM	1.3	ug/Kgdrywt	1	5	4.4	0.81	2.2
Chloroform	UM	2.2	ug/Kgdrywt	1	5	4.4	0.31	2.2
Carbon Tetrachloride	UMM	2.2	ug/Kgdrywt	1	5	4.4	1.2	2.2
1,1,1-Trichloroethane	UM	2.2	ug/Kgdrywt	1	5	4.4	0.37	2.2
2-Butanone	UMM	11	ug/Kgdrywt	1	25	22.	5.2	11.
Benzene	JM	4.2	ug/Kgdrywt	1	5	4.4	0.82	2.2
1,2-Dichloroethane	UM	2.2	ug/Kgdrywt	1	5	4.4	0.89	2.2
Trichloroethene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.52	2.2
1,2-Dichloropropane	UMM	2.2	ug/Kgdrywt	1	5	4.4	1.2	2.2
Bromodichloromethane	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.53	2.2
cis-1,3-Dichloropropene	UM	2.2	ug/Kgdrywt	1	5	4.4	0.64	2.2
Toluene	JMM	4.0	ug/Kgdrywt	1	5	4.4	1.2	2.2
4-Methyl-2-Pentanone	UM	11	ug/Kgdrywt	1	25	22.	5.2	11.
Tetrachloroethene	M	9.7	ug/Kgdrywt	1	5	4.4	1.1	2.2
trans-1,3-Dichloropropene	UM	2.2	ug/Kgdrywt	1	5	4.4	0.76	2.2
1,1,2-Trichloroethane	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.86	2.2
Dibromochloromethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.89	2.2
1,2-Dibromoethane	UM	2.2	ug/Kgdrywt	1	5	4.4	1.1	2.2
Chlorobenzene	UM	2.2	ug/Kgdrywt	1	5	4.4	0.45	2.2
Ethylbenzene		63	ug/Kgdrywt	1	5	4.4	0.58	2.2
Styrene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.45	2.2
Bromoform	UM	2.2	ug/Kgdrywt	1	5	4.4	0.62	2.2

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3795.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Isopropylbenzene		73	ug/Kgdrywt	1	5	4.4	0.82	2.2
1,1,2,2-Tetrachloroethane	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.75	2.2
1,3-Dichlorobenzene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.55	2.2
1,4-Dichlorobenzene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.39	2.2
1,2-Dichlorobenzene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.69	2.2
1,2-Dibromo-3-Chloropropane	UMM	2.2	ug/Kgdrywt	1	5	4.4	1.3	2.2
1,2,4-Trichlorobenzene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.70	2.2
1,2,4-Trimethylbenzene	MM	26	ug/Kgdrywt	1	5	4.4	0.77	2.2
1,3,5-Trimethylbenzene		73	ug/Kgdrywt	1	5	4.4	0.60	2.2
n-Butylbenzene	MM	39	ug/Kgdrywt	1	5	4.4	0.82	2.2
sec-Butylbenzene	M	54	ug/Kgdrywt	1	5	4.4	0.81	2.2
tert-Butylbenzene	UM	2.2	ug/Kgdrywt	1	5	4.4	0.80	2.2
m+p-Xylenes	JMM	8.4	ug/Kgdrywt	1	10	8.9	1.5	2.2
o-Xylene	MM	7.4	ug/Kgdrywt	1	5	4.4	1.2	2.2
Xylenes (Total)	MM	16	ug/Kgdrywt	1	15	13.	1.2	6.7
Naphthalene	M	29	ug/Kgdrywt	1	5	4.4	0.78	2.2
1,1-Dichloropropene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.81	2.2
1,2,3-Trichlorobenzene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.68	2.2
1,2,3-Trichloropropane	UMM	2.2	ug/Kgdrywt	1	5	4.4	1.1	2.2
2-Chlorotoluene	U	2.2	ug/Kgdrywt	1	5	4.4	0.98	2.2
2,2-Dichloropropane	UM	2.2	ug/Kgdrywt	1	5	4.4	0.44	2.2
Bromobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.66	2.2
Bromochloromethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.81	2.2
Dibromomethane	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.45	2.2
Hexachlorobutadiene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.66	2.2
n-Propylbenzene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.74	2.2
p-Isopropyltoluene	MM	52	ug/Kgdrywt	1	5	4.4	0.68	2.2
1,3-Dichloropropane	U	2.2	ug/Kgdrywt	1	5	4.4	0.84	2.2
2-Hexanone	UMM	11	ug/Kgdrywt	1	25	22.	4.3	11.
4-Chlorotoluene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.44	2.2
1,2-Dichloroethylene (Total)	JM	1.3	ug/Kgdrywt	1	10	8.9	0.63	4.4
Methylcyclohexane	EM	470	ug/Kgdrywt	1	5	4.4	0.85	2.2
Freon-113	UM	2.2	ug/Kgdrywt	1	5	4.4	0.80	2.2
1,3,5-Trichlorobenzene	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.77	2.2
Cyclohexane	M	120	ug/Kgdrywt	1	5	4.4	1.2	2.2

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3795.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Diethyl Ether	UM	2.2	ug/Kgdrywt	1	5	4.4	0.71	2.2
Di-Isopropyl Ether	UM	2.2	ug/Kgdrywt	1	5	4.4	1.9	2.2
Methyl Acetate	UMM	2.7	ug/Kgdrywt	1	5	4.4	2.4	2.7
Tetrahydrofuran	UM	22	ug/Kgdrywt	1	50	44.	4.0	22.
Vinyl Acetate	UMM	2.2	ug/Kgdrywt	1	5	4.4	0.84	2.2
p-Bromofluorobenzene	*	199.	%					
Toluene-D8	*	72.8	%					
1,2-Dichloroethane-D4		102.	%					
Dibromofluoromethane		96.8	%					

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1321.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	250	ug/Kgdrywt	1	10	500	46.	250
Chloromethane	U	250	ug/Kgdrywt	1	10	500	70.	250
Vinyl Chloride	U	250	ug/Kgdrywt	1	10	500	44.	250
Bromomethane	U	250	ug/Kgdrywt	1	10	500	55.	250
Chloroethane	UM	250	ug/Kgdrywt	1	10	500	65.	250
Trichlorofluoromethane	U	250	ug/Kgdrywt	1	10	500	46.	250
1,1-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	47.	120
Carbon Disulfide	U	120	ug/Kgdrywt	1	5	250	39.	120
Methylene Chloride	U	630	ug/Kgdrywt	1	25	1200	400	630
Acetone	UM	630	ug/Kgdrywt	1	25	1200	260	630
trans-1,2-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	36.	120
Methyl tert-butyl Ether	UMM	120	ug/Kgdrywt	1	5	250	55.	120
1,1-Dichloroethane	UM	120	ug/Kgdrywt	1	5	250	86.	120
cis-1,2-Dichloroethene	UM	120	ug/Kgdrywt	1	5	250	46.	120
Chloroform	UM	120	ug/Kgdrywt	1	5	250	18.	120
Carbon Tetrachloride	UMM	120	ug/Kgdrywt	1	5	250	65.	120
1,1,1-Trichloroethane	UM	120	ug/Kgdrywt	1	5	250	21.	120
2-Butanone	UMM	630	ug/Kgdrywt	1	25	1200	300	630
Benzene	UM	120	ug/Kgdrywt	1	5	250	46.	120
1,2-Dichloroethane	UM	120	ug/Kgdrywt	1	5	250	50.	120
Trichloroethene	UMM	120	ug/Kgdrywt	1	5	250	30.	120
1,2-Dichloropropane	UMM	120	ug/Kgdrywt	1	5	250	70.	120
Bromodichloromethane	UMM	120	ug/Kgdrywt	1	5	250	30.	120
cis-1,3-Dichloropropene	UM	120	ug/Kgdrywt	1	5	250	36.	120
Toluene	UMM	120	ug/Kgdrywt	1	5	250	70.	120
4-Methyl-2-Pentanone	UM	630	ug/Kgdrywt	1	25	1200	300	630
Tetrachloroethene	UM	120	ug/Kgdrywt	1	5	250	60.	120
trans-1,3-Dichloropropene	UM	120	ug/Kgdrywt	1	5	250	43.	120
1,1,2-Trichloroethane	UMM	120	ug/Kgdrywt	1	5	250	49.	120
Dibromochloromethane	U	120	ug/Kgdrywt	1	5	250	50.	120
1,2-Dibromoethane	UM	120	ug/Kgdrywt	1	5	250	60.	120
Chlorobenzene	UM	120	ug/Kgdrywt	1	5	250	26.	120
Ethylbenzene	J	120	ug/Kgdrywt	1	5	250	33.	120
Styrene	UMM	120	ug/Kgdrywt	1	5	250	26.	120
Bromoform	UM	120	ug/Kgdrywt	1	5	250	35.	120

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1321.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Isopropylbenzene	J	80	ug/Kgdrywt	1	5	250	46.	120
1,1,2,2-Tetrachloroethane	UMM	120	ug/Kgdrywt	1	5	250	42.	120
1,3-Dichlorobenzene	UMM	120	ug/Kgdrywt	1	5	250	31.	120
1,4-Dichlorobenzene	UMM	120	ug/Kgdrywt	1	5	250	22.	120
1,2-Dichlorobenzene	UMM	120	ug/Kgdrywt	1	5	250	39.	120
1,2-Dibromo-3-Chloropropane	UMM	120	ug/Kgdrywt	1	5	250	75.	120
1,2,4-Trichlorobenzene	UMM	120	ug/Kgdrywt	1	5	250	40.	120
1,2,4-Trimethylbenzene	UMM	120	ug/Kgdrywt	1	5	250	44.	120
1,3,5-Trimethylbenzene	U	120	ug/Kgdrywt	1	5	250	34.	120
n-Butylbenzene	JMM	110	ug/Kgdrywt	1	5	250	46.	120
sec-Butylbenzene	JM	98	ug/Kgdrywt	1	5	250	46.	120
tert-Butylbenzene	UM	120	ug/Kgdrywt	1	5	250	45.	120
m+p-Xylenes	UMM	120	ug/Kgdrywt	1	10	500	86.	120
o-Xylene	UMM	120	ug/Kgdrywt	1	5	250	65.	120
Xylenes (Total)	UMM	380	ug/Kgdrywt	1	15	750	65.	380
Naphthalene	M	300	ug/Kgdrywt	1	5	250	44.	120
1,1-Dichloropropene	UMM	120	ug/Kgdrywt	1	5	250	46.	120
1,2,3-Trichlorobenzene	UMM	120	ug/Kgdrywt	1	5	250	38.	120
1,2,3-Trichloropropane	UMM	120	ug/Kgdrywt	1	5	250	60.	120
2-Chlorotoluene	U	120	ug/Kgdrywt	1	5	250	55.	120
2,2-Dichloropropane	ULM	120	ug/Kgdrywt	1	5	250	25.	120
Bromobenzene	U	120	ug/Kgdrywt	1	5	250	37.	120
Bromochloromethane	U	120	ug/Kgdrywt	1	5	250	46.	120
Dibromomethane	UMM	120	ug/Kgdrywt	1	5	250	26.	120
Hexachlorobutadiene	UMM	120	ug/Kgdrywt	1	5	250	37.	120
n-Propylbenzene	JMM	110	ug/Kgdrywt	1	5	250	42.	120
p-Isopropyltoluene	JMM	120	ug/Kgdrywt	1	5	250	38.	120
1,3-Dichloropropane	U	120	ug/Kgdrywt	1	5	250	47.	120
2-Hexanone	UMM	630	ug/Kgdrywt	1	25	1200	240	630
4-Chlorotoluene	UMM	120	ug/Kgdrywt	1	5	250	25.	120
1,2-Dichloroethylene (Total)	UM	250	ug/Kgdrywt	1	10	500	36.	250
Methylcyclohexane	M	680	ug/Kgdrywt	1	5	250	48.	120
Freon-113	UM	120	ug/Kgdrywt	1	5	250	45.	120
1,3,5-Trichlorobenzene	UMM	120	ug/Kgdrywt	1	5	250	44.	120
Cyclohexane	JM	160	ug/Kgdrywt	1	5	250	70.	120

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1321.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 93.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Diethyl Ether	UM	120	ug/Kgdrywt	1	5	250	40.	120
Di-Isopropyl Ether	UM	120	ug/Kgdrywt	1	5	250	100	120
Methyl Acetate	UMM	150	ug/Kgdrywt	1	5	250	140	150
Tetrahydrofuran	UM	1200	ug/Kgdrywt	1	50	2500	230	1200
Vinyl Acetate	UMM	120	ug/Kgdrywt	1	5	250	47.	120
p-Bromofluorobenzene		107.	%					
Toluene-D8		102.	%					
1,2-Dichloroethane-D4		107.	%					
Dibromofluoromethane		98.8	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3796.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 92.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	4.4	ug/Kgdrywt	1	10	8.9	0.82	4.4
Chloromethane	U	4.4	ug/Kgdrywt	1	10	8.9	1.2	4.4
Vinyl Chloride	U	4.4	ug/Kgdrywt	1	10	8.9	0.77	4.4
Bromomethane	U	4.4	ug/Kgdrywt	1	10	8.9	0.98	4.4
Chloroethane	UL	4.4	ug/Kgdrywt	1	10	8.9	1.2	4.4
Trichlorofluoromethane	U	4.4	ug/Kgdrywt	1	10	8.9	0.81	4.4
1,1-Dichloroethene	U	2.2	ug/Kgdrywt	1	5	4.4	0.83	2.2
Carbon Disulfide		8.5	ug/Kgdrywt	1	5	4.4	0.69	2.2
Methylene Chloride	U	11	ug/Kgdrywt	1	25	22.	7.0	11.
Acetone		130	ug/Kgdrywt	1	25	22.	4.5	11.
trans-1,2-Dichloroethene	U	2.2	ug/Kgdrywt	1	5	4.4	0.63	2.2
Methyl tert-butyl Ether	UL	2.2	ug/Kgdrywt	1	5	4.4	0.98	2.2
1,1-Dichloroethane	U	2.2	ug/Kgdrywt	1	5	4.4	1.5	2.2
cis-1,2-Dichloroethene	U	2.2	ug/Kgdrywt	1	5	4.4	0.81	2.2
Chloroform	U	2.2	ug/Kgdrywt	1	5	4.4	0.31	2.2
Carbon Tetrachloride	U	2.2	ug/Kgdrywt	1	5	4.4	1.2	2.2
1,1,1-Trichloroethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.37	2.2
2-Butanone	U	11	ug/Kgdrywt	1	25	22.	5.2	11.
Benzene		9.5	ug/Kgdrywt	1	5	4.4	0.82	2.2
1,2-Dichloroethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.89	2.2
Trichloroethene	U	2.2	ug/Kgdrywt	1	5	4.4	0.52	2.2
1,2-Dichloropropane	U	2.2	ug/Kgdrywt	1	5	4.4	1.2	2.2
Bromodichloromethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.53	2.2
cis-1,3-Dichloropropene	U	2.2	ug/Kgdrywt	1	5	4.4	0.64	2.2
Toluene		10	ug/Kgdrywt	1	5	4.4	1.2	2.2
4-Methyl-2-Pentanone	U	11	ug/Kgdrywt	1	25	22.	5.2	11.
Tetrachloroethene	U	2.2	ug/Kgdrywt	1	5	4.4	1.1	2.2
trans-1,3-Dichloropropene	U	2.2	ug/Kgdrywt	1	5	4.4	0.76	2.2
1,1,2-Trichloroethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.86	2.2
Dibromochloromethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.89	2.2
1,2-Dibromoethane	U	2.2	ug/Kgdrywt	1	5	4.4	1.1	2.2
Chlorobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.45	2.2
Ethylbenzene		75	ug/Kgdrywt	1	5	4.4	0.58	2.2
Styrene	U	2.2	ug/Kgdrywt	1	5	4.4	0.45	2.2
Bromoform	U	2.2	ug/Kgdrywt	1	5	4.4	0.62	2.2

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3796.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 92.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Isopropylbenzene		43	ug/Kgdrywt	1	5	4.4	0.82	2.2
1,1,2,2-Tetrachloroethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.75	2.2
1,3-Dichlorobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.55	2.2
1,4-Dichlorobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.39	2.2
1,2-Dichlorobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.69	2.2
1,2-Dibromo-3-Chloropropane	U	2.2	ug/Kgdrywt	1	5	4.4	1.3	2.2
1,2,4-Trichlorobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.70	2.2
1,2,4-Trimethylbenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.77	2.2
1,3,5-Trimethylbenzene		43	ug/Kgdrywt	1	5	4.4	0.60	2.2
n-Butylbenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.82	2.2
sec-Butylbenzene		36	ug/Kgdrywt	1	5	4.4	0.81	2.2
tert-Butylbenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.80	2.2
m+p-Xylenes		23	ug/Kgdrywt	1	10	8.9	1.5	2.2
o-Xylene		20	ug/Kgdrywt	1	5	4.4	1.2	2.2
Xylenes (Total)		42	ug/Kgdrywt	1	15	13.	1.2	6.7
Naphthalene		62	ug/Kgdrywt	1	5	4.4	0.78	2.2
1,1-Dichloropropene	U	2.2	ug/Kgdrywt	1	5	4.4	0.81	2.2
1,2,3-Trichlorobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.68	2.2
1,2,3-Trichloropropane	U	2.2	ug/Kgdrywt	1	5	4.4	1.1	2.2
2-Chlorotoluene	U	2.2	ug/Kgdrywt	1	5	4.4	0.98	2.2
2,2-Dichloropropane	U	2.2	ug/Kgdrywt	1	5	4.4	0.44	2.2
Bromobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.66	2.2
Bromochloromethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.81	2.2
Dibromomethane	U	2.2	ug/Kgdrywt	1	5	4.4	0.45	2.2
Hexachlorobutadiene	U	2.2	ug/Kgdrywt	1	5	4.4	0.66	2.2
n-Propylbenzene		47	ug/Kgdrywt	1	5	4.4	0.74	2.2
p-Isopropyltoluene		60	ug/Kgdrywt	1	5	4.4	0.68	2.2
1,3-Dichloropropane	U	2.2	ug/Kgdrywt	1	5	4.4	0.84	2.2
2-Hexanone	U	11	ug/Kgdrywt	1	25	22.	4.3	11.
4-Chlorotoluene	U	2.2	ug/Kgdrywt	1	5	4.4	0.44	2.2
1,2-Dichloroethylene (Total)	U	4.4	ug/Kgdrywt	1	10	8.9	0.63	4.4
Methylcyclohexane	E	340	ug/Kgdrywt	1	5	4.4	0.85	2.2
Freon-113	U	2.2	ug/Kgdrywt	1	5	4.4	0.80	2.2
1,3,5-Trichlorobenzene	U	2.2	ug/Kgdrywt	1	5	4.4	0.77	2.2
Cyclohexane		91	ug/Kgdrywt	1	5	4.4	1.2	2.2

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3796.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 92.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Diethyl Ether	U	2.2	ug/Kgdrywt	1	5	4.4	0.71	2.2
Di-Isopropyl Ether	U	2.2	ug/Kgdrywt	1	5	4.4	1.9	2.2
Methyl Acetate	U	2.7	ug/Kgdrywt	1	5	4.4	2.4	2.7
Tetrahydrofuran	U	22	ug/Kgdrywt	1	50	44.	4.0	22.
Vinyl Acetate	U	2.2	ug/Kgdrywt	1	5	4.4	0.84	2.2
p-Bromofluorobenzene	*	190.	%					
Toluene-D8	*	61.6	%					
1,2-Dichloroethane-D4		108.	%					
Dibromofluoromethane		109.	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1322.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 92.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	250	ug/Kgdrywt	1	10	500	46.	250
Chloromethane	U	250	ug/Kgdrywt	1	10	500	69.	250
Vinyl Chloride	U	250	ug/Kgdrywt	1	10	500	43.	250
Bromomethane	U	250	ug/Kgdrywt	1	10	500	54.	250
Chloroethane	U	250	ug/Kgdrywt	1	10	500	64.	250
Trichlorofluoromethane	U	250	ug/Kgdrywt	1	10	500	45.	250
1,1-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	46.	120
Carbon Disulfide	U	120	ug/Kgdrywt	1	5	250	39.	120
Methylene Chloride	U	620	ug/Kgdrywt	1	25	1200	390	620
Acetone	U	620	ug/Kgdrywt	1	25	1200	250	620
trans-1,2-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	35.	120
Methyl tert-butyl Ether	U	120	ug/Kgdrywt	1	5	250	54.	120
1,1-Dichloroethane	U	120	ug/Kgdrywt	1	5	250	84.	120
cis-1,2-Dichloroethene	U	120	ug/Kgdrywt	1	5	250	45.	120
Chloroform	U	120	ug/Kgdrywt	1	5	250	17.	120
Carbon Tetrachloride	U	120	ug/Kgdrywt	1	5	250	64.	120
1,1,1-Trichloroethane	U	120	ug/Kgdrywt	1	5	250	21.	120
2-Butanone	U	620	ug/Kgdrywt	1	25	1200	290	620
Benzene	U	120	ug/Kgdrywt	1	5	250	46.	120
1,2-Dichloroethane	U	120	ug/Kgdrywt	1	5	250	50.	120
Trichloroethene	U	120	ug/Kgdrywt	1	5	250	29.	120
1,2-Dichloropropane	U	120	ug/Kgdrywt	1	5	250	69.	120
Bromodichloromethane	U	120	ug/Kgdrywt	1	5	250	30.	120
cis-1,3-Dichloropropene	U	120	ug/Kgdrywt	1	5	250	36.	120
Toluene	U	120	ug/Kgdrywt	1	5	250	69.	120
4-Methyl-2-Pentanone	U	620	ug/Kgdrywt	1	25	1200	290	620
Tetrachloroethene	U	120	ug/Kgdrywt	1	5	250	59.	120
trans-1,3-Dichloropropene	U	120	ug/Kgdrywt	1	5	250	43.	120
1,1,2-Trichloroethane	U	120	ug/Kgdrywt	1	5	250	48.	120
Dibromochloromethane	U	120	ug/Kgdrywt	1	5	250	50.	120
1,2-Dibromoethane	U	120	ug/Kgdrywt	1	5	250	59.	120
Chlorobenzene	U	120	ug/Kgdrywt	1	5	250	25.	120
Ethylbenzene	J	120	ug/Kgdrywt	1	5	250	32.	120
Styrene	U	120	ug/Kgdrywt	1	5	250	25.	120
Bromoform	U	120	ug/Kgdrywt	1	5	250	35.	120

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1322.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 92.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Isopropylbenzene	J	60	ug/Kgdrywt	1	5	250	46.	120
1,1,2,2-Tetrachloroethane	U	120	ug/Kgdrywt	1	5	250	42.	120
1,3-Dichlorobenzene	U	120	ug/Kgdrywt	1	5	250	31.	120
1,4-Dichlorobenzene	U	120	ug/Kgdrywt	1	5	250	22.	120
1,2-Dichlorobenzene	U	120	ug/Kgdrywt	1	5	250	39.	120
1,2-Dibromo-3-Chloropropane	U	120	ug/Kgdrywt	1	5	250	74.	120
1,2,4-Trichlorobenzene	U	120	ug/Kgdrywt	1	5	250	39.	120
1,2,4-Trimethylbenzene	U	120	ug/Kgdrywt	1	5	250	43.	120
1,3,5-Trimethylbenzene	U	120	ug/Kgdrywt	1	5	250	33.	120
n-Butylbenzene	J	81	ug/Kgdrywt	1	5	250	46.	120
sec-Butylbenzene	J	70	ug/Kgdrywt	1	5	250	45.	120
tert-Butylbenzene	U	120	ug/Kgdrywt	1	5	250	44.	120
m+p-Xylenes	U	120	ug/Kgdrywt	1	10	500	84.	120
o-Xylene	U	120	ug/Kgdrywt	1	5	250	64.	120
Xylenes (Total)	U	370	ug/Kgdrywt	1	15	740	64.	370
Naphthalene		410	ug/Kgdrywt	1	5	250	44.	120
1,1-Dichloropropene	U	120	ug/Kgdrywt	1	5	250	45.	120
1,2,3-Trichlorobenzene	U	120	ug/Kgdrywt	1	5	250	38.	120
1,2,3-Trichloropropane	U	120	ug/Kgdrywt	1	5	250	59.	120
2-Chlorotoluene	U	120	ug/Kgdrywt	1	5	250	54.	120
2,2-Dichloropropane	UL	120	ug/Kgdrywt	1	5	250	25.	120
Bromobenzene	U	120	ug/Kgdrywt	1	5	250	37.	120
Bromochloromethane	U	120	ug/Kgdrywt	1	5	250	45.	120
Dibromomethane	U	120	ug/Kgdrywt	1	5	250	25.	120
Hexachlorobutadiene	U	120	ug/Kgdrywt	1	5	250	37.	120
n-Propylbenzene	J	86	ug/Kgdrywt	1	5	250	41.	120
p-Isopropyltoluene	J	140	ug/Kgdrywt	1	5	250	38.	120
1,3-Dichloropropane	U	120	ug/Kgdrywt	1	5	250	46.	120
2-Hexanone	U	620	ug/Kgdrywt	1	25	1200	240	620
4-Chlorotoluene	U	120	ug/Kgdrywt	1	5	250	24.	120
1,2-Dichloroethylene (Total)	U	250	ug/Kgdrywt	1	10	500	35.	250
Methylcyclohexane		420	ug/Kgdrywt	1	5	250	48.	120
Freon-113	U	120	ug/Kgdrywt	1	5	250	44.	120
1,3,5-Trichlorobenzene	U	120	ug/Kgdrywt	1	5	250	43.	120
Cyclohexane	J	110	ug/Kgdrywt	1	5	250	69.	120

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1322.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 92.
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Diethyl Ether	U	120	ug/Kgdrywt	1	5	250	40.	120
Di-Isopropyl Ether	U	120	ug/Kgdrywt	1	5	250	100	120
Methyl Acetate	U	150	ug/Kgdrywt	1	5	250	130	150
Tetrahydrofuran	U	1200	ug/Kgdrywt	1	50	2500	220	1200
Vinyl Acetate	U	120	ug/Kgdrywt	1	5	250	46.	120
p-Bromofluorobenzene		106.	%					
Toluene-D8		97.4	%					
1,2-Dichloroethane-D4		101.	%					
Dibromofluoromethane		93.6	%					

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Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-3
Client ID: SITE4TS-EB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1310.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	J	3.4	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-3
Client ID: SITE4TS-EB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1310.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2-Dibromo-3-Chloropropane	U	1.0	ug/L	1	2	2.0	0.50	1.0
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
1,1-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.21	0.50
1,2,3-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,2,3-Trichloropropane	U	0.50	ug/L	1	1	1.0	0.19	0.50
1,2,4-Trimethylbenzene	U	0.50	ug/L	1	1	1.0	0.19	0.50
1,3,5-Trimethylbenzene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,3-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.22	0.50
2-Chlorotoluene	U	0.50	ug/L	1	1	1.0	0.20	0.50
2,2-Dichloropropane	UL	0.50	ug/L	1	1	1.0	0.25	0.50
Bromobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
Bromochloromethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
Dibromomethane	U	0.50	ug/L	1	1	1.0	0.46	0.50
Hexachlorobutadiene	U	0.75	ug/L	1	1	1.0	0.52	0.75
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
Naphthalene	U	0.50	ug/L	1	1	1.0	0.30	0.50
n-Butylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
n-Propylbenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
o-xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
p-Isopropyltoluene	U	0.50	ug/L	1	1	1.0	0.25	0.50
sec-Butylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
tert-Butylbenzene	U	0.50	ug/L	1	1	1.0	0.31	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
4-Chlorotoluene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Ethylbenzene	U	2.5	ug/L	1	5	5.0	0.65	2.5
Benzene	U	2.5	ug/L	1	5	5.0	0.93	2.5
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
1,3,5-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Diethyl Ether	U	0.50	ug/L	1	1	1.0	0.40	0.50

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-3
Client ID: SITE4TS-EB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1310.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164386

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Di-Isopropyl Ether	U	0.50	ug/L	1	1	1.0	0.21	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
Tetrahydrofuran	U	5.0	ug/L	1	10	10.	1.7	5.0
Vinyl Acetate	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		88.4	%					
Toluene-d8		93.0	%					
1,2-Dichloroethane-d4		101.	%					
Dibromofluoromethane		93.6	%					

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Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-4
Client ID: SITE4TS-TB-SOIL
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3794.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 100
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	5.0	ug/Kgdrywt	1	10	10.	0.92	5.0
Chloromethane	U	5.0	ug/Kgdrywt	1	10	10.	1.4	5.0
Vinyl Chloride	U	5.0	ug/Kgdrywt	1	10	10.	0.87	5.0
Bromomethane	U	5.0	ug/Kgdrywt	1	10	10.	1.1	5.0
Chloroethane	UL	5.0	ug/Kgdrywt	1	10	10.	1.3	5.0
Trichlorofluoromethane	U	5.0	ug/Kgdrywt	1	10	10.	0.91	5.0
1,1-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.93	2.5
Carbon Disulfide	U	2.5	ug/Kgdrywt	1	5	5.0	0.78	2.5
Methylene Chloride	U	12	ug/Kgdrywt	1	25	25.	7.9	12.
Acetone	J	8.0	ug/Kgdrywt	1	25	25.	5.1	12.
trans-1,2-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.71	2.5
Methyl tert-butyl Ether	UL	2.5	ug/Kgdrywt	1	5	5.0	1.1	2.5
1,1-Dichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.7	2.5
cis-1,2-Dichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
Chloroform	U	2.5	ug/Kgdrywt	1	5	5.0	0.35	2.5
Carbon Tetrachloride	U	2.5	ug/Kgdrywt	1	5	5.0	1.3	2.5
1,1,1-Trichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.42	2.5
2-Butanone	U	12	ug/Kgdrywt	1	25	25.	5.9	12.
Benzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
1,2-Dichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.0	2.5
Trichloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	0.59	2.5
1,2-Dichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
Bromodichloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.60	2.5
cis-1,3-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.72	2.5
Toluene	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5
4-Methyl-2-Pentanone	U	12	ug/Kgdrywt	1	25	25.	5.9	12.
Tetrachloroethene	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
trans-1,3-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.86	2.5
1,1,2-Trichloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.97	2.5
Dibromochloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.0	2.5
1,2-Dibromoethane	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
Chlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5
Ethylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.65	2.5
Styrene	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5
Bromoform	U	2.5	ug/Kgdrywt	1	5	5.0	0.70	2.5

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-4
Client ID: SITE4TS-TB-SOIL
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3794.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 100
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Isopropylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
1,1,2,2-Tetrachloroethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.84	2.5
1,3-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.62	2.5
1,4-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.44	2.5
1,2-Dichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.78	2.5
1,2-Dibromo-3-Chloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.5	2.5
1,2,4-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.79	2.5
1,2,4-Trimethylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.87	2.5
1,3,5-Trimethylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.67	2.5
n-Butylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.92	2.5
sec-Butylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
tert-Butylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.90	2.5
m+p-Xylenes	U	2.5	ug/Kgdrywt	1	10	10.	1.7	2.5
o-Xylene	U	2.5	ug/Kgdrywt	1	5	5.0	1.3	2.5
Xylenes (Total)	U	7.5	ug/Kgdrywt	1	15	15.	1.3	7.5
Naphthalene	U	2.5	ug/Kgdrywt	1	5	5.0	0.88	2.5
1,1-Dichloropropene	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
1,2,3-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.76	2.5
1,2,3-Trichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	1.2	2.5
2-Chlorotoluene	U	2.5	ug/Kgdrywt	1	5	5.0	1.1	2.5
2,2-Dichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	0.50	2.5
Bromobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.74	2.5
Bromochloromethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.91	2.5
Dibromomethane	U	2.5	ug/Kgdrywt	1	5	5.0	0.51	2.5
Hexachlorobutadiene	U	2.5	ug/Kgdrywt	1	5	5.0	0.74	2.5
n-Propylbenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.83	2.5
p-Isopropyltoluene	U	2.5	ug/Kgdrywt	1	5	5.0	0.76	2.5
1,3-Dichloropropane	U	2.5	ug/Kgdrywt	1	5	5.0	0.94	2.5
2-Hexanone	U	12	ug/Kgdrywt	1	25	25.	4.8	12.
4-Chlorotoluene	U	2.5	ug/Kgdrywt	1	5	5.0	0.49	2.5
1,2-Dichloroethylene (Total)	U	5.0	ug/Kgdrywt	1	10	10.	0.71	5.0
Methylcyclohexane	U	2.5	ug/Kgdrywt	1	5	5.0	0.96	2.5
Freon-113	U	2.5	ug/Kgdrywt	1	5	5.0	0.90	2.5
1,3,5-Trichlorobenzene	U	2.5	ug/Kgdrywt	1	5	5.0	0.87	2.5
Cyclohexane	U	2.5	ug/Kgdrywt	1	5	5.0	1.4	2.5

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Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-4
Client ID: SITE4TS-TB-SOIL
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: T3794.D

Sample Date: 04-JUN-15
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Extract Date: 08-JUN-15
Extracted By: EME
Extraction Method: SW846 5035
Lab Prep Batch: WG164407

Analysis Date: 08-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: SL
% Solids: 100
Report Date: 22-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Diethyl Ether	U	2.5	ug/Kgdrywt	1	5	5.0	0.80	2.5
Di-Isopropyl Ether	U	2.5	ug/Kgdrywt	1	5	5.0	2.1	2.5
Methyl Acetate	U	3.0	ug/Kgdrywt	1	5	5.0	2.7	3.0
Tetrahydrofuran	U	25	ug/Kgdrywt	1	50	50.	4.5	25.
Vinyl Acetate	U	2.5	ug/Kgdrywt	1	5	5.0	0.94	2.5
p-Bromofluorobenzene		110.	%					
Toluene-D8		113.	%					
1,2-Dichloroethane-D4		105.	%					
Dibromofluoromethane		110.	%					

600 Technology Way
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Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-P
Lab File IDs : P1230.D P1229.D P1228.D P1227.D P1232.D P1231.D **Column ID:**
Calibration Date(s): 03-JUN-15 13:58 03-JUN-15 16:06

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.49456	0.46945	0.47211	0.51933	0.46090	0.47901	AVG		0.48256		4.40416	15.00000	O
Chloromethane	1.00267	1.15843	0.93704	1.00406	0.96327	0.99899	AVG		1.01074		7.63113	15.00000	O
Vinyl chloride	0.70198	0.80649	0.71663	0.78993	0.75099	0.75163	AVG		0.75294		5.36433	15.00000	O
Bromomethane	0.25759	0.38409	0.32108	0.33701	0.33809	0.31304	AVG		0.32515		12.68718	15.00000	O
Chloroethane	0.46165	0.55601	0.46918	0.45732	0.25733	0.21737	AVG		0.40314		33.25292	15.00000	W(
Trichlorofluoromethane	0.93732	0.87681	0.87022	0.93119	0.88919	0.93150	AVG		0.90604		3.37702	15.00000	O
Diethyl Ether	0.55899	0.61478	0.60671	0.63140	0.60952	0.61808	AVG		0.60658		4.09792	15.00000	O
1,1-Dichloroethene	0.45423	0.52112	0.45766	0.48596	0.50290	0.50355	AVG		0.48757		5.52240	15.00000	O
Carbon Disulfide	1.53930	1.87224	1.66144	1.70493	1.67218	1.59921	AVG		1.67488		6.76288	15.00000	O
Freon-113	0.29259	0.32391	0.30804	0.32382	0.30703	0.30404	AVG		0.30991		3.91514	15.00000	O
Methylene Chloride	0.75122	0.73499	0.63268	0.64684	0.64423	0.62867	AVG		0.67310		8.15462	15.00000	O
Acetone	0.27486	0.25881	0.25405	0.27146	0.26947	0.26841	AVG		0.26618		3.00735	15.00000	O
trans-1,2-Dichloroethene	0.63291	0.69818	0.56780	0.58876	0.57400	0.56601	AVG		0.60461		8.62250	15.00000	O
Methyl tert-butyl ether	1.63715	1.80875	1.81333	1.88626	1.83149	1.64460	AVG		1.77026		5.87307	15.00000	O
Di-isopropyl ether	1.98356	2.31496	2.17693	2.19840	2.13479	2.02903	AVG		2.13961		5.61628	15.00000	O
1,1-Dichloroethane	1.11936	1.30007	1.09252	1.09614	1.08254	1.06154	AVG		1.12536		7.78723	15.00000	O
Vinyl Acetate	0.69964	0.77677	0.84009	0.88367	0.94076	0.88205	AVG		0.83716		10.34184	15.00000	O
cis-1,2-Dichloroethene	0.63454	0.73515	0.62530	0.62474	0.62410	0.62630	AVG		0.64502		6.87094	15.00000	O
1,2-Dichloroethylene (total	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
2,2-Dichloropropane	0.51518	0.64493	0.58956	0.62684	0.63580	0.63892	AVG		0.60854		8.18350	15.00000	O
Bromochloromethane	0.25400	0.27373	0.26712	0.25428	0.23607	0.23658	AVG		0.25363		6.07222	15.00000	O
Chloroform	1.08205	1.20806	1.02844	1.04186	1.00712	0.98066	AVG		1.05803		7.65535	15.00000	O
Carbon Tetrachloride	0.32990	0.38728	0.34642	0.36476	0.35889	0.34901	AVG		0.35604		5.45385	15.00000	O
Tetrahydrofuran	0.25875	0.25497	0.25657	0.24786	0.25937	0.25120	AVG		0.25479		1.76230	15.00000	O
1,1,1-Trichloroethane	0.81055	0.98916	0.85952	0.88676	0.87117	0.83619	AVG		0.87556		7.05595	15.00000	O
1,1-Dichloropropene	0.43380	0.49789	0.42181	0.41273	0.41074	0.37931	AVG		0.42605		9.29156	15.00000	O
2-Butanone	0.38061	0.39025	0.38634	0.36551	0.38555	0.36357	AVG		0.37864		3.00025	15.00000	O
Benzene	1.39086	1.54805	1.28724	1.27939	1.25659	1.12731	AVG		1.31491		10.79520	15.00000	O
Cyclohexane	1.05911	1.10100	1.02269	1.07391	1.04020	0.99187	AVG		1.04813		3.68428	15.00000	O
1,2-Dichloroethane	0.50109	0.47523	0.43787	0.45450	0.42136	0.40132	AVG		0.44856		8.09449	15.00000	O
Trichloroethene	0.32179	0.36363	0.30206	0.29657	0.29378	0.27882	AVG		0.30944		9.68671	15.00000	O
Dibromomethane	0.18722	0.19282	0.18797	0.19560	0.19316	0.18778	AVG		0.19076		1.85544	15.00000	O
1,2-Dichloropropane	0.29670	0.36269	0.31625	0.31185	0.31852	0.30524	AVG		0.31854		7.23131	15.00000	O
Bromodichloromethane	0.40561	0.46761	0.42641	0.43794	0.43849	0.42520	AVG		0.43354		4.73313	15.00000	O
cis-1,3-dichloropropene	0.46142	0.51200	0.49403	0.52528	0.53349	0.51994	AVG		0.50769		5.18925	15.00000	O
Toluene	0.86976	0.98685	0.81332	0.82865	0.82188	0.74971	AVG		0.84503		9.41071	15.00000	O
4-methyl-2-pentanone	0.38336	0.41407	0.42515	0.40056	0.39161	0.31908	AVG		0.38897		9.61620	15.00000	O

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sales@katahdinlab.com

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-P
Lab File IDs : P1230.D P1229.D P1228.D **Column ID:**
P1227.D P1232.D P1231.D **Calibration Date(s):** 03-JUN-15 13:58
03-JUN-15 16:06

Tetrachloroethene	0.28079	0.31912	0.26203	0.25825	0.25685	0.24349	AVG		0.27009		9.94358	15.00000	O
trans-1,3-Dichloropropene	0.36759	0.42842	0.43595	0.45123	0.45329	0.44368	AVG		0.43003		7.43599	15.00000	O
1,1,2-Trichloroethane	0.27034	0.24943	0.25235	0.25083	0.25087	0.24355	AVG		0.25289		3.59096	15.00000	O
Dibromochloromethane	0.33359	0.35857	0.35520	0.36569	0.35838	0.34861	AVG		0.35334		3.15446	15.00000	O
1,3-Dichloropropane	0.64124	0.65935	0.62907	0.62968	0.61157	0.57712	AVG		0.62467		4.50236	15.00000	O
1,2-Dibromoethane	0.27547	0.30100	0.29850	0.30327	0.31078	0.30717	AVG		0.29937		4.17415	15.00000	O
2-Hexanone	0.29669	0.32562	0.34378	0.32477	0.33069	0.28117	AVG		0.31712		7.37531	15.00000	O
Chlorobenzene	1.03224	1.07469	0.91585	0.90784	0.87163	0.80483	AVG		0.93451		10.81068	15.00000	O
Ethylbenzene	0.56064	0.64679	0.53803	0.53419	0.52385	0.48746	AVG		0.54849		9.80319	15.00000	O
Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+0	15.00000	M
m+p-Xylenes	0.64863	0.78222	0.65299	0.64409	0.59952	0.50393	AVG		0.63856		14.11637	15.00000	O
o-Xylene	0.59464	0.70537	0.61017	0.60688	0.60385	0.55783	AVG		0.61312		8.00464	15.00000	O
Styrene	1.01510	1.23218	1.11781	1.13867	1.10441	0.95532	AVG		1.09392		8.88391	15.00000	O
Bromoform	0.18585	0.20565	0.22493	0.23086	0.23746	0.24845	AVG		0.22220		10.26258	15.00000	O
Isopropylbenzene	3.04677	3.55484	3.00867	2.96749	2.76001	2.32076	AVG		2.94309		13.68175	15.00000	O
Bromobenzene	0.72783	0.75342	0.71048	0.72975	0.71200	0.71400	AVG		0.72458		2.25749	15.00000	O
N-Propylbenzene	3.70290	4.38164	3.67403	3.52032	3.18466	+++++	AVG		3.69271		11.82669	15.00000	O
1,1,2,2-Tetrachloroethane	0.96774	1.00415	0.97496	0.96278	0.97122	0.96624	AVG		0.97452		1.55038	15.00000	O
1,3,5-Trimethylbenzene	2.74667	3.43116	2.85952	2.82456	2.60011	2.11282	AVG		2.76247		15.43539	15.00000	W
2-Chlorotoluene	2.23518	2.59692	2.20169	2.19335	2.05785	1.80705	AVG		2.18201		11.80054	15.00000	O
1,2,3-Trichloropropane	0.76567	0.81594	0.78001	0.76820	0.76058	0.74786	AVG		0.77304		3.03677	15.00000	O
4-Chlorotoluene	2.25766	2.67886	2.30368	2.24788	2.08449	1.79152	AVG		2.22735		13.03354	15.00000	O
tert-Butylbenzene	2.30893	2.91196	2.54327	2.54649	2.41078	2.15432	AVG		2.47929		10.44232	15.00000	O
1,2,4-Trimethylbenzene	2.72556	3.47076	2.93994	2.88428	2.63464	+++++	AVG		2.93104		11.10315	15.00000	O
P-Isopropyltoluene	2.71322	3.34097	2.83585	2.77465	2.56555	2.06196	AVG		2.71537		15.26267	15.00000	W
1,3-Dichlorobenzene	1.45662	1.57672	1.40932	1.41451	1.35544	1.24621	AVG		1.40980		7.75686	15.00000	O
1,4-Dichlorobenzene	1.69832	1.78994	1.55898	1.56697	1.49823	1.33251	AVG		1.57416		10.10118	15.00000	O
N-Butylbenzene	2.76354	3.47005	2.87897	2.81493	2.53149	+++++	AVG		2.89180		12.06266	15.00000	O
sec-Butylbenzene	3.26256	3.88520	3.23235	3.19042	2.90564	+++++	AVG		3.29523		10.89804	15.00000	O
1,2-Dichlorobenzene	1.47856	1.51132	1.36308	1.40917	1.36929	1.24337	AVG		1.39580		6.82526	15.00000	O
1,2-Dibromo-3-Chloropropane	0.20166	0.23650	0.22673	0.23530	0.25255	0.24675	AVG		0.23325		7.69254	15.00000	O
1,3,5-Trichlorobenzene	0.99941	1.24986	1.08272	1.07875	1.03460	0.95607	AVG		1.06690		9.53517	15.00000	O
Hexachlorobutadiene	0.29036	0.33289	0.30252	0.31329	0.30416	0.28703	AVG		0.30504		5.46687	15.00000	O
1,2,4-Trichlorobenzene	1.12033	1.19168	1.07169	1.09574	1.05622	0.96210	AVG		1.08296		7.01179	15.00000	O
Naphthalene	3.51974	3.92464	3.98076	3.78653	3.45057	2.64064	AVG		3.55048		13.91022	15.00000	O
1,2,3-Trichlorobenzene	1.11018	1.12245	1.04478	1.06922	1.02520	0.93171	AVG		1.05059		6.57735	15.00000	O
Methyl Acetate	0.68564	0.68956	0.63700	0.65473	0.70772	0.67520	AVG		0.67497		3.77794	15.00000	O
Methylcyclohexane	0.97139	0.98986	0.96607	0.98832	0.96872	0.90829	AVG		0.96544		3.08406	15.00000	O
Dibromofluoromethane	0.52619	0.58336	0.51437	0.51023	0.49732	0.49257	AVG		0.52067		6.33760	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-P
Lab File IDs : P1230.D P1229.D P1228.D **Column ID:**
P1227.D P1232.D P1231.D **Calibration Date(s):** 03-JUN-15 13:58
03-JUN-15 16:06

1,2-Dichloroethane-D4	0.74752	0.77493	0.72349	0.72115	0.65921	0.63171	AVG		0.70967		7.62435	15.00000	
Toluene-D8	1.12097	1.37677	1.12876	1.10365	1.06869	0.97226	AVG		1.12852		11.90843	15.00000	
P-Bromofluorobenzene	0.46732	0.50453	0.44161	0.44517	0.44676	0.43500	AVG		0.45673		5.65042	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-p.i\P060315.b\P1233A.D
Report Date: 09-Jun-2015 12:46

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG164075-7
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-p.i\P060315.b\P826A07.m
Misc Info: WG164075,WG164075-4

Client SDG: WG164075
Fraction: VOA
Client Smp ID: Independent Source
Operator: JSS
SampleType: INDSOURCE
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	91.2	182.52*	80-120
	2 Chloromethane	50.0	56.1	112.23	80-120
	3 Vinyl chloride	50.0	56.2	112.33	80-120
	4 Bromomethane	50.0	64.8	129.51*	80-120
	5 Chloroethane	50.0	59.5	119.04	80-120
	6 Trichlorofluoromet	50.0	53.2	106.42	80-120
	7 Diethyl Ether	50.0	47.7	95.45	80-120
	8 Tertiary-butyl alc	250	239	95.46	80-120
	9 1,1-Dichloroethene	50.0	56.6	113.22	80-120
	10 Carbon Disulfide	50.0	60.7	121.47*	80-120
	11 Freon-113	50.0	45.6	91.30	80-120
	12 Iodomethane	50.0	69.0	138.10*	80-120
	13 Acrolein	250	262	104.76	80-120
	14 Methylene Chloride	50.0	48.8	97.70	80-120
	15 Acetone	50.0	55.0	110.03	80-120
	16 Isobutyl Alcohol	1000	971	97.12	80-120
	17 trans-1,2-Dichloro	50.0	50.1	100.23	80-120
	18 Allyl Chloride	50.0	52.6	105.17	80-120
	19 Methyl tert-butyl	100	107	107.26	80-120
	20 Acetonitrile	500	498	99.71	80-120
	21 Di-isopropyl ether	50.0	49.0	98.01	80-120
	22 Chloroprene	50.0	47.1	94.25	80-120
	23 Propionitrile	500	504	100.78	80-120
	24 Methacrylonitrile	500	515	102.94	80-120
	25 1,1-Dichloroethane	50.0	51.0	102.07	80-120
	26 Acrylonitrile	250	260	103.91	80-120
	27 Ethyl tertiary-but	50.0	50.9	101.77	80-120
	28 Vinyl Acetate	50.0	57.9	115.76	80-120
	29 cis-1,2-Dichloroet	50.0	49.2	98.33	80-120
M	30 1,2-Dichloroethyle	100	99.3	99.28	80-120
	31 Methyl Methacrylat	50.0	53.2	106.37	80-120
	32 2,2-Dichloropropan	50.0	63.3	126.67*	80-120
	33 Bromochloromethane	50.0	49.3	98.59	80-120
	34 Chloroform	50.0	50.1	100.22	80-120
	35 Carbon Tetrachlori	50.0	50.5	101.06	80-120
	36 Tetrahydrofuran	50.0	53.4	106.86	80-120
	38 1,1,1-Trichloroeth	50.0	50.5	101.00	80-120
	39 1,1-Dichloropropen	50.0	53.2	106.33	80-120
	40 2-Butanone	50.0	55.8	111.57	80-120
	41 Benzene	50.0	49.8	99.60	80-120

Data File: \\target_server\gg\chem\gcms-p.i\P060315.b\P1233A.D
Report Date: 09-Jun-2015 12:46

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	48.5	96.97	80-120
	44	Ethyl Methacrylate	50.0	51.7	103.45	80-120
	46	Tertiary-amyl meth	50.0	51.7	103.34	80-120
	47	1,2-Dichloroethane	50.0	50.8	101.56	80-120
	48	Trichloroethene	50.0	50.4	100.85	80-120
	50	Dibromomethane	50.0	50.9	101.80	80-120
	51	1,2-Dichloropropan	50.0	53.1	106.18	80-120
	52	Bromodichlorometha	50.0	51.8	103.62	80-120
	53	cis-1,3-dichloropr	50.0	53.3	106.69	80-120
	54	1,4-Dioxane	1000	1080	108.54	80-120
	56	2-Chloroethylvinyl	50.0	68.4	136.84*	80-120
	57	Toluene	50.0	49.0	98.08	80-120
	58	4-methyl-2-pentano	50.0	58.6	117.21	80-120
	59	Tetrachloroethene	50.0	48.9	97.83	80-120
	60	trans-1,3-Dichloro	50.0	56.7	113.49	80-120
	61	1,1,2-Trichloroeth	50.0	51.6	103.16	80-120
	62	Dibromochlorometha	50.0	53.0	105.98	80-120
	63	1,3-Dichloropropan	50.0	52.9	105.82	80-120
	64	1,2-Dibromoethane	50.0	52.8	105.67	80-120
	65	2-Hexanone	50.0	59.5	119.04	80-120
	67	Chlorobenzene	50.0	53.1	106.21	80-120
	152	1-Chlorohexane	50.0	50.3	100.63	80-120
	68	Ethylbenzene	50.0	49.6	99.31	80-120
	69	1,1,1,2-Tetrachlor	50.0	51.6	103.20	80-120
M	70	Xylenes (total)	150	159	105.92	80-120
	71	m+p-Xylenes	100	105	104.66	80-120
	72	o-Xylene	50.0	54.2	108.43	80-120
	73	Styrene	50.0	53.3	106.60	80-120
	74	Bromoform	50.0	52.2	104.35	80-120
	75	Isopropylbenzene	50.0	55.1	110.19	80-120
	77	cis-1,4-Dichloro-2	50.0	54.7	109.38	80-120
	78	trans-1,4-Dichloro	50.0	56.1	112.21	80-120
	79	Bromobenzene	50.0	52.0	104.08	80-120
	80	N-Propylbenzene	50.0	53.2	106.42	80-120
	81	1,1,2,2-Tetrachlor	50.0	53.3	106.59	80-120
	82	1,3,5-Trimethylben	50.0	51.0	102.03	80-120
	83	2-Chlorotoluene	50.0	54.9	109.85	80-120
	84	1,2,3-Trichloropro	50.0	54.8	109.63	80-120
	85	4-Chlorotoluene	50.0	55.9	111.76	80-120
	86	tert-Butylbenzene	50.0	54.9	109.76	80-120
	87	Pentachloroethane	50.0	45.5	90.96	80-120
	88	1,2,4-Trimethylben	50.0	49.9	99.84	80-120
	89	P-Isopropyltoluene	50.0	56.6	113.31	80-120
	90	1,3-Dichlorobenzen	50.0	55.5	110.97	80-120
	92	1,4-Dichlorobenzen	50.0	49.8	99.62	80-120
	93	N-Butylbenzene	50.0	50.8	101.60	80-120
	94	sec-Butylbenzene	50.0	53.0	106.10	80-120
	95	1,2-Dichlorobenzen	50.0	54.1	108.27	80-120
	96	1,2-Dibromo-3-Chlo	50.0	58.6	117.21	80-120
	97	1,3,5-Trichloroben	50.0	49.7	99.47	80-120
	98	Hexachlorobutadien	50.0	53.8	107.66	80-120
	99	1,2,4-Trichloroben	50.0	52.1	104.15	80-120
	100	1,2,3-Trimethylben	50.0	47.3	94.62	80-120
	101	Naphthalene	50.0	56.1	112.14	80-120

Data File: \\target_server\gg\chem\gcms-p.i\P060315.b\P1233A.D
Report Date: 09-Jun-2015 12:46

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	52.2	104.33	80-120
103 Methyl Acetate	50.0	50.8	101.51	80-120
104 Methylcyclohexane	50.0	48.3	96.61	80-120
M 153 Total Alkylbenzene	350	370	105.58	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	49.5	99.02	68-128
$ 45 1,2-Dichloroethane	50.0	48.8	97.51	67-135
$ 55 Toluene-D8	50.0	49.2	98.35	65-128
$ 76 P-Bromofluorobenze	50.0	48.2	96.38	56-133

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-T
Lab File IDs : T3786.D T3785.D T3784.D T3783.D T3788.D T3787.D **Column ID:**
Calibration Date(s): 08-JUN-15 10:43 08-JUN-15 13:56

	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.68191	0.70406	0.71707	0.66452	0.57203	0.61389	AVG		0.65891		8.46542	15.00000	O
Chloromethane	1.14150	0.95764	1.11344	0.96632	0.86395	0.97996	AVG		1.00380		10.4145(	15.00000	O
Vinyl chloride	0.87016	0.91169	0.93668	0.86119	0.72036	0.80087	AVG		0.85016		9.27265	15.00000	O
Bromomethane	20278	36844	68310	132339	354477	686038	LNR	-0.01163	0.47424		0.99782	0.99000	O
Chloroethane	0.27507	0.29418	0.27799	0.28815	0.25198	0.27124	AVG		0.27643		5.31980	15.00000	O
Trichlorofluoromethane	1.08564	0.98831	0.88517	0.77523	0.52421	0.62234	AVG		0.81348		26.4481(	15.00000	W(
Diethyl Ether	0.68975	0.71913	0.73070	0.69109	0.59120	0.64975	AVG		0.67860		7.54565	15.00000	O
1,1-Dichloroethene	0.67952	0.71142	0.71405	0.66954	0.61612	0.68628	AVG		0.67949		5.25499	15.00000	O
Carbon Disulfide	1.82577	2.06470	2.05997	1.97582	1.76409	1.87593	AVG		1.92771		6.49664	15.00000	O
Freon-113	0.41785	0.46153	0.46275	0.41103	0.39855	0.41708	AVG		0.42813		6.36179	15.00000	O
Methylene Chloride	1.05191	1.01703	0.94435	0.89868	0.79405	0.85729	AVG		0.92722		10.4945(	15.00000	O
Acetone	0.25089	0.22796	0.24546	0.25133	0.17429	0.18860	AVG		0.22309		15.0877	15.00000	W(
trans-1,2-Dichloroethene	0.79069	0.76717	0.79007	0.73634	0.67544	0.74249	AVG		0.75037		5.76563	15.00000	O
Methyl tert-butyl ether	34111	71099	191544	556953	1429781	2919233	LNR	0.20833	1.03727		0.99846	0.99000	O
Di-isopropyl ether	1.67782	1.82590	2.14543	2.31408	2.06128	2.33126	AVG		2.05930		12.7797	15.00000	O
1,1-Dichloroethane	1.41190	1.43068	1.46567	1.39394	1.25190	1.36414	AVG		1.38637		5.35286	15.00000	O
Vinyl Acetate	15349	37372	120024	363257	693696	1551362	LNR	0.07440	0.63508		0.99475	0.99000	O
cis-1,2-Dichloroethene	0.90664	0.95814	0.96056	0.91937	0.85411	0.92105	AVG		0.91998		4.24384	15.00000	O
1,2-Dichloroethylene (total	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
2,2-Dichloropropane	0.63134	0.80240	0.83941	0.85614	0.77891	0.90536	AVG		0.80226		11.7819	15.00000	O
Bromochloromethane	0.36287	0.39387	0.39763	0.36954	0.33525	0.36739	AVG		0.37109		6.13527	15.00000	O
Chloroform	1.36179	1.40669	1.41505	1.35226	1.20282	1.30988	AVG		1.34141		5.81454	15.00000	O
Carbon Tetrachloride	0.49286	0.53862	0.51681	0.47505	0.47526	0.50966	AVG		0.50138		4.99951	15.00000	O
Tetrahydrofuran	0.21071	0.22371	0.27707	0.28737	0.21246	0.23127	AVG		0.24043		13.8879	15.00000	O
1,1,1-Trichloroethane	0.99421	1.06578	1.12493	1.08691	1.00259	1.09088	AVG		1.06088		4.90636	15.00000	O
1,1-Dichloropropene	0.55537	0.58332	0.63091	0.59592	0.58849	0.60719	AVG		0.59353		4.24598	15.00000	O
2-Butanone	43004	90126	237144	633289	1185335	2395737	LNR	-0.12622	0.33266		0.99330	0.99000	O
Benzene	1.78468	1.81657	1.85115	1.76565	1.72087	1.73907	AVG		1.77966		2.72952	15.00000	O
Cyclohexane	1.04403	1.08170	1.18266	1.16964	1.01743	1.10858	AVG		1.10067		6.03197	15.00000	O
1,2-Dichloroethane	0.59520	0.62818	0.61612	0.54748	0.50152	0.54526	AVG		0.57229		8.53290	15.00000	O
Trichloroethene	0.42325	0.44415	0.45029	0.42966	0.43522	0.45775	AVG		0.44005		2.96065	15.00000	O
Dibromomethane	0.27950	0.29135	0.28945	0.26664	0.25722	0.27305	AVG		0.27620		4.79624	15.00000	O
1,2-Dichloropropane	0.44162	0.47039	0.47319	0.45841	0.44103	0.47719	AVG		0.46030		3.47223	15.00000	O
Bromodichloromethane	0.52669	0.59877	0.59395	0.56463	0.54231	0.59248	AVG		0.56981		5.30997	15.00000	O
cis-1,3-dichloropropene	0.55006	0.60199	0.66928	0.66521	0.66561	0.72798	AVG		0.64669		9.57089	15.00000	O
Toluene	1.13717	1.17322	1.11159	1.05080	1.05770	1.09486	AVG		1.10422		4.24895	15.00000	O
4-methyl-2-pentanone	0.37819	0.41899	0.45834	0.45011	0.37713	0.36888	AVG		0.40861		9.66543	15.00000	O

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sales@katahdinlab.com

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-T
Lab File IDs : T3786.D T3785.D T3784.D T3783.D T3788.D T3787.D **Column ID:**
Calibration Date(s): 08-JUN-15 10:43 08-JUN-15 13:56

Tetrachloroethene	0.34716	0.37169	0.35542	0.33398	0.37398	0.38638	AVG		0.36144		5.36263	15.00000	O
trans-1,3-Dichloropropene	0.44946	0.49894	0.54080	0.54460	0.54002	0.60097	AVG		0.52913		9.60455	15.00000	O
1,1,2-Trichloroethane	0.32756	0.34270	0.35798	0.34547	0.33390	0.35522	AVG		0.34380		3.43456	15.00000	O
Dibromochloromethane	0.39333	0.40481	0.44110	0.43894	0.47118	0.48844	AVG		0.43963		8.34926	15.00000	O
1,3-Dichloropropane	0.66111	0.70904	0.77918	0.73830	0.75618	0.76641	AVG		0.73504		5.94014	15.00000	O
1,2-Dibromoethane	0.35013	0.39850	0.40036	0.38400	0.37890	0.40623	AVG		0.38635		5.31935	15.00000	O
2-Hexanone	0.29239	0.31165	0.36057	0.33676	0.29538	0.27964	AVG		0.31273		9.78019	15.00000	O
Chlorobenzene	1.34955	1.37283	1.34817	1.21670	1.25400	1.24363	AVG		1.29748		5.14422	15.00000	O
Ethylbenzene	0.70825	0.70502	0.71964	0.64982	0.68771	0.70128	AVG		0.69529		3.53260	15.00000	O
Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.81166	0.91157	0.88527	0.79988	0.80494	0.77547	AVG		0.83147		6.48579	15.00000	O
o-Xylene	0.76596	0.83774	0.85836	0.78502	0.80752	0.82802	AVG		0.81377		4.22729	15.00000	O
Styrene	1.37640	1.46596	1.46747	1.34183	1.36284	1.33692	AVG		1.39190		4.28802	15.00000	O
Bromoform	0.25435	0.28551	0.30633	0.30305	0.32289	0.34348	AVG		0.30260		10.1498	15.00000	O
Isopropylbenzene	3.40253	3.63954	3.64873	3.07955	3.35324	3.15821	AVG		3.38030		7.00394	15.00000	O
Bromobenzene	0.99539	1.02002	1.00576	0.85323	0.99420	1.00751	AVG		0.97935		6.38122	15.00000	O
N-Propylbenzene	4.35911	4.45921	4.54107	3.75371	3.93812	3.55839	AVG		4.10160		9.93442	15.00000	O
1,1,2,2-Tetrachloroethane	1.06852	1.03794	1.15871	0.97410	1.04203	1.03572	AVG		1.05284		5.74375	15.00000	O
1,3,5-Trimethylbenzene	3.40253	3.63954	3.64873	3.07955	3.35324	3.15821	AVG		3.38030		7.00394	15.00000	O
2-Chlorotoluene	2.65712	2.68976	2.76691	2.26361	2.45855	2.37829	AVG		2.53571		7.82200	15.00000	O
1,2,3-Trichloropropane	0.81242	0.83507	0.87027	0.76083	0.79859	0.79991	AVG		0.81285		4.55951	15.00000	O
4-Chlorotoluene	2.83047	2.89035	2.91564	2.42669	2.60447	2.48723	AVG		2.69247		7.93994	15.00000	O
tert-Butylbenzene	2.93241	3.11909	3.27150	2.75340	3.09751	3.00000	AVG		3.02899		5.86398	15.00000	O
1,2,4-Trimethylbenzene	2.99195	3.09590	3.29040	2.74344	3.02108	2.88393	AVG		3.00445		6.19498	15.00000	O
P-Isopropyltoluene	3.51743	3.50904	3.65863	3.05241	3.32482	3.08659	AVG		3.35815		7.37586	15.00000	O
1,3-Dichlorobenzene	1.93151	1.91615	1.96057	1.62319	1.83142	1.80439	AVG		1.84454		6.72495	15.00000	O
1,4-Dichlorobenzene	2.10239	2.04934	2.05686	1.68072	1.86969	1.82602	AVG		1.93084		8.56173	15.00000	O
N-Butylbenzene	3.36004	3.50926	3.63523	2.95225	3.14246	2.88693	AVG		3.24769		9.33673	15.00000	O
sec-Butylbenzene	3.97621	4.20013	4.28212	3.52155	3.80353	3.44760	AVG		3.87186		8.90468	15.00000	O
1,2-Dichlorobenzene	1.93313	1.88975	1.90648	1.59748	1.79501	1.74536	AVG		1.81120		7.00081	15.00000	O
1,2-Dibromo-3-Chloropropane	0.19126	0.20329	0.21641	0.18583	0.19838	0.20576	AVG		0.20016		5.44041	15.00000	O
1,3,5-Trichlorobenzene	1.58531	1.52669	1.51893	1.40551	1.31055	1.40400	AVG		1.45850		6.99548	15.00000	O
Hexachlorobutadiene	0.70116	0.70378	0.69842	0.58101	0.70200	0.69939	AVG		0.68096		7.19581	15.00000	O
1,2,4-Trichlorobenzene	1.32466	1.35469	1.45841	1.17590	1.37744	1.36424	AVG		1.34256		6.93541	15.00000	O
Naphthalene	2.88070	2.88698	3.43971	2.69723	3.06862	2.70237	AVG		2.94593		9.45329	15.00000	O
1,2,3-Trichlorobenzene	1.25246	1.26197	1.36317	1.09263	1.30284	1.26901	AVG		1.25701		7.16699	15.00000	O
Methyl Acetate	0.55812	0.59054	0.62104	0.65924	0.43556	0.48914	AVG		0.55894		14.9709	15.00000	O
Methylcyclohexane	1.00310	1.15878	1.21180	1.24558	1.15417	1.26070	AVG		1.17235		7.99111	15.00000	O
Dibromofluoromethane	0.80648	0.76363	0.71627	0.76090	0.63716	0.64630	AVG		0.72179		9.46637	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-T
Lab File IDs : T3786.D T3785.D T3784.D **Column ID:**
T3783.D T3788.D T3787.D **Calibration Date(s):** 08-JUN-15 10:43
08-JUN-15 13:56

1,2-Dichloroethane-D4	0.95852	0.89856	0.80641	0.87355	0.65806	0.70652	AVG		0.81694		14.21791	15.00000	
Toluene-D8	1.76151	1.70778	1.50723	1.47475	1.38192	1.34308	AVG		1.52938		11.15922	15.00000	
P-Bromofluorobenzene	0.77274	0.74326	0.62765	0.62079	0.53461	0.54612	AVG		0.64086		15.40345	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-t.i\T060815.b\T3790A.D
Report Date: 22-Jun-2015 11:08

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: WG164407-7
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-t.i\T060815.b\T826SB31.m
Misc Info: WG164407,WG164407-4

Client SDG: WG164407
Fraction: VOA
Client Smp ID: Independent Source
Operator: EME
SampleType: INDSOURCE
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	51.0	101.93	80-120
	2 Chloromethane	50.0	41.8	83.61	80-120
	3 Vinyl chloride	50.0	48.2	96.49	80-120
	4 Bromomethane	50.0	57.2	114.41	80-120
	5 Chloroethane	50.0	83.6	167.27*	80-120
	6 Trichlorofluoromet	50.0	64.1	128.19*	80-120
	7 Diethyl Ether	50.0	44.7	89.49	80-120
	8 Tertiary-butyl alc	250	226	90.56	80-120
	9 1,1-Dichloroethene	50.0	52.8	105.70	80-120
	10 Carbon Disulfide	50.0	64.0	127.91*	80-120
	11 Freon-113	50.0	52.9	105.81	80-120
	12 Iodomethane	50.0	57.2	114.40	80-120
	13 Acrolein	250	254	101.59	80-120
	14 Methylene Chloride	50.0	46.0	91.99	80-120
	15 Acetone	50.0	45.6	91.20	80-120
	16 Isobutyl Alcohol	1000	837	83.74	80-120
	17 trans-1,2-Dichloro	50.0	54.4	108.75	80-120
	18 Allyl Chloride	50.0	45.9	91.76	80-120
	19 Methyl tert-butyl	100	74.8	74.82*	80-120
	20 Acetonitrile	500	475	94.99	80-120
	21 Di-isopropyl ether	50.0	47.0	94.07	80-120
	22 Chloroprene	50.0	49.9	99.80	80-120
	23 Propionitrile	500	425	84.95	80-120
	24 Methacrylonitrile	500	438	87.67	80-120
	25 1,1-Dichloroethane	50.0	50.9	101.81	80-120
	26 Acrylonitrile	250	214	85.55	80-120
	27 Ethyl tertiary-but	50.0	24.6	49.13*	80-120
	28 Vinyl Acetate	50.0	54.9	109.86	80-120
	29 cis-1,2-Dichloroet	50.0	47.2	94.33	80-120
M	30 1,2-Dichloroethyle	100	102	101.54	80-120
	31 Methyl Methacrylat	50.0	46.9	93.77	80-120
	32 2,2-Dichloropropan	50.0	52.0	103.97	80-120
	33 Bromochloromethane	50.0	53.6	107.13	80-120
	34 Chloroform	50.0	49.6	99.19	80-120
	35 Carbon Tetrachlori	50.0	53.1	106.24	80-120
	36 Tetrahydrofuran	50.0	42.4	84.80	80-120
	38 1,1,1-Trichloroeth	50.0	51.4	102.80	80-120
	39 1,1-Dichloropropen	50.0	54.1	108.27	80-120
	40 2-Butanone	50.0	36.9	73.75*	80-120
	41 Benzene	50.0	51.8	103.61	80-120

Data File: \\target_server\gg\chem\gcms-t.i\T060815.b\T3790A.D
Report Date: 22-Jun-2015 11:08

	SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
	43 Cyclohexane	50.0	48.4	96.80	80-120
	44 Ethyl Methacrylate	50.0	49.9	99.73	80-120
	46 Tertiary-amyl meth	50.0	22.6	45.27*	80-120
	47 1,2-Dichloroethane	50.0	46.5	92.98	80-120
	48 Trichloroethene	50.0	54.0	107.97	80-120
	50 Dibromomethane	50.0	49.0	97.94	80-120
	51 1,2-Dichloropropan	50.0	50.6	101.17	80-120
	52 Bromodichlorometha	50.0	51.9	103.79	80-120
	53 cis-1,3-dichloropr	50.0	51.8	103.70	80-120
	54 1,4-Dioxane	1000	976	97.57	80-120
	56 2-Chloroethylviny	50.0	0.00	*	80-120
	57 Toluene	50.0	51.3	102.61	80-120
	58 4-methyl-2-pentano	50.0	44.5	88.95	80-120
	59 Tetrachloroethene	50.0	57.3	114.66	80-120
	60 trans-1,3-Dichloro	50.0	53.6	107.11	80-120
	61 1,1,2-Trichloroeth	50.0	48.7	97.35	80-120
	62 Dibromochlorometha	50.0	55.8	111.59	80-120
	63 1,3-Dichloropropan	50.0	49.2	98.40	80-120
	64 1,2-Dibromoethane	50.0	48.4	96.73	80-120
	65 2-Hexanone	50.0	45.0	89.92	80-120
	67 Chlorobenzene	50.0	53.2	106.42	80-120
	152 1-Chlorohexane	50.0	49.2	98.30	80-120
	68 Ethylbenzene	50.0	53.8	107.51	80-120
	69 1,1,1,2-Tetrachlor	50.0	55.2	110.40	80-120
M	70 Xylenes (total)	150	167	111.22	80-120
	71 m+p-Xylenes	100	111	111.35	80-120
	72 o-Xylene	50.0	55.5	110.95	80-120
	73 Styrene	50.0	53.6	107.23	80-120
	74 Bromoform	50.0	55.3	110.57	80-120
	75 Isopropylbenzene	50.0	57.3	114.54	80-120
	77 cis-1,4-Dichloro-2	50.0	42.9	85.85	80-120
	78 trans-1,4-Dichloro	50.0	46.4	92.81	80-120
	79 Bromobenzene	50.0	55.8	111.70	80-120
	80 N-Propylbenzene	50.0	57.1	114.24	80-120
	81 1,1,2,2-Tetrachlor	50.0	49.7	99.39	80-120
	82 1,3,5-Trimethylben	50.0	57.3	114.54	80-120
	83 2-Chlorotoluene	50.0	55.4	110.88	80-120
	84 1,2,3-Trichloropro	50.0	50.0	99.95	80-120
	85 4-Chlorotoluene	50.0	54.7	109.41	80-120
	86 tert-Butylbenzene	50.0	56.6	113.23	80-120
	87 Pentachloroethane	50.0	51.5	102.93	80-120
	88 1,2,4-Trimethylben	50.0	54.7	109.40	80-120
	89 P-Isopropyltoluene	50.0	57.0	114.01	80-120
	90 1,3-Dichlorobenzen	50.0	55.9	111.73	80-120
	92 1,4-Dichlorobenzen	50.0	54.1	108.12	80-120
	93 N-Butylbenzene	50.0	54.9	109.72	80-120
	94 sec-Butylbenzene	50.0	56.9	113.76	80-120
	95 1,2-Dichlorobenzen	50.0	54.1	108.23	80-120
	96 1,2-Dibromo-3-Chlo	50.0	49.8	99.59	80-120
	97 1,3,5-Trichloroben	50.0	49.7	99.37	80-120
	98 Hexachlorobutadien	50.0	54.9	109.79	80-120
	99 1,2,4-Trichloroben	50.0	55.4	110.72	80-120
	100 1,2,3-Trimethylben	50.0	52.2	104.37	80-120
	101 Naphthalene	50.0	58.8	117.68	80-120

Data File: \\target_server\gg\chem\gcms-t.i\T060815.b\T3790A.D
Report Date: 22-Jun-2015 11:08

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	54.2	108.43	80-120
103 Methyl Acetate	50.0	43.5	86.97	80-120
104 Methylcyclohexane	50.0	51.8	103.51	80-120
M 153 Total Alkylbenzene	350	394	112.70	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/kg	AMOUNT RECOVERED ug/kg	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	46.8	93.66	64-130
$ 45 1,2-Dichloroethane	50.0	42.9	85.83	58-134
$ 55 Toluene-D8	50.0	48.4	96.80	67-118
$ 76 P-Bromofluorobenze	50.0	46.1	92.28	47-119

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164386-4
Analytical Date: 06/08/15 10:51
Lab File ID : P1304.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/03/15 13:58 06/03/15 16:06
Column ID:

	Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1	Dichlorodifluoromethane	0.48256	0.66007	0.66007	0.010	36.78440	20.00000	Averaged	*
2	Chloromethane	1.01074	0.88727	0.88727	0.100	-12.21583	20.00000	Averaged	
3	Vinyl chloride	0.75294	0.74000	0.74000	0.010	-1.71824	20.00000	Averaged	
4	Bromomethane	0.32515	0.30375	0.30375	0.010	-6.58123	20.00000	Averaged	
5	Chloroethane	0.40314	0.47118	0.47118	0.010	16.87681	20.00000	Averaged	
6	Trichlorofluoromethane	0.90604	0.91545	0.91545	0.010	1.03871	20.00000	Averaged	
7	Diethyl Ether	0.60658	0.65480	0.65480	0.010	7.94869	20.00000	Averaged	
9	1,1-Dichloroethene	0.48757	0.53519	0.53519	0.100	9.76624	20.00000	Averaged	
10	Carbon Disulfide	1.67488	1.60650	1.60650	0.010	-4.08279	20.00000	Averaged	
11	Freon-113	0.30991	0.28975	0.28975	0.010	-6.50306	20.00000	Averaged	
14	Methylene Chloride	0.67310	0.68390	0.68390	0.010	1.60416	20.00000	Averaged	
15	Acetone	0.26618	0.28208	0.28208	0.010	5.97507	20.00000	Averaged	
17	trans-1,2-Dichloroethene	0.60461	0.57917	0.57917	0.010	-4.20744	20.00000	Averaged	
19	Methyl tert-butyl ether	1.77026	1.92574	1.92574	0.010	8.78248	20.00000	Averaged	
21	Di-isopropyl ether	2.13961	2.20231	2.20231	0.010	2.93010	20.00000	Averaged	
25	1,1-Dichloroethane	1.12536	1.11293	1.11293	0.100	-1.10471	20.00000	Averaged	
28	Vinyl Acetate	0.83716	0.85720	0.85720	0.010	2.39316	20.00000	Averaged	
29	cis-1,2-Dichloroethene	0.64502	0.68583	0.68583	0.010	6.32692	20.00000	Averaged	
30	1,2-Dichloroethylene (total	++++	1.26500	1.26500	0.010	++++	20.00000	Averaged	*
32	2,2-Dichloropropane	0.60854	0.81237	0.81237	0.010	33.49611	20.00000	Averaged	*
33	Bromochloromethane	0.25363	0.26010	0.26010	0.010	2.55157	20.00000	Averaged	
34	Chloroform	1.05803	1.10743	1.10743	0.010	4.66922	20.00000	Averaged	
35	Carbon Tetrachloride	0.35604	0.37821	0.37821	0.010	6.22578	20.00000	Averaged	
36	Tetrahydrofuran	0.25479	0.23000	0.23000	0.010	-9.72820	20.00000	Averaged	
38	1,1,1-Trichloroethane	0.87556	0.95150	0.95150	0.010	8.67285	20.00000	Averaged	
39	1,1-Dichloropropene	0.42605	0.43971	0.43971	0.010	3.20736	20.00000	Averaged	
40	2-Butanone	0.37864	0.37730	0.37730	0.010	-0.35263	20.00000	Averaged	
41	Benzene	1.31491	1.31027	1.31027	0.010	-0.35249	20.00000	Averaged	
43	Cyclohexane	1.04813	0.92012	0.92012	0.010	-12.21302	20.00000	Averaged	
47	1,2-Dichloroethane	0.44856	0.48986	0.48986	0.010	9.20677	20.00000	Averaged	
48	Trichloroethene	0.30944	0.30938	0.30938	0.010	-0.01786	20.00000	Averaged	
50	Dibromomethane	0.19076	0.20324	0.20324	0.010	6.54520	20.00000	Averaged	
51	1,2-Dichloropropane	0.31854	0.32496	0.32496	0.010	2.01601	20.00000	Averaged	
52	Bromodichloromethane	0.43354	0.46671	0.46671	0.010	7.64978	20.00000	Averaged	
53	cis-1,3-dichloropropene	0.50769	0.54276	0.54276	0.010	6.90761	20.00000	Averaged	
57	Toluene	0.84503	0.83286	0.83286	0.010	-1.43992	20.00000	Averaged	
58	4-methyl-2-pentanone	0.38897	0.39394	0.39394	0.010	1.27804	20.00000	Averaged	
59	Tetrachloroethene	0.27009	0.24469	0.24469	0.010	-9.40138	20.00000	Averaged	
60	trans-1,3-Dichloropropene	0.43003	0.47251	0.47251	0.010	9.87810	20.00000	Averaged	
61	1,1,2-Trichloroethane	0.25289	0.25964	0.25964	0.010	2.66629	20.00000	Averaged	
62	Dibromochloromethane	0.35334	0.35923	0.35923	0.010	1.66656	20.00000	Averaged	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164386-4
Analytical Date: 06/08/15 10:51
Lab File ID : P1304.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/03/15 13:58 06/03/15 16:06
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
63 1,3-Dichloropropane	0.62467	0.63619	0.63619	0.010	1.84300	20.00000	Averaged	
64 1,2-Dibromoethane	0.29937	0.31532	0.31532	0.010	5.32939	20.00000	Averaged	
65 2-Hexanone	0.31712	0.30823	0.30823	0.010	-2.80393	20.00000	Averaged	
67 Chlorobenzene	0.93451	0.94271	0.94271	0.300	0.87732	20.00000	Averaged	
68 Ethylbenzene	0.54849	0.51442	0.51442	0.010	-6.21323	20.00000	Averaged	
70 Xylenes (total)	++++	0.64166	0.64166	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.63856	0.64095	0.64095	0.010	0.37363	20.00000	Averaged	
72 o-Xylene	0.61312	0.64307	0.64307	0.010	4.88441	20.00000	Averaged	
73 Styrene	1.09392	1.10992	1.10992	0.010	1.46268	20.00000	Averaged	
74 Bromoform	0.22220	0.22169	0.22169	0.100	-0.22891	20.00000	Averaged	
75 Isopropylbenzene	2.94309	3.01881	3.01881	0.010	2.57271	20.00000	Averaged	
79 Bromobenzene	0.72458	0.71596	0.71596	0.010	-1.18990	20.00000	Averaged	
80 N-Propylbenzene	3.69271	3.63682	3.63682	0.010	-1.51346	20.00000	Averaged	
81 1,1,2,2-Tetrachloroethane	0.97452	0.91602	0.91602	0.300	-6.00227	20.00000	Averaged	
82 1,3,5-Trimethylbenzene	2.76247	2.74548	2.74548	0.010	-0.61512	20.00000	Averaged	
83 2-Chlorotoluene	2.18201	2.24150	2.24150	0.010	2.72638	20.00000	Averaged	
84 1,2,3-Trichloropropane	0.77304	0.74229	0.74229	0.010	-3.97819	20.00000	Averaged	
85 4-Chlorotoluene	2.22735	2.38192	2.38192	0.010	6.93955	20.00000	Averaged	
86 tert-Butylbenzene	2.47929	2.57986	2.57986	0.010	4.05655	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	2.93104	2.77478	2.77478	0.010	-5.33116	20.00000	Averaged	
89 P-Isopropyltoluene	2.71537	2.89972	2.89972	0.010	6.78948	20.00000	Averaged	
90 1,3-Dichlorobenzene	1.40980	1.46615	1.46615	0.010	3.99691	20.00000	Averaged	
92 1,4-Dichlorobenzene	1.57416	1.51289	1.51289	0.010	-3.89238	20.00000	Averaged	
93 N-Butylbenzene	2.89180	2.75924	2.75924	0.010	-4.58377	20.00000	Averaged	
94 sec-Butylbenzene	3.29523	3.22269	3.22269	0.010	-2.20144	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.39580	1.46047	1.46047	0.010	4.63332	20.00000	Averaged	
96 1,2-Dibromo-3-Chloropropane	0.23325	0.23355	0.23355	0.010	0.12746	20.00000	Averaged	
97 1,3,5-Trichlorobenzene	1.06690	1.10502	1.10502	0.010	3.57324	20.00000	Averaged	
98 Hexachlorobutadiene	0.30504	0.31182	0.31182	0.010	2.22069	20.00000	Averaged	
99 1,2,4-Trichlorobenzene	1.08296	1.08795	1.08795	0.010	0.46114	20.00000	Averaged	
101 Naphthalene	3.55048	3.29173	3.29173	0.010	-7.28766	20.00000	Averaged	
102 1,2,3-Trichlorobenzene	1.05059	1.04809	1.04809	0.010	-0.23782	20.00000	Averaged	
103 Methyl Acetate	0.67497	0.65630	0.65630	0.010	-2.76679	20.00000	Averaged	
104 Methylcyclohexane	0.96544	0.91099	0.91099	0.010	-5.63949	20.00000	Averaged	
37 Dibromofluoromethane	0.52067	0.52422	0.52422	0.010	0.68045	20.00000	Averaged	
45 1,2-Dichloroethane-D4	0.70967	0.73485	0.73485	0.010	3.54885	20.00000	Averaged	
55 Toluene-D8	1.12852	1.09831	1.09831	0.010	-2.67640	20.00000	Averaged	
76 P-Bromofluorobenzene	0.45673	0.44388	0.44388	0.010	-2.81396	20.00000	Averaged	

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Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab ID : WG164386-4
Lab File ID : P1304.D
Initial Calibration Date(s): 06/03/15 13:58 06/03/15 16:06

SDG: SI3862
Analytical Date: 06/08/15 10:51
Instrument ID: GCMS-P
Column ID:

*** = Compound out of QC criteria**

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06-03-15 / 13:35

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -10	PB283	1	-1	VOABFBAQ							Y	EME		
VSTD050P03A	P1227	1	1	P626A07							Y			W6164075-4
020	28	1	2								Y			-3
005	29	1	3								Y			-2
001	30	1	4								Y			-1
200	31	1	5								Y			-6
100	32	1	6								Y			-5
LCSA W6164075-8	33	1	7								Y			IND -7
VBLKA	34	1	8								N			
VBLKB	35	1	9								N			
VBLKC -9	36	1	10								Y			
SI 3552-5RA B	37	1	11		X				X		Y		<2	
-1RA B	38	1	12								Y		<2	
-2RA B	39	1	13								Y		<2	
-3RA B	40	1	14								Y		<2	
-4RA B	41	1	15								Y		<2	
-6DL B	42	10	16								Y		<2	4mL → 40mL
-7DL B	43	10	17								Y		<2	↓
-8RA B	44	1	18								Y		<2	
-6RA B	45	1	19								Y		<2	
-7RA B	46	1	20								Y		<2	22:14
Rinse	47	1	21								N		Z	
Rinse	48	1	22								N			
Rinse	49	1	23								N		Z	
Rinse	50	1	24								N			

06/04/15 BEC

STANDARD	CODE
BFB	V9879
CAL. STD.	V9869, V9870
LCS/MS MIX	V9867
EXTRAS MIX	V9868

STANDARD	CODE
IS MIX	V9873
SS MIX	V9874

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06-08-15 / 10:27

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	P3286	1	-1	VOABFBAQ							Y	EME		
VSTD050P08A -4	P1304	1	1	P826A07							Y			
LCSA W6164386-1	05	1	2								Y			
VBLKA	06	1	3								N			
VBLKB	07	1	4								N			
VBLKC -2	08	1	5								Y			
MeOH BLK -5	09	1	6								Y			800uL→40mL
SI3862-3 A	10	1	7		X				X		Y		<2	
SI3607-3RA B	11	1	8								Y		<2	
↓ -5RA C	12	1	9								Y		<2	
SI3552-9RA A	13	1	10								Y		<2	
SI3861-9 A	14	1	11								Y		<2	
SI3512-6RA B	15	1	12								Y		<2	
↓ -7RA B	16	1	13								Y		<2	Decanted
SI3693-1RA C	17	1	14								Y		<2	
SI3607-6RA A	18	1	15								Y		<2	
SI3552-11RAD2 A	19	10	16								Y		<2	4mL→40mL
↓ -12RA A	20	1	17								Y		<2	
SI3862-1D2 A	21	1	18			X					Y		Z	800uL→40mL
↓ -2D2 A	22	1	19			↓					Y			↓
SI3861-~~8~~10 A (Color is Red)	23	1	20		X						Y		<2	
↓ -~~3~~11 A	24	1	21		↓						Y		<2	
↓ -~~4~~12 A	25	1	22		↓				↓		Y		<2	Decanted 20:37
Rinse	26	1	23								N		Z	
Rinse	27	1	24								N		Z	
Rinse x 2	28-29	1	25								N		Z	

STANDARD	CODE
BFB	V9874
CAL. STD.	V9882, V9883
LCS/MS MIX	V9880
EXTRAS MIX	V9884

STANDARD	CODE
IS MIX	V9873
SS MIX	V9885

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM	EPA 624
(heated purge)	EPA 524

QAMS546

GCMS-T INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 06-08-15/10:08

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB ⑩	T3908	1	-1	VOABFB3							Y	EME		
VSTD050TOB A ④	T3783	1	1	T826SB31							Y			
020 ③	84	1	2								Y			
010 ②	85	1	3								Y			Curve
005 ①	86	1	4								Y			Okay
200 ⑥	87	1	5								Y			
100 ⑤	88	1	6								Y			
LCS A	89	1	7								N			surr. were not added
B [WG64407] ⑧	90	1	8								Y			IND⑦
VBLK A	91	1	9								N			
B	92	1	10								N			
C ⑨	93	1	11								Y			
SI3862-4 B	94	1	12			X			X		Y			
-1 D	95	1	13								Y			1SSL 1SSF 1DSL
-2 B	96	1	14								Y			1SSL 1SSF 2DSL
-2RA C	97	1	15								Y			1SSL 1SSF 1DSL
-1MS E ⑪	98	1	16								Y			1SSL 1SSF 1DSL
-1MSD F ⑫	99	1	17								Y			1SSL 4SSL 21:20
Rinse	T3800	1	18								N			
Rinse	01	1	19								N			
Rinse	02	1	20								N			
Rinse	03	1	21								N			

06/09/15 BEC

STANDARD	CODE
BFB	V9879
CAL. STD.	V9882, V9883
LCS/MS MIX	V9880
EXTRAS MIX	V9884

STANDARD	CODE
IS MIX	~~V9851~~ EME 060815 V9873
SS MIX	V9874

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

Organics Vial Prep Log

Methods: SW8260 SW8015 ME DEP 4.2.17 MA DEP VPH

Date	Analyst	Vial Number	Vial + Preservative (g)	Vial + Preservative + Sample (g)	Sample Weight (g)	Preservative	Preservative Volume (mL)	Sample Name	Comments
5.26.15	DEW	88700	40.99			DI / MEOH / NaHSO4	5 / 10		
		88701	40.85			DI / MEOH / NaHSO4	5 / 10		
		88702	40.54	59.30	18.76	DI / MEOH / NaHSO4	5 / 10	SI3635-3A	
		88703	41.14			DI / MEOH / NaHSO4	5 / 10		
		88704	40.95	58.21	17.26	DI / MEOH / NaHSO4	5 / 10	SI3635-4A	
		88705	40.91			DI / MEOH / NaHSO4	5 / 10		
		88706	40.90			DI / MEOH / NaHSO4	5 / 10		
		88707	40.58			DI / MEOH / NaHSO4	5 / 10		
		88708	41.28	41.40	0.12	DI / MEOH / NaHSO4	5 / 10	SI3635-5A	TB
		88709	41.03			DI / MEOH / NaHSO4	5 / 10		
5.28.15	GN	88710	32.71	38.53	5.82	DI / MEOH / NaHSO4	5 / 10	SI3862-1 A	
		88711	33.05			DI / MEOH / NaHSO4	5 / 10		
		88712	33.04			DI / MEOH / NaHSO4	5 / 10		
		88713	33.23	39.28	6.05	DI / MEOH / NaHSO4	5 / 10	SI3862-2 A	
		88714	32.65			DI / MEOH / NaHSO4	5 / 10		
		88715	32.39			DI / MEOH / NaHSO4	5 / 10		
		88716	32.31			DI / MEOH / NaHSO4	5 / 10		
		88717	33.19			DI / MEOH / NaHSO4	5 / 10		
		88718	35.35	41.39	6.04	DI / MEOH / NaHSO4	5 / 10	SI3862-1 E	
		88719	35.16	41.21	6.05	DI / MEOH / NaHSO4	5 / 10	SI3862-1 D	

40 mL Vial Lot # 121514-3AVF
MeOH Lot #: DM027
NaSO4 Lot #: BCBH6622V

DI Preservative = Deionized Water +Stirbar
NaHSO4 Preservative = 20% NaSO4 Solution + stirbar

KATAHDIN ANALYTICAL SERVICES

Organics Vial Prep Log

Methods: SW8260 SW8015 ME DEP 4.2.17 MA DEP VPH

Date	Analyst	Vial Number	Vial + Preservative (g)	Vial + Preservative + Sample (g)	Sample Weight (g)	Preservative	Preservative Volume (mL)	Sample Name	Comments
52815	DEW	88720	35.23	41.26	6.03	DI / MEOH / NaHSO4	5 / 10	SI 3862-1 F	
		88721	35.17			DI / MEOH / NaHSO4	5 / 10		
		88722	35.04			DI / MEOH / NaHSO4	5 / 10		
		88723	34.84			DI / MEOH / NaHSO4	5 / 10		
		88724	34.97			DI / MEOH / NaHSO4	5 / 10		
		88725	34.91			DI / MEOH / NaHSO4	5 / 10		
		88726	35.14			DI / MEOH / NaHSO4	5 / 10		
		88727	35.01	41.21	6.20	DI / MEOH / NaHSO4	5 / 10	SI 3862-2 C	
		88728	35.16	41.27	6.11	DI / MEOH / NaHSO4	5 / 10	SI 3862-2 B	
		88729	35.18			DI / MEOH / NaHSO4	5 / 10		
		88730	34.48			DI / MEOH / NaHSO4	5 / 10		
		88731	35.09			DI / MEOH / NaHSO4	5 / 10		
		88732	34.71			DI / MEOH / NaHSO4	5 / 10		
		88733	34.56			DI / MEOH / NaHSO4	5 / 10		
		88734	34.71			DI / MEOH / NaHSO4	5 / 10		
		88735	35.12			DI / MEOH / NaHSO4	5 / 10		
		88736	34.89			DI / MEOH / NaHSO4	5 / 10		
		88737	34.81			DI / MEOH / NaHSO4	5 / 10		
		88738	35.15			DI / MEOH / NaHSO4	5 / 10		
		88739	35.24	35.41	0.17	DI / MEOH / NaHSO4	5 / 10	SI 3862-4 B	TB

40 mL Vial Lot #: 121514-3AV F
MeOH Lot #:
NaSO4 Lot #: BCB H66622V

DI Preservative = Deionized Water +Stirbar
NaHSO4 Preservative = 20% NaSO4 Solution + stirbar

SPLP VOLATILE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
SITE4TS-FB	SI3862-6DL		104.		100.		113.		109.	
SITE4TS-XX	SI3862-7DL		111.		107.		119.		115.	
Laboratory Control S	WG164966-1		111.		112.		116.		117.	
Method Blank Sample	WG164966-2		111.		108.		117.		115.	
SPLP Blank	WG164966-7		106.		102.		114.		112.	
Laboratory Control S	WG165024-1		110.		113.		118.		117.	
Method Blank Sample	WG165024-2		103.		103.		114.		107.	
Matrix Spike	WG165024-6		114.		112.		102.		118.	
Matrix Spike Duplica	WG165024-7		118.		116.	*	120.		120.	

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : P1459.D
Instrument ID : GCMS-P
Heated Purge : No

SDG : SI3862
Lab Sample ID : WG164966-2
Date Analyzed : 17-JUN-15
Time Analyzed : 13:09

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164966-1	P1456.D	06/17/15	11:34
SPLP Blank	WG164966-7	P1462.D	06/17/15	14:28
SITE4TS-FB	SI3862-6DL	P1470.D	06/17/15	17:56
SITE4TS-XX	SI3862-7DL	P1471.D	06/17/15	18:25

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : P1484.D
Instrument ID : GCMS-P
Heated Purge : No

SDG : SI3862
Lab Sample ID : WG165024-2
Date Analyzed : 18-JUN-15
Time Analyzed : 11:10

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG165024-1	P1481.D	06/18/15	09:35
Matrix Spike	WG165024-6	P1496.D	06/18/15	16:30
Matrix Spike Duplica	WG165024-7	P1497.D	06/18/15	16:56

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164966-2
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: P1459.D

Sample Date:
Received Date:
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164966-2
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: P1459.D

Sample Date:
Received Date:
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
Bromochloromethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
1,2,3-Trichloropropane	U	0.50	ug/L	1	1	1.0	0.19	0.50
1,2-dibromo-3-chloropropane	U	0.50	ug/L	1	1	1.0	0.50	0.50
P-Bromofluorobenzene		111.	%					
Toluene-d8		115.	%					
1,2-Dichloroethane-d4		117.	%					
Dibromofluoromethane		108.	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164966-7
Client ID: SPLP Blank
Project:
SDG: SI3862
Lab File ID: P1462.D

Sample Date:
Received Date:
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	5.0	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	5.0	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	5.0	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	5.0	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	5.0	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	5.0	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.8	2.5
Carbon Disulfide	U	2.5	ug/L	5	1	5.0	1.2	2.5
Freon-113	U	2.5	ug/L	5	1	5.0	1.6	2.5
Methylene Chloride	U	12.	ug/L	5	5	25.	5.6	12.
Acetone	U	12.	ug/L	5	5	25.	11.	12.
trans-1,2-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	2.5	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.0	2.5
Chloroform	U	2.5	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	12.	ug/L	5	5	25.	6.6	12.
Cyclohexane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	2.5	ug/L	5	1	5.0	1.1	2.5
Benzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
Trichloroethene	U	2.5	ug/L	5	1	5.0	1.4	2.5
1,2-Dichloropropane	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	2.5	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	0.95	2.5
Toluene	U	2.5	ug/L	5	1	5.0	1.4	2.5
4-Methyl-2-Pentanone	U	12.	ug/L	5	5	25.	6.6	12.
trans-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	2.5	ug/L	5	1	5.0	2.0	2.5
Dibromochloromethane	U	2.5	ug/L	5	1	5.0	1.5	2.5
2-Hexanone	U	12.	ug/L	5	5	25.	8.5	12.
Chlorobenzene	U	2.5	ug/L	5	1	5.0	1.1	2.5

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164966-7
Client ID: SPLP Blank
Project:
SDG: SI3862
Lab File ID: P1462.D

Sample Date:
Received Date:
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	2.5	ug/L	5	1	5.0	1.0	2.5
1,2-Dibromoethane	U	2.5	ug/L	5	1	5.0	1.1	2.5
M+P-Xylenes	U	5.0	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Xylenes (Total)	U	7.5	ug/L	5	3	15.	1.2	7.5
Styrene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	2.5	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	2.5	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	0.75	2.5
1,2,4-Trichlorobenzene	U	2.5	ug/L	5	1	5.0	1.8	2.5
Methyl Acetate	U	3.8	ug/L	5	1	5.0	2.6	3.8
Methylcyclohexane	U	2.5	ug/L	5	1	5.0	1.5	2.5
Bromochloromethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
1,2,3-Trichloropropane	U	2.5	ug/L	5	1	5.0	0.95	2.5
1,2-dibromo-3-chloropropane	U	2.5	ug/L	5	1	5.0	2.5	2.5
P-Bromofluorobenzene		106.	%					
Toluene-d8		112.	%					
1,2-Dichloroethane-d4		114.	%					
Dibromofluoromethane		102.	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165024-2
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: P1484.D

Sample Date:
Received Date:
Extract Date: 18-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165024

Analysis Date: 18-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	J	1.6	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165024-2
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: P1484.D

Sample Date:
Received Date:
Extract Date: 18-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165024

Analysis Date: 18-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
Bromochloromethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
1,2,3-Trichloropropane	U	0.50	ug/L	1	1	1.0	0.19	0.50
1,2-dibromo-3-chloropropane	U	0.50	ug/L	1	1	1.0	0.50	0.50
P-Bromofluorobenzene		103.	%					
Toluene-d8		107.	%					
1,2-Dichloroethane-d4		114.	%					
Dibromofluoromethane		103.	%					

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164966-1
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: P1456.D

Sample Date:
Received Date:
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	* 159.	50.0	79.6	ug/L	30-155
Chloromethane	* 131.	50.0	65.5	ug/L	40-125
Vinyl Chloride	124.	50.0	62.1	ug/L	50-145
Bromomethane	120.	50.0	60.2	ug/L	30-145
Chloroethane	129.	50.0	64.3	ug/L	60-135
Trichlorofluoromethane	131.	50.0	65.4	ug/L	60-145
1,1-Dichloroethene	108.	50.0	54.0	ug/L	70-130
Carbon Disulfide	114.	50.0	57.2	ug/L	35-160
Freon-113	105.	50.0	52.6	ug/L	73-126
Methylene Chloride	96.8	50.0	48.4	ug/L	55-140
Acetone	94.0	50.0	47.0	ug/L	40-140
trans-1,2-Dichloroethene	111.	50.0	55.6	ug/L	60-140
Methyl tert-butyl Ether	109.	100.	109.	ug/L	65-125
1,1-Dichloroethane	109.	50.0	54.7	ug/L	70-135
cis-1,2-Dichloroethene	94.0	50.0	47.0	ug/L	70-125
Chloroform	106.	50.0	52.8	ug/L	65-135
1,1,1-Trichloroethane	109.	50.0	54.7	ug/L	65-130
2-Butanone	98.0	50.0	49.0	ug/L	30-150
Cyclohexane	102.	50.0	51.0	ug/L	71-133
Carbon Tetrachloride	108.	50.0	54.1	ug/L	65-140
Benzene	103.	50.0	51.7	ug/L	80-120
1,2-Dichloroethane	104.	50.0	52.1	ug/L	70-130
Trichloroethene	98.2	50.0	49.1	ug/L	70-125
1,2-Dichloropropane	99.8	50.0	49.9	ug/L	75-125
Bromodichloromethane	107.	50.0	53.3	ug/L	75-120
cis-1,3-Dichloropropene	107.	50.0	53.4	ug/L	70-130
Toluene	101.	50.0	50.3	ug/L	75-120
4-Methyl-2-Pentanone	104.	50.0	51.8	ug/L	60-135
trans-1,3-Dichloropropene	113.	50.0	56.6	ug/L	55-140
1,1,2-Trichloroethane	101.	50.0	50.7	ug/L	75-125
Tetrachloroethene	101.	50.0	50.4	ug/L	45-150
Dibromochloromethane	104.	50.0	51.9	ug/L	60-135
2-Hexanone	99.4	50.0	49.7	ug/L	55-130
Chlorobenzene	102.	50.0	51.1	ug/L	80-120
Ethylbenzene	99.6	50.0	49.8	ug/L	75-125

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164966-1
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: P1456.D

Sample Date:
Received Date:
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	101.	50.0	50.4	ug/L	80-120
M+P-Xylenes	105.	100.	105.	ug/L	75-130
o-Xylene	105.	50.0	52.7	ug/L	80-120
Xylenes (Total)	105.	150.	158.	ug/L	89-116
Styrene	107.	50.0	53.7	ug/L	65-135
Bromoform	106.	50.0	52.9	ug/L	70-130
Isopropylbenzene	109.	50.0	54.6	ug/L	75-125
1,1,2,2-Tetrachloroethane	98.2	50.0	49.1	ug/L	65-130
1,3-Dichlorobenzene	104.	50.0	51.8	ug/L	75-125
1,4-Dichlorobenzene	102.	50.0	51.2	ug/L	75-125
1,2-Dichlorobenzene	102.	50.0	51.2	ug/L	70-120
1,2,4-Trichlorobenzene	105.	50.0	52.7	ug/L	65-135
Methyl Acetate	82.8	50.0	41.4	ug/L	70-132
Methylcyclohexane	102.	50.0	51.2	ug/L	73-125
Bromochloromethane	103.	50.0	51.6	ug/L	65-130
1,2,3-Trichloropropane	97.2	50.0	48.6	ug/L	75-125
1,2-dibromo-3-chloropropane	106.	50.0	53.2	ug/L	50-130
P-Bromofluorobenzene	111.				75-120
Toluene-d8	117.				85-120
1,2-Dichloroethane-d4	116.				70-120
Dibromofluoromethane	112.				85-115

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165024-1
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: P1481.D

Sample Date:
Received Date:
Extract Date: 18-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165024

Analysis Date: 18-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	* 161.	50.0	80.3	ug/L	30-155
Chloromethane	* 134.	50.0	67.2	ug/L	40-125
Vinyl Chloride	122.	50.0	61.0	ug/L	50-145
Bromomethane	122.	50.0	61.2	ug/L	30-145
Chloroethane	127.	50.0	63.7	ug/L	60-135
Trichlorofluoromethane	138.	50.0	69.1	ug/L	60-145
1,1-Dichloroethene	110.	50.0	55.0	ug/L	70-130
Carbon Disulfide	116.	50.0	58.1	ug/L	35-160
Freon-113	104.	50.0	52.2	ug/L	73-126
Methylene Chloride	99.8	50.0	49.9	ug/L	55-140
Acetone	118.	50.0	59.0	ug/L	40-140
trans-1,2-Dichloroethene	117.	50.0	58.7	ug/L	60-140
Methyl tert-butyl Ether	117.	100.	117.	ug/L	65-125
1,1-Dichloroethane	116.	50.0	57.8	ug/L	70-135
cis-1,2-Dichloroethene	97.8	50.0	48.9	ug/L	70-125
Chloroform	112.	50.0	56.0	ug/L	65-135
1,1,1-Trichloroethane	116.	50.0	58.2	ug/L	65-130
2-Butanone	110.	50.0	55.2	ug/L	30-150
Cyclohexane	107.	50.0	53.5	ug/L	71-133
Carbon Tetrachloride	118.	50.0	59.0	ug/L	65-140
Benzene	110.	50.0	54.8	ug/L	80-120
1,2-Dichloroethane	117.	50.0	58.4	ug/L	70-130
Trichloroethene	106.	50.0	53.0	ug/L	70-125
1,2-Dichloropropane	107.	50.0	53.6	ug/L	75-125
Bromodichloromethane	113.	50.0	56.7	ug/L	75-120
cis-1,3-Dichloropropene	115.	50.0	57.5	ug/L	70-130
Toluene	106.	50.0	53.1	ug/L	75-120
4-Methyl-2-Pentanone	117.	50.0	58.5	ug/L	60-135
trans-1,3-Dichloropropene	125.	50.0	62.6	ug/L	55-140
1,1,2-Trichloroethane	106.	50.0	53.0	ug/L	75-125
Tetrachloroethene	106.	50.0	53.2	ug/L	45-150
Dibromochloromethane	113.	50.0	56.3	ug/L	60-135
2-Hexanone	119.	50.0	59.4	ug/L	55-130
Chlorobenzene	107.	50.0	53.6	ug/L	80-120
Ethylbenzene	106.	50.0	52.9	ug/L	75-125

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165024-1
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: P1481.D

Sample Date:
Received Date:
Extract Date: 18-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165024

Analysis Date: 18-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dibromoethane	109.	50.0	54.7	ug/L	80-120
M+P-Xylenes	110.	100.	110.	ug/L	75-130
o-Xylene	111.	50.0	55.4	ug/L	80-120
Xylenes (Total)	111.	150.	166.	ug/L	89-116
Styrene	112.	50.0	56.1	ug/L	65-135
Bromoform	113.	50.0	56.7	ug/L	70-130
Isopropylbenzene	115.	50.0	57.6	ug/L	75-125
1,1,2,2-Tetrachloroethane	106.	50.0	53.0	ug/L	65-130
1,3-Dichlorobenzene	109.	50.0	54.6	ug/L	75-125
1,4-Dichlorobenzene	108.	50.0	53.9	ug/L	75-125
1,2-Dichlorobenzene	109.	50.0	54.3	ug/L	70-120
1,2,4-Trichlorobenzene	113.	50.0	56.7	ug/L	65-135
Methyl Acetate	103.	50.0	51.5	ug/L	70-132
Methylcyclohexane	106.	50.0	52.9	ug/L	73-125
Bromochloromethane	104.	50.0	52.2	ug/L	65-130
1,2,3-Trichloropropane	106.	50.0	53.2	ug/L	75-125
1,2-dibromo-3-chloropropane	120.	50.0	59.8	ug/L	50-130
P-Bromofluorobenzene	110.				75-120
Toluene-d8	117.				85-120
1,2-Dichloroethane-d4	118.				70-120
Dibromofluoromethane	113.				85-115

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG165024-6
MSD ID: WG165024-7
Sample ID: SI3862-6
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: P1496.D

Received Date:
Extract Date: 18-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG165024
Report Date: 19-JUN-15
MSD File ID: P1497.D

Analysis Date: 18-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dichlorodifluoromethane	250.	250.	ug/L	ULMM5.	420.	431.	168.*	172.*	2	30	30-155
Chloromethane	250.	250.	ug/L	ULMM5.	368.	340.	147.*	136.*	8	30	40-125
Vinyl Chloride	250.	250.	ug/L	U5.0	334.	330.	134.	132.	1	30	50-145
Bromomethane	250.	250.	ug/L	U5.0	340.	320.	136.	128.	6	30	30-145
Chloroethane	250.	250.	ug/L	UM5.0	347.	281.	139.*	112.	21	30	60-135
Trichlorofluoromethane	250.	250.	ug/L	UM5.0	372.	361.	149.*	144.	3	30	60-145
1,1-Dichloroethene	250.	250.	ug/L	U2.5	306.	284.	122.	114.	7	30	70-130
Carbon Disulfide	250.	250.	ug/L	U2.5	319.	303.	128.	121.	5	30	35-160
Freon-113	250.	250.	ug/L	U2.5	260.	205.	104.	82.0	24	30	73-126
Methylene Chloride	250.	250.	ug/L	U12	308.	256.	123.	102.	18	30	55-140
Acetone	250.	250.	ug/L	U12	259.	266.	104.	106.	3	30	40-140
trans-1,2-Dichloroethene	250.	250.	ug/L	U2.5	310.	299.	124.	120.	4	30	60-140
Methyl tert-butyl Ether	500.	500.	ug/L	U2.5	448.	485.	89.6	97.0	8	30	65-125
1,1-Dichloroethane	250.	250.	ug/L	U2.5	291.	294.	116.	118.	1	30	70-135
cis-1,2-Dichloroethene	250.	250.	ug/L	U2.5	265.	247.	106.	98.8	7	30	70-125
Chloroform	250.	250.	ug/L	U2.5	299.	283.	120.	113.	5	30	65-135
1,1,1-Trichloroethane	250.	250.	ug/L	U2.5	306.	305.	122.	122.	0	30	65-130
2-Butanone	250.	250.	ug/L	U12	218.	245.	87.2	98.0	12	30	30-150
Cyclohexane	250.	250.	ug/L	U2.5	278.	297.	111.	119.	7	30	71-133
Carbon Tetrachloride	250.	250.	ug/L	U2.5	312.	303.	125.	121.	3	30	65-140
Benzene	250.	250.	ug/L	U2.5	294.	280.	118.	112.	5	30	80-120
1,2-Dichloroethane	250.	250.	ug/L	U2.5	282.	280.	113.	112.	1	30	70-130
Trichloroethene	250.	250.	ug/L	UMM2.5	334.	324.	134.*	130.*	3	30	70-125
1,2-Dichloropropane	250.	250.	ug/L	U2.5	282.	269.	113.	108.	5	30	75-125
Bromodichloromethane	250.	250.	ug/L	UM2.5	306.	286.	122.*	114.	7	30	75-120
cis-1,3-Dichloropropene	250.	250.	ug/L	U2.5	281.	279.	112.	112.	1	30	70-130
Toluene	250.	250.	ug/L	U2.5	289.	272.	116.	109.	6	30	75-120
4-Methyl-2-Pentanone	250.	250.	ug/L	U12	280.	275.	112.	110.	2	30	60-135
trans-1,3-Dichloropropene	250.	250.	ug/L	U2.5	306.	304.	122.	122.	1	30	55-140
1,1,2-Trichloroethane	250.	250.	ug/L	U2.5	275.	259.	110.	104.	6	30	75-125
Tetrachloroethene	250.	250.	ug/L	UMM2.5	508.	452.	203.*	181.*	12	30	45-150
Dibromochloromethane	250.	250.	ug/L	U2.5	286.	270.	114.	108.	6	30	60-135
2-Hexanone	250.	250.	ug/L	U12	298.	301.	119.	120.	1	30	55-130

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG165024-6
MSD ID: WG165024-7
Sample ID: SI3862-6
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: P1496.D

Received Date:
Extract Date: 18-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG165024
Report Date: 19-JUN-15
MSD File ID: P1497.D

Analysis Date: 18-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Chlorobenzene	250.	250.	ug/L	U2.5	284.	266.	114.	106.	6	30	80-120
Ethylbenzene	250.	250.	ug/L	J1.2	284.	270.	113.	108.	5	30	75-125
1,2-Dibromoethane	250.	250.	ug/L	UM2.5	166.	252.	66.4*	101.	41*	30	80-120
M+P-Xylenes	500.	500.	ug/L	U5.0	581.	557.	116.	111.	4	30	75-130
o-Xylene	250.	250.	ug/L	U2.5	293.	280.	117.	112.	4	30	80-120
Xylenes (Total)	750.	750.	ug/L	U7.5	874.	837.	116.	112.	4	30	89-116
Styrene	250.	250.	ug/L	U2.5	290.	280.	116.	112.	4	30	65-135
Bromoform	250.	250.	ug/L	U2.5	288.	267.	115.	107.	8	30	70-130
Isopropylbenzene	250.	250.	ug/L	U2.5	310.	293.	124.	117.	6	30	75-125
1,1,2,2-Tetrachloroethane	250.	250.	ug/L	U2.5	197.	180.	78.8	72.0	9	30	65-130
1,3-Dichlorobenzene	250.	250.	ug/L	U2.5	285.	273.	114.	109.	4	30	75-125
1,4-Dichlorobenzene	250.	250.	ug/L	U2.5	282.	270.	113.	108.	4	30	75-125
1,2-Dichlorobenzene	250.	250.	ug/L	U2.5	283.	265.	113.	106.	6	30	70-120
1,2,4-Trichlorobenzene	250.	250.	ug/L	U2.5	282.	278.	113.	111.	1	30	65-135
Methyl Acetate	250.	250.	ug/L	UM3.8	172.	203.	68.8*	81.2	16	30	70-132
Methylcyclohexane	250.	250.	ug/L	U2.5	269.	220.	108.	88.0	20	30	73-125
Bromochloromethane	250.	250.	ug/L	UM2.5	346.	277.	138.*	111.	22	30	65-130
1,2,3-Trichloropropane	250.	250.	ug/L	U2.5	262.	250.	105.	100.	5	30	75-125
1,2-dibromo-3-chloropropane	250.	250.	ug/L	U2.5	281.	260.	112.	104.	8	30	50-130
P-Bromofluorobenzene							114.	118.			75-120
Toluene-d8							118.	120.			85-120
1,2-Dichloroethane-d4							102.	120.			70-120
Dibromofluoromethane							112.	116.*			85-115

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Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : PB291.D
Instrument ID : GCMS-P

SDG : SI3862
Date Analyzed : 16-JUN-15
Time Analyzed : 10:02
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.7		
75	30.0 - 60.0% of mass 95	48.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.7		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	62.3		
175	5.0 - 9.0% of mass 174	5.5	8.78	1
176	95.0 - 101.0% of mass 174	60.4	96.90	1
177	5.0 - 9.0% of mass 176	4.2	6.88	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG164916-4	P1429.D	06/16/15	10:37
Initial Calibration	WG164916-3	P1430.D	06/16/15	11:03
Initial Calibration	WG164916-2	P1431.D	06/16/15	11:29
Initial Calibration	WG164916-1	P1432.D	06/16/15	11:56
Initial Calibration	WG164916-6	P1433.D	06/16/15	12:22
Initial Calibration	WG164916-5	P1434.D	06/16/15	12:48
Independent Source	WG164916-7	P1435A.D	06/16/15	13:36

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : PB292.D
Instrument ID : GCMS-P

SDG : SI3862
Date Analyzed : 17-JUN-15
Time Analyzed : 10:22
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.8		
75	30.0 - 60.0% of mass 95	52.3		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.8	1.23	1
174	Greater than 50.0% of mass 95	65.3		
175	5.0 - 9.0% of mass 174	5.4	8.28	1
176	95.0 - 101.0% of mass 174	65.3	99.96	1
177	5.0 - 9.0% of mass 176	4.2	6.50	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG164966-4	P1455.D	06/17/15	10:47
Laboratory Control S	WG164966-1	P1456.D	06/17/15	11:34
Method Blank Sample	WG164966-2	P1459.D	06/17/15	13:09
SPLP Blank	WG164966-7	P1462.D	06/17/15	14:28
SITE4TS-FB	SI3862-6DL	P1470.D	06/17/15	17:56
SITE4TS-XX	SI3862-7DL	P1471.D	06/17/15	18:25

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : PB293.D
Instrument ID : GCMS-P

SDG : SI3862
Date Analyzed : 18-JUN-15
Time Analyzed : 08:26
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.6		
75	30.0 - 60.0% of mass 95	53.2		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	72.6		
175	5.0 - 9.0% of mass 174	6.3	8.72	1
176	95.0 - 101.0% of mass 174	69.2	95.35	1
177	5.0 - 9.0% of mass 176	4.7	6.74	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG165024-4	P1480.D	06/18/15	08:54
Laboratory Control S	WG165024-1	P1481.D	06/18/15	09:35
Method Blank Sample	WG165024-2	P1484.D	06/18/15	11:10
Matrix Spike	WG165024-6	P1496.D	06/18/15	16:30
Matrix Spike Duplica	WG165024-7	P1497.D	06/18/15	16:56

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164916-4
Lab File ID : P1429.D

SDG: SI3862
Analytical Date: 06/16/15 10:37
Instrument ID: GCMS-P

		PENTAFLUOROBENZENE				1,4-DIFLUOROBENZENE				CHLOROBENZENE-D5			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	514232		8.71		973264		9.58		877936		13.93	
	Upper Limit	1028464		9.21		1946528		10.08		1755872		14.43	
	Lower Limit	257116		8.21		486632		9.08		438968		13.43	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG164966-4	455371		8.72		873727		9.58		788112		13.93	
Laboratory Control S	WG164966-1	480058		8.72		916906		9.57		823528		13.93	
Method Blank Sample	WG164966-2	488613		8.72		912676		9.58		836321		13.93	
SPLP Blank	WG164966-7	490581		8.72		916658		9.58		834321		13.93	
SITE4TS-FB	SI3862-6DL	477810		8.72		898066		9.58		800859		13.93	
SITE4TS-XX	SI3862-7DL	468942		8.72		880401		9.58		796785		13.94	
Continuing Calibrati	WG165024-4	469578		8.72		874256		9.57		780040		13.93	
Laboratory Control S	WG165024-1	452851		8.72		854296		9.58		764474		13.93	
Method Blank Sample	WG165024-2	476351		8.72		895081		9.58		797329		13.93	
Matrix Spike	WG165024-6	460056		8.72		855614		9.58		787981		13.94	
Matrix Spike Duplica	WG165024-7	453267		8.72		854313		9.58		778966		13.93	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164916-4
Lab File ID : P1429.D

SDG: SI3862
Analytical Date: 06/16/15 10:37
Instrument ID: GCMS-P

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	463075		16.93	
	Upper Limit	926150		17.43	
	Lower Limit	231537.5		16.43	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG164966-4	418269		16.92	
Laboratory Control S	WG164966-1	431625		16.92	
Method Blank Sample	WG164966-2	445845		16.93	
SPLP Blank	WG164966-7	450078		16.93	
SITE4TS-FB	SI3862-6DL	442404		16.93	
SITE4TS-XX	SI3862-7DL	435614		16.92	
Continuing Calibrati	WG165024-4	417946		16.92	
Laboratory Control S	WG165024-1	406561		16.92	
Method Blank Sample	WG165024-2	428959		16.92	
Matrix Spike	WG165024-6	409016		16.92	
Matrix Spike Duplica	WG165024-7	414668		16.93	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

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 Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes 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.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native 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, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-6DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1470.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	ULMM	5.0	ug/L	5	2	10.	1.2	5.0
Chloromethane	ULMM	5.0	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	5.0	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	5.0	ug/L	5	2	10.	2.4	5.0
Chloroethane	UM	5.0	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	UM	5.0	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.8	2.5
Carbon Disulfide	U	2.5	ug/L	5	1	5.0	1.2	2.5
Freon-113	U	2.5	ug/L	5	1	5.0	1.6	2.5
Methylene Chloride	U	12	ug/L	5	5	25.	5.6	12.
Acetone	U	12	ug/L	5	5	25.	11.	12.
trans-1,2-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	2.5	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.0	2.5
Chloroform	U	2.5	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	12	ug/L	5	5	25.	6.6	12.
Cyclohexane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	2.5	ug/L	5	1	5.0	1.1	2.5
Benzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
Trichloroethene	UMM	2.5	ug/L	5	1	5.0	1.4	2.5
1,2-Dichloropropane	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	UM	2.5	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	0.95	2.5
Toluene	U	2.5	ug/L	5	1	5.0	1.4	2.5
4-Methyl-2-Pentanone	U	12	ug/L	5	5	25.	6.6	12.
trans-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	UMM	2.5	ug/L	5	1	5.0	2.0	2.5
Dibromochloromethane	U	2.5	ug/L	5	1	5.0	1.5	2.5
2-Hexanone	U	12	ug/L	5	5	25.	8.5	12.
Chlorobenzene	U	2.5	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	J	1.2	ug/L	5	1	5.0	1.0	2.5

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-6DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1470.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	UM	2.5	ug/L	5	1	5.0	1.1	2.5
M+P-Xylenes	U	5.0	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Xylenes (Total)	U	7.5	ug/L	5	3	15.	1.2	7.5
Styrene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	2.5	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	2.5	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	0.75	2.5
1,2,4-Trichlorobenzene	U	2.5	ug/L	5	1	5.0	1.8	2.5
Methyl Acetate	UM	3.8	ug/L	5	1	5.0	2.6	3.8
Methylcyclohexane	U	2.5	ug/L	5	1	5.0	1.5	2.5
Bromochloromethane	UM	2.5	ug/L	5	1	5.0	1.0	2.5
1,2,3-Trichloropropane	U	2.5	ug/L	5	1	5.0	0.95	2.5
1,2-dibromo-3-chloropropane	U	2.5	ug/L	5	1	5.0	2.5	2.5
P-Bromofluorobenzene		104.	%					
Toluene-d8		109.	%					
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		100.	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-7DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1471.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	UL	5.0	ug/L	5	2	10.	1.2	5.0
Chloromethane	UL	5.0	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	5.0	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	5.0	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	5.0	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	5.0	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.8	2.5
Carbon Disulfide	U	2.5	ug/L	5	1	5.0	1.2	2.5
Freon-113	U	2.5	ug/L	5	1	5.0	1.6	2.5
Methylene Chloride	U	12	ug/L	5	5	25.	5.6	12.
Acetone	U	12	ug/L	5	5	25.	11.	12.
trans-1,2-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	2.5	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.0	2.5
Chloroform	U	2.5	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	12	ug/L	5	5	25.	6.6	12.
Cyclohexane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	2.5	ug/L	5	1	5.0	1.1	2.5
Benzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
Trichloroethene	U	2.5	ug/L	5	1	5.0	1.4	2.5
1,2-Dichloropropane	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	2.5	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	0.95	2.5
Toluene	U	2.5	ug/L	5	1	5.0	1.4	2.5
4-Methyl-2-Pentanone	U	12	ug/L	5	5	25.	6.6	12.
trans-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene	U	2.5	ug/L	5	1	5.0	2.0	2.5
Dibromochloromethane	U	2.5	ug/L	5	1	5.0	1.5	2.5
2-Hexanone	U	12	ug/L	5	5	25.	8.5	12.
Chlorobenzene	U	2.5	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	J	1.0	ug/L	5	1	5.0	1.0	2.5

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-7DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: P1471.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 17-JUN-15
Extracted By: EME
Extraction Method: 5030/1312
Lab Prep Batch: WG164966

Analysis Date: 17-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dibromoethane	U	2.5	ug/L	5	1	5.0	1.1	2.5
M+P-Xylenes	U	5.0	ug/L	5	2	10.	3.0	5.0
o-Xylene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Xylenes (Total)	U	7.5	ug/L	5	3	15.	1.2	7.5
Styrene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	2.5	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	2.5	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	0.75	2.5
1,2,4-Trichlorobenzene	U	2.5	ug/L	5	1	5.0	1.8	2.5
Methyl Acetate	U	3.8	ug/L	5	1	5.0	2.6	3.8
Methylcyclohexane	U	2.5	ug/L	5	1	5.0	1.5	2.5
Bromochloromethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
1,2,3-Trichloropropane	U	2.5	ug/L	5	1	5.0	0.95	2.5
1,2-dibromo-3-chloropropane	U	2.5	ug/L	5	1	5.0	2.5	2.5
P-Bromofluorobenzene		111.	%					
Toluene-d8		115.	%					
1,2-Dichloroethane-d4		119.	%					
Dibromofluoromethane		107.	%					

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Standards Data Section

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-P
Lab File IDs : P1432.D P1431.D P1430.D **Column ID:**
P1429.D P1434.D P1433.D **Calibration Date(s):** 16-JUN-15 10:37
16-JUN-15 12:48

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.44490	0.52502	0.52637	0.53715	0.57312	0.60267	AVG		0.53487		10.00853	15.00000	O
Chloromethane	0.88587	0.83946	0.82429	0.86740	0.91204	1.00975	AVG		0.88980		7.49314	15.00000	O
Vinyl chloride	0.63092	0.63996	0.61639	0.62941	0.72741	0.71825	AVG		0.66039		7.42482	15.00000	O
Bromomethane	0.24315	0.27619	0.29384	0.31461	0.35406	0.33692	AVG		0.30313		13.42176	15.00000	O
Chloroethane	0.50082	0.48490	0.48105	0.48975	0.36783	+++++	AVG		0.46487		11.77826	15.00000	O
Trichlorofluoromethane	0.73535	0.75039	0.77945	0.73617	0.79604	0.75353	AVG		0.75849		3.21512	15.00000	O
1,1-Dichloroethene	0.47899	0.48454	0.50381	0.48049	0.55504	0.59461	AVG		0.51625		9.27833	15.00000	O
Carbon Disulfide	1.63911	1.61859	1.83417	1.80751	2.00011	1.97172	AVG		1.81187		8.85500	15.00000	O
Freon-113	0.30712	0.29911	0.31528	0.27290	0.33034	0.33995	AVG		0.31078		7.66559	15.00000	O
Methylene Chloride	0.89964	0.67478	0.67247	0.68308	0.71510	0.72294	AVG		0.72800		11.90922	15.00000	O
Acetone	0.20924	0.21209	0.22664	0.20968	0.21975	0.22125	AVG		0.21644		3.29659	15.00000	O
trans-1,2-Dichloroethene	0.46092	0.55408	0.56329	0.53487	0.58552	0.57734	AVG		0.54600		8.30091	15.00000	O
Methyl tert-butyl ether	1.55242	1.68133	1.84430	1.73324	1.60701	1.31307	AVG		1.62189		11.22814	15.00000	O
1,1-Dichloroethane	0.92745	1.01576	1.02835	0.99016	1.06970	1.05304	AVG		1.01408		5.00766	15.00000	O
cis-1,2-Dichloroethene	0.64178	0.65897	0.67084	0.64956	0.71384	0.70753	AVG		0.67375		4.49302	15.00000	O
Bromochloromethane	0.23641	0.24750	0.25221	0.25443	0.25199	0.25724	AVG		0.24996		2.95029	15.00000	O
Chloroform	0.95499	0.96209	1.01529	0.99546	1.08390	1.03844	AVG		1.00836		4.82075	15.00000	O
Carbon Tetrachloride	0.30667	0.32194	0.33787	0.31528	0.35585	0.36362	AVG		0.33354		6.85151	15.00000	O
1,1,1-Trichloroethane	0.75034	0.80449	0.85359	0.80334	0.88975	0.85844	AVG		0.82665		6.06674	15.00000	O
2-Butanone	0.27247	0.28233	0.32361	0.27536	0.27156	0.24937	AVG		0.27912		8.76139	15.00000	O
Benzene	1.18329	1.24940	1.27248	1.20182	1.29917	1.14707	AVG		1.22554		4.71569	15.00000	O
Cyclohexane	0.88324	0.99869	0.98544	0.85401	1.02716	1.03055	AVG		0.96318		7.86564	15.00000	O
1,2-Dichloroethane	0.39432	0.43045	0.43864	0.41344	0.42729	0.39425	AVG		0.41640		4.55372	15.00000	O
Trichloroethene	0.32842	0.31042	0.30517	0.28708	0.31688	0.30438	AVG		0.30872		4.48272	15.00000	O
1,2-Dichloropropane	0.29721	0.30895	0.31366	0.30346	0.33524	0.32226	AVG		0.31347		4.36563	15.00000	O
Bromodichloromethane	0.35825	0.40280	0.41585	0.41207	0.44757	0.44254	AVG		0.41318		7.78921	15.00000	O
cis-1,3-dichloropropene	0.42107	0.46727	0.49290	0.47849	0.52491	0.52136	AVG		0.48433		7.95262	15.00000	O
Toluene	0.80543	0.81437	0.83091	0.78937	0.85644	0.77918	AVG		0.81262		3.46669	15.00000	O
4-methyl-2-pentanone	0.26137	0.31551	0.35877	0.30754	0.29675	0.24089	AVG		0.29681		14.04298	15.00000	O
Tetrachloroethene	0.26678	0.25182	0.24513	0.22839	0.25885	0.24944	AVG		0.25007		5.22707	15.00000	O
trans-1,3-Dichloropropene	0.34824	0.38537	0.42301	0.41263	0.44364	0.43331	AVG		0.40770		8.66517	15.00000	O
1,1,2-Trichloroethane	0.22186	0.23192	0.25111	0.23877	0.25984	0.24678	AVG		0.24171		5.67779	15.00000	O
Dibromochloromethane	0.30513	0.31199	0.33473	0.33777	0.35773	0.35785	AVG		0.33420		6.64269	15.00000	O
1,2-Dibromoethane	0.26768	0.27355	0.29888	0.28974	0.28618	0.28671	AVG		0.28379		3.99144	15.00000	O
2-Hexanone	0.18666	0.23754	0.28017	0.24304	0.23879	0.20269	AVG		0.23148		14.23860	15.00000	O
Chlorobenzene	0.94361	0.98519	0.96906	0.93795	0.99633	0.88311	AVG		0.95254		4.29510	15.00000	O
Ethylbenzene	0.52945	0.52826	0.53177	0.50311	0.55081	0.50988	AVG		0.52555		3.23864	15.00000	O

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-P
Lab File IDs : P1432.D P1431.D P1430.D **Column ID:**
P1429.D P1434.D P1433.D **Calibration Date(s):** 16-JUN-15 10:37
16-JUN-15 12:48

Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.64059	0.66795	0.67279	0.62430	0.63141	0.51277	AVG		0.62497		9.33228	15.00000	O
o-Xylene	0.54004	0.64527	0.66801	0.63293	0.67324	0.61758	AVG		0.62951		7.71762	15.00000	O
Styrene	0.95985	1.09584	1.16426	1.13368	1.15204	0.94037	AVG		1.07434		9.22960	15.00000	O
Bromoform	0.16695	0.18719	0.21338	0.21391	0.22482	0.21663	AVG		0.20381		10.82625	15.00000	O
Isopropylbenzene	2.76378	3.10878	3.20988	3.00547	3.14220	2.53129	AVG		2.96023		8.83667	15.00000	O
1,1,2,2-Tetrachloroethane	0.83943	0.89970	1.01513	0.92278	0.95393	0.87996	AVG		0.91849		6.65862	15.00000	O
1,2,3-Trichloropropane	0.74931	0.72106	0.75414	0.70037	0.72728	0.65790	AVG		0.71834		4.94287	15.00000	O
1,3-Dichlorobenzene	1.49094	1.51478	1.56326	1.48502	1.55580	1.38871	AVG		1.49975		4.21965	15.00000	O
1,4-Dichlorobenzene	1.57660	1.57640	1.59173	1.52623	1.56779	1.37862	AVG		1.53623		5.22884	15.00000	O
1,2-Dichlorobenzene	1.47455	1.52647	1.51944	1.45746	1.50458	1.34811	AVG		1.47177		4.49121	15.00000	O
1,2-Dibromo-3-Chloropropane	0.12995	0.14456	0.17305	0.15987	0.17184	0.17292	AVG		0.15870		11.30376	15.00000	O
1,2,4-Trichlorobenzene	0.87407	0.87424	0.93733	0.91218	0.97562	0.91649	AVG		0.91499		4.23856	15.00000	O
Methyl Acetate	0.46523	0.49246	0.53311	0.44285	0.45025	0.46818	AVG		0.47535		6.95796	15.00000	O
Methylcyclohexane	0.88652	0.94062	0.97801	0.80340	0.98599	0.96596	AVG		0.92675		7.58389	15.00000	O
Dibromofluoromethane	0.46963	0.44242	0.45331	0.45488	0.46817	0.46869	AVG		0.45952		2.41063	15.00000	
1,2-Dichloroethane-D4	0.63691	0.60032	0.61357	0.58638	0.56845	0.54328	AVG		0.59149		5.61230	15.00000	
Toluene-D8	0.94658	0.95506	0.97301	0.94843	0.98307	0.91489	AVG		0.95351		2.49166	15.00000	
P-Bromofluorobenzene	0.46932	0.42882	0.43025	0.42562	0.43185	0.41351	AVG		0.43323		4.35504	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-p.i\P061615.b\P1435A.D
Report Date: 18-Jun-2015 11:04

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG164916-7
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-p.i\P061615.b\P826A08.m
Misc Info: WG164916,WG164916-4

Client SDG: WG164916
Fraction: VOA
Client Smp ID: Independent Source
Operator: EME
SampleType: INDSOURCE
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	74.6	149.18*	80-120
	2 Chloromethane	50.0	66.7	133.46*	80-120
	3 Vinyl chloride	50.0	63.7	127.34*	80-120
	4 Bromomethane	50.0	61.9	123.74*	80-120
	5 Chloroethane	50.0	63.5	127.07*	80-120
	6 Trichlorofluoromet	50.0	62.3	124.70*	80-120
	7 Diethyl Ether	50.0	49.2	98.46	80-120
	8 Tertiary-butyl alc	250	256	102.48	80-120
	9 1,1-Dichloroethene	50.0	54.2	108.40	80-120
	10 Carbon Disulfide	50.0	56.9	113.79	80-120
	11 Freon-113	50.0	50.6	101.30	80-120
	12 Iodomethane	50.0	64.1	128.20*	80-120
	13 Acrolein	250	235	93.95	80-120
	14 Methylene Chloride	50.0	48.7	97.41	80-120
	15 Acetone	50.0	46.7	93.48	80-120
	16 Isobutyl Alcohol	1000	936	93.62	80-120
	17 trans-1,2-Dichloro	50.0	56.9	113.90	80-120
	18 Allyl Chloride	50.0	50.9	101.83	80-120
	19 Methyl tert-butyl	100	108	108.15	80-120
	20 Acetonitrile	500	445	89.05	80-120
	21 Di-isopropyl ether	50.0	50.8	101.70	80-120
	22 Chloroprene	50.0	52.2	104.37	80-120
	23 Propionitrile	500	459	91.83	80-120
	24 Methacrylonitrile	500	450	90.09	80-120
	25 1,1-Dichloroethane	50.0	54.1	108.19	80-120
	26 Acrylonitrile	250	243	97.05	80-120
	27 Ethyl tertiary-but	50.0	51.4	102.84	80-120
	28 Vinyl Acetate	50.0	52.7	105.37	80-120
	29 cis-1,2-Dichloroet	50.0	48.0	95.98	80-120
M	30 1,2-Dichloroethyle	100	105	104.94	80-120
	31 Methyl Methacrylat	50.0	48.2	96.39	80-120
	32 2,2-Dichloropropan	50.0	51.4	102.83	80-120
	33 Bromochloromethane	50.0	52.0	104.07	80-120
	34 Chloroform	50.0	52.3	104.65	80-120
	35 Carbon Tetrachlori	50.0	53.2	106.35	80-120
	36 Tetrahydrofuran	50.0	45.2	90.44	80-120
	38 1,1,1-Trichloroeth	50.0	53.3	106.62	80-120
	39 1,1-Dichloropropen	50.0	54.8	109.54	80-120
	40 2-Butanone	50.0	47.8	95.59	80-120
	41 Benzene	50.0	53.5	107.02	80-120

Data File: \\target_server\gg\chem\gcms-p.i\P061615.b\P1435A.D
Report Date: 18-Jun-2015 11:04

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	49.0	97.98	80-120
	44	Ethyl Methacrylate	50.0	48.5	97.01	80-120
	46	Tertiary-amyl meth	50.0	51.0	102.08	80-120
	47	1,2-Dichloroethane	50.0	51.1	102.23	80-120
	48	Trichloroethene	50.0	50.5	100.95	80-120
	50	Dibromomethane	50.0	52.2	104.32	80-120
	51	1,2-Dichloropropan	50.0	52.0	104.01	80-120
	52	Bromodichlorometha	50.0	53.1	106.27	80-120
	53	cis-1,3-dichloropr	50.0	53.9	107.85	80-120
	54	1,4-Dioxane	1000	881	88.07	80-120
	56	2-Chloroethylvinyl	50.0	58.3	116.68	80-120
	57	Toluene	50.0	52.1	104.17	80-120
	58	4-methyl-2-pentano	50.0	50.1	100.12	80-120
	59	Tetrachloroethene	50.0	50.2	100.48	80-120
	60	trans-1,3-Dichloro	50.0	56.3	112.69	80-120
	61	1,1,2-Trichloroeth	50.0	50.5	101.00	80-120
	62	Dibromochlorometha	50.0	51.2	102.42	80-120
	63	1,3-Dichloropropan	50.0	49.6	99.17	80-120
	64	1,2-Dibromoethane	50.0	50.0	100.02	80-120
	65	2-Hexanone	50.0	50.4	100.75	80-120
	67	Chlorobenzene	50.0	52.4	104.91	80-120
	152	1-Chlorohexane	50.0	51.1	102.14	80-120
	68	Ethylbenzene	50.0	51.6	103.19	80-120
	69	1,1,1,2-Tetrachlor	50.0	51.9	103.76	80-120
M	70	Xylenes (total)	150	160	106.56	80-120
	71	m+p-Xylenes	100	106	106.19	80-120
	72	o-Xylene	50.0	53.6	107.32	80-120
	73	Styrene	50.0	54.8	109.57	80-120
	74	Bromoform	50.0	51.1	102.26	80-120
	75	Isopropylbenzene	50.0	57.0	114.12	80-120
	77	cis-1,4-Dichloro-2	50.0	46.5	92.93	80-120
	78	trans-1,4-Dichloro	50.0	46.3	92.56	80-120
	79	Bromobenzene	50.0	53.0	105.93	80-120
	80	N-Propylbenzene	50.0	57.9	115.76	80-120
	81	1,1,2,2-Tetrachlor	50.0	49.1	98.29	80-120
	82	1,3,5-Trimethylben	50.0	54.6	109.22	80-120
	83	2-Chlorotoluene	50.0	55.9	111.78	80-120
	84	1,2,3-Trichloropro	50.0	48.6	97.32	80-120
	85	4-Chlorotoluene	50.0	54.7	109.48	80-120
	86	tert-Butylbenzene	50.0	57.4	114.81	80-120
	87	Pentachloroethane	50.0	51.5	102.99	80-120
	88	1,2,4-Trimethylben	50.0	57.4	114.79	80-120
	89	P-Isopropyltoluene	50.0	55.6	111.15	80-120
	90	1,3-Dichlorobenzen	50.0	53.1	106.25	80-120
	92	1,4-Dichlorobenzen	50.0	52.9	105.76	80-120
	93	N-Butylbenzene	50.0	55.2	110.42	80-120
	94	sec-Butylbenzene	50.0	57.1	114.16	80-120
	95	1,2-Dichlorobenzen	50.0	52.0	104.10	80-120
	96	1,2-Dibromo-3-Chlo	50.0	54.2	108.41	80-120
	97	1,3,5-Trichloroben	50.0	50.4	100.79	80-120
	98	Hexachlorobutadien	50.0	50.0	99.99	80-120
	99	1,2,4-Trichloroben	50.0	51.8	103.61	80-120
	100	1,2,3-Trimethylben	50.0	52.8	105.57	80-120
	101	Naphthalene	50.0	54.8	109.56	80-120

Data File: \\target_server\gg\chem\gcms-p.i\P061615.b\P1435A.D
Report Date: 18-Jun-2015 11:04

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	49.0	98.02	80-120
103 Methyl Acetate	50.0	39.1	78.18*	80-120
104 Methylcyclohexane	50.0	50.6	101.11	80-120
M 153 Total Alkylbenzene	350	395	112.90	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	53.4	106.87	68-128
$ 45 1,2-Dichloroethane	50.0	52.3	104.59	67-135
$ 55 Toluene-D8	50.0	56.6	113.29	65-128
$ 76 P-Bromofluorobenze	50.0	53.5	107.06	56-133

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164966-4
Analytical Date: 06/17/15 10:47
Lab File ID : P1455.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/16/15 10:37 06/16/15 12:48
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.53487	0.49988	0.49988	0.010	-6.54295	20.00000	Averaged	
2 Chloromethane	0.88980	0.83031	0.83031	0.100	-6.68563	20.00000	Averaged	
3 Vinyl chloride	0.66039	0.62912	0.62912	0.010	-4.73568	20.00000	Averaged	
4 Bromomethane	0.30313	0.31608	0.31608	0.010	4.27376	20.00000	Averaged	
5 Chloroethane	0.46487	0.51249	0.51249	0.010	10.24515	20.00000	Averaged	
6 Trichlorofluoromethane	0.75849	0.85462	0.85462	0.010	12.67471	20.00000	Averaged	
9 1,1-Dichloroethene	0.51625	0.51441	0.51441	0.100	-0.35533	20.00000	Averaged	
10 Carbon Disulfide	1.81187	1.86991	1.86991	0.010	3.20353	20.00000	Averaged	
11 Freon-113	0.31078	0.32130	0.32130	0.010	3.38446	20.00000	Averaged	
14 Methylene Chloride	0.72800	0.68976	0.68976	0.010	-5.25324	20.00000	Averaged	
15 Acetone	0.21644	0.25260	0.25260	0.010	16.70617	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54600	0.56101	0.56101	0.010	2.74779	20.00000	Averaged	
19 Methyl tert-butyl ether	1.62189	1.77543	1.77543	0.010	9.46634	20.00000	Averaged	
25 1,1-Dichloroethane	1.01408	1.05504	1.05504	0.100	4.03904	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.67375	0.67667	0.67667	0.010	0.43255	20.00000	Averaged	
33 Bromochloromethane	0.24996	0.25449	0.25449	0.010	1.80962	20.00000	Averaged	
34 Chloroform	1.00836	1.06976	1.06976	0.010	6.08901	20.00000	Averaged	
35 Carbon Tetrachloride	0.33354	0.36129	0.36129	0.010	8.31993	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.82665	0.89006	0.89006	0.010	7.67049	20.00000	Averaged	
40 2-Butanone	0.27912	0.31594	0.31594	0.010	13.19415	20.00000	Averaged	
41 Benzene	1.22554	1.26321	1.26321	0.010	3.07403	20.00000	Averaged	
43 Cyclohexane	0.96318	1.03045	1.03045	0.010	6.98337	20.00000	Averaged	
47 1,2-Dichloroethane	0.41640	0.44002	0.44002	0.010	5.67315	20.00000	Averaged	
48 Trichloroethene	0.30872	0.30852	0.30852	0.010	-0.06500	20.00000	Averaged	
51 1,2-Dichloropropane	0.31347	0.31025	0.31025	0.010	-1.02637	20.00000	Averaged	
52 Bromodichloromethane	0.41318	0.42790	0.42790	0.010	3.56228	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.48433	0.50088	0.50088	0.010	3.41610	20.00000	Averaged	
57 Toluene	0.81262	0.82203	0.82203	0.010	1.15863	20.00000	Averaged	
58 4-methyl-2-pentanone	0.29681	0.32693	0.32693	0.010	10.14964	20.00000	Averaged	
59 Tetrachloroethene	0.25007	0.25020	0.25020	0.010	0.05297	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.40770	0.43093	0.43093	0.010	5.69816	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24171	0.24559	0.24559	0.010	1.60251	20.00000	Averaged	
62 Dibromochloromethane	0.33420	0.34496	0.34496	0.010	3.22062	20.00000	Averaged	
64 1,2-Dibromoethane	0.28379	0.28874	0.28874	0.010	1.74206	20.00000	Averaged	
65 2-Hexanone	0.23148	0.25958	0.25958	0.010	12.14071	20.00000	Averaged	
67 Chlorobenzene	0.95254	0.96481	0.96481	0.300	1.28825	20.00000	Averaged	
68 Ethylbenzene	0.52555	0.52683	0.52683	0.010	0.24410	20.00000	Averaged	
70 Xylenes (total)	++++	0.64851	0.64851	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.62497	0.65122	0.65122	0.010	4.20031	20.00000	Averaged	
72 o-Xylene	0.62951	0.64310	0.64310	0.010	2.15766	20.00000	Averaged	
73 Styrene	1.07434	1.15483	1.15483	0.010	7.49170	20.00000	Averaged	

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Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164966-4
Analytical Date: 06/17/15 10:47
Lab File ID : P1455.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/16/15 10:37 06/16/15 12:48
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	0.20381	0.21509	0.21509	0.100	5.53474	20.00000	Averaged
75 Isopropylbenzene	2.96023	3.16246	3.16246	0.010	6.83155	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.91849	0.93016	0.93016	0.300	1.27105	20.00000	Averaged
84 1,2,3-Trichloropropane	0.71834	0.71401	0.71401	0.010	-0.60329	20.00000	Averaged
90 1,3-Dichlorobenzene	1.49975	1.54410	1.54410	0.010	2.95739	20.00000	Averaged
92 1,4-Dichlorobenzene	1.53623	1.58501	1.58501	0.010	3.17560	20.00000	Averaged
95 1,2-Dichlorobenzene	1.47177	1.50745	1.50745	0.010	2.42413	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.15870	0.17575	0.17575	0.010	10.74581	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.91499	0.98029	0.98029	0.010	7.13659	20.00000	Averaged
103 Methyl Acetate	0.47535	0.43002	0.43002	0.010	-9.53495	20.00000	Averaged
104 Methylcyclohexane	0.92675	0.96706	0.96706	0.010	4.34943	20.00000	Averaged
37 Dibromofluoromethane	0.45952	0.52803	0.52803	0.010	14.90929	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.59149	0.69894	0.69894	0.010	18.16716	20.00000	Averaged
55 Toluene-D8	0.95351	1.11516	1.11516	0.010	16.95377	20.00000	Averaged
76 P-Bromofluorobenzene	0.43323	0.48441	0.48441	0.010	11.81396	20.00000	Averaged

*** = Compound out of QC criteria**

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG165024-4
Analytical Date: 06/18/15 08:54
Lab File ID : P1480.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/16/15 10:37 06/16/15 12:48
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.53487	0.44543	0.44543	0.010	-16.72224	20.00000	Averaged	
2 Chloromethane	0.88980	0.76019	0.76019	0.100	-14.56639	20.00000	Averaged	
3 Vinyl chloride	0.66039	0.57474	0.57474	0.010	-12.97027	20.00000	Averaged	
4 Bromomethane	0.30313	0.28510	0.28510	0.010	-5.94710	20.00000	Averaged	
5 Chloroethane	0.46487	0.46715	0.46715	0.010	0.49123	20.00000	Averaged	
6 Trichlorofluoromethane	0.75849	0.79919	0.79919	0.010	5.36676	20.00000	Averaged	
9 1,1-Dichloroethene	0.51625	0.48039	0.48039	0.100	-6.94528	20.00000	Averaged	
10 Carbon Disulfide	1.81187	1.71317	1.71317	0.010	-5.44735	20.00000	Averaged	
11 Freon-113	0.31078	0.30616	0.30616	0.010	-1.48663	20.00000	Averaged	
14 Methylene Chloride	0.72800	0.66175	0.66175	0.010	-9.10062	20.00000	Averaged	
15 Acetone	0.21644	0.21818	0.21818	0.010	0.80248	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54600	0.52003	0.52003	0.010	-4.75762	20.00000	Averaged	
19 Methyl tert-butyl ether	1.62189	1.68473	1.68473	0.010	3.87434	20.00000	Averaged	
25 1,1-Dichloroethane	1.01408	1.00022	1.00022	0.100	-1.36615	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.67375	0.62892	0.62892	0.010	-6.65400	20.00000	Averaged	
33 Bromochloromethane	0.24996	0.24792	0.24792	0.010	-0.81737	20.00000	Averaged	
34 Chloroform	1.00836	1.02196	1.02196	0.010	1.34880	20.00000	Averaged	
35 Carbon Tetrachloride	0.33354	0.34850	0.34850	0.010	4.48549	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.82665	0.84979	0.84979	0.010	2.79925	20.00000	Averaged	
40 2-Butanone	0.27912	0.27634	0.27634	0.010	-0.99368	20.00000	Averaged	
41 Benzene	1.22554	1.22373	1.22373	0.010	-0.14746	20.00000	Averaged	
43 Cyclohexane	0.96318	0.96501	0.96501	0.010	0.18982	20.00000	Averaged	
47 1,2-Dichloroethane	0.41640	0.43581	0.43581	0.010	4.66234	20.00000	Averaged	
48 Trichloroethene	0.30872	0.29735	0.29735	0.010	-3.68339	20.00000	Averaged	
51 1,2-Dichloropropane	0.31347	0.29830	0.29830	0.010	-4.83668	20.00000	Averaged	
52 Bromodichloromethane	0.41318	0.42084	0.42084	0.010	1.85328	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.48433	0.49066	0.49066	0.010	1.30667	20.00000	Averaged	
57 Toluene	0.81262	0.78758	0.78758	0.010	-3.08129	20.00000	Averaged	
58 4-methyl-2-pentanone	0.29681	0.31568	0.31568	0.010	6.35939	20.00000	Averaged	
59 Tetrachloroethene	0.25007	0.23881	0.23881	0.010	-4.50065	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.40770	0.41551	0.41551	0.010	1.91459	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24171	0.23468	0.23468	0.010	-2.91192	20.00000	Averaged	
62 Dibromochloromethane	0.33420	0.33709	0.33709	0.010	0.86476	20.00000	Averaged	
64 1,2-Dibromoethane	0.28379	0.28391	0.28391	0.010	0.04128	20.00000	Averaged	
65 2-Hexanone	0.23148	0.24873	0.24873	0.010	7.45118	20.00000	Averaged	
67 Chlorobenzene	0.95254	0.93944	0.93944	0.300	-1.37601	20.00000	Averaged	
68 Ethylbenzene	0.52555	0.51669	0.51669	0.010	-1.68551	20.00000	Averaged	
70 Xylenes (total)	++++	0.63977	0.63977	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.62497	0.64059	0.64059	0.010	2.49880	20.00000	Averaged	
72 o-Xylene	0.62951	0.63814	0.63814	0.010	1.37038	20.00000	Averaged	
73 Styrene	1.07434	1.11963	1.11963	0.010	4.21564	20.00000	Averaged	

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Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG165024-4
Analytical Date: 06/18/15 08:54
Lab File ID : P1480.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/16/15 10:37 06/16/15 12:48
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	0.20381	0.20477	0.20477	0.100	0.46955	20.00000	Averaged
75 Isopropylbenzene	2.96023	3.08949	3.08949	0.010	4.36646	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.91849	0.87799	0.87799	0.300	-4.40929	20.00000	Averaged
84 1,2,3-Trichloropropane	0.71834	0.66867	0.66867	0.010	-6.91461	20.00000	Averaged
90 1,3-Dichlorobenzene	1.49975	1.50082	1.50082	0.010	0.07101	20.00000	Averaged
92 1,4-Dichlorobenzene	1.53623	1.52613	1.52613	0.010	-0.65692	20.00000	Averaged
95 1,2-Dichlorobenzene	1.47177	1.44480	1.44480	0.010	-1.83262	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.15870	0.16340	0.16340	0.010	2.96290	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.91499	0.95386	0.95386	0.010	4.24802	20.00000	Averaged
103 Methyl Acetate	0.47535	0.44303	0.44303	0.010	-6.79780	20.00000	Averaged
104 Methylcyclohexane	0.92675	0.91096	0.91096	0.010	-1.70344	20.00000	Averaged
37 Dibromofluoromethane	0.45952	0.52534	0.52534	0.010	14.32412	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.59149	0.69991	0.69991	0.010	18.33138	20.00000	Averaged
55 Toluene-D8	0.95351	1.13339	1.13339	0.010	18.86546	20.00000	Averaged
76 P-Bromofluorobenzene	0.43323	0.48331	0.48331	0.010	11.56069	20.00000	Averaged

*** = Compound out of QC criteria**

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06/17/15 10:22

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	PB292	1	-1	VOABFBAQ							Y	EME		
VSTD050P17A -4	P1455	1	1	P826A08							Y			
LCSA WG164966-1	56	1	2								Y			
VBLKA	57	1	3								N			
VBLKB	58	1	4								N			
VBLKC -2	59	1	5								Y			
MeOH BLK -5	60	1	6								Y			800uL→40mL ~~1SST~~ 06/16/15 REC
TCLPBLK -6	61	20	7		X		X				Y			2mL→40mL
SPLPBLK -7	62	5	8		X		1312				Y			8mL→40mL
SI3768-1 A	63	1	9		X			X			Y		L2	
↓ -2 B	64	1	10					↓			Y		Z	
SI4189-2 A	65	1	11						X		Y		L2	
↓ -1 A	66	1	12								Y		L2	
SI3916-1DL C	67	20	13				X				Y			2mL→40mL 1SST no target hits
↓ -2DL	68	20	14								Y			
SI4051-2DL	69	20	15								Y			
~~SI3862-1DL~~ SI3862-6DL	70	5	16		X		1312				Y			8mL→40mL
SI3862-7DL	71	5	17								Y			
SI3989-2DL2 D	72	1	18	06/17/15	X	X		X			Y			800uL→40mL
SI3942-1DL D	73	1	19								Y			↓ 1SST
SI3862-6MS -8	74	5	20		X		1312		X		N			8mL→40mL not spiked
↓ -6MSD -9	75	5	21								N			↓ 20:16
Rinse	76	1	22								N			
Rinse	77	1	23								N			
Rinse	78	1	24								N			
Rinse	79	1	25								N			

STANDARD	CODE
BFB	V9879
CAL. STD.	V9897 V9899
LCS/MS MIX	V9900
EXTRAS MIX	V9898

STANDARD	CODE
IS MIX	V9901
SS MIX	V9885

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS546

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0000078

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06-18-15/8:26

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB ③	DB293	1	-1	V0ABFBAQ							Y	EME		
VSTD050P18A ④	P1480	1	1	P826A08							Y			
LCS A [W0165021] ①	81	1	2								Y			
VBLK A	82	1	3								N			
↓ B	83	1	4								N			
↓ C ②	84	1	5								Y			MeCl2 ~½ Pak
TCLP BLK(061815) ⑤ A	85	20	6								Y		~~<2~~ [illegible]	
SI3927-1 A	86	1	7		X			X			Y		<2	
↓ -2 A	87	1	8					↓			Y		Z	
SI4226-4 A	88	1	9						X		Y		<2	
SI4058-2RA B	89	1	10					X			Y		<2	
SI4219-1DL A	90	20	11				X		X		Y			
↓ -2DL A	91	20	12				↓		↓		Y			ISS↑ no 4,7,5 > PQL
↓ -3DL A	92	20	13				↓		↓		Y			
SI4058-1DL C	93	20	14			[illegible]		X			Y		<2	
SI4226-3 A	94	1	15						X		Y		<2	
SI4058-1RA2 C	95	1	16					X			Y		<2	
SI3862-6MS ⑥ B	96	5	17				3.2		X		Y			
↓ -6MSD ⑦ B	97	5	18				↓		↓		Y			ISS↑
Rinse	98	1	19								N			
Rinse	99	1	20								N			
LOD@0.75 A	P1500	1	21											
↓ B	01	1	22											
LOD@0.5 A	02	1	23											
↓ B	03	1	24											19:39
Rinse x2	↓ 04-05	↓	25-26								N			

STANDARD	CODE
BFB	V9879
CAL. STD.	V9897, V9899
LCS/MS MIX	V9900
EXTRAS MIX	V9898

STANDARD	CODE
IS MIX	V9901
SS MIX	V9885

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS546

VOA-024 – Revision 1 – 05/16/2014

(F)

KATAHDIN ANALYTICAL SERVICES, INC.
VOLATILE ~~TCLP~~ SPLP EXTRACTION BENCH SHEET FOR SPLP - BLK

Dry Weight Determination 100% ✓ <0.5%_____ %Wet Solids_____

_____Refer to non-volatile TCLP extraction sheet, page #_____ for _____-_____

Sample description: Baked Sand Homogeneous ✓ Non-homogeneous_____

1)	Weight Container 1 + Residue	_____g	7)	Weight of Filter	_____g
2)	Weight Container 1 + Waste	_____g	8)	Wt of Filter and Wet Solid	_____g
3)	Weight of Waste ((2) - (1))	_____g	9)	Wt of Wet Solid Phase ((8) - (7))	_____g
4)	Weight of Container 2	_____g	10)	%Wet Solids (100*(9)/(3))	_____
5)	Weight of Container 2 and Filtrate	_____g	11)	Wt of Filter + Solid Phase Dry	_____g
6)	Wt(g)/Vol(mL) of Filtrate ((5) - (4))	___/___	12)	Wt of Solid Phase Dry ((11) - (7))	_____g
			13)	%Dry Solids (100*(12)/(3))	_____

Analyst EME Date 061615

Extraction Fluid Preparation and pH Check Fluid #1 Prepared Today_____ (Complete Prep Info Below)

Date prepared (if previously prepared) _____ Refer to Prep Info on Page_____

_____mL glacial acetic acid, manuf./lot #_____, added to 500 mL reagent water; _____mL ____N NaOH, manuf./lot #_____ added, then solution diluted to 1 L with reagent water.

Analyst EME Date 061615 pH of Fluid Today 8.05 Extraction Fluid Batch # DI, H_2O

Extract Use Filter Paper Lot #: 102807-5057

____ <0.5% Solids (Filter adequate sample volume) _____mL Filtered.
____ 100% Solids
10 g of Waste added to 200 mL of fluid (fluid volume = 20 times wt of solid sample)
____ Free Liquid present (See Equation A for amount of waste to filter)

(A) X = Desired weight of solid phase on filter * 100/ (%Wet Solid)

1)	Weight Container 1 + Waste	_____g
2)	Weight Container 1 + Residue	_____g
3)	Weight of Waste Charged to ZHE ((1) - (2), or weighed directly into vessel)	_____g
4)	Weight of Pre-extraction Collection Device	_____g
5)	Weight of Device and Filtrate	_____g
6)	Weight ((5) - (4))/Volume (mL) of Filtrate	6a_____/_____6b
7)	_____g of Solid Phase was added to 8)_____mL of Fluid #1. ((3) - (6a)) (20 * (7a))	

Pressure before Tumbling 40 Pressure after Tumbling: 40
Time Started Tumbling 1630 Time Stopped 1130 Hours Extracted 19
Room Temp @ Start 21.2 Room Temp @ End 21.4

Was pre-extracted filtrate recombined with extract _____YES _____NO
If "NO" enter volume of filtrate (6) _____
Amount of Fluid (8) _____

Analyst EME Date 061615 Rev 6/08

(B)

KATAHDIN ANALYTICAL SERVICES, INC.
VOLATILE TCLP EXTRACTION BENCH SHEET FOR 57 3862-6

Dry Weight Determination 100%_____ <0.5%_____ %Wet Solids ✓

_____Refer to non-volatile TCLP extraction sheet, page #_____ for _____-_____

Sample description: Oily Sand Homogeneous_____ Non-homogeneous ✓

1)	Weight Container 1 + Residue	_____g	7)	Weight of Filter	_____g
2)	Weight Container 1 + Waste	_____g	8)	Wt of Filter and Wet Solid	_____g
3)	Weight of Waste ((2) - (1))	_____g	9)	Wt of Wet Solid Phase ((8) - (7))	_____g
4)	Weight of Container 2	_____g	10)	%Wet Solids (100*(9)/(3))	_____
5)	Weight of Container 2 and Filtrate	_____g	11)	Wt of Filter + Solid Phase Dry	_____g
6)	Wt(g)/Vol(mL) of Filtrate ((5) - (4))	____/____	12)	Wt of Solid Phase Dry ((11) - (7))	_____g
			13)	%Dry Solids (100*(12)/(3))	_____

Analyst EME Date 061615

Extraction Fluid Preparation and pH Check Fluid #1 Prepared Today_____ (Complete Prep Info Below)

Date prepared (if previously prepared) _____ Refer to Prep Info on Page_____

_____mL glacial acetic acid, manuf./lot #_____, added to 500 mL reagent water; _____mL ____N NaOH, manuf./lot #_____ added, then solution diluted to 1 L with reagent water.

Analyst EME Date 061615 pH of Fluid Today 8.05 Extraction Fluid Batch # DI, H2O

Extract Use

Filter Paper Lot #: K2807-5057

____ <0.5% Solids (Filter adequate sample volume) _____mL Filtered.

____ 100% Solids

10 g of Waste added to 200 mL of fluid (fluid volume = 20 times wt of solid sample)

____ Free Liquid present (See Equation A for amount of waste to filter)

(A) X = Desired weight of solid phase on filter * 100/ (%Wet Solid)

1)	Weight Container 1 + Waste	_____g
2)	Weight Container 1 + Residue	_____g
3)	Weight of Waste Charged to ZHE ((1) - (2), or weighed directly into vessel)	_____g
4)	Weight of Pre-extraction Collection Device	_____g
5)	Weight of Device and Filtrate	_____g
6)	Weight ((5) - (4))/Volume (mL) of Filtrate	6a_____/_____6b
7)	_____g of Solid Phase was added to 8)_____mL of Fluid #1. ((3) - (6a)) (20 * (7a))	

Pressure before Tumbling 40 Pressure after Tumbling: 40

Time Started Tumbling 1630 Time Stopped 1130 Hours Extracted 19

Room Temp @ Start 21.2 Room Temp @ End 21.4

Was pre-extracted filtrate recombined with extract _____YES _____NO

If "NO" enter volume of filtrate (6) _____

Amount of Fluid (8) _____

Analyst EME Date 061615 Rev 6/08

KATAHDIN ANALYTICAL SERVICES, INC.
VOLATILE TCLP EXTRACTION BENCH SHEET FOR 513862 - 7

Dry Weight Determination 100%_____ <0.5%_____ %Wet Solids ✓

_____Refer to non-volatile TCLP extraction sheet, page #_____ for _____-_____

Sample description:_____Homogeneous_____ Non-homogeneous ✓

1)	Weight Container 1 + Residue	_____g	7)	Weight of Filter	_____g
2)	Weight Container 1 + Waste	_____g	8)	Wt of Filter and Wet Solid	_____g
3)	Weight of Waste ((2) - (1))	_____g	9)	Wt of Wet Solid Phase ((8) - (7))	_____g
4)	Weight of Container 2	_____g	10)	%Wet Solids (100*(9)/(3))	_____
5)	Weight of Container 2 and Filtrate	_____g	11)	Wt of Filter + Solid Phase Dry	_____g
6)	Wt(g)/Vol(mL) of Filtrate ((5) - (4))	___/___	12)	Wt of Solid Phase Dry ((11) - (7))	_____g
			13)	%Dry Solids (100*(12)/(3))	_____

Analyst EME Date 061615

Extraction Fluid Preparation and pH Check Fluid #1 Prepared Today_____ (Complete Prep Info Below)

Date prepared (if previously prepared) _____ Refer to Prep Info on Page_____

_____mL glacial acetic acid, manuf./lot #_____, added to 500 mL reagent water; _____mL ____N NaOH, manuf./lot #_____ added, then solution diluted to 1 L with reagent water.

Analyst EME Date 061615 pH of Fluid Today 8.05 Extraction Fluid Batch # DI H2O

Extract Use

Filter Paper Lot #: 102807-5057

____ <0.5% Solids (Filter adequate sample volume) _____mL Filtered.

____ 100% Solids

10 g of Waste added to 200 mL of fluid (fluid volume = 20 times wt of solid sample)

____ Free Liquid present (See Equation A for amount of waste to filter)

(A) X = Desired weight of solid phase on filter * 100/ (%Wet Solid)

1)	Weight Container 1 + Waste	_____g
2)	Weight Container 1 + Residue	_____g
3)	Weight of Waste Charged to ZHE ((1) - (2), or weighed directly into vessel)	_____g
4)	Weight of Pre-extraction Collection Device	_____g
5)	Weight of Device and Filtrate	_____g
6)	Weight ((5) - (4))/Volume (mL) of Filtrate	6a_____/_____6b
7)	_____g of Solid Phase was added to 8)_____mL of Fluid #1. ((3) - (6a)) (20 * (7a))	

Pressure before Tumbling 40 Pressure after Tumbling: 40

Time Started Tumbling 1630 Time Stopped 1130 Hours Extracted 19

Room Temp @ Start 21.2 Room Temp @ End 21.4

Was pre-extracted filtrate recombined with extract _____YES _____NO

If "NO" enter volume of filtrate (6) _____

Amount of Fluid (8) _____

Analyst EME Date 061615 Rev 6/08

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06/16/15 10:02

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -10	PB291	1	-1	VOABFBAQ							Y	RECEIVED		
VSTD050P16A	P1429	1	1	P826A08							Y	06/15/15 REC		W6164916-4
VSTD020P16A	30	1	2								Y			-3
VSTD005P16A	31	1	3								Y			-2
VSTD001P16A	32	1	4								Y			Curve -1
VSTD200P16A	33	1	5								Y			Good -6
VSTD100P16A	34	1	6								Y			-5
LCSA -8	35	1	7								Y			IND -7
VBLKA	36	1	8								N			
VBLKB	37	1	9								N			
VBLKC -9	38	1	10								Y			
SI4107-6RA E	39	1	11		X				X		Y		<2	
SI4056-1 A	40	1	12					X			Y			
L -2 A	41	1	13							06/17/15 REC	Y			
SI4058-1DL	42	26	14								Y			2mL→40mL CCl4 not PCL, narrate Chlorpicrin interfere
SI4056-3 D	43	1	15								Y			
-4 A	44	1	16								Y			
-5 A	45	1	17								Y			
-6 A	46	1	18								Y			
-7 A	47	1	19								Y			
-8 B	48	1	20								Y			
SI4107-5MS -11 B	49	1	21						X		Y			
L -5MSD -12 C	50	1	22								Y			20:37
Rinse	51	1	23								N		Z	
Rinse	52	1	24								N			
Rinse x2	53-54	1	25-26								N		Z	

STANDARD	CODE
BFB	V9879
CAL. STD.	V9897 V9899
LCS/MS MIX	V9900
EXTRAS MIX	V9898

STANDARD	CODE
IS MIX	V9901
SS MIX	V9885

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS546

Katahdin Analytical Services 0000155

SIM SEMIVOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	2MN	#	FLO	#	PYR	#
SITE4TS-EB	SI3862-3		74.5		81.7		78.8	
Method Blank Sample	WG164250-1		67.1		74.5		86.7	
Laboratory Control S	WG164250-2		76.1		78.0		78.4	

		QC Limits
2MN	2-METHYLNAPHTHALENE-D10	43-92
FLO	FLUORENE-D10	29-101
PYR	PYRENE-D10	53-166

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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sales@katahdinlab.com

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** SL
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	2MN	#	FLO	#	PYR	#
SITE4TS-FB	SI3862-1DL		0.00	D	0.00	D	0.00	D
SITE4TS-XX	SI3862-2DL		0.00	D	0.00	D	0.00	D
Method Blank Sample	WG164181-1		76.1		84.1		81.1	
Laboratory Control S	WG164181-2		91.0		78.4		63.4	

		QC Limits
PYR	PYRENE-D10	31-128
FLO	FLUORENE-D10	20-96
2MN	2-METHYLNAPHTHALENE-D10	19-94

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : N6425.D
Instrument ID : GCMS-N
Matrix : SL

SDG : SI3862
Lab Sample ID : WG164181-1
Date Extracted : 05-JUN-15
Date Analyzed : 08-JUN-15
Time Analyzed : 09:45

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164181-2	N6426.D	06/08/15	10:13
SITE4TS-FB	SI3862-1DL	N6429.D	06/08/15	11:36
SITE4TS-XX	SI3862-2DL	N6430.D	06/08/15	12:04

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : N6432.D
Instrument ID : GCMS-N
Matrix : AQ

SDG : SI3862
Lab Sample ID : WG164250-1
Date Extracted : 05-JUN-15
Date Analyzed : 08-JUN-15
Time Analyzed : 12:59

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164250-2	N6433.D	06/08/15	13:27
SITE4TS-EB	SI3862-3	N6434.D	06/08/15	13:54

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164181-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: N6425.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164181

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: SL
% Solids: NA
Report Date: 09-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	10.	ug/Kgdrywt	1	20	20.	2.6	10.
Acenaphthylene	U	10.	ug/Kgdrywt	1	20	20.	1.2	10.
Acenaphthene	U	10.	ug/Kgdrywt	1	20	20.	1.5	10.
Fluorene	U	10.	ug/Kgdrywt	1	20	20.	3.2	10.
Phenanthrene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.2	10.
Fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Pyrene	U	10.	ug/Kgdrywt	1	20	20.	2.1	10.
Benzo(a)anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.9	10.
Chrysene	U	10.	ug/Kgdrywt	1	20	20.	1.7	10.
Benzo(b)Fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	2.4	10.
Benzo(k)fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	3.1	10.
Benzo(a)pyrene	U	10.	ug/Kgdrywt	1	20	20.	3.3	10.
Indeno(1,2,3-cd)pyrene	U	10.	ug/Kgdrywt	1	20	20.	1.9	10.
Dibenzo(a,h)anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Benzo(g,h,i)perylene	U	10.	ug/Kgdrywt	1	20	20.	2.0	10.
2-Methylnaphthalene-D10		76.1	%					
Fluorene-D10		84.1	%					
Pyrene-D10		81.1	%					

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164250-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: N6432.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164250

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 09-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
Acenaphthylene	U	0.10	ug/L	1	.2	0.20	0.054	0.10
Acenaphthene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
Fluorene	U	0.10	ug/L	1	.2	0.20	0.061	0.10
Phenanthrene	U	0.10	ug/L	1	.2	0.20	0.051	0.10
Anthracene	U	0.10	ug/L	1	.2	0.20	0.044	0.10
Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Pyrene	U	0.10	ug/L	1	.2	0.20	0.059	0.10
Benzo(a)anthracene	U	0.10	ug/L	1	.2	0.20	0.046	0.10
Chrysene	U	0.10	ug/L	1	.2	0.20	0.036	0.10
Benzo(b)Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.089	0.10
Benzo(k)fluoranthene	U	0.10	ug/L	1	.2	0.20	0.049	0.10
Benzo(a)pyrene	U	0.10	ug/L	1	.2	0.20	0.066	0.10
Indeno(1,2,3-cd)pyrene	U	0.10	ug/L	1	.2	0.20	0.052	0.10
Dibenzo(a,h)anthracene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
Benzo(g,h,i)perylene	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2-Methylnaphthalene-D10		67.1	%					
Fluorene-D10		74.5	%					
pyrene-d10		86.7	%					

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LCS Recovery Report

Client:
Lab ID: WG164181-2
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: N6426.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164181

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: SL
% Solids: NA
Report Date: 09-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Naphthalene	75.3	66.7	50.2	ug/Kgdrywt	10-129
Acenaphthylene	68.2	66.7	45.5	ug/Kgdrywt	25-94
Acenaphthene	72.0	66.7	48.0	ug/Kgdrywt	33-98
Fluorene	73.5	66.7	49.0	ug/Kgdrywt	40-92
Phenanthrene	73.5	66.7	49.0	ug/Kgdrywt	46-96
Anthracene	77.8	66.7	51.9	ug/Kgdrywt	34-96
Fluoranthene	82.2	66.7	54.8	ug/Kgdrywt	38-116
Pyrene	58.3	66.7	38.9	ug/Kgdrywt	35-111
Benzo(a)anthracene	80.6	66.7	53.8	ug/Kgdrywt	48-100
Chrysene	78.0	66.7	52.0	ug/Kgdrywt	46-101
Benzo(b)Fluoranthene	76.3	66.7	50.9	ug/Kgdrywt	53-100
Benzo(k)fluoranthene	71.5	66.7	47.7	ug/Kgdrywt	49-96
Benzo(a)pyrene	68.7	66.7	45.8	ug/Kgdrywt	61-101
Indeno(1,2,3-cd)pyrene	86.6	66.7	57.8	ug/Kgdrywt	50-105
Dibenzo(a,h)anthracene	95.0	66.7	63.4	ug/Kgdrywt	55-105
Benzo(g,h,i)perylene	79.6	66.7	53.1	ug/Kgdrywt	53-103
2-Methylnaphthalene-D10	91.0				19-94
Fluorene-D10	78.4				20-96
Pyrene-D10	63.4				31-128

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164250-2
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: N6433.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164250

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 09-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Naphthalene	75.5	2.00	1.51	ug/L	42-96
Acenaphthylene	69.0	2.00	1.38	ug/L	17-92
Acenaphthene	72.0	2.00	1.44	ug/L	34-92
Fluorene	75.5	2.00	1.51	ug/L	22-112
Phenanthrene	77.0	2.00	1.54	ug/L	60-107
Anthracene	83.0	2.00	1.66	ug/L	59-110
Fluoranthene	73.0	2.00	1.46	ug/L	69-119
Pyrene	73.5	2.00	1.47	ug/L	36-118
Benzo(a)anthracene	82.0	2.00	1.64	ug/L	57-107
Chrysene	82.0	2.00	1.64	ug/L	62-119
Benzo(b)Fluoranthene	72.5	2.00	1.45	ug/L	55-111
Benzo(k)fluoranthene	81.0	2.00	1.62	ug/L	47-107
Benzo(a)pyrene	70.0	2.00	1.40	ug/L	53-99
Indeno(1,2,3-cd)pyrene	72.5	2.00	1.45	ug/L	60-110
Dibenzo(a,h)anthracene	83.0	2.00	1.66	ug/L	62-115
Benzo(g,h,i)perylene	59.0	2.00	1.18	ug/L	55-103
2-Methylnaphthalene-D10	76.1				43-92
Fluorene-D10	78.0				29-101
pyrene-d10	78.4				53-166

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Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : ND946.D
Instrument ID : GCMS-N

SDG : SI3862
Date Analyzed : 05-JUN-15
Time Analyzed : 11:11

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	35.3		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	50.5		
70	Less than 2.0% of mass 69	0.3	0.51	1
127	40.0 - 60.0% of mass 198	55.6		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.7		
275	10.0 - 30.0% of mass 198	23.9		
365	1.0 - 100.0% of mass 198	2.5		
441	0.0 - 100.0% of mass 443	12.6	81.66	2
442	40.0 - 100.0% of mass 198	78.7		
443	17.0 - 23.0% of mass 442	15.5	19.66	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG164187-4	N6392.D	06/05/15	11:28
Initial Calibration	WG164187-2	N6393.D	06/05/15	11:56
Initial Calibration	WG164187-3	N6394.D	06/05/15	12:23
Initial Calibration	WG164187-5	N6395.D	06/05/15	12:50
Initial Calibration	WG164187-6	N6396.D	06/05/15	13:18
Initial Calibration	WG164187-7	N6397.D	06/05/15	13:54
Independent Source	WG164187-8	N6398.D	06/05/15	14:21

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : ND947.D
Instrument ID : GCMS-N

SDG : SI3862
Date Analyzed : 08-JUN-15
Time Analyzed : 08:41

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	37.2		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	53.4		
70	Less than 2.0% of mass 69	0.2	0.36	1
127	40.0 - 60.0% of mass 198	54.9		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.8		
275	10.0 - 30.0% of mass 198	23.8		
365	1.0 - 100.0% of mass 198	2.6		
441	0.0 - 100.0% of mass 443	12.4	80.70	2
442	40.0 - 100.0% of mass 198	77.9		
443	17.0 - 23.0% of mass 442	15.4	19.78	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG164347-2	N6424.D	06/08/15	09:17
Method Blank Sample	WG164181-1	N6425.D	06/08/15	09:45
Laboratory Control S	WG164181-2	N6426.D	06/08/15	10:13
SITE4TS-FB	SI3862-1DL	N6429.D	06/08/15	11:36
SITE4TS-XX	SI3862-2DL	N6430.D	06/08/15	12:04
Method Blank Sample	WG164250-1	N6432.D	06/08/15	12:59
Laboratory Control S	WG164250-2	N6433.D	06/08/15	13:27
SITE4TS-EB	SI3862-3	N6434.D	06/08/15	13:54

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164187-4
Lab File ID : N6392.D

SDG: SI3862
Analytical Date: 06/05/15 11:28
Instrument ID: GCMS-N

		1,4-DICHLOROBENZENE-D4				NAPHTHALENE-D8				ACENAPHTHENE-D10			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	48698		4.54		146447		5.91		78111		7.97	
	Upper Limit	97396		5.04		292894		6.41		156222		8.47	
	Lower Limit	24349		4.04		73223.5		5.41		39055.5		7.47	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG164347-2	50523		4.53		148281		5.90		82754		7.97	
Method Blank Sample	WG164181-1	53994		4.54		170313		5.91		95778		7.97	
Laboratory Control S	WG164181-2	56980		4.54		180120		5.90		104786		7.96	
SITE4TS-FB	SI3862-1DL	58218		4.54		187319		5.91		111224		7.97	
SITE4TS-XX	SI3862-2DL	66710		4.53		211698		5.91		122786		7.97	
Method Blank Sample	WG164250-1	57789		4.53		174476		5.91		100591		7.97	
Laboratory Control S	WG164250-2	60806		4.53		174577		5.90		102120		7.97	
SITE4TS-EB	SI3862-3	64616		4.53		186472		5.91		109741		7.97	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164187-4
Lab File ID : N6392.D

SDG: SI3862
Analytical Date: 06/05/15 11:28
Instrument ID: GCMS-N

		PHENANTHRENE-D10			CHRYSENE-D12			PERYLENE-D12		
		Area	#	RT #	Area	#	RT #	Area	#	RT #
	Std .	109179		9.76	74082		13.16	47165		15.99
	Upper Limit	218358		10.26	148164		13.66	94330		16.49
	Lower Limit	54589.5		9.26	37041		12.66	23582.5		15.49
Client Sample ID	Lab Sample ID									
Continuing Calibrati	WG164347-2	122641		9.76	92517		13.16	71823		15.97
Method Blank Sample	WG164181-1	148057		9.77	111232		13.16	70638		15.97
Laboratory Control S	WG164181-2	161204		9.76	140202		13.15	103005	*	15.96
SITE4TS-FB	SI3862-1DL	159238		9.76	76298		13.16	34702		15.97
SITE4TS-XX	SI3862-2DL	165642		9.77	70444		13.16	36907		15.97
Method Blank Sample	WG164250-1	138831		9.77	66713		13.17	45824		15.97
Laboratory Control S	WG164250-2	151111		9.76	88438		13.15	53909		15.97
SITE4TS-EB	SI3862-3	159666		9.77	100496		13.16	68069		15.97

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

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 Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes 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.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native 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, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: N6429.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164181

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: SL
% Solids: 93.
Report Date: 09-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		1100	ug/Kgdrywt	10	20	1000	130	510
Acenaphthylene	U	510	ug/Kgdrywt	10	20	1000	61.	510
Acenaphthene	J	910	ug/Kgdrywt	10	20	1000	76.	510
Fluorene		1400	ug/Kgdrywt	10	20	1000	160	510
Phenanthrene		4400	ug/Kgdrywt	10	20	1000	92.	510
Anthracene		2800	ug/Kgdrywt	10	20	1000	61.	510
Fluoranthene	J	1000	ug/Kgdrywt	10	20	1000	92.	510
Pyrene		15000	ug/Kgdrywt	10	20	1000	110	510
Benzo(a)anthracene		2600	ug/Kgdrywt	10	20	1000	97.	510
Chrysene		4200	ug/Kgdrywt	10	20	1000	86.	510
Benzo(b)Fluoranthene	J	930	ug/Kgdrywt	10	20	1000	120	510
Benzo(k)fluoranthene	U	510	ug/Kgdrywt	10	20	1000	160	510
Benzo(a)pyrene		1800	ug/Kgdrywt	10	20	1000	170	510
Indeno(1,2,3-cd)pyrene	J	310	ug/Kgdrywt	10	20	1000	97.	510
Dibenzo(a,h)anthracene	J	270	ug/Kgdrywt	10	20	1000	92.	510
Benzo(g,h,i)perylene	J	1000	ug/Kgdrywt	10	20	1000	100	510
2-Methylnaphthalene-D10	D	0.00	%					
Fluorene-D10	D	0.00	%					
Pyrene-D10	D	0.00	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: N6430.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164181

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: SL
% Solids: 92.
Report Date: 09-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		1200	ug/Kgdrywt	10	20	1100	140	540
Acenaphthylene	U	540	ug/Kgdrywt	10	20	1100	65.	540
Acenaphthene	J	960	ug/Kgdrywt	10	20	1100	81.	540
Fluorene		1500	ug/Kgdrywt	10	20	1100	170	540
Phenanthrene		4200	ug/Kgdrywt	10	20	1100	98.	540
Anthracene		1900	ug/Kgdrywt	10	20	1100	65.	540
Fluoranthene	J	1100	ug/Kgdrywt	10	20	1100	98.	540
Pyrene		17000	ug/Kgdrywt	10	20	1100	110	540
Benzo(a)anthracene		2900	ug/Kgdrywt	10	20	1100	100	540
Chrysene		4000	ug/Kgdrywt	10	20	1100	92.	540
Benzo(b)Fluoranthene	J	840	ug/Kgdrywt	10	20	1100	130	540
Benzo(k)fluoranthene	U	540	ug/Kgdrywt	10	20	1100	170	540
Benzo(a)pyrene		1700	ug/Kgdrywt	10	20	1100	180	540
Indeno(1,2,3-cd)pyrene	J	340	ug/Kgdrywt	10	20	1100	100	540
Dibenzo(a,h)anthracene	J	230	ug/Kgdrywt	10	20	1100	98.	540
Benzo(g,h,i)perylene	J	860	ug/Kgdrywt	10	20	1100	110	540
2-Methylnaphthalene-D10	D	0.00	%					
Fluorene-D10	D	0.00	%					
Pyrene-D10	D	0.00	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-3
Client ID: SITE4TS-EB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: N6434.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164250

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 09-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	0.099	ug/L	1	.2	0.20	0.063	0.099
Acenaphthylene	U	0.099	ug/L	1	.2	0.20	0.053	0.099
Acenaphthene	U	0.099	ug/L	1	.2	0.20	0.063	0.099
Fluorene	U	0.099	ug/L	1	.2	0.20	0.060	0.099
Phenanthrene	U	0.099	ug/L	1	.2	0.20	0.050	0.099
Anthracene	U	0.099	ug/L	1	.2	0.20	0.044	0.099
Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.072	0.099
Pyrene	U	0.099	ug/L	1	.2	0.20	0.058	0.099
Benzo(a)anthracene	U	0.099	ug/L	1	.2	0.20	0.046	0.099
Chrysene	U	0.099	ug/L	1	.2	0.20	0.036	0.099
Benzo(b)Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.088	0.099
Benzo(k)fluoranthene	U	0.099	ug/L	1	.2	0.20	0.048	0.099
Benzo(a)pyrene	U	0.099	ug/L	1	.2	0.20	0.065	0.099
Indeno(1,2,3-cd)pyrene	J	0.081	ug/L	1	.2	0.20	0.051	0.099
Dibenzo(a,h)anthracene	U	0.099	ug/L	1	.2	0.20	0.069	0.099
Benzo(g,h,i)perylene	J	0.082	ug/L	1	.2	0.20	0.064	0.099
2-Methylnaphthalene-D10		74.5	%					
Fluorene-D10		81.7	%					
pyrene-d10		78.8	%					

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Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-N
Lab File IDs : N6393.D N6394.D N6392.D N6395.D N6396.D N6397.D **Column ID:**
Calibration Date(s): 05-JUN-15 11:28 05-JUN-15 13:54

	0.200000(Level 1	0.500000(Level 2	1.0000 Level 3	3.0000 Level 4	7.0000 Level 5	10.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Naphthalene	0.94693	0.99217	1.00383	0.98243	0.90376	0.84536	AVG		0.94575		6.46931	15.00000	O
Acenaphthylene	1.65471	1.71811	1.79549	1.72285	1.69520	1.60580	AVG		1.69869		3.80652	15.00000	O
Acenaphthene	1.06761	1.10401	1.11741	1.08398	1.09097	0.99594	AVG		1.07666		3.99820	15.00000	O
Fluorene	1.16631	1.16414	1.26852	1.22661	1.20387	1.15320	AVG		1.19711		3.73202	15.00000	O
Phenanthrene	1.05251	1.07407	1.13064	1.05309	1.05622	1.01203	AVG		1.06309		3.65535	15.00000	O
Anthracene	1.12854	1.07273	1.11514	1.07039	1.07225	1.00328	AVG		1.07705		4.07478	15.00000	O
Fluoranthene	1.09319	1.03376	1.13932	1.09596	1.13667	1.03291	AVG		1.08864		4.32168	15.00000	O
Pyrene	2.15102	1.99815	1.80146	1.75384	1.54217	1.46725	AVG		1.78565		14.61585	15.00000	O
Benzo(a)anthracene	0.98404	1.00064	1.04724	1.01158	1.03497	0.99563	AVG		1.01235		2.39852	15.00000	O
Chrysene	26145	48292	115504	351816	976758	1580779	LNR	-0.25656	0.99061		0.99769	0.99000	O
Benzo(b)fluoranthene	1.24381	1.09769	1.25045	1.15156	1.29505	1.23721	AVG		1.21263		6.03087	15.00000	O
Benzo(k)fluoranthene	20139	40770	95172	289233	820399	1329974	LNR	-0.24135	1.36508		0.99686	0.99000	O
Benzo(a)pyrene	1.28595	1.13162	1.10326	1.06166	1.10044	1.05904	AVG		1.12366		7.48582	15.00000	O
Indeno(1,2,3-cd)pyrene	0.85824	0.78022	0.76299	0.75240	0.79701	0.76105	AVG		0.78532		4.98130	15.00000	O
Dibenzo(a,h)anthracene	0.54145	0.54237	0.54037	0.54163	0.58588	0.56496	AVG		0.55278		3.39348	15.00000	O
Benzo(g,h,i)perylene	0.93508	0.83332	0.78628	0.75375	0.74962	0.69782	AVG		0.79265		10.45517	15.00000	O
2-Methylnaphthalene-D10	1.00905	1.02883	1.07957	1.01453	0.98828	0.92286	AVG		1.00719		5.10795	15.00000	
Fluorene-D10	0.87129	0.85247	0.92818	0.88195	0.88446	0.84062	AVG		0.87649		3.48128	15.00000	
Pyrene-D10	1.41829	1.37689	1.23514	1.23225	1.07061	1.03060	AVG		1.22730		12.73725	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-n.i\N060515.b\N6398.D
Report Date: 08-Jun-2015 14:36

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG164187-8
Level: LOW
Data Type: MS DATA
SpikeList File: SIM_IND_CHK.spk
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-n.i\N060515.b\NSPSIM44.m
Misc Info: WG164187,WG164187,WG164187-4,SI3862-3

Client SDG: 021497
Fraction: SV

Operator: JCG
SampleType: INDCHECK
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
2 1,4-Dioxane	2.00	2.01	100.59	80-120
3 Benzaldehyde	2.00	1.38	68.86*	80-120
4 Phenol	2.00	2.05	102.74	80-120
5 Bis(2-Chloroethyl)	2.00	1.73	86.74	80-120
6 2-Chlorophenol	2.00	1.96	97.85	80-120
7 1,3-Dichlorobenzen	2.00	2.05	102.38	80-120
9 1,4-Dichlorobenzen	2.00	2.15	107.63	80-120
10 1,2-Dichlorobenzen	2.00	2.08	103.94	80-120
11 2,2'-Oxybis(1-chlo	2.00	1.76	88.10	80-120
12 2-Methylphenol	2.00	2.20	110.29	80-120
13 Acetophenone	2.00	2.04	102.21	80-120
14 N-Nitroso-di-n-pro	2.00	1.90	94.81	80-120
16 Hexachloroethane	2.00	2.08	104.11	80-120
15 3&4-Methylphenol	2.00	1.82	90.83	80-120
17 Nitrobenzene	2.00	2.16	108.14	80-120
18 Isophorone	2.00	2.08	104.13	80-120
19 2-Nitrophenol	2.00	1.87	93.38	80-120
20 2,4-Dimethylphenol	2.00	1.80	89.96	80-120
21 bis(2-Chloroethoxy	2.00	1.99	99.58	80-120
22 2,4-Dichlorophenol	2.00	1.85	92.49	80-120
23 1,2,4-Trichloroben	2.00	2.04	101.88	80-120
25 Naphthalene	2.00	2.07	103.66	80-120
26 4-Chloroaniline	2.00	1.88	94.15	80-120
27 Hexachlorobutadien	2.00	2.04	102.12	80-120
28 Caprolactam	2.00	1.94	97.05	80-120
29 4-Chloro-3-Methylp	2.00	1.81	90.74	80-120
31 2-Methylnaphthalen	2.00	1.85	92.43	80-120
32 1-Methylnaphthalen	2.00	1.94	97.03	80-120
34 1,2,4,5-Tetrachlor	2.00	1.86	92.98	80-120
33 Hexachlorocyclopen	2.00	1.34	66.85*	80-120
36 2,4,6-Trichlorophe	2.00	1.75	87.60	80-120
37 2,4,5-Trichlorophe	2.00	1.83	91.52	80-120
39 2-Chloronaphthalen	2.00	1.85	92.72	80-120
38 1,1'-Biphenyl	2.00	1.93	96.49	80-120
40 2-Nitroaniline	2.00	1.91	95.36	80-120
41 Dimethyl Phthalate	2.00	1.88	93.80	80-120
43 Acenaphthylene	2.00	1.70	84.77	80-120
42 2,6-Dinitrotoluene	2.00	1.86	93.03	80-120
44 3-Nitroaniline	2.00	2.06	103.08	80-120
46 Acenaphthene	2.00	1.94	96.79	80-120

Data File: \\target_server\gg\chem\gcms-n.i\N060515.b\N6398.D
Report Date: 08-Jun-2015 14:36

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
47 2,4-Dinitrophenol	2.00	1.52	75.77*	80-120
48 Dibenzofuran	2.00	1.88	94.09	80-120
49 2,4-Dinitrotoluene	2.00	1.73	86.38	80-120
50 4-Nitrophenol	2.00	1.51	75.52*	80-120
51 2,3,4,6-Tetrachlor	2.00	1.60	79.76*	80-120
52 Diethylphthalate	2.00	1.97	98.60	80-120
54 Fluorene	2.00	1.88	94.00	80-120
56 4-Nitroaniline	2.00	2.26	112.82	80-120
57 4,6-Dinitro-2-Meth	2.00	1.67	83.40	80-120
58 N-Nitrosodiphenyla	2.00	1.52	76.12*	80-120
59 4-Bromophenyl-phen	2.00	1.91	95.45	80-120
60 Hexachlorobenzene	2.00	1.91	95.71	80-120
61 Atrazine	2.00	1.78	88.94	80-120
62 Pentachlorophenol	2.00	1.60	79.86*	80-120
64 Phenanthrene	2.00	1.90	94.87	80-120
65 Anthracene	2.00	1.94	97.05	80-120
66 Carbazole	2.00	1.89	94.38	80-120
67 Di-n-butylphthalat	2.00	2.04	102.21	80-120
68 Fluoranthene	2.00	1.96	97.75	80-120
70 Pyrene	2.00	1.95	97.43	80-120
71 Butylbenzylphthala	2.00	1.74	87.09	80-120
72 Benzo(a)anthracene	2.00	1.76	88.23	80-120
75 Chrysene	2.00	1.95	97.73	80-120
73 3,3'-Dichlorobenzi	2.00	1.80	89.90	80-120
76 bis(2-Ethylhexyl)p	2.00	1.59	79.51*	80-120
77 Di-n-octylphthalat	2.00	1.88	93.80	80-120
78 Benzo(b)fluoranthe	2.00	1.89	94.51	80-120
79 Benzo(k)fluoranthe	2.00	1.95	97.75	80-120
80 Benzo(a)pyrene	2.00	1.61	80.47	80-120
82 Indeno(1,2,3-cd)py	2.00	1.72	85.85	80-120
83 Dibenzo(a,h)anthra	2.00	1.69	84.68	80-120
84 Benzo(g,h,i)peryle	2.00	1.75	87.30	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 1,4-Dioxane-d8	2.00	0.000	*	10-93
$ 30 2-Methylnaphthale	2.00	0.000	*	43-92
$ 35 2,4-Dibromophenol	4.00	0.000	*	10-130
$ 53 Fluorene-D10	2.00	0.000	*	29-101
$ 69 Pyrene-D10	2.00	0.000	*	53-166

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164347-2
Analytical Date: 06/08/15 09:17
Lab File ID : N6424.D
Instrument ID: GCMS-N
Initial Calibration Date(s): 06/05/15 11:28 06/05/15 13:54
Column ID:

Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
25 Naphthalene	0.94575	0.99720	0.99720	0.010	5.44031	20.00000	Averaged
43 Acenaphthylene	1.69869	1.76398	1.76398	0.010	3.84306	20.00000	Averaged
46 Acenaphthene	1.07666	1.12238	1.12238	0.010	4.24706	20.01000	Averaged
54 Fluorene	1.19711	1.23881	1.23881	0.010	3.48391	20.00000	Averaged
64 Phenanthrene	1.06309	1.06571	1.06571	0.010	0.24639	20.00000	Averaged
65 Anthracene	1.07705	1.15273	1.15273	0.010	7.02620	20.00000	Averaged
68 Fluoranthene	1.08864	1.12071	1.12071	0.010	2.94677	20.01000	Averaged
70 Pyrene	1.78565	1.56347	1.56347	0.010	-12.44225	20.00000	Averaged
72 Benzo(a)anthracene	1.01235	1.03978	1.03978	0.010	2.70989	20.00000	Averaged
75 Chrysene	1.00000	1.09227	1.28534	0.010	9.22741	20.00000	Linear
78 Benzo(b)fluoranthene	1.21263	1.19777	1.19777	0.010	-1.22563	20.00000	Averaged
79 Benzo(k)fluoranthene	1.00000	0.91165	1.50805	0.010	-8.83466	20.00000	Linear
80 Benzo(a)pyrene	1.12366	1.07931	1.07931	0.010	-3.94714	20.01000	Averaged
82 Indeno(1,2,3-cd)pyrene	0.78532	0.80019	0.80019	0.010	1.89342	20.00000	Averaged
83 Dibenzo(a,h)anthracene	0.55278	0.58868	0.58868	0.010	6.49511	20.00000	Averaged
84 Benzo(g,h,i)perylene	0.79265	0.76916	0.76916	0.010	-2.96319	20.00000	Averaged
30 2-Methylnaphthalene-D10	1.00719	1.00673	1.00673	0.010	-0.04518	20.00000	Averaged
53 Fluorene-D10	0.87649	0.90391	0.90391	0.010	3.12823	20.00000	Averaged
69 Pyrene-D10	1.22730	1.09148	1.09148	0.010	-11.06607	20.00000	Averaged

*** = Compound out of QC criteria**

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5975B - N

DATE OF DFTPP INJECTION: 060515

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164187-1	50ng DFTPP	N0946	1	1	DFTPP SVM	2.0	JLG	OK
-4	SSTD1.00 N0605	N6392		2	NSPSIM44			✓
-2	0.2	93		3				✓
-3	0.5	94		4				✓
-5	3.0	95		5				✓
-6	7.0	96		6				✓
-7	10.	97		7				✓
-8	(ND)	98		8				OK
2550	WG164111-1	99		9				OK
	-2	N6400		10				OK
	SI3800-7DL	01	3	11				OK DL1:5 100/300
	-13RA	02	1	12				OK
	-6	03		13				OK
	-9	04		14				OK
	WG164181-3	05		15				OK
	-4	06		16				OK
	SI3800-10	07		17				OK DL1:4
	-15	08		18				OK
	-16	09		19				OK
	-3	10		20				OK
	-7	11		21				OK
	-28	12		22				OK
	-8	13		23				— DL1:10
	-22RA	14		24				OK
	-23RA	15		25				OK
	-33	16		26				OK
	-5	17		27				OK
	Hellv	18-23		28				—

STANDARD	CODE
DFTPP	52611
CAL. STD.	52595 52624
IS MIX	52615

REVIEWED AND APPROVED BY: _____
DATE: _____

SVOA-005 – Revision 1 – 03/01/2011

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5975B - N

DATE OF DFTPP INJECTION: 060815

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164347-1	50ng DFTPP	ND947	1	1	DFTPPSIM	2.0	JCL	ok
-2	SSTD1.00ND608	N6424		2	NSPSIM44			ok
3550	WG164181-1	25		3				~~1564~~ ok
	-2	26		4				ok 1564
	SI3862-1DL	27	100	5				– DL 1:10 (50/500)x2
	-2DL	28	100	6				–
	-1DL	29	10	7				ok 50/500
	-2DL	30	10	8				ok
–	MeOH	31	1	9				–
3510	WG164250-1	32		10				ok
	-2	33		11				ok
	SI3862-3	34		12				
3550	SI3800-8DL	35	5	13				50/250
	-10DL	36	4	14				100/400
	-11RE	37	1	15				
	-18	38		16				
	-19	39		17				
	-20	40		18				
	-21	41		19				
	-24	42		20				
	-32	43		21				
	-35	44		22				
	-36	45		23				
	-37	46		24				
	-34	47		25				

STANDARD	CODE
DFTPP	52611
CAL. STD.	52595 52624
IS MIX	52635

REVIEWED AND APPROVED BY: _____
DATE: _____

SVOA-005 – Revision 1 – 03/01/2011

S/S

SOV

KATAHDIN ANALYTICAL SERVICES, INC.

ORGANIC EXTRACTIONS LOG - SOIL SEMIVOLATILE

Extraction Method:	SW846 3550 (SONIC.) ✓	SW846 3540 (SOX)	SW846 3545 (ASE)	SW846 3580 (OIL / WIPES)
Analytical Method:	SW846 8270 ✓	OTHER		
Standards	Surrogate ID (1): SV 2717	Spike ID (1): SV 2716 (SIM)	Spike ID (3):	
	Surrogate ID (2):	Spike ID (2): SV 2715 (SV		
Solvents / Chemicals / Consumables	Solvent Lot # (Mecl2): DM824	Solvent Lot # (Acetone): DL474	Sodium Sulfate (granular) Lot # 27965001	
	Filter Paper Lot # (SON) P0009489	Filter Paper Lot # (KD) 96181511	Sodium Sulfate (powder) Lot # 27975002	
Misc.	Nitrogen Bath Temperature: 37°C	Sonicator Horns Tuned: 40%	Balance ID: Mettler PJ400	
Prep Start Time: 1047	Prep Stop Time: 1410	Sox Start Time: —	Sox End Time: —	

Ext. Date	Ext. Init.	Sample ID	Initial Weight (g)	Surr. Vol. (mL)	Spk. Vol. (mL)	Fraction NCS	Fraction SIM	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc. SV033	Comments
6-5-15	WAS	WG-164181-1 WG-164216-1	30.00	1mL	NA	✓	✓				6-5-15	JMS	1mL	B9	SIM-R320334
		WG-164181-2	29.97		1mL									B10	SV-320463
		-3	30.43											C1	MS SB3800-9
		-4	33.12											2	usd -9
		WG-164216-2	29.99			✓								3	
		-3	32.08										5mL	PP217 C8	MS SB3862-1
		-4	31.87											C9	usd -1

EX-008 – Revision 2 – 12/05/2013

QAEX287

0000012

Ext. Date	Ext. Init.	Sample ID	Initial Weight (g)	Surr. Vol. (mL)	Spk. Vol. (mL)	Fraction NCS	Fraction SIM	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc. ~~SV033~~ 30033	Comments
6-5-15	WAS	SB3800-3 c	31.50	1mL	NA		✓				6-5-15	TMS	1mL	C4	
		-6	30.90											5	
		-9	31.40											6	usld
		-10	30.15											7	
		-15	32.18											8	
		-16	30.26											9	
		-17	31.62											10	
		-18	31.60											D1	
		-19	30.00											2	
		-20	31.51											3	
		-21	30.58											4	
		-29	31.68											5	
		-32	30.36											6	
		-34	30.32											7	
		-35	30.58											8	
		-36	30.97											9	
		-37	32.18											10	
		-11	33.49											E1	re
		SB3862-1	31.77			✓	✓						5mL	PP217 C10	usld
		-2	30.59										5mL	C11	

Reviewed By_____ Date_____

EX-008 – Revision 2 – 12/05/2013

QAEX287

625/SV/SIM
SEP

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) ✓		SW846 3520 (CLLE)		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625 ✓	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV2717		Spike ID (1): SV2715		
	Surrogate ID (2):		Spike ID (2): SIM: SV2716		
Solvents/Acid/Base	Solvent Lot # (Mecl2): DM804		H_2SO_4 Lot # 71333		NaOH Lot # 62534
Consumables	Filter Paper Lot # 96181511		$NaSO_4$ Lot # 27965002		
Nitrogen Water Bath Temperature 36°C			pH (1st Extraction) 52		pH (2nd Extraction) 211
Prep Start Time: 1300	Prep End Time: 1525		CLLE Start Time:		CLLE End Time:

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
		WG164237-1 (625)								SVD33		625-R320366
6-5-15	KF	WG164249-1	1000	1mL	NR	✓	✓	1mL	6-5-15	E2	JMS	SV-R
		WG164250-1										SIM-R320464
		WG164237-2			1mL	✓				E3		
		WG164249-2										
		WG164250-2					✓			E4		
		WG164249-3	930			✓				E5		MS 513799-1W
		-4	970			✓				E6		MSD " -1X
		WG164250-3	1050				✓			E7		MS 513860-2M EM-SS
		-4	950				✓			E8		MSD " -2N EM-SS
									KF	6-5-15		

EX-007 – Revision 2 – 12/05/2013

QAEX284 0000072

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
6-5-15	KF	513810-1F	930	1mL	NR	✓		1mL	6-5-15	E9	JMS	625
		513799-1Y	890			✓	✓			E10		MS/D
		-2F	1020							SVD34 A1		
		-3F	950							A2		
		-4F	940							A3		
		513837-1J	1060				✓			A4		
		513860-1E	1060				✓			A5		
		-2P	930							A6		EM-S.S. cert
		-3F	800							A7		MS/D cert
		-4E	850							A8		cert
		-7E	800							A9		cert
		-8E	1030							A10		cert
		-9E	1050							B1		cert
		513862-3E	1010			✓	✓			B2		Sm-em S.S.
									KF	6-5-15		

Reviewed By_____ Date_____

EX-007 – Revision 2 – 12/05/2013

QAEX284

SEMIVOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	2FBP	#	2FP	#	NBZ	#	PHL	#	TBP	#	TPH	#
SITE4TS-EB	SI3862-3		84.3		40.6		80.8		27.6		83.2		99.5	
Method Blank Sample	WG164249-1		75.4		30.8		72.0		21.5		62.0		93.0	
Laboratory Control S	WG164249-2		82.8		41.5		83.5		27.2		83.8		92.0	

		QC Limits
2FBP	2-FLUOROBIPHENYL	50-110
2FP	2-FLUOROPHENOL	20-110
PHL	PHENOL-D6	10-115
TPH	TERPHENYL-D14	50-135
NBZ	NITROBENZENE-D5	40-110
TBP	2,4,6-TRIBROMOPHENOL	40-125

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** SL
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	2FBP	#	2FP	#	NBZ	#	PHL	#	TBP	#	TPH	#
SITE4TS-FB	SI3862-1DL		0.00	D	0.00	D	0.00	D	0.00	D	0.00	D	0.00	D
SITE4TS-XX	SI3862-2DL		0.00	D	0.00	D	0.00	D	0.00	D	0.00	D	0.00	D
Method Blank Sample	WG164216-1		82.6		81.9		80.8		91.6		72.1		88.3	
Laboratory Control S	WG164216-2		78.7		83.5		84.4		81.9		88.4		83.9	

		QC Limits
TPH	TERPHENYL-D14	30-125
NBZ	NITROBENZENE-D5	35-100
PHL	PHENOL-D6	40-100
2FP	2-FLUOROPHENOL	35-105
TBP	2,4,6-TRIBROMOPHENOL	35-125
2FBP	2-FLUOROBIPHENYL	45-105

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Tel:(207) 874-2400 Fax:(207) 775-4029

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

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : U0598.D
Instrument ID : GCMS-U
Matrix : SL

SDG : SI3862
Lab Sample ID : WG164216-1
Date Extracted : 05-JUN-15
Date Analyzed : 05-JUN-15
Time Analyzed : 18:07

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164216-2	U0600.D	06/05/15	19:01
SITE4TS-FB	SI3862-1DL	U0614.D	06/08/15	13:10
SITE4TS-XX	SI3862-2DL	U0615.D	06/08/15	13:38

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : U0599.D
Instrument ID : GCMS-U
Matrix : AQ

SDG : SI3862
Lab Sample ID : WG164249-1
Date Extracted : 05-JUN-15
Date Analyzed : 05-JUN-15
Time Analyzed : 18:34

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164249-2	U0601.D	06/05/15	19:28
SITE4TS-EB	SI3862-3	U0607.D	06/05/15	22:10

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164216-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: U0598.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	250	ug/Kgdrywt	1	330	330	160	250
Bis(2-Chloroethyl)Ether	U	250	ug/Kgdrywt	1	330	330	81.	250
2-Chlorophenol	U	250	ug/Kgdrywt	1	330	330	160	250
1,3-Dichlorobenzene	U	250	ug/Kgdrywt	1	330	330	78.	250
1,4-Dichlorobenzene	U	250	ug/Kgdrywt	1	330	330	86.	250
1,2-Dichlorobenzene	U	250	ug/Kgdrywt	1	330	330	88.	250
Benzyl Alcohol	U	500	ug/Kgdrywt	1	660	660	57.	500
2-Methylphenol	U	250	ug/Kgdrywt	1	330	330	200	250
2,2'-Oxybis(1-Chloropropane)	U	250	ug/Kgdrywt	1	330	330	89.	250
3&4-Methylphenol	U	250	ug/Kgdrywt	1	330	330	190	250
N-Nitroso-Di-N-Propylamine	U	250	ug/Kgdrywt	1	330	330	83.	250
Hexachloroethane	U	250	ug/Kgdrywt	1	330	330	96.	250
Nitrobenzene	U	250	ug/Kgdrywt	1	330	330	91.	250
Isophorone	U	250	ug/Kgdrywt	1	330	330	75.	250
2-Nitrophenol	U	250	ug/Kgdrywt	1	330	330	170	250
2,4-Dimethylphenol	U	250	ug/Kgdrywt	1	330	330	160	250
Bis(2-Chloroethoxy)Methane	U	250	ug/Kgdrywt	1	330	330	96.	250
2,4-Dichlorophenol	U	250	ug/Kgdrywt	1	330	330	150	250
1,2,4-Trichlorobenzene	U	250	ug/Kgdrywt	1	330	330	81.	250
Benzoic Acid	U	620	ug/Kgdrywt	1	820	820	340	620
4-Chloroaniline	U	250	ug/Kgdrywt	1	330	330	120	250
Hexachlorobutadiene	U	250	ug/Kgdrywt	1	330	330	83.	250
4-Chloro-3-Methylphenol	U	250	ug/Kgdrywt	1	330	330	170	250
2,4,6-Trichlorophenol	U	250	ug/Kgdrywt	1	330	330	160	250
2,4,5-Trichlorophenol	U	620	ug/Kgdrywt	1	820	820	160	620
2-Chloronaphthalene	U	250	ug/Kgdrywt	1	330	330	87.	250
2-Nitroaniline	U	620	ug/Kgdrywt	1	820	820	75.	620
Dimethyl Phthalate	U	250	ug/Kgdrywt	1	330	330	78.	250
2,6-Dinitrotoluene	U	250	ug/Kgdrywt	1	330	330	79.	250
3-Nitroaniline	U	620	ug/Kgdrywt	1	820	820	94.	620
2,4-Dinitrophenol	U	620	ug/Kgdrywt	1	820	820	380	620
4-Nitrophenol	U	620	ug/Kgdrywt	1	820	820	310	620
Dibenzofuran	U	250	ug/Kgdrywt	1	330	330	79.	250
2,4-Dinitrotoluene	U	250	ug/Kgdrywt	1	330	330	85.	250

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http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164216-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: U0598.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Diethylphthalate	U	250	ug/Kgdrywt	1	330	330	80.	250
4-Chlorophenyl-Phenylether	U	250	ug/Kgdrywt	1	330	330	78.	250
4-Nitroaniline	U	620	ug/Kgdrywt	1	820	820	130	620
4,6-Dinitro-2-Methylphenol	U	620	ug/Kgdrywt	1	820	820	340	620
N-Nitrosodiphenylamine	U	250	ug/Kgdrywt	1	330	330	220	250
1,2-Diphenylhydrazine	U	500	ug/Kgdrywt	1	660	660	140	500
4-Bromophenyl-Phenylether	U	250	ug/Kgdrywt	1	330	330	85.	250
Hexachlorobenzene	U	250	ug/Kgdrywt	1	330	330	82.	250
Pentachlorophenol	U	620	ug/Kgdrywt	1	820	820	240	620
Carbazole	U	250	ug/Kgdrywt	1	330	330	110	250
Di-N-Butylphthalate	U	250	ug/Kgdrywt	1	330	330	100	250
Benzidine	U	1100	ug/Kgdrywt	1	1500	1500	100	1100
Butylbenzylphthalate	U	250	ug/Kgdrywt	1	330	330	93.	250
3,3'-Dichlorobenzidine	U	250	ug/Kgdrywt	1	330	330	110	250
Bis(2-Ethylhexyl)Phthalate	U	250	ug/Kgdrywt	1	330	330	98.	250
Di-N-Octylphthalate	U	250	ug/Kgdrywt	1	330	330	210	250
1,1'-biphenyl	U	250	ug/Kgdrywt	1	330	330	73.	250
2,6-Dichlorophenol	U	250	ug/Kgdrywt	1	330	330	160	250
Caprolactam	U	250	ug/Kgdrywt	1	330	330	140	250
2-Fluorophenol		81.9	%					
Phenol-D6		91.6	%					
Nitrobenzene-d5		80.8	%					
2-Fluorobiphenyl		82.6	%					
2,4,6-Tribromophenol		72.1	%					
Terphenyl-d14		88.3	%					

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http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164249-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: U0599.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164249

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.5	ug/L	1	10	10.	1.8	7.5
Bis(2-Chloroethyl)Ether	U	7.5	ug/L	1	10	10.	2.0	7.5
2-Chlorophenol	U	7.5	ug/L	1	10	10.	3.2	7.5
1,3-Dichlorobenzene	U	7.5	ug/L	1	10	10.	2.1	7.5
1,4-Dichlorobenzene	U	7.5	ug/L	1	10	10.	2.2	7.5
1,2-Dichlorobenzene	U	7.5	ug/L	1	10	10.	2.4	7.5
2,2'-Oxybis(1-Chloropropane)	U	7.5	ug/L	1	10	10.	2.1	7.5
2-Methylphenol	U	7.5	ug/L	1	10	10.	3.8	7.5
n-Nitroso-di-n-propylamine	U	7.5	ug/L	1	10	10.	1.9	7.5
3&4-Methylphenol	U	7.5	ug/L	1	10	10.	5.6	7.5
Hexachloroethane	U	7.5	ug/L	1	10	10.	2.3	7.5
Nitrobenzene	U	7.5	ug/L	1	10	10.	3.1	7.5
Isophorone	U	7.5	ug/L	1	10	10.	1.7	7.5
2-Nitrophenol	U	7.5	ug/L	1	10	10.	2.7	7.5
2,4-Dimethylphenol	U	7.5	ug/L	1	10	10.	4.4	7.5
Bis(2-chloroethoxy)methane	U	7.5	ug/L	1	10	10.	2.1	7.5
2,4-Dichlorophenol	U	7.5	ug/L	1	10	10.	3.0	7.5
1,2,4-Trichlorobenzene	U	7.5	ug/L	1	10	10.	2.1	7.5
4-Chloroaniline	U	7.5	ug/L	1	10	10.	1.9	7.5
Hexachlorobutadiene	U	7.5	ug/L	1	10	10.	1.8	7.5
4-Chloro-3-methylphenol	U	7.5	ug/L	1	10	10.	3.6	7.5
2,4,6-Trichlorophenol	U	7.5	ug/L	1	10	10.	2.7	7.5
2,4,5-Trichlorophenol	U	19	ug/L	1	25	25.	3.6	19.
2-Chloronaphthalene	U	7.5	ug/L	1	10	10.	2.9	7.5
2-Nitroaniline	U	19	ug/L	1	25	25.	1.8	19.
Dimethyl phthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
2,6-Dinitrotoluene	U	7.5	ug/L	1	10	10.	2.0	7.5
3-Nitroaniline	U	19	ug/L	1	25	25.	1.5	19.
2,4-Dinitrophenol	U	19	ug/L	1	25	25.	1.0	19.
Dibenzofuran	U	7.5	ug/L	1	10	10.	1.6	7.5
2,4-Dinitrotoluene	U	7.5	ug/L	1	10	10.	2.2	7.5
Diethylphthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
4-Chlorophenyl-phenylether	U	7.5	ug/L	1	10	10.	2.2	7.5
4-Nitroaniline	U	19	ug/L	1	25	25.	1.6	19.

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164249-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: U0599.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164249

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
4,6-Dinitro-2-methylphenol	U	19	ug/L	1	25	25.	2.0	19.
n-Nitrosodiphenylamine	U	7.5	ug/L	1	10	10.	3.7	7.5
4-Bromophenyl-phenylether	U	7.5	ug/L	1	10	10.	1.9	7.5
Hexachlorobenzene	U	7.5	ug/L	1	10	10.	2.1	7.5
Pentachlorophenol	U	19	ug/L	1	25	25.	2.3	19.
Carbazole	U	7.5	ug/L	1	10	10.	2.1	7.5
Di-n-butylphthalate	U	7.5	ug/L	1	10	10.	2.5	7.5
Butylbenzylphthalate	U	7.5	ug/L	1	10	10.	1.9	7.5
3,3'-Dichlorobenzidine	U	7.5	ug/L	1	10	10.	1.1	7.5
Bis(2-ethylhexyl)phthalate	U	7.5	ug/L	1	10	10.	1.8	7.5
Di-n-octylphthalate	U	7.5	ug/L	1	10	10.	1.8	7.5
4-Nitrophenol	U	19	ug/L	1	25	25.	1.8	19.
1,1'-Biphenyl	U	7.5	ug/L	1	10	10.	2.7	7.5
1,2-Diphenylhydrazine	U	15	ug/L	1	20	20.	2.0	15.
2,6-Dichlorophenol	U	7.5	ug/L	1	10	10.	4.0	7.5
Benzidine	U	38	ug/L	1	50	50.	16.	38.
Benzoic Acid	U	19	ug/L	1	25	25.	3.0	19.
Benzyl Alcohol	U	15	ug/L	1	20	20.	1.2	15.
Caprolactam	U	7.5	ug/L	1	10	10.	0.40	7.5
2-Fluorophenol		30.8	%					
Phenol-d6		21.5	%					
Nitrobenzene-d5		72.0	%					
2-Fluorobiphenyl		75.4	%					
2,4,6-Tribromophenol		62.0	%					
Terphenyl-d14		93.0	%					

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164216-2
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: U0600.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA
Report Date: 24-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Phenol	75.4	3330	2510	ug/Kgdrywt	40-100
Bis(2-Chloroethyl)Ether	94.6	1670	1580	ug/Kgdrywt	40-105
2-Chlorophenol	77.8	3330	2590	ug/Kgdrywt	45-105
1,3-Dichlorobenzene	76.0	1670	1270	ug/Kgdrywt	40-100
1,4-Dichlorobenzene	79.6	1670	1330	ug/Kgdrywt	35-105
1,2-Dichlorobenzene	81.4	1670	1360	ug/Kgdrywt	45-100
Benzyl Alcohol	87.4	1670	1460	ug/Kgdrywt	20-125
2-Methylphenol	78.7	3330	2620	ug/Kgdrywt	40-105
2,2'-Oxybis(1-Chloropropane)	62.9	1670	1050	ug/Kgdrywt	20-115
3&4-Methylphenol	78.4	3330	2610	ug/Kgdrywt	40-105
N-Nitroso-Di-N-Propylamine	74.2	1670	1240	ug/Kgdrywt	40-115
Hexachloroethane	77.8	1670	1300	ug/Kgdrywt	35-110
Nitrobenzene	82.6	1670	1380	ug/Kgdrywt	40-115
Isophorone	68.3	1670	1140	ug/Kgdrywt	45-110
2-Nitrophenol	78.4	3330	2610	ug/Kgdrywt	40-110
2,4-Dimethylphenol	81.4	3330	2710	ug/Kgdrywt	30-105
Bis(2-Chloroethoxy)Methane	76.0	1670	1270	ug/Kgdrywt	45-110
2,4-Dichlorophenol	84.7	3330	2820	ug/Kgdrywt	45-110
1,2,4-Trichlorobenzene	81.4	1670	1360	ug/Kgdrywt	45-110
Benzoic Acid	17.1	3330	569.	ug/Kgdrywt	0-110
4-Chloroaniline	48.5	1670	810.	ug/Kgdrywt	10-100
Hexachlorobutadiene	83.8	1670	1400	ug/Kgdrywt	40-115
4-Chloro-3-Methylphenol	96.4	3330	3210	ug/Kgdrywt	45-115
2,4,6-Trichlorophenol	82.6	3330	2750	ug/Kgdrywt	45-110
2,4,5-Trichlorophenol	80.8	3330	2690	ug/Kgdrywt	50-110
2-Chloronaphthalene	71.8	1670	1200	ug/Kgdrywt	45-105
2-Nitroaniline	94.0	1670	1570	ug/Kgdrywt	45-120
Dimethyl Phthalate	85.6	1670	1430	ug/Kgdrywt	50-110
2,6-Dinitrotoluene	93.4	1670	1560	ug/Kgdrywt	50-110
3-Nitroaniline	71.2	1670	1190	ug/Kgdrywt	25-110
2,4-Dinitrophenol	35.1	3330	1170	ug/Kgdrywt	15-130
4-Nitrophenol	115.	3330	3830	ug/Kgdrywt	15-140
Dibenzofuran	89.2	1670	1490	ug/Kgdrywt	50-105
2,4-Dinitrotoluene	98.8	1670	1650	ug/Kgdrywt	50-115
Diethylphthalate	91.6	1670	1530	ug/Kgdrywt	50-115

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164216-2
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: U0600.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: NA
Report Date: 24-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
4-Chlorophenyl-Phenylether	87.4	1670	1460	ug/Kgdrywt	45-110
4-Nitroaniline	100.	1670	1680	ug/Kgdrywt	35-115
4,6-Dinitro-2-Methylphenol	72.1	3330	2400	ug/Kgdrywt	30-135
N-Nitrosodiphenylamine	65.3	1670	1090	ug/Kgdrywt	50-115
1,2-Diphenylhydrazine	82.0	1670	1370	ug/Kgdrywt	50-110
4-Bromophenyl-Phenylether	91.0	1670	1520	ug/Kgdrywt	45-115
Hexachlorobenzene	84.4	1670	1410	ug/Kgdrywt	45-120
Pentachlorophenol	92.8	3330	3090	ug/Kgdrywt	25-120
Carbazole	102.	1670	1710	ug/Kgdrywt	45-115
Di-N-Butylphthalate	99.4	1670	1660	ug/Kgdrywt	55-110
Benzidine	42.6	3330	1420	ug/Kgdrywt	10-150
Butylbenzylphthalate	89.8	1670	1500	ug/Kgdrywt	50-125
3,3'-Dichlorobenzidine	76.3	3330	2540	ug/Kgdrywt	10-130
Bis(2-Ethylhexyl)Phthalate	91.0	1670	1520	ug/Kgdrywt	45-125
Di-N-Octylphthalate	85.6	1670	1430	ug/Kgdrywt	40-130
1,1'-biphenyl	88.6	1670	1480	ug/Kgdrywt	31-99
2,6-Dichlorophenol	92.2	3330	3070	ug/Kgdrywt	38-98
Caprolactam	51.5	1670	860.	ug/Kgdrywt	10-81
2-Fluorophenol	83.5				35-105
Phenol-D6	81.9				40-100
Nitrobenzene-d5	84.4				35-100
2-Fluorobiphenyl	78.7				45-105
2,4,6-Tribromophenol	88.4				35-125
Terphenyl-d14	83.9				30-125

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164249-2
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: U0601.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164249

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Phenol	29.3	100.	29.3	ug/L	0-115
Bis(2-Chloroethyl)Ether	89.6	50.0	44.8	ug/L	35-110
2-Chlorophenol	70.3	100.	70.3	ug/L	35-105
1,3-Dichlorobenzene	81.4	50.0	40.7	ug/L	30-100
1,4-Dichlorobenzene	85.6	50.0	42.8	ug/L	30-100
1,2-Dichlorobenzene	85.2	50.0	42.6	ug/L	35-100
2,2'-Oxybis(1-Chloropropane)	74.2	50.0	37.1	ug/L	25-130
2-Methylphenol	63.2	100.	63.2	ug/L	40-110
n-Nitroso-di-n-propylamine	83.4	50.0	41.7	ug/L	35-130
3&4-Methylphenol	55.4	100.	55.4	ug/L	30-110
Hexachloroethane	81.8	50.0	40.9	ug/L	30-100
Nitrobenzene	85.6	50.0	42.8	ug/L	45-110
Isophorone	68.4	50.0	34.2	ug/L	50-110
2-Nitrophenol	75.1	100.	75.1	ug/L	40-115
2,4-Dimethylphenol	80.8	100.	80.8	ug/L	30-110
Bis(2-chloroethoxy)methane	80.4	50.0	40.2	ug/L	45-105
2,4-Dichlorophenol	77.3	100.	77.3	ug/L	50-105
1,2,4-Trichlorobenzene	83.8	50.0	41.9	ug/L	35-105
4-Chloroaniline	71.8	50.0	35.9	ug/L	15-110
Hexachlorobutadiene	84.8	50.0	42.4	ug/L	25-105
4-Chloro-3-methylphenol	89.6	100.	89.6	ug/L	45-110
2,4,6-Trichlorophenol	73.9	100.	73.9	ug/L	50-115
2,4,5-Trichlorophenol	77.5	100.	77.5	ug/L	50-110
2-Chloronaphthalene	77.2	50.0	38.6	ug/L	50-105
2-Nitroaniline	90.4	50.0	45.2	ug/L	56-108
Dimethyl phthalate	93.0	50.0	46.5	ug/L	25-125
2,6-Dinitrotoluene	95.4	50.0	47.7	ug/L	50-115
3-Nitroaniline	80.2	50.0	40.1	ug/L	20-125
2,4-Dinitrophenol	74.1	100.	74.1	ug/L	15-140
Dibenzofuran	94.0	50.0	47.0	ug/L	55-105
2,4-Dinitrotoluene	93.6	50.0	46.8	ug/L	50-120
Diethylphthalate	99.0	50.0	49.5	ug/L	40-120
4-Chlorophenyl-phenylether	90.6	50.0	45.3	ug/L	50-110
4-Nitroaniline	91.4	50.0	45.7	ug/L	35-120
4,6-Dinitro-2-methylphenol	81.6	100.	81.6	ug/L	40-130

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LCS Recovery Report

Client:
Lab ID: WG164249-2
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: U0601.D

Sample Date:
Received Date:
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164249

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
n-Nitrosodiphenylamine	67.4	50.0	33.7	ug/L	50-110
4-Bromophenyl-phenylether	96.8	50.0	48.4	ug/L	50-115
Hexachlorobenzene	86.0	50.0	43.0	ug/L	50-110
Pentachlorophenol	95.5	100.	95.5	ug/L	40-115
Carbazole	93.2	50.0	46.6	ug/L	50-115
Di-n-butylphthalate	96.6	50.0	48.3	ug/L	55-115
Butylbenzylphthalate	95.6	50.0	47.8	ug/L	45-115
3,3'-Dichlorobenzidine	84.1	100.	84.1	ug/L	20-110
Bis(2-ethylhexyl)phthalate	91.6	50.0	45.8	ug/L	40-125
Di-n-octylphthalate	88.4	50.0	44.2	ug/L	35-135
4-Nitrophenol	23.6	100.	23.6	ug/L	0-125
1,1'-Biphenyl	95.6	50.0	47.8	ug/L	51-105
1,2-Diphenylhydrazine	89.4	50.0	44.7	ug/L	55-115
2,6-Dichlorophenol	83.0	100.	83.0	ug/L	45-109
Benzidine	* 171.	50.0	85.4	ug/L	10-100
Benzoic Acid	27.0	100.	27.0	ug/L	0-125
Benzyl Alcohol	62.0	50.0	31.0	ug/L	30-110
Caprolactam	17.9	50.0	8.94	ug/L	10-86
2-Fluorophenol	41.5				20-110
Phenol-d6	27.2				10-115
Nitrobenzene-d5	83.5				40-110
2-Fluorobiphenyl	82.8				50-110
2,4,6-Tribromophenol	83.8				40-125
Terphenyl-d14	92.0				50-135

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Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : UD381.D
Instrument ID : GCMS-U

SDG : SI3862
Date Analyzed : 05-JUN-15
Time Analyzed : 14:09

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	34.8		
68	Less than 2.0% of mass 69	0.5	1.29	1
69	Less than 100.0% of mass 198	37.4		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	47.7		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	7.1		
275	10.0 - 30.0% of mass 198	22.1		
365	1.0 - 100.0% of mass 198	2.5		
441	0.0 - 100.0% of mass 443	14.8	82.58	2
442	40.0 - 100.0% of mass 198	91.9		
443	17.0 - 23.0% of mass 442	17.9	19.48	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG164192-4	U0591.D	06/05/15	14:27
Initial Calibration	WG164192-2	U0592.D	06/05/15	15:26
Initial Calibration	WG164192-3	U0593.D	06/05/15	15:52
Initial Calibration	WG164192-5	U0594.D	06/05/15	16:19
Initial Calibration	WG164192-6	U0595.D	06/05/15	16:46
Initial Calibration	WG164192-7	U0596.D	06/05/15	17:12
Independent Source	WG164192-8	U0597.D	06/05/15	17:39
Method Blank Sample	WG164216-1	U0598.D	06/05/15	18:07
Method Blank Sample	WG164249-1	U0599.D	06/05/15	18:34
Laboratory Control S	WG164216-2	U0600.D	06/05/15	19:01
Laboratory Control S	WG164249-2	U0601.D	06/05/15	19:28
SITE4TS-EB	SI3862-3	U0607.D	06/05/15	22:10

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : UD382.D
Instrument ID : GCMS-U

SDG : SI3862
Date Analyzed : 08-JUN-15
Time Analyzed : 11:02

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	32.1		
68	Less than 2.0% of mass 69	0.4	1.24	1
69	Less than 100.0% of mass 198	35.5		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	46.7		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.8		
275	10.0 - 30.0% of mass 198	20.7		
365	1.0 - 100.0% of mass 198	2.4		
441	0.0 - 100.0% of mass 443	13.9	83.46	2
442	40.0 - 100.0% of mass 198	87.5		
443	17.0 - 23.0% of mass 442	16.7	19.09	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG164360-2	U0611.D	06/08/15	11:20
SITE4TS-FB	SI3862-1DL	U0614.D	06/08/15	13:10
SITE4TS-XX	SI3862-2DL	U0615.D	06/08/15	13:38

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ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164192-4
Lab File ID : U0591.D

SDG: SI3862
Analytical Date: 06/05/15 14:27
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4				NAPHTHALENE-D8				ACENAPHTHENE-D10			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	298088		4.55		1167270		5.95		585203		8.03	
	Upper Limit	596176		5.05		2334540		6.45		1170406		8.53	
	Lower Limit	149044		4.05		583635		5.45		292601.5		7.53	
Client Sample ID	Lab Sample ID												
Method Blank Sample	WG164216-1	336664		4.57		1401801		5.95		706388		8.04	
Method Blank Sample	WG164249-1	335772		4.55		1395494		5.95		679281		8.04	
Laboratory Control S	WG164216-2	338179		4.57		1329051		5.95		701569		8.03	
Laboratory Control S	WG164249-2	305348		4.55		1216152		5.95		615731		8.03	
SITE4TS-EB	SI3862-3	331659		4.56		1364123		5.94		657837		8.04	
Continuing Calibrati	WG164360-2	349906		4.55		1303971		5.94		588916		8.03	
SITE4TS-FB	SI3862-1DL	427904		4.55		1569145		5.94		793973		8.04	
SITE4TS-XX	SI3862-2DL	455469		4.55		1699126		5.95		883333		8.04	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164192-4
Lab File ID : U0591.D

SDG: SI3862
Analytical Date: 06/05/15 14:27
Instrument ID: GCMS-U

		PHENANTHRENE-D10			CHRYSENE-D12			PERYLENE-D12		
		Area	#	RT	Area	#	RT	Area	#	RT
	Std .	909618		9.84	432679		13.40	280169		16.37
	Upper Limit	1819236		10.34	865358		13.90	560338		16.87
	Lower Limit	454809		9.34	216339.5		12.90	140084.5		15.87
Client Sample ID	Lab Sample ID									
Method Blank Sample	WG164216-1	1141587		9.85	736992		13.41	415209		16.38
Method Blank Sample	WG164249-1	1054504		9.84	597622		13.40	304145		16.38
Laboratory Control S	WG164216-2	1186047		9.84	801086		13.41	540161		16.37
Laboratory Control S	WG164249-2	1006741		9.84	479545		13.40	283888		16.37
SITE4TS-EB	SI3862-3	1035611		9.84	523489		13.40	306280		16.39
Continuing Calibrati	WG164360-2	951012		9.84	549794		13.40	328992		16.37
SITE4TS-FB	SI3862-1DL	1032934		9.84	220061		13.40	73613	*	16.37
SITE4TS-XX	SI3862-2DL	1095073		9.85	219845		13.40	72296	*	16.37

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Sample Data Section

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 Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes 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.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native 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).

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Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0614.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: 93.
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	6300	ug/Kgdrywt	5	330	8400	4000	6300
Bis(2-Chloroethyl)Ether	U	6300	ug/Kgdrywt	5	330	8400	2100	6300
2-Chlorophenol	U	6300	ug/Kgdrywt	5	330	8400	4200	6300
1,3-Dichlorobenzene	U	6300	ug/Kgdrywt	5	330	8400	2000	6300
1,4-Dichlorobenzene	U	6300	ug/Kgdrywt	5	330	8400	2200	6300
1,2-Dichlorobenzene	U	6300	ug/Kgdrywt	5	330	8400	2200	6300
Benzyl Alcohol	U	12000	ug/Kgdrywt	5	660	17000	1400	12000
2-Methylphenol	U	6300	ug/Kgdrywt	5	330	8400	5100	6300
2,2’-Oxybis(1-Chloropropane)	U	6300	ug/Kgdrywt	5	330	8400	2300	6300
3&4-Methylphenol	U	6300	ug/Kgdrywt	5	330	8400	4800	6300
N-Nitroso-Di-N-Propylamine	U	6300	ug/Kgdrywt	5	330	8400	2100	6300
Hexachloroethane	U	6300	ug/Kgdrywt	5	330	8400	2400	6300
Nitrobenzene	U	6300	ug/Kgdrywt	5	330	8400	2300	6300
Isophorone	U	6300	ug/Kgdrywt	5	330	8400	1900	6300
2-Nitrophenol	U	6300	ug/Kgdrywt	5	330	8400	4200	6300
2,4-Dimethylphenol	U	6300	ug/Kgdrywt	5	330	8400	4200	6300
Bis(2-Chloroethoxy)Methane	U	6300	ug/Kgdrywt	5	330	8400	2400	6300
2,4-Dichlorophenol	U	6300	ug/Kgdrywt	5	330	8400	3800	6300
1,2,4-Trichlorobenzene	U	6300	ug/Kgdrywt	5	330	8400	2100	6300
Benzoic Acid	U	16000	ug/Kgdrywt	5	820	21000	8800	16000
4-Chloroaniline	U	6300	ug/Kgdrywt	5	330	8400	3000	6300
Hexachlorobutadiene	U	6300	ug/Kgdrywt	5	330	8400	2100	6300
4-Chloro-3-Methylphenol	U	6300	ug/Kgdrywt	5	330	8400	4200	6300
2,4,6-Trichlorophenol	U	6300	ug/Kgdrywt	5	330	8400	3900	6300
2,4,5-Trichlorophenol	U	16000	ug/Kgdrywt	5	820	21000	3900	16000
2-Chloronaphthalene	U	6300	ug/Kgdrywt	5	330	8400	2200	6300
2-Nitroaniline	U	16000	ug/Kgdrywt	5	820	21000	1900	16000
Dimethyl Phthalate	U	6300	ug/Kgdrywt	5	330	8400	2000	6300
2,6-Dinitrotoluene	U	6300	ug/Kgdrywt	5	330	8400	2000	6300
3-Nitroaniline	U	16000	ug/Kgdrywt	5	820	21000	2400	16000
2,4-Dinitrophenol	U	16000	ug/Kgdrywt	5	820	21000	9600	16000
4-Nitrophenol	U	16000	ug/Kgdrywt	5	820	21000	7900	16000
Dibenzofuran	U	6300	ug/Kgdrywt	5	330	8400	2000	6300
2,4-Dinitrotoluene	U	6300	ug/Kgdrywt	5	330	8400	2200	6300
Diethylphthalate	U	6300	ug/Kgdrywt	5	330	8400	2000	6300

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-1DL
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0614.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: 93.
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
4-Chlorophenyl-Phenylether	U	6300	ug/Kgdrywt	5	330	8400	2000	6300
4-Nitroaniline	U	16000	ug/Kgdrywt	5	820	21000	3400	16000
4,6-Dinitro-2-Methylphenol	U	16000	ug/Kgdrywt	5	820	21000	8600	16000
N-Nitrosodiphenylamine	U	6300	ug/Kgdrywt	5	330	8400	5600	6300
1,2-Diphenylhydrazine	U	12000	ug/Kgdrywt	5	660	17000	3600	12000
4-Bromophenyl-Phenylether	U	6300	ug/Kgdrywt	5	330	8400	2200	6300
Hexachlorobenzene	U	6300	ug/Kgdrywt	5	330	8400	2100	6300
Pentachlorophenol	U	16000	ug/Kgdrywt	5	820	21000	6000	16000
Carbazole	U	6300	ug/Kgdrywt	5	330	8400	2800	6300
Di-N-Butylphthalate	U	6300	ug/Kgdrywt	5	330	8400	2600	6300
Benzidine	U	29000	ug/Kgdrywt	5	1500	38000	2500	29000
Butylbenzylphthalate	U	6300	ug/Kgdrywt	5	330	8400	2400	6300
3,3'-Dichlorobenzidine	U	6300	ug/Kgdrywt	5	330	8400	2900	6300
Bis(2-Ethylhexyl)Phthalate	U	6300	ug/Kgdrywt	5	330	8400	2500	6300
Di-N-Octylphthalate	U	6300	ug/Kgdrywt	5	330	8400	5400	6300
1,1'-biphenyl	U	6300	ug/Kgdrywt	5	330	8400	1800	6300
2,6-Dichlorophenol	U	6300	ug/Kgdrywt	5	330	8400	4200	6300
Caprolactam	U	6300	ug/Kgdrywt	5	330	8400	3700	6300
2-Fluorophenol	D	0.00	%					
Phenol-D6	D	0.00	%					
Nitrobenzene-d5	D	0.00	%					
2-Fluorobiphenyl	D	0.00	%					
2,4,6-Tribromophenol	D	0.00	%					
Terphenyl-d14	D	0.00	%					

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0615.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: 92.
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	6700	ug/Kgdrywt	5	330	9000	4200	6700
Bis(2-Chloroethyl)Ether	U	6700	ug/Kgdrywt	5	330	9000	2200	6700
2-Chlorophenol	U	6700	ug/Kgdrywt	5	330	9000	4400	6700
1,3-Dichlorobenzene	U	6700	ug/Kgdrywt	5	330	9000	2100	6700
1,4-Dichlorobenzene	U	6700	ug/Kgdrywt	5	330	9000	2300	6700
1,2-Dichlorobenzene	U	6700	ug/Kgdrywt	5	330	9000	2400	6700
Benzyl Alcohol	U	13000	ug/Kgdrywt	5	660	18000	1500	13000
2-Methylphenol	U	6700	ug/Kgdrywt	5	330	9000	5400	6700
2,2'-Oxybis(1-Chloropropane)	U	6700	ug/Kgdrywt	5	330	9000	2400	6700
3&4-Methylphenol	U	6700	ug/Kgdrywt	5	330	9000	5100	6700
N-Nitroso-Di-N-Propylamine	U	6700	ug/Kgdrywt	5	330	9000	2200	6700
Hexachloroethane	U	6700	ug/Kgdrywt	5	330	9000	2600	6700
Nitrobenzene	U	6700	ug/Kgdrywt	5	330	9000	2500	6700
Isophorone	U	6700	ug/Kgdrywt	5	330	9000	2000	6700
2-Nitrophenol	U	6700	ug/Kgdrywt	5	330	9000	4500	6700
2,4-Dimethylphenol	U	6700	ug/Kgdrywt	5	330	9000	4500	6700
Bis(2-Chloroethoxy)Methane	U	6700	ug/Kgdrywt	5	330	9000	2600	6700
2,4-Dichlorophenol	U	6700	ug/Kgdrywt	5	330	9000	4100	6700
1,2,4-Trichlorobenzene	U	6700	ug/Kgdrywt	5	330	9000	2200	6700
Benzoic Acid	U	17000	ug/Kgdrywt	5	820	22000	9300	17000
4-Chloroaniline	U	6700	ug/Kgdrywt	5	330	9000	3200	6700
Hexachlorobutadiene	U	6700	ug/Kgdrywt	5	330	9000	2200	6700
4-Chloro-3-Methylphenol	U	6700	ug/Kgdrywt	5	330	9000	4500	6700
2,4,6-Trichlorophenol	U	6700	ug/Kgdrywt	5	330	9000	4200	6700
2,4,5-Trichlorophenol	U	17000	ug/Kgdrywt	5	820	22000	4200	17000
2-Chloronaphthalene	U	6700	ug/Kgdrywt	5	330	9000	2400	6700
2-Nitroaniline	U	17000	ug/Kgdrywt	5	820	22000	2000	17000
Dimethyl Phthalate	U	6700	ug/Kgdrywt	5	330	9000	2100	6700
2,6-Dinitrotoluene	U	6700	ug/Kgdrywt	5	330	9000	2100	6700
3-Nitroaniline	U	17000	ug/Kgdrywt	5	820	22000	2600	17000
2,4-Dinitrophenol	U	17000	ug/Kgdrywt	5	820	22000	10000	17000
4-Nitrophenol	U	17000	ug/Kgdrywt	5	820	22000	8400	17000
Dibenzofuran	U	6700	ug/Kgdrywt	5	330	9000	2100	6700
2,4-Dinitrotoluene	U	6700	ug/Kgdrywt	5	330	9000	2300	6700
Diethylphthalate	U	6700	ug/Kgdrywt	5	330	9000	2200	6700

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-2DL
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0615.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: WAS
Extraction Method: SW846 3550
Lab Prep Batch: WG164216

Analysis Date: 08-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: SL
% Solids: 92.
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
4-Chlorophenyl-Phenylether	U	6700	ug/Kgdrywt	5	330	9000	2100	6700
4-Nitroaniline	U	17000	ug/Kgdrywt	5	820	22000	3600	17000
4,6-Dinitro-2-Methylphenol	U	17000	ug/Kgdrywt	5	820	22000	9200	17000
N-Nitrosodiphenylamine	U	6700	ug/Kgdrywt	5	330	9000	5900	6700
1,2-Diphenylhydrazine	U	13000	ug/Kgdrywt	5	660	18000	3800	13000
4-Bromophenyl-Phenylether	U	6700	ug/Kgdrywt	5	330	9000	2300	6700
Hexachlorobenzene	U	6700	ug/Kgdrywt	5	330	9000	2200	6700
Pentachlorophenol	U	17000	ug/Kgdrywt	5	820	22000	6400	17000
Carbazole	U	6700	ug/Kgdrywt	5	330	9000	3000	6700
Di-N-Butylphthalate	U	6700	ug/Kgdrywt	5	330	9000	2700	6700
Benzidine	U	30000	ug/Kgdrywt	5	1500	41000	2700	30000
Butylbenzylphthalate	U	6700	ug/Kgdrywt	5	330	9000	2500	6700
3,3'-Dichlorobenzidine	U	6700	ug/Kgdrywt	5	330	9000	3100	6700
Bis(2-Ethylhexyl)Phthalate	U	6700	ug/Kgdrywt	5	330	9000	2700	6700
Di-N-Octylphthalate	U	6700	ug/Kgdrywt	5	330	9000	5700	6700
1,1'-biphenyl	U	6700	ug/Kgdrywt	5	330	9000	2000	6700
2,6-Dichlorophenol	U	6700	ug/Kgdrywt	5	330	9000	4500	6700
Caprolactam	U	6700	ug/Kgdrywt	5	330	9000	3900	6700
2-Fluorophenol	D	0.00	%					
Phenol-D6	D	0.00	%					
Nitrobenzene-d5	D	0.00	%					
2-Fluorobiphenyl	D	0.00	%					
2,4,6-Tribromophenol	D	0.00	%					
Terphenyl-d14	D	0.00	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-3
Client ID: SITE4TS-EB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0607.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164249

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.4	ug/L	1	10	9.9	1.8	7.4
Bis(2-Chloroethyl)Ether	U	7.4	ug/L	1	10	9.9	2.0	7.4
2-Chlorophenol	U	7.4	ug/L	1	10	9.9	3.2	7.4
1,3-Dichlorobenzene	U	7.4	ug/L	1	10	9.9	2.1	7.4
1,4-Dichlorobenzene	U	7.4	ug/L	1	10	9.9	2.2	7.4
1,2-Dichlorobenzene	U	7.4	ug/L	1	10	9.9	2.4	7.4
2,2’-Oxybis(1-Chloropropane)	U	7.4	ug/L	1	10	9.9	2.1	7.4
2-Methylphenol	U	7.4	ug/L	1	10	9.9	3.8	7.4
n-Nitroso-di-n-propylamine	U	7.4	ug/L	1	10	9.9	1.9	7.4
3&4-Methylphenol	U	7.4	ug/L	1	10	9.9	5.5	7.4
Hexachloroethane	U	7.4	ug/L	1	10	9.9	2.3	7.4
Nitrobenzene	U	7.4	ug/L	1	10	9.9	3.1	7.4
Isophorone	U	7.4	ug/L	1	10	9.9	1.7	7.4
2-Nitrophenol	U	7.4	ug/L	1	10	9.9	2.7	7.4
2,4-Dimethylphenol	U	7.4	ug/L	1	10	9.9	4.4	7.4
Bis(2-chloroethoxy)methane	U	7.4	ug/L	1	10	9.9	2.1	7.4
2,4-Dichlorophenol	U	7.4	ug/L	1	10	9.9	3.0	7.4
1,2,4-Trichlorobenzene	U	7.4	ug/L	1	10	9.9	2.1	7.4
4-Chloroaniline	U	7.4	ug/L	1	10	9.9	1.9	7.4
Hexachlorobutadiene	U	7.4	ug/L	1	10	9.9	1.8	7.4
4-Chloro-3-methylphenol	U	7.4	ug/L	1	10	9.9	3.6	7.4
2,4,6-Trichlorophenol	U	7.4	ug/L	1	10	9.9	2.7	7.4
2,4,5-Trichlorophenol	U	19	ug/L	1	25	25.	3.6	19.
2-Chloronaphthalene	U	7.4	ug/L	1	10	9.9	2.9	7.4
2-Nitroaniline	U	19	ug/L	1	25	25.	1.8	19.
Dimethyl phthalate	U	7.4	ug/L	1	10	9.9	2.0	7.4
2,6-Dinitrotoluene	U	7.4	ug/L	1	10	9.9	2.0	7.4
3-Nitroaniline	U	19	ug/L	1	25	25.	1.5	19.
2,4-Dinitrophenol	U	19	ug/L	1	25	25.	0.99	19.
Dibenzofuran	U	7.4	ug/L	1	10	9.9	1.6	7.4
2,4-Dinitrotoluene	U	7.4	ug/L	1	10	9.9	2.2	7.4
Diethylphthalate	U	7.4	ug/L	1	10	9.9	2.0	7.4
4-Chlorophenyl-phenylether	U	7.4	ug/L	1	10	9.9	2.2	7.4
4-Nitroaniline	U	19	ug/L	1	25	25.	1.6	19.
4,6-Dinitro-2-methylphenol	U	19	ug/L	1	25	25.	2.0	19.

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-3
Client ID: SITE4TS-EB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0607.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 05-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164249

Analysis Date: 05-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
n-Nitrosodiphenylamine	U	7.4	ug/L	1	10	9.9	3.7	7.4
4-Bromophenyl-phenylether	U	7.4	ug/L	1	10	9.9	1.9	7.4
Hexachlorobenzene	U	7.4	ug/L	1	10	9.9	2.1	7.4
Pentachlorophenol	U	19	ug/L	1	25	25.	2.3	19.
Carbazole	U	7.4	ug/L	1	10	9.9	2.1	7.4
Di-n-butylphthalate	U	7.4	ug/L	1	10	9.9	2.5	7.4
Butylbenzylphthalate	U	7.4	ug/L	1	10	9.9	1.9	7.4
3,3'-Dichlorobenzidine	U	7.4	ug/L	1	10	9.9	1.1	7.4
Bis(2-ethylhexyl)phthalate	J	2.5	ug/L	1	10	9.9	1.8	7.4
Di-n-octylphthalate	U	7.4	ug/L	1	10	9.9	1.8	7.4
4-Nitrophenol	U	19	ug/L	1	25	25.	1.8	19.
1,1'-Biphenyl	U	7.4	ug/L	1	10	9.9	2.7	7.4
1,2-Diphenylhydrazine	U	15	ug/L	1	20	20.	2.0	15.
2,6-Dichlorophenol	U	7.4	ug/L	1	10	9.9	4.0	7.4
Benzidine	UL	37	ug/L	1	50	50.	16.	37.
Benzoic Acid	U	19	ug/L	1	25	25.	3.0	19.
Benzyl Alcohol	U	15	ug/L	1	20	20.	1.2	15.
Caprolactam	U	7.4	ug/L	1	10	9.9	0.40	7.4
2-Fluorophenol		40.6	%					
Phenol-d6		27.6	%					
Nitrobenzene-d5		80.8	%					
2-Fluorobiphenyl		84.3	%					
2,4,6-Tribromophenol		83.2	%					
Terphenyl-d14		99.5	%					

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Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-U
Lab File IDs : U0592.D U0593.D U0591.D U0594.D U0595.D U0596.D **Column ID:**
Calibration Date(s): 05-JUN-15 14:27 05-JUN-15 17:12

	Level 1 10.0000	Level 2 25.0000	Level 3 50.0000	Level 4 75.0000	Level 5 100.0000	Level 6 125.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
N-Nitrosodimethylamine	0.56977	0.56103	0.60182	0.58771	0.56561	0.53864	AVG		0.57077		3.84308	15.00000	O
Phenol	1.65880	1.60566	1.64459	1.63752	1.56109	1.53520	AVG		1.60714		3.08520	30.00000	O
Bis(2-Chloroethyl)ether	1.25023	1.19353	1.10627	1.10192	1.09164	1.07214	AVG		1.13595		6.15596	15.00000	O
2-Chlorophenol	1.27191	1.25978	1.26092	1.23404	1.21054	1.19220	AVG		1.23823		2.55801	15.00000	O
1,3-Dichlorobenzene	1.47621	1.41907	1.43604	1.35807	1.30350	1.25035	AVG		1.37388		6.24795	15.00000	O
1,4-Dichlorobenzene	1.38928	1.40297	1.37554	1.29021	1.23972	1.19569	AVG		1.31557		6.57739	30.00000	O
1,2-Dichlorobenzene	1.40893	1.33511	1.30733	1.21201	1.17994	1.11430	AVG		1.25960		8.69694	15.00000	O
Benzyl alcohol	0.79641	0.78832	0.83879	0.74667	0.71353	0.77011	AVG		0.77564		5.56266	15.00000	O
2-Methylphenol	1.16610	1.09909	1.13965	1.17786	1.15182	1.17088	AVG		1.15090		2.50872	15.00000	O
2,2’-Oxybis(1-chloropropane	1.73549	1.73393	1.70309	1.63864	1.55808	1.47845	AVG		1.64128		6.37400	15.00000	O
N-Nitrosopyrrolidine	0.58836	0.57924	0.58315	0.54419	0.53257	0.51397	AVG		0.55691		5.54851	15.00000	O
N-Nitroso-di-n-propylamine	0.89529	0.81162	0.87023	0.79153	0.73220	0.73509	AVG		0.80599		8.38076	15.00000	O
3&4-Methylphenol	1.19349	1.31504	1.27305	1.25159	1.23230	1.18517	AVG		1.24177		3.95640	15.00000	O
Hexachloroethane	0.60213	0.58009	0.57560	0.53347	0.50704	0.48273	AVG		0.54684		8.52363	15.00000	O
Nitrobenzene	0.33128	0.32982	0.31399	0.27950	0.28610	0.25833	AVG		0.29984		9.90830	15.00000	O
Isophorone	0.64897	0.64810	0.61577	0.58729	0.59348	0.56147	AVG		0.60918		5.75418	15.00000	O
2-Nitrophenol	0.18085	0.18199	0.18707	0.16930	0.17650	0.17515	AVG		0.17847		3.46265	30.00000	O
2,4-Dimethylphenol	0.32705	0.32577	0.32275	0.29187	0.26713	0.26973	AVG		0.30072		9.37336	15.00000	O
Bis(2-Chloroethoxy)methane	0.48418	0.37801	0.40321	0.35414	0.33792	0.34546	AVG		0.38382		14.24232	15.00000	O
Benzoic acid	12656	47391	171532	325335	454541	549349	QUA	0.15743	7.37369	-1.24453	0.99205	0.99000	O
2,4-Dichlorophenol	0.25301	0.27109	0.27053	0.25444	0.24814	0.23622	AVG		0.25557		5.25600	30.00000	O
2,6-Dichlorophenol	0.24005	0.22743	0.20858	0.18882	0.17370	0.16955	AVG		0.20136		14.32964	15.00000	O
1,2,4-Trichlorobenzene	0.29791	0.29452	0.28023	0.25309	0.23874	0.22964	AVG		0.26569		10.99386	15.00000	O
4-Chloroaniline	0.37115	0.36940	0.34237	0.33698	0.29495	0.29094	AVG		0.33430		10.43983	15.00000	O
Hexachlorobutadiene	0.15899	0.16037	0.14995	0.13108	0.12306	0.11472	AVG		0.13970		13.88005	30.00000	O
Caprolactam	0.09146	0.09185	0.09171	0.09233	0.09133	0.09081	AVG		0.09158		0.56154	15.00000	O
4-Chloro-3-Methylphenol	0.27479	0.27785	0.26197	0.24059	0.23213	0.21759	AVG		0.25082		9.74592	30.00000	O
2-Methylnaphthalene	0.62366	0.62027	0.61663	0.53017	0.54650	0.51658	AVG		0.57564		8.64502	15.00000	O
2,4,6-Trichlorophenol	0.35868	0.34791	0.36922	0.32358	0.33700	0.30294	AVG		0.33989		7.10679	30.00000	O
2,4,5-Trichlorophenol	0.36712	0.37728	0.38497	0.36398	0.35509	0.33900	AVG		0.36457		4.47074	15.00000	O
1,1’-Biphenyl	1.37683	1.36102	1.23908	1.02806	1.03812	0.86758	AVG		1.15178		17.83743	15.00000	W(
2-Chloronaphthalene	1.17158	1.29051	1.00580	1.08457	0.92364	1.13248	AVG		1.10143		11.67470	15.00000	O
2-Nitroaniline	0.30627	0.31773	0.33051	0.31053	0.28701	0.29453	AVG		0.30776		5.10179	15.00000	O
Dimethyl Phthalate	1.26942	1.21900	1.23541	1.17894	1.15053	1.09520	AVG		1.19142		5.29072	15.00000	O
2,6-Dinitrotoluene	0.28442	0.28620	0.28137	0.26459	0.26951	0.21922	AVG		0.26755		9.41320	15.00000	O
3-Nitroaniline	0.27550	0.30303	0.29954	0.28214	0.27820	0.28144	AVG		0.28664		4.06242	15.00000	O
2,4-Dinitrophenol	14638	47040	114717	199332	256312	315036	LNR	0.06030	0.16171		0.99783	0.99000	O

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-U
Lab File IDs : U0592.D U0593.D U0591.D U0594.D U0595.D U0596.D **Column ID:**
Calibration Date(s): 05-JUN-15 14:27 05-JUN-15 17:12

4-Nitrophenol	0.16915	0.19277	0.17691	0.18027	0.16952	0.16543	AVG		0.17567		5.69473	15.00000	O
Dibenzofuran	1.51744	1.45053	1.43146	1.28042	1.20378	1.07140	AVG		1.32584		12.84945	15.00000	O
2,4-Dinitrotoluene	0.34241	0.35643	0.33365	0.32936	0.32753	0.28582	AVG		0.32920		7.21472	15.00000	O
Diethylphthalate	1.33761	1.29246	1.22954	1.13597	1.07578	0.96640	AVG		1.17296		11.93972	15.00000	O
4-Chlorophenyl-phenylether	91427	197261	352314	500287	595758	697894	QUA	0.01905	1.21211	1.55793	0.99914	0.99000	O
4-Nitroaniline	0.22021	0.25058	0.22781	0.24823	0.23862	0.23947	AVG		0.23749		4.92623	15.00000	O
4,6-Dinitro-2-Methylphenol	0.10390	0.11287	0.12494	0.12323	0.12228	0.11225	AVG		0.11658		7.07161	15.00000	O
N-Nitrosodiphenylamine	0.59891	0.58732	0.61409	0.54875	0.50175	0.50991	AVG		0.56012		8.45559	30.00000	O
1,2-Diphenylhydrazine	0.76419	0.74810	0.74286	0.74851	0.66746	0.67333	AVG		0.72407		5.83238	15.00000	O
4-Bromophenyl-phenylether	0.20930	0.20257	0.20609	0.18534	0.18294	0.17522	AVG		0.19358		7.31512	15.00000	O
Hexachlorobenzene	0.24687	0.22971	0.23465	0.20329	0.21266	0.20237	AVG		0.22159		8.22158	15.00000	O
Pentachlorophenol	0.09189	0.09345	0.09785	0.09601	0.08967	0.08669	AVG		0.09259		4.42517	30.00000	O
Carbazole	0.79221	0.77417	0.73931	0.66321	0.67474	0.64695	AVG		0.71510		8.61746	15.00000	O
Di-n-butylphthalate	348758	738519	1210615	1885806	2196137	2594841	QUA	-0.00106	0.68349	0.18135	0.99916	0.99000	O
Benzidine	23689	78288	152324	287236	344499	460471	LNR	0.05435	0.28259		0.99846	0.99000	O
Butylbenzylphthalate	0.76323	0.71443	0.65664	0.60599	0.59293	0.58217	AVG		0.65257		11.21348	15.00000	O
3,3'-Dichlorobenzidine	0.21796	0.24217	0.26158	0.25634	0.26377	0.25175	AVG		0.24893		6.83562	15.00000	O
bis(2-Ethylhexyl)phthalate	1.04110	0.95875	0.86780	0.83329	0.82500	0.81310	AVG		0.88984		10.22660	15.00000	O
Di-n-octylphthalate	2.37847	2.07949	2.03205	2.18567	2.08464	2.20636	AVG		2.16111		5.81867	30.00000	O
2-Fluorophenol	1.17562	1.20290	1.18445	1.20074	1.22588	1.17173	AVG		1.19355		1.70259	15.00000	
Phenol-D6	1.44572	1.46478	1.44018	1.40919	1.34474	1.32454	AVG		1.40486		4.10048	15.00000	
Nitrobenzene-D5	0.33550	0.33905	0.32730	0.31663	0.30283	0.30003	AVG		0.32022		5.15240	15.00000	
2-Fluorobiphenyl	1.20810	1.15199	1.16435	0.96842	1.00091	0.94320	AVG		1.07283		10.69457	15.00000	
2,4,6-Tribromophenol	0.16926	0.16936	0.17446	0.15930	0.15587	0.15011	AVG		0.16306		5.76270	15.00000	
Terphenyl-D14	1.03876	1.04627	0.97491	0.85512	0.83198	0.80479	AVG		0.92531		11.65229	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-u.i\U060515.b\U0597.D
Report Date: 17-Jun-2015 13:15

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: WG164192-8
Level: LOW
Data Type: MS DATA
SpikeList File: INDcheck8270.spk
Sublist File: all_DOD.sub
Method File: \\target_server\gg\chem\gcms-u.i\U060515.b\U8270C77.m
Misc Info: WG164192,WG164192,WG164192-4,SI3942-1

Client SDG: 021497
Fraction: SV

Operator: JCG
SampleType: INDCHECK
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
1 1,4-Dioxane	50.0	50.6	101.31	80-120
3 Pyridine	50.0	58.4	116.79	80-120
2 N-Nitrosodimethyla	50.0	45.7	91.43	80-120
5 2-Picoline	50.0	61.5	123.09*	80-120
6 N-Nitrosomethyleth	50.0	55.0	109.96	80-120
7 Methyl Methanesulf	50.0	47.1	94.24	80-120
9 N-Nitrosodiethylam	50.0	54.5	108.99	80-120
10 Ethyl Methanesulfo	50.0	54.7	109.33	80-120
11 Benzaldehyde	50.0	21.9	43.73*	80-120
14 Aniline	50.0	55.5	111.10	80-120
13 Phenol	50.0	51.7	103.39	80-120
16 Bis(2-Chloroethyl)	50.0	59.8	119.64	80-120
17 2-Chlorophenol	50.0	54.6	109.27	80-120
18 1,3-Dichlorobenzen	50.0	54.5	109.03	80-120
20 1,4-Dichlorobenzen	50.0	55.5	111.09	80-120
22 Benzyl alcohol	50.0	51.5	103.09	80-120
21 1,2-Dichlorobenzen	50.0	55.4	110.73	80-120
25 2,2'-Oxybis(1-chlo	50.0	50.0	100.01	80-120
23 2-Methylphenol	50.0	56.6	113.21	80-120
26 Acetophenone	100	99.7	99.69	80-120
27 N-Nitrosopyrrolidi	50.0	54.9	109.79	80-120
30 N-Nitrosomorpholin	50.0	56.3	112.62	80-120
28 N-Nitroso-di-n-pro	50.0	50.2	100.50	80-120
29 3&4-Methylphenol	50.0	55.7	111.33	80-120
32 Hexachloroethane	50.0	53.9	107.88	80-120
31 o-Toluidine	50.0	54.4	108.86	80-120
34 Nitrobenzene	50.0	56.6	113.20	80-120
35 N-Nitrosopiperidin	50.0	54.0	108.01	80-120
36 Isophorone	50.0	53.1	106.20	80-120
37 2-Nitrophenol	50.0	53.4	106.77	80-120
38 2,4-Dimethylphenol	50.0	54.8	109.65	80-120
40 Bis(2-Chloroethoxy	50.0	49.8	99.62	80-120
39 O,O,O-Triethylphos	50.0	50.3	100.70	80-120
50 A,A-Dimethylphene	50.0	0.000	*	80-120
41 Benzoic acid	50.0	89.6	179.18*	80-120
42 2,4-Dichlorophenol	50.0	52.8	105.69	80-120
44 1,2,4-Trichloroben	50.0	53.0	106.05	80-120
46 Naphthalene	50.0	53.6	107.29	80-120
43 2,6-Dichlorophenol	50.0	54.2	108.44	80-120
47 4-Chloroaniline	50.0	51.6	103.17	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U060515.b\U0597.D
Report Date: 17-Jun-2015 13:15

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
48 Hexachloropropene	50.0	53.4	106.87	80-120
49 Hexachlorobutadien	50.0	54.9	109.82	80-120
51 N-Nitroso-Di-N-But	50.0	51.5	102.97	80-120
53 Caprolactam	50.0	56.4	112.75	80-120
52 p-Phenylenediamine	50.0	0.000	*	80-120
56 Isosafrole	50.0	50.8	101.71	80-120
55 4-Chloro-3-Methylp	50.0	56.7	113.45	80-120
57 2-Methylnaphthalen	50.0	54.7	109.46	80-120
58 1-Methylnaphthalen	50.0	54.2	108.43	80-120
60 1,2,4,5-Tetrachlor	100	91.9	91.94	80-120
59 Hexachlorocyclopen	50.0	41.5	83.03	80-120
61 2,4,6-Trichlorophe	50.0	55.7	111.39	80-120
62 2,4,5-Trichlorophe	50.0	56.4	112.76	80-120
54 Diethyl Adipate	50.0	0.000	*	80-120
64 Safrole	50.0	54.1	108.12	80-120
65 1,1'-Biphenyl	50.0	58.3	116.62	80-120
66 2-Chloronaphthalen	50.0	52.6	105.23	80-120
67 1-Chloronaphthalen	50.0	62.3	124.58*	80-120
69 2-Nitroaniline	50.0	56.6	113.24	80-120
70 1,4-Naphthoquinone	50.0	95.4	190.87*	80-120
72 Dimethyl Phthalate	50.0	54.7	109.48	80-120
73 1,3-Dinitrobenzene	50.0	53.6	107.18	80-120
75 Acenaphthylene	50.0	50.4	100.89	80-120
74 2,6-Dinitrotoluene	50.0	57.8	115.57	80-120
77 3-Nitroaniline	50.0	54.4	108.85	80-120
79 Acenaphthene	50.0	53.9	107.83	80-120
80 2,4-Dinitrophenol	50.0	54.9	109.81	80-120
83 Dibenzofuran	50.0	56.9	113.77	80-120
81 Pentachlorobenzene	50.0	55.0	109.93	80-120
82 4-Nitrophenol	50.0	55.7	111.46	80-120
84 2,4-Dinitrotoluene	50.0	53.3	106.63	80-120
85 1-Naphthylamine	50.0	48.9	97.87	80-120
88 2-Naphthylamine	50.0	55.4	110.80	80-120
87 2,3,4,6-Tetrachlor	50.0	53.6	107.13	80-120
89 Diethylphthalate	50.0	53.6	107.28	80-120
91 Fluorene	50.0	54.6	109.12	80-120
92 4-Chlorophenyl-phe	50.0	57.2	114.50	80-120
90 O,O-diethyl-o-2-py	50.0	56.2	112.50	80-120
93 5-Nitro-O-Toluidin	50.0	54.2	108.40	80-120
94 4-Nitroaniline	50.0	53.5	107.10	80-120
96 N-Nitrosodiphenyla	100	83.6	83.57	80-120
95 4,6-Dinitro-2-Meth	50.0	56.7	113.40	80-120
98 1,2-Diphenylhydraz	50.0	56.2	112.45	80-120
101 Sulfotepp	50.0	49.1	98.12	80-120
102 Diallate	50.0	56.1	112.17	80-120
103 Phorate	50.0	22.5	44.95*	80-120
105 4-Bromophenyl-phen	50.0	54.7	109.44	80-120
106 Phenacetin	50.0	47.4	94.73	80-120
104 1,3,5-Trinitrobenz	50.0	55.0	109.99	80-120
107 Hexachlorobenzene	50.0	55.1	110.21	80-120
108 Dimethoate	50.0	53.2	106.50	80-120
109 Atrazine	50.0	29.0	57.91*	80-120
110 4-Aminobiphenyl	50.0	45.1	90.13	80-120
111 Pentachlorophenol	50.0	54.4	108.86	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U060515.b\U0597.D
Report Date: 17-Jun-2015 13:15

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
113 Pronamide	50.0	54.3	108.55	80-120
112 Pentachloronitrobe	50.0	54.0	107.95	80-120
116 Phenanthrene	50.0	50.0	99.99	80-120
115 Disulfoton	50.0	47.8	95.50	80-120
118 Anthracene	50.0	52.2	104.39	80-120
117 Dinoseb	50.0	0.000	*	80-120
119 Carbazole	50.0	52.5	104.95	80-120
120 Methyl Parathion	50.0	51.0	101.98	80-120
121 Di-n-butylphthalat	50.0	54.8	109.70	80-120
122 Ethyl Parathion	50.0	45.8	91.70	80-120
123 4-Nitroquinoline-1	50.0	52.9	105.77	80-120
124 Methapyrilene	50.0	40.9	81.77	80-120
125 Isodrin	50.0	54.0	107.93	80-120
126 Fluoranthene	50.0	49.8	99.67	80-120
127 Benzidine	50.0	46.8	93.66	80-120
128 Pyrene	50.0	54.4	108.80	80-120
130 Aramite	50.0	0.000	*	80-120
131 p-Dimethylaminoazo	50.0	57.4	114.87	80-120
133 Chlorobenzilate	50.0	54.4	108.91	80-120
134 Famphur	50.0	30.8	61.54*	80-120
135 3,3'-Dimethylbenzi	50.0	97.0	194.05*	80-120
136 Butylbenzylphthala	50.0	53.5	107.09	80-120
137 Bis(2-ethylhexyl)a	50.0	51.9	103.89	80-120
138 2-Acetylaminofluor	50.0	57.1	114.25	80-120
140 Benzo(a)anthracene	50.0	51.9	103.74	80-120
139 3,3'-Dichlorobenzi	50.0	53.4	106.76	80-120
141 Chrysene	50.0	55.2	110.33	80-120
143 bis(2-Ethylhexyl)p	50.0	53.8	107.66	80-120
132 Kepone	50.0	0.000	*	80-120
144 Di-n-octylphthalat	50.0	50.8	101.55	80-120
147 Benzo(b)fluoranthe	50.0	49.8	99.60	80-120
146 7,12-Dimethylbenz(	50.0	49.9	99.81	80-120
148 Benzo(k)fluoranthe	50.0	52.4	104.87	80-120
145 Hexachlorophene	50.0	0.000	*	80-120
149 Benzo(a)pyrene	50.0	49.3	98.64	80-120
151 3-Methylcholanthre	50.0	53.3	106.54	80-120
152 Dibenz(a,j)acridin	50.0	51.0	101.98	80-120
153 Indeno(1,2,3-cd)py	50.0	53.8	107.55	80-120
155 Dibenzo(a,h)anthra	50.0	52.5	105.06	80-120
156 Benzo(g,h,i)peryle	50.0	52.5	104.96	80-120

SURROGATE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	35-105
$ 12 Phenol-D6	100	0.000	*	40-100
$ 33 Nitrobenzene-D5	50.0	0.000	*	35-100
$ 63 2-Fluorobiphenyl	50.0	0.000	*	45-105
$ 100 2,4,6-Tribromophe	100	0.000	*	35-125
$ 129 Terphenyl-D14	50.0	0.000	*	30-125

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164360-2
Analytical Date: 06/08/15 11:20
Lab File ID : U0611.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 06/05/15 14:27 06/05/15 17:12
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
13 Phenol	1.60714	1.63410	1.63410	0.010	1.67721	20.01000	Averaged	
16 Bis(2-Chloroethyl)ether	1.13595	1.15887	1.15887	0.010	2.01752	20.00000	Averaged	
17 2-Chlorophenol	1.23823	1.20567	1.20567	0.010	-2.63003	20.00000	Averaged	
18 1,3-Dichlorobenzene	1.37388	1.41556	1.41556	0.010	3.03409	20.00000	Averaged	
20 1,4-Dichlorobenzene	1.31557	1.34327	1.34327	0.010	2.10559	20.01000	Averaged	
21 1,2-Dichlorobenzene	1.25960	1.26754	1.26754	0.010	0.63041	20.00000	Averaged	
22 Benzyl alcohol	0.77564	0.80075	0.80075	0.010	3.23819	20.00000	Averaged	
23 2-Methylphenol	1.15090	1.11708	1.11708	0.010	-2.93886	20.00000	Averaged	
25 2,2'-Oxybis(1-chloropropane	1.64128	1.58612	1.58612	0.010	-3.36089	20.00000	Averaged	
28 N-Nitroso-di-n-propylamine	0.80599	0.77305	0.77305	0.050	-4.08729	20.00000	Averaged	
29 3&4-Methylphenol	1.24177	1.24773	1.24773	0.010	0.47972	20.00000	Averaged	
32 Hexachloroethane	0.54684	0.53565	0.53565	0.010	-2.04570	20.00000	Averaged	
34 Nitrobenzene	0.29984	0.30602	0.30602	0.010	2.06088	20.00000	Averaged	
36 Isophorone	0.60918	0.59356	0.59356	0.010	-2.56383	20.00000	Averaged	
37 2-Nitrophenol	0.17847	0.17594	0.17594	0.010	-1.42304	20.01000	Averaged	
38 2,4-Dimethylphenol	0.30072	0.31192	0.31192	0.010	3.72493	20.00000	Averaged	
40 Bis(2-Chloroethoxy)methane	0.38382	0.37773	0.37773	0.010	-1.58541	20.00000	Averaged	
41 Benzoic acid	50.00000	60.35744	0.15147	0.010	20.71487	20.00000	Quadratic	*
42 2,4-Dichlorophenol	0.25557	0.25990	0.25990	0.010	1.69455	20.01000	Averaged	
43 2,6-Dichlorophenol	0.20136	0.20161	0.20161	0.010	0.12616	20.00000	Averaged	
44 1,2,4-Trichlorobenzene	0.26569	0.27165	0.27165	0.010	2.24241	20.00000	Averaged	
47 4-Chloroaniline	0.33430	0.34140	0.34140	0.010	2.12487	20.00000	Averaged	
49 Hexachlorobutadiene	0.13970	0.14466	0.14466	0.010	3.55077	20.01000	Averaged	
53 Caprolactam	0.09158	0.08577	0.08577	0.010	-6.34908	20.00000	Averaged	
55 4-Chloro-3-Methylphenol	0.25082	0.24128	0.24128	0.010	-3.80389	20.01000	Averaged	
61 2,4,6-Trichlorophenol	0.33989	0.37379	0.37379	0.010	9.97339	20.01000	Averaged	
62 2,4,5-Trichlorophenol	0.36457	0.39336	0.39336	0.010	7.89496	20.00000	Averaged	
65 1,1'-Biphenyl	1.15178	1.28132	1.28132	0.010	11.24671	20.00000	Averaged	
66 2-Chloronaphthalene	1.10143	1.12520	1.12520	0.010	2.15828	20.00000	Averaged	
69 2-Nitroaniline	0.30776	0.30768	0.30768	0.010	-0.02755	20.00000	Averaged	
72 Dimethyl Phthalate	1.19142	1.19368	1.19368	0.010	0.18989	20.00000	Averaged	
74 2,6-Dinitrotoluene	0.26755	0.27305	0.27305	0.010	2.05517	20.00000	Averaged	
77 3-Nitroaniline	0.28664	0.29052	0.29052	0.010	1.35216	20.00000	Averaged	
80 2,4-Dinitrophenol	50.00000	55.47390	0.17161	0.050	10.94779	20.00000	Linear	
82 4-Nitrophenol	0.17567	0.19910	0.19910	0.050	13.33568	20.00000	Averaged	
83 Dibenzofuran	1.32584	1.45618	1.45618	0.010	9.83135	20.00000	Averaged	
84 2,4-Dinitrotoluene	0.32920	0.34568	0.34568	0.010	5.00662	20.00000	Averaged	
89 Diethylphthalate	1.17296	1.19657	1.19657	0.010	2.01244	20.00000	Averaged	
92 4-Chlorophenyl-phenylether	50.00000	50.06988	0.46548	0.010	0.13975	20.00000	Quadratic	
94 4-Nitroaniline	0.23749	0.26194	0.26194	0.010	10.29734	20.00000	Averaged	
95 4,6-Dinitro-2-Methylphenol	0.11658	0.12712	0.12712	0.010	9.04143	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164360-2
Analytical Date: 06/08/15 11:20
Lab File ID : U0611.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 06/05/15 14:27 06/05/15 17:12
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
96 N-Nitrosodiphenylamine	0.56012	0.55366	0.55366	0.010	-1.15261	20.01000	Averaged
98 1,2-Diphenylhydrazine	0.72407	0.70536	0.70536	0.010	-2.58413	20.00000	Averaged
105 4-Bromophenyl-phenylether	0.19358	0.18782	0.18782	0.010	-2.97537	20.00000	Averaged
107 Hexachlorobenzene	0.22159	0.21506	0.21506	0.010	-2.94874	20.00000	Averaged
111 Pentachlorophenol	0.09259	0.10355	0.10355	0.010	11.83599	20.01000	Averaged
119 Carbazole	0.71510	0.75439	0.75439	0.010	5.49441	20.00000	Averaged
121 Di-n-butylphthalate	50.00000	50.06418	1.07963	0.010	0.12836	20.00000	Quadratic
127 Benzidine	50.00000	49.83976	0.26940	0.010	-0.32048	20.00000	Linear
136 Butylbenzylphthalate	0.65257	0.63197	0.63197	0.010	-3.15619	20.00000	Averaged
139 3,3'-Dichlorobenzidine	0.24893	0.24114	0.24114	0.010	-3.12615	20.00000	Averaged
143 bis(2-Ethylhexyl)phthalate	0.88984	0.81862	0.81862	0.010	-8.00400	20.00000	Averaged
144 Di-n-octylphthalate	2.16111	2.04424	2.04424	0.010	-5.40810	20.01000	Averaged
8 2-Fluorophenol	1.19355	1.21832	1.21832	0.010	2.07516	20.00000	Averaged
12 Phenol-D6	1.40486	1.41055	1.41055	0.010	0.40533	20.00000	Averaged
33 Nitrobenzene-D5	0.32022	0.32652	0.32652	0.010	1.96476	20.00000	Averaged
63 2-Fluorobiphenyl	1.07283	1.19558	1.19558	0.010	11.44136	20.00000	Averaged
100 2,4,6-Tribromophenol	0.16306	0.17177	0.17177	0.010	5.34287	20.00000	Averaged
129 Terphenyl-D14	0.92531	0.90387	0.90387	0.010	-2.31641	20.00000	Averaged

*** = Compound out of QC criteria**

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 050515

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164192-1	50ng DFTPP	UD381	1	1	DFTPP 390	2.0	JCL	OK
-4	SSTD050	U0605		2	U8270C77	1.0		✓
-2	010	92		3				✓
-3	025	93		4				✓
-4	075	94		5				✓
-6	100	95		6				✓
-7	125	96		7				✓
-8	150	97		8				OK
3550	WG164216-1	98		9				OK
	WG164249-1	99		10				OK
3550	WG164216-2	U0600		11				OK
	WG164249-2	01		12				OK not needed
	SI3799-1	02		13				—
	-2	03		14				—
	-3	04		15				—
	-4	05		16				—
	SI3837-1	06		17				—
	SI3862-3	07		18				OK
	WG164249-3	08		19				— not needed
	-4	09		20				—
	SI3788-5	10		21				—
	-1DL	11	3	22				not run; inst fault
	-1	12	1	23				
	SI3862-1DL	13	10	24				
	-2DL	14		25				
	WG164216-3DL	15		26				
	-4DL	16		27				
	meOH	17-21	1	28				

STANDARD	CODE
DFTPP	52611
CAL. STD.	52615 STK497
IS MIX	STK944

REVIEWED AND APPROVED BY: _____
DATE: _____

DATE OF DFTPP INJECTION: 060815

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG1BY360-1	50ng DFTPP	UD382	1	1	DFTPP390	2.0	JLK	JK
-2	SSTD050U0608	U2611	1	2	U8270C77	1.0		JK
3550	SF3862-1DL	12	10	3				—
	-2DL	13	10	4				—
	-1DL	14	5	5				1562
	-2DL	15	5	6				1562
		16-17	1	7				—
	MeOH	18		8				

STANDARD	CODE
DFTPP	52611
CAL. STD.	52615 STK4917
IS MIX	STK4944

REVIEWED AND APPROVED BY: _____
DATE: _____

S/S

SOV

KATAHDIN ANALYTICAL SERVICES, INC.

ORGANIC EXTRACTIONS LOG - SOIL SEMIVOLATILE

Extraction Method:	SW846 3550 (SONIC.) ✓	SW846 3540 (SOX)	SW846 3545 (ASE)	SW846 3580 (OIL / WIPES)
Analytical Method:	SW846 8270 ✓	OTHER		
Standards	Surrogate ID (1): SV 2717	Spike ID (1): SV 2716 (SIM)	Spike ID (3):	
	Surrogate ID (2):	Spike ID (2): SV 2715 (SV		
Solvents / Chemicals / Consumables	Solvent Lot # (Mecl2): DM824	Solvent Lot # (Acetone): DL474	Sodium Sulfate (granular) Lot # 27965001	
	Filter Paper Lot # (SON) F0094189	Filter Paper Lot # (KD) 96181511	Sodium Sulfate (powder) Lot # 27975002	
Misc.	Nitrogen Bath Temperature: 37°C	Sonicator Horns Tuned: 40%	Balance ID: Mettler PJ400	
Prep Start Time: 1047	Prep Stop Time: 1410	Sox Start Time: —	Sox End Time: —	

Ext. Date	Ext. Init.	Sample ID	Initial Weight (g)	Surr. Vol. (mL)	Spk. Vol. (mL)	Fraction SOXN	Fraction SIM	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc. SV033	Co SV ext not [illegible]
6-5-15	WAS	WG-164181-1 WG-164216-1	30.00	1mL	NA	✓	✓				6-5-15	TMS	1mL	B9	SIM-R320334
		WG-164181-2	29.97		1mL									B10	SV-
		-3	30.43											C1	MS SD3800-9
		-4	33.12											2	used -9
		WG-164216-2	29.99			✓								3	
		-3	32.08										5mL	PP217 C8	MS SD3862-1
		-4	31.87											C9	used -1

EX-008 – Revision 2 – 12/05/2013

QAEX287

0000012

Ext. Date	Ext. Init.	Sample ID	Initial Weight (g)	Surr. Vol. (mL)	Spk. Vol. (mL)	Fraction SOXN	Fraction SIM	Pre-GPC Date Conc.	Pre-GPC Conc. Init.	Pre-GPC Final Vol. (mL)	Post-GPC Date Conc.	Post-GPC Conc. Init.	Post-GPC Final Vol. (mL)	Tray Loc.	Comments
6-8-15	WAS	SD3800-3 C	31.50	1mL	NA		✓				6-5-15	TMS	1mL	~~SV033~~ C4	
		-6	30.90											5	
		-9	31.40											6	used
		-10	30.15											7	
		-15	32.18											8	
		-16	30.26											9	
		-17	31.62											10	
		-18	31.60											D1	
		-19	30.00											2	
		-20	31.51											3	
		-21	30.58											4	
		-29	31.68											5	
		-32	30.36											6	
		-34	30.32											7	
		-35	30.58											8	
		-36	30.97											9	
		-37	32.18											10	
		-11	33.49				✓						✓	E1	re
		SD3862-1	31.77			✓							5mL	PP217 C10	used
		-2	30.09										5mL	C11	

Reviewed By_____ Date_____

EX-008 – Revision 2 – 12/05/2013

QAEX287

0000013

625/SV/SIM
SEP

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) ✓		SW846 3520 (CLLE)		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625 ✓	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV2717		Spike ID (1): SV2715		
	Surrogate ID (2):		Spike ID (2): SIM: SV2716		
Solvents/Acid/Base	Solvent Lot # (Mecl2): DM824		H_2SO_4 Lot # 71333		NaOH Lot # 62534
Consumables	Filter Paper Lot # 96181511		$NaSO_4$ Lot # 2965002		
Nitrogen Water Bath Temperature 36°C			pH (1st Extraction) 52		pH (2nd Extraction) 211
Prep Start Time: 1300	Prep End Time: 1525		CLLE Start Time:		CLLE End Time:

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
6-5-15	KF	WG164237-1 (625)								SV D33		625-R320366
		WG164249-1	1000	1mL	NR	✓	✓	1mL	6-5-15	E2	JMS	SV-R
		WG164250-1										SIM-R320464
		WG164237-2			1mL	✓				E3		
		WG164249-2										
		WG164250-2					✓			E4		
		WG164249-3	930			✓				E5		MS 513799-1W
		-4	970			✓				E6		MSD " -1X
		WG164250-3	1050				✓			E7		MS 513860-2M EM-SS
		-4	950				✓			E8		MSD " -2N EM-SS
									KF	6-5-15		

EX-007 – Revision 2 – 12/05/2013

QAEX284 0000072

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
6-5-15	KF	513810-1F	930	1mL	NR	✓		1mL	6-5-15	E9	JMS	625
		513799-1Y	890			✓	✓			E10		MS/D
		-2F	1020							SV D34 A1		
		-3F	950							A2		
		-4F	940							A3		
		513837-1J	1060				✓			A4		
		513860-1E	1060				✓			A5		EM-S.S. cent
		-2P	930							A6		MS/D cent
		-3F	800							A7		cent
		-4E	850							A8		cent
		-7E	800							A9		cent
		-8E	1030							A10		cent
		-9E	1050							B1		Sm-em S.S.
		513862-3E	1010			✓	✓			B2		
									KF	6-5-15		

Reviewed By_____ Date_____

EX-007 – Revision 2 – 12/05/2013

QAEX284

SPLP SEMIVOLATILE SIM DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	2MN	#	DBP	#	FLO	#	PYR	#
SITE4TS-FB	SI3862-6		73.4		88.5		90.4		64.7	
SITE4TS-XX	SI3862-7		67.2		70.8		80.1		64.6	
Method Blank Sample	WG164595-1RA		67.8		67.2		66.9		97.6	
Laboratory Control S	WG164595-2RA		68.2		57.6		65.5		80.6	
Method Blank Sample	WG165249-1		76.6		80.6		75.0		102.	
Laboratory Control S	WG165249-2		65.9		73.7		69.5		85.8	
Laboratory Control S	WG165249-3		61.5		66.5		63.8		85.2	
SPLP Blank	WG165249-4		63.2		71.4		65.9		87.1	
Matrix Spike	WG165249-5		70.7		86.9		88.8		65.5	
Matrix Spike Duplica	WG165249-6		63.0		90.3		103.	*	76.6	

		QC Limits
DBP	2,4-DIBROMOPHENOL	10-130
2MN	2-METHYLNAPHTHALENE-D10	43-92
FLO	FLUORENE-D10	29-101
PYR	PYRENE-D10	53-166

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : N6599.D
Instrument ID : GCMS-N
Matrix : AQ

SDG : SI3862
Lab Sample ID : WG164595-1RA
Date Extracted : 11-JUN-15
Date Analyzed : 15-JUN-15
Time Analyzed : 13:21

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG164595-2RA	N6600.D	06/15/15	13:48
SITE4TS-FB	SI3862-6	N6630.D	06/16/15	11:20
SITE4TS-XX	SI3862-7	N6631.D	06/16/15	11:48

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : N6785.D
Instrument ID : GCMS-N
Matrix : AQ

SDG : SI3862
Lab Sample ID : WG165249-1
Date Extracted : 22-JUN-15
Date Analyzed : 23-JUN-15
Time Analyzed : 16:20

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
SPLP Blank	WG165249-4	N6786.D	06/23/15	16:48
Laboratory Control S	WG165249-2	N6787.D	06/23/15	17:16
Laboratory Control S	WG165249-3	N6788.D	06/23/15	17:45
Matrix Spike	WG165249-5	N6789.D	06/23/15	18:13
Matrix Spike Duplica	WG165249-6	N6790.D	06/23/15	18:41

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164595-1RA
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: N6599.D

Sample Date:
Received Date:
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 15-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Bis(2-Chloroethyl)Ether	U	0.10	ug/L	1	.2	0.20	0.041	0.10
2-Chlorophenol	U	0.50	ug/L	1	1	1.0	0.28	0.50
2,2'-Oxybis(1-Chloropropane)	U	0.15	ug/L	1	.2	0.20	0.12	0.15
3&4-Methylphenol	U	0.50	ug/L	1	1	1.0	0.44	0.50
N-Nitroso-Di-N-Propylamine	U	0.10	ug/L	1	.2	0.20	0.072	0.10
Hexachloroethane	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Nitrobenzene	U	0.15	ug/L	1	.2	0.20	0.13	0.15
2-Nitrophenol	U	1.0	ug/L	1	2	2.0	0.81	1.0
Bis(2-Chloroethoxy)Methane	U	0.25	ug/L	1	.5	0.50	0.18	0.25
2,4-Dichlorophenol	U	1.0	ug/L	1	2	2.0	0.89	1.0
Naphthalene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
4-Chloroaniline	U	1.5	ug/L	1	3	3.0	1.4	1.5
Hexachlorobutadiene	U	0.10	ug/L	1	.2	0.20	0.087	0.10
2-Methylnaphthalene	U	0.10	ug/L	1	.2	0.20	0.077	0.10
Hexachlorocyclopentadiene	U	0.10	ug/L	1	.2	0.20	0.067	0.10
2,4,6-Trichlorophenol	U	0.50	ug/L	1	1	1.0	0.12	0.50
2,4,5-Trichlorophenol	U	0.50	ug/L	1	1	1.0	0.078	0.50
1,1'-Biphenyl	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2-Nitroaniline	U	0.15	ug/L	1	.2	0.20	0.12	0.15
2,6-Dinitrotoluene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
2,4-Dinitrophenol	U	0.50	ug/L	1	1	1.0	0.24	0.50
4-Nitrophenol	U	0.50	ug/L	1	1	1.0	0.23	0.50
Dibenzofuran	U	0.10	ug/L	1	.2	0.20	0.068	0.10
2,4-Dinitrotoluene	U	0.10	ug/L	1	.2	0.20	0.035	0.10
4-Chlorophenyl-Phenylether	U	0.25	ug/L	1	.5	0.50	0.16	0.25
4-Nitroaniline	U	0.10	ug/L	1	.2	0.20	0.065	0.10
4,6-Dinitro-2-Methylphenol	U	0.75	ug/L	1	1	1.0	0.50	0.75
N-Nitrosodiphenylamine	U	0.10	ug/L	1	.2	0.20	0.071	0.10
1,2,4,5-Tetrachlorobenzene	U	0.10	ug/L	1	.2	0.20	0.037	0.10
Hexachlorobenzene	U	0.10	ug/L	1	.2	0.20	0.055	0.10
Atrazine	U	0.10	ug/L	1	.2	0.20	0.038	0.10
Pentachlorophenol	U	0.50	ug/L	1	1	1.0	0.33	0.50
Phenanthrene	U	0.10	ug/L	1	.2	0.20	0.051	0.10
Anthracene	U	0.10	ug/L	1	.2	0.20	0.044	0.10

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Report of Analytical Results

Client:
Lab ID: WG164595-1RA
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: N6599.D

Sample Date:
Received Date:
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 15-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Di-N-Butylphthalate	U	1.0	ug/L	1	2	2.0	0.83	1.0
Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Pyrene	U	0.10	ug/L	1	.2	0.20	0.059	0.10
Butylbenzylphthalate	U	0.50	ug/L	1	1	1.0	0.13	0.50
3,3'-Dichlorobenzidine	U	0.10	ug/L	1	.2	0.20	0.056	0.10
Benzo(a)anthracene	U	0.10	ug/L	1	.2	0.20	0.046	0.10
Chrysene	U	0.10	ug/L	1	.2	0.20	0.036	0.10
Bis(2-Ethylhexyl)Phthalate	U	0.50	ug/L	1	1	1.0	0.50	0.50
Di-N-Octylphthalate	U	0.50	ug/L	1	1	1.0	0.079	0.50
Benzo(b)Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.089	0.10
Benzo(k)fluoranthene	U	0.10	ug/L	1	.2	0.20	0.049	0.10
Benzo(a)pyrene	U	0.10	ug/L	1	.2	0.20	0.066	0.10
Indeno(1,2,3-cd)pyrene	U	0.10	ug/L	1	.2	0.20	0.052	0.10
Dibenzo(a,h)anthracene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
Benzo(g,h,i)perylene	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2,3,4,6-Tetrachlorophenol	U	0.50	ug/L	1	1	1.0	0.071	0.50
2-Methylnaphthalene-D10		67.8	%					
Fluorene-D10		66.9	%					
Pyrene-D10		97.6	%					
2,4-Dibromophenol		67.2	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165249-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: N6785.D

Sample Date:
Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: SW846 3510
Lab Prep Batch: WG165249

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Bis(2-Chloroethyl)Ether	U	0.10	ug/L	1	.2	0.20	0.041	0.10
2-Chlorophenol	U	0.50	ug/L	1	1	1.0	0.28	0.50
2,2'-Oxybis(1-Chloropropane)	U	0.15	ug/L	1	.2	0.20	0.12	0.15
3&4-Methylphenol	U	0.50	ug/L	1	1	1.0	0.44	0.50
N-Nitroso-Di-N-Propylamine	U	0.10	ug/L	1	.2	0.20	0.072	0.10
Hexachloroethane	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Nitrobenzene	U	0.15	ug/L	1	.2	0.20	0.13	0.15
2-Nitrophenol	U	1.0	ug/L	1	2	2.0	0.81	1.0
Bis(2-Chloroethoxy)Methane	U	0.25	ug/L	1	.5	0.50	0.18	0.25
2,4-Dichlorophenol	U	1.0	ug/L	1	2	2.0	0.89	1.0
Naphthalene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
4-Chloroaniline	U	1.5	ug/L	1	3	3.0	1.4	1.5
Hexachlorobutadiene	U	0.10	ug/L	1	.2	0.20	0.087	0.10
2-Methylnaphthalene	U	0.10	ug/L	1	.2	0.20	0.077	0.10
Hexachlorocyclopentadiene	U	0.10	ug/L	1	.2	0.20	0.067	0.10
2,4,6-Trichlorophenol	U	0.50	ug/L	1	1	1.0	0.12	0.50
2,4,5-Trichlorophenol	U	0.50	ug/L	1	1	1.0	0.078	0.50
1,1'-Biphenyl	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2-Nitroaniline	U	0.15	ug/L	1	.2	0.20	0.12	0.15
2,6-Dinitrotoluene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
2,4-Dinitrophenol	U	0.50	ug/L	1	1	1.0	0.24	0.50
4-Nitrophenol	U	0.50	ug/L	1	1	1.0	0.23	0.50
Dibenzofuran	U	0.10	ug/L	1	.2	0.20	0.068	0.10
2,4-Dinitrotoluene	U	0.10	ug/L	1	.2	0.20	0.035	0.10
4-Chlorophenyl-Phenylether	U	0.25	ug/L	1	.5	0.50	0.16	0.25
4-Nitroaniline	U	0.10	ug/L	1	.2	0.20	0.065	0.10
4,6-Dinitro-2-Methylphenol	U	0.75	ug/L	1	1	1.0	0.50	0.75
N-Nitrosodiphenylamine	U	0.10	ug/L	1	.2	0.20	0.071	0.10
1,2,4,5-Tetrachlorobenzene	U	0.10	ug/L	1	.2	0.20	0.037	0.10
Hexachlorobenzene	U	0.10	ug/L	1	.2	0.20	0.055	0.10
Atrazine	U	0.10	ug/L	1	.2	0.20	0.038	0.10
Pentachlorophenol	U	0.50	ug/L	1	1	1.0	0.33	0.50
Phenanthrene	U	0.10	ug/L	1	.2	0.20	0.051	0.10
Anthracene	U	0.10	ug/L	1	.2	0.20	0.044	0.10

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165249-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: N6785.D

Sample Date:
Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: SW846 3510
Lab Prep Batch: WG165249

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Di-N-Butylphthalate	U	1.0	ug/L	1	2	2.0	0.83	1.0
Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Pyrene	U	0.10	ug/L	1	.2	0.20	0.059	0.10
Butylbenzylphthalate	U	0.50	ug/L	1	1	1.0	0.13	0.50
3,3'-Dichlorobenzidine	U	0.10	ug/L	1	.2	0.20	0.056	0.10
Benzo(a)anthracene	U	0.10	ug/L	1	.2	0.20	0.046	0.10
Chrysene	U	0.10	ug/L	1	.2	0.20	0.036	0.10
Bis(2-Ethylhexyl)Phthalate	U	0.50	ug/L	1	1	1.0	0.50	0.50
Di-N-Octylphthalate	U	0.50	ug/L	1	1	1.0	0.079	0.50
Benzo(b)Fluoranthene	J	0.16	ug/L	1	.2	0.20	0.089	0.10
Benzo(k)fluoranthene	J	0.065	ug/L	1	.2	0.20	0.049	0.10
Benzo(a)pyrene	U	0.10	ug/L	1	.2	0.20	0.066	0.10
Indeno(1,2,3-cd)pyrene	U	0.10	ug/L	1	.2	0.20	0.052	0.10
Dibenzo(a,h)anthracene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
Benzo(g,h,i)perylene	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2,3,4,6-Tetrachlorophenol	U	0.50	ug/L	1	1	1.0	0.071	0.50
2-Methylnaphthalene-D10		76.6	%					
Fluorene-D10		75.0	%					
Pyrene-D10		102.	%					
2,4-Dibromophenol		80.6	%					

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165249-4
Client ID: SPLP Blank
Project:
SDG: SI3862
Lab File ID: N6786.D

Sample Date:
Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: 3510/1312
Lab Prep Batch: WG165249

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Bis(2-Chloroethyl)Ether	U	0.099	ug/L	1	.2	0.20	0.040	0.099
2-Chlorophenol	U	0.50	ug/L	1	1	0.99	0.28	0.50
2,2'-Oxybis(1-Chloropropane)	U	0.15	ug/L	1	.2	0.20	0.12	0.15
3&4-Methylphenol	U	0.50	ug/L	1	1	0.99	0.44	0.50
N-Nitroso-Di-N-Propylamine	U	0.099	ug/L	1	.2	0.20	0.071	0.099
Hexachloroethane	U	0.099	ug/L	1	.2	0.20	0.072	0.099
Nitrobenzene	U	0.15	ug/L	1	.2	0.20	0.13	0.15
2-Nitrophenol	U	0.99	ug/L	1	2	2.0	0.80	0.99
Bis(2-Chloroethoxy)Methane	U	0.25	ug/L	1	.5	0.50	0.18	0.25
2,4-Dichlorophenol	U	0.99	ug/L	1	2	2.0	0.88	0.99
Naphthalene	U	0.099	ug/L	1	.2	0.20	0.063	0.099
4-Chloroaniline	U	1.5	ug/L	1	3	3.0	1.4	1.5
Hexachlorobutadiene	U	0.099	ug/L	1	.2	0.20	0.086	0.099
2-Methylnaphthalene	U	0.099	ug/L	1	.2	0.20	0.076	0.099
Hexachlorocyclopentadiene	U	0.099	ug/L	1	.2	0.20	0.066	0.099
2,4,6-Trichlorophenol	U	0.50	ug/L	1	1	0.99	0.12	0.50
2,4,5-Trichlorophenol	U	0.50	ug/L	1	1	0.99	0.077	0.50
1,1'-Biphenyl	U	0.099	ug/L	1	.2	0.20	0.064	0.099
2-Nitroaniline	U	0.15	ug/L	1	.2	0.20	0.12	0.15
2,6-Dinitrotoluene	U	0.099	ug/L	1	.2	0.20	0.069	0.099
2,4-Dinitrophenol	U	0.50	ug/L	1	1	0.99	0.24	0.50
4-Nitrophenol	U	0.50	ug/L	1	1	0.99	0.23	0.50
Dibenzofuran	U	0.099	ug/L	1	.2	0.20	0.067	0.099
2,4-Dinitrotoluene	U	0.099	ug/L	1	.2	0.20	0.035	0.099
4-Chlorophenyl-Phenylether	U	0.25	ug/L	1	.5	0.50	0.16	0.25
4-Nitroaniline	U	0.099	ug/L	1	.2	0.20	0.064	0.099
4,6-Dinitro-2-Methylphenol	U	0.74	ug/L	1	1	0.99	0.50	0.74
N-Nitrosodiphenylamine	U	0.099	ug/L	1	.2	0.20	0.070	0.099
1,2,4,5-Tetrachlorobenzene	U	0.099	ug/L	1	.2	0.20	0.037	0.099
Hexachlorobenzene	U	0.099	ug/L	1	.2	0.20	0.054	0.099
Atrazine	U	0.099	ug/L	1	.2	0.20	0.038	0.099
Pentachlorophenol	U	0.50	ug/L	1	1	0.99	0.33	0.50
Phenanthrene	U	0.099	ug/L	1	.2	0.20	0.050	0.099
Anthracene	U	0.099	ug/L	1	.2	0.20	0.044	0.099

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165249-4
Client ID: SPLP Blank
Project:
SDG: SI3862
Lab File ID: N6786.D

Sample Date:
Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: 3510/1312
Lab Prep Batch: WG165249

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Di-N-Butylphthalate	U	0.99	ug/L	1	2	2.0	0.82	0.99
Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.072	0.099
Pyrene	U	0.099	ug/L	1	.2	0.20	0.058	0.099
Butylbenzylphthalate	U	0.50	ug/L	1	1	0.99	0.13	0.50
3,3'-Dichlorobenzidine	U	0.099	ug/L	1	.2	0.20	0.055	0.099
Benzo(a)anthracene	U	0.099	ug/L	1	.2	0.20	0.046	0.099
Chrysene	U	0.099	ug/L	1	.2	0.20	0.036	0.099
Bis(2-Ethylhexyl)Phthalate	U	0.50	ug/L	1	1	0.99	0.50	0.50
Di-N-Octylphthalate	U	0.50	ug/L	1	1	0.99	0.078	0.50
Benzo(b)Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.088	0.099
Benzo(k)fluoranthene	U	0.099	ug/L	1	.2	0.20	0.048	0.099
Benzo(a)pyrene	U	0.099	ug/L	1	.2	0.20	0.065	0.099
Indeno(1,2,3-cd)pyrene	U	0.099	ug/L	1	.2	0.20	0.051	0.099
Dibenzo(a,h)anthracene	U	0.099	ug/L	1	.2	0.20	0.069	0.099
Benzo(g,h,i)perylene	U	0.099	ug/L	1	.2	0.20	0.064	0.099
2,3,4,6-Tetrachlorophenol	U	0.50	ug/L	1	1	0.99	0.070	0.50
2-Methylnaphthalene-D10		63.2	%					
Fluorene-D10		65.9	%					
Pyrene-D10		87.1	%					
2,4-Dibromophenol		71.4	%					

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164595-2RA
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: N6600.D

Sample Date:
Received Date:
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 15-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Bis(2-Chloroethyl)Ether	81.5	2.00	1.63	ug/L	56-87
2-Chlorophenol	50.0	4.00	2.00	ug/L	30-112
2,2'-Oxybis(1-Chloropropane)	60.5	2.00	1.21	ug/L	57-90
3&4-Methylphenol	50.0	4.00	2.00	ug/L	31-78
N-Nitroso-Di-N-Propylamine	58.0	2.00	1.16	ug/L	43-86
Hexachloroethane	56.5	2.00	1.13	ug/L	48-80
Nitrobenzene	* 116.	2.00	2.32	ug/L	43-89
2-Nitrophenol	51.8	4.00	2.07	ug/L	30-113
Bis(2-Chloroethoxy)Methane	72.5	2.00	1.45	ug/L	53-93
2,4-Dichlorophenol	48.5	4.00	1.94	ug/L	31-106
Naphthalene	61.0	2.00	1.22	ug/L	46-84
4-Chloroaniline	55.0	2.00	1.10	ug/L	38-122
Hexachlorobutadiene	53.0	2.00	1.06	ug/L	48-95
2-Methylnaphthalene	67.5	2.00	1.35	ug/L	51-114
Hexachlorocyclopentadiene	32.1	2.00	0.642	ug/L	10-96
2,4,6-Trichlorophenol	45.8	4.00	1.83	ug/L	19-139
2,4,5-Trichlorophenol	55.0	4.00	2.20	ug/L	20-133
1,1'-Biphenyl	61.5	2.00	1.23	ug/L	56-96
2-Nitroaniline	77.5	2.00	1.55	ug/L	54-105
2,6-Dinitrotoluene	58.5	2.00	1.17	ug/L	47-86
2,4-Dinitrophenol	51.2	4.00	2.05	ug/L	10-95
4-Nitrophenol	25.5	4.00	1.02	ug/L	10-160
Dibenzofuran	60.0	2.00	1.20	ug/L	56-98
2,4-Dinitrotoluene	63.5	2.00	1.27	ug/L	48-95
4-Chlorophenyl-Phenylether	59.0	2.00	1.18	ug/L	57-95
4-Nitroaniline	84.5	2.00	1.69	ug/L	42-152
4,6-Dinitro-2-Methylphenol	52.0	4.00	2.08	ug/L	10-77
N-Nitrosodiphenylamine	53.0	2.00	1.06	ug/L	48-82
1,2,4,5-Tetrachlorobenzene	55.0	2.00	1.10	ug/L	30-150
Hexachlorobenzene	* 58.0	2.00	1.16	ug/L	62-90
Atrazine	76.5	2.00	1.53	ug/L	66-126
Pentachlorophenol	* 66.5	4.00	2.66	ug/L	10-66
Phenanthrene	* 71.0	2.00	1.42	ug/L	73-100
Anthracene	75.5	2.00	1.51	ug/L	70-95
Di-N-Butylphthalate	87.5	2.00	1.75	ug/L	46-163

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164595-2RA
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: N6600.D

Sample Date:
Received Date:
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 15-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Fluoranthene	* 80.0	2.00	1.60	ug/L	81-109
Pyrene	77.0	2.00	1.54	ug/L	71-104
Butylbenzylphthalate	76.0	2.00	1.52	ug/L	30-119
3,3'-Dichlorobenzidine	* 144.	2.00	2.87	ug/L	10-118
Benzo(a)anthracene	82.0	2.00	1.64	ug/L	70-110
Chrysene	87.0	2.00	1.74	ug/L	70-95
Bis(2-Ethylhexyl)Phthalate	* 77.5	2.00	1.55	ug/L	97-188
Di-N-Octylphthalate	98.5	2.00	1.97	ug/L	56-122
Benzo(b)Fluoranthene	74.5	2.00	1.49	ug/L	67-102
Benzo(k)fluoranthene	89.5	2.00	1.79	ug/L	68-103
Benzo(a)pyrene	72.5	2.00	1.45	ug/L	63-98
Indeno(1,2,3-cd)pyrene	63.0	2.00	1.26	ug/L	61-112
Dibenzo(a,h)anthracene	66.0	2.00	1.32	ug/L	66-108
Benzo(g,h,i)perylene	* 57.0	2.00	1.14	ug/L	62-106
2,3,4,6-Tetrachlorophenol	49.5	4.00	1.98	ug/L	10-101
2-Methylnaphthalene-D10	68.2				43-92
Fluorene-D10	65.5				29-101
Pyrene-D10	80.6				53-166
2,4-Dibromophenol	57.6				10-130

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ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG165249-2
LCSD ID: WG165249-3
Project:
SDG: SI3862
Report Date: 24-JUN-15
LCS File ID: N6787.D

Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: SW846 3510
Lab Prep Batch: WG165249
LCSD File ID: N6788.D

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Bis(2-Chloroethyl)Ether	2.00	1.05	52.5*	0.981	49.0*	ug/L	7	30	56-87
2-Chlorophenol	4.00	2.59	64.8	2.27	56.8	ug/L	13	30	30-112
2,2'-Oxybis(1-Chloropropane)	2.00	1.00	50.0*	0.879	44.0*	ug/L	13	30	57-90
3&4-Methylphenol	4.00	1.87	46.8	1.66	41.5	ug/L	12	30	31-78
N-Nitroso-Di-N-Propylamine	2.00	0.883	44.2	0.652	32.6*	ug/L	30*	30	43-86
Hexachloroethane	2.00	1.06	53.0	0.950	47.5*	ug/L	11	30	48-80
Nitrobenzene	2.00	1.80	90.0*	1.52	76.0	ug/L	17	30	43-89
2-Nitrophenol	4.00	2.72	68.0	2.39	59.8	ug/L	13	30	30-113
Bis(2-Chloroethoxy)Methane	2.00	1.26	63.0	1.16	58.0	ug/L	8	30	53-93
2,4-Dichlorophenol	4.00	2.69	67.2	2.39	59.8	ug/L	12	30	31-106
Naphthalene	2.00	1.25	62.5	1.07	53.5	ug/L	16	30	46-84
4-Chloroaniline	2.00	1.21	60.5	1.07	53.5	ug/L	12	30	38-122
Hexachlorobutadiene	2.00	1.19	59.5	1.04	52.0	ug/L	13	30	48-95
2-Methylnaphthalene	2.00	1.40	70.0	1.15	57.5	ug/L	20	30	51-114
Hexachlorocyclopentadiene	2.00	0.739	37.0	0.687	34.4	ug/L	7	30	10-96
2,4,6-Trichlorophenol	4.00	2.52	63.0	2.26	56.5	ug/L	11	30	19-139
2,4,5-Trichlorophenol	4.00	2.84	71.0	2.74	68.5	ug/L	4	30	20-133
1,1'-Biphenyl	2.00	1.22	61.0	1.10	55.0*	ug/L	10	30	56-96
2-Nitroaniline	2.00	1.20	60.0	1.17	58.5	ug/L	2	30	54-105
2,6-Dinitrotoluene	2.00	1.15	57.5	1.10	55.0	ug/L	4	30	47-86
2,4-Dinitrophenol	4.00	2.34	58.5	2.42	60.5	ug/L	3	30	10-95
4-Nitrophenol	4.00	1.18	29.5	1.09	27.2	ug/L	8	30	10-160
Dibenzofuran	2.00	1.17	58.5	1.10	55.0*	ug/L	6	30	56-98
2,4-Dinitrotoluene	2.00	1.27	63.5	1.14	57.0	ug/L	11	30	48-95
4-Chlorophenyl-Phenylether	2.00	1.22	61.0	1.17	58.5	ug/L	4	30	57-95
4-Nitroaniline	2.00	1.69	84.5	1.61	80.5	ug/L	5	30	42-152
4,6-Dinitro-2-Methylphenol	4.00	1.97	49.2	2.16	54.0	ug/L	9	30	10-77
N-Nitrosodiphenylamine	2.00	0.914	45.7*	0.852	42.6*	ug/L	7	30	48-82
1,2,4,5-Tetrachlorobenzene	2.00	1.17	58.5	1.05	52.5	ug/L	11	30	30-150
Hexachlorobenzene	2.00	1.08	54.0*	1.02	51.0*	ug/L	6	30	62-90
Atrazine	2.00	1.25	62.5*	1.27	63.5*	ug/L	2	30	66-126
Pentachlorophenol	4.00	2.72	68.0*	2.93	73.2*	ug/L	7	30	10-66
Phenanthrene	2.00	1.12	56.0*	1.10	55.0*	ug/L	2	30	73-100
Anthracene	2.00	1.47	73.5	1.34	67.0*	ug/L	9	30	70-95

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Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG165249-2
LCSD ID: WG165249-3
Project:
SDG: SI3862
Report Date: 24-JUN-15
LCS File ID: N6787.D

Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: SW846 3510
Lab Prep Batch: WG165249
LCSD File ID: N6788.D

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Di-N-Butylphthalate	2.00	1.58	79.0	1.59	79.5	ug/L	1	30	46-163
Fluoranthene	2.00	1.40	70.0*	1.40	70.0*	ug/L	0	30	81-109
Pyrene	2.00	1.33	66.5*	1.35	67.5*	ug/L	1	30	71-104
Butylbenzylphthalate	2.00	1.23	61.5	1.27	63.5	ug/L	3	30	30-119
3,3'-Dichlorobenzidine	2.00	3.28	164.*	2.20	110.	ug/L	39*	30	10-118
Benzo(a)anthracene	2.00	1.16	58.0*	1.15	57.5*	ug/L	1	30	70-110
Chrysene	2.00	2.05	102.*	1.88	94.0	ug/L	9	30	70-95
Bis(2-Ethylhexyl)Phthalate	2.00	1.21	60.5*	1.26	63.0*	ug/L	4	30	97-188
Di-N-Octylphthalate	2.00	1.35	67.5	1.79	89.5	ug/L	28	30	56-122
Benzo(b)Fluoranthene	2.00	1.06	53.0*	0.863	43.2*	ug/L	20	30	67-102
Benzo(k)fluoranthene	2.00	2.10	105.*	2.09	104.*	ug/L	0	30	68-103
Benzo(a)pyrene	2.00	1.51	75.5	1.50	75.0	ug/L	1	30	63-98
Indeno(1,2,3-cd)pyrene	2.00	1.43	71.5	1.46	73.0	ug/L	2	30	61-112
Dibenzo(a,h)anthracene	2.00	1.45	72.5	1.51	75.5	ug/L	4	30	66-108
Benzo(g,h,i)perylene	2.00	1.54	77.0	1.54	77.0	ug/L	0	30	62-106
2,3,4,6-Tetrachlorophenol	4.00	2.39	59.8	2.31	57.8	ug/L	3	30	10-101
2-Methylnaphthalene-D10			65.9		61.5				43-92
Fluorene-D10			69.5		63.8				29-101
Pyrene-D10			85.8		85.2				53-166
2,4-Dibromophenol			73.7		66.5				10-130

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG165249-5
MSD ID: WG165249-6
Sample ID: SI3862-6
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: N6789.D

Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: 3510/1312
Lab Prep Batch: WG165249
Report Date: 01-JUL-15
MSD File ID: N6790.D

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Bis(2-Chloroethyl)Ether	2.67	1.94	ug/L	JMM0.09	1.5	0.78	55.9*	40.4*	62*	30	56-87
2-Chlorophenol	5.33	3.88	ug/L	U0.48	3.6	2.3	67.7	58.2	46*	30	30-112
2,2'-Oxybis(1-Chloropropane)	2.67	1.94	ug/L	UM0.14	1.6	0.95	58.5	48.8*	49*	30	57-90
3&4-Methylphenol	5.33	3.88	ug/L	U0.48	2.7	2.0	50.2	50.7	30	30	31-78
N-Nitroso-Di-N-Propylamine	2.67	1.94	ug/L	U0.095	1.7	1.1	65.2	58.7	42*	30	43-86
Hexachloroethane	2.67	1.94	ug/L	U0.095	1.7	1.1	64.9	54.6	48*	30	48-80
Nitrobenzene	2.67	1.94	ug/L	ULM0.14	2.9	1.4	108.*	71.1	71*	30	43-89
2-Nitrophenol	5.33	3.88	ug/L	U0.95	3.8	2.2	70.5	57.4	51*	30	30-113
Bis(2-Chloroethoxy)Methane	2.67	1.94	ug/L	U0.24	1.9	1.1	70.5	57.2	52*	30	53-93
2,4-Dichlorophenol	5.33	3.88	ug/L	U0.95	4.6	2.9	85.7	73.9	46*	30	31-106
Naphthalene	2.67	1.94	ug/L	M2.8	4.8	3.3	75.4	29.4*	35*	30	46-84
4-Chloroaniline	2.67	1.94	ug/L	UMM1.4	2.0	1.4	37.5*	16.2*	104*	30	38-122
Hexachlorobutadiene	2.67	1.94	ug/L	U0.095	1.9	1.1	71.6	57.2	53*	30	48-95
2-Methylnaphthalene	2.67	1.94	ug/L	M3.7	6.3	4.7	96.4	49.4*	29	30	51-114
Hexachlorocyclopentadiene	2.67	1.94	ug/L	U0.095	1.1	0.77	42.0	39.7	37*	30	10-96
2,4,6-Trichlorophenol	5.33	3.88	ug/L	U0.48	4.2	3.4	79.3	88.6	20	30	19-139
2,4,5-Trichlorophenol	5.33	3.88	ug/L	U0.48	4.2	3.0	78.9	77.0	34*	30	20-133
1,1'-Biphenyl	2.67	1.94	ug/L	U0.095	1.9	1.4	69.7	71.1	30	30	56-96
2-Nitroaniline	2.67	1.94	ug/L	U0.14	2.4	1.9	90.7	99.9	22	30	54-105
2,6-Dinitrotoluene	2.67	1.94	ug/L	U0.095	1.9	1.4	72.7	72.6	32*	30	47-86
2,4-Dinitrophenol	5.33	3.88	ug/L	JMM0.48	6.2	4.3	117.*	110.*	37*	30	10-95
4-Nitrophenol	5.33	3.88	ug/L	U0.48	2.7	2.6	51.4	65.7	7	30	10-160
Dibenzofuran	2.67	1.94	ug/L	0.21	2.0	1.6	67.6	70.6	24	30	56-98
2,4-Dinitrotoluene	2.67	1.94	ug/L	U0.095	2.0	1.5	76.5	79.3	28	30	48-95
4-Chlorophenyl-Phenylether	2.67	1.94	ug/L	U0.24	1.8	1.4	69.0	71.1	28	30	57-95
4-Nitroaniline	2.67	1.94	ug/L	U0.095	2.4	1.5	88.1	75.2	47*	30	42-152
4,6-Dinitro-2-Methylphenol	5.33	3.88	ug/L	JMM0.71	5.4	4.0	101.*	103.*	30	30	10-77
N-Nitrosodiphenylamine	2.67	1.94	ug/L	U0.095	1.6	1.2	59.6	60.8	30	30	48-82
1,2,4,5-Tetrachlorobenzene	2.67	1.94	ug/L	U0.095	1.6	1.1	61.9	58.2	37*	30	30-150
Hexachlorobenzene	2.67	1.94	ug/L	UL0.095	1.8	1.4	68.2	69.5	30	30	62-90
Atrazine	2.67	1.94	ug/L	U0.095	2.3	1.5	86.2	77.8	41*	30	66-126
Pentachlorophenol	5.33	3.88	ug/L	ULMM0.	5.9	4.0	111.*	104.*	38*	30	10-66
Phenanthrene	2.67	1.94	ug/L	L0.82	3.2	2.5	89.9	87.4	24	30	73-100

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG165249-5
MSD ID: WG165249-6
Sample ID: SI3862-6
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: N6789.D

Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: 3510/1312
Lab Prep Batch: WG165249
Report Date: 01-JUL-15
MSD File ID: N6790.D

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Anthracene	2.67	1.94	ug/L	JMM0.18	2.0	1.4	66.8*	64.9*	30	30	70-95
Di-N-Butylphthalate	2.67	1.94	ug/L	U0.95	2.6	1.8	98.2	91.2	39*	30	46-163
Fluoranthene	2.67	1.94	ug/L	JLMM0.1	2.2	1.6	76.7*	71.4*	35*	30	81-109
Pyrene	2.67	1.94	ug/L	MM0.30	1.7	1.5	52.5*	60.3*	14	30	71-104
Butylbenzylphthalate	2.67	1.94	ug/L	U0.48	1.3	1.1	47.2	56.6	14	30	30-119
3,3'-Dichlorobenzidine	2.67	1.94	ug/L	ULMM0.	0.15	U0.1	5.66*	0*	200*	30	10-118
Benzo(a)anthracene	2.67	1.94	ug/L	JMM0.05	1.9	1.4	67.6*	67.5*	30	30	70-110
Chrysene	2.67	1.94	ug/L	U0.095	2.0	1.7	73.9	88.6	14	30	70-95
Bis(2-Ethylhexyl)Phthalate	2.67	1.94	ug/L	ULMM0.	1.1	0.75	40.1*	38.7*	35*	30	97-188
Di-N-Octylphthalate	2.67	1.94	ug/L	JMM0.08	1.3	0.71	46.2*	31.9*	61*	30	56-122
Benzo(b)Fluoranthene	2.67	1.94	ug/L	JMM0.09	1.6	1.0	60.0*	53.6*	42*	30	67-102
Benzo(k)fluoranthene	2.67	1.94	ug/L	U0.095	2.6	1.6	95.6	82.4	46*	30	68-103
Benzo(a)pyrene	2.67	1.94	ug/L	U0.095	2.1	1.4	77.2	70.0	41*	30	63-98
Indeno(1,2,3-cd)pyrene	2.67	1.94	ug/L	M0.22	2.0	1.3	65.4	53.8*	43*	30	61-112
Dibenzo(a,h)anthracene	2.67	1.94	ug/L	JLM0.13	2.0	1.2	71.0	57.4*	48*	30	66-108
Benzo(g,h,i)perylene	2.67	1.94	ug/L	UL0.095	2.1	1.3	77.6	68.0	44*	30	62-106
2,3,4,6-Tetrachlorophenol	5.33	3.88	ug/L	U0.48	4.0	2.9	75.2	73.6	33*	30	10-101
2-Methylnaphthalene-D10							70.7	63.0			43-92
Fluorene-D10							88.8	103.*			29-101
Pyrene-D10							65.5	76.6			53-166
2,4-Dibromophenol							86.9	90.3			10-130

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Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : ND946.D
Instrument ID : GCMS-N

SDG : SI3862
Date Analyzed : 05-JUN-15
Time Analyzed : 11:11

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	35.3		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	50.5		
70	Less than 2.0% of mass 69	0.3	0.51	1
127	40.0 - 60.0% of mass 198	55.6		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.7		
275	10.0 - 30.0% of mass 198	23.9		
365	1.0 - 100.0% of mass 198	2.5		
441	0.0 - 100.0% of mass 443	12.6	81.66	2
442	40.0 - 100.0% of mass 198	78.7		
443	17.0 - 23.0% of mass 442	15.5	19.66	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG164187-4	N6392.D	06/05/15	11:28
Initial Calibration	WG164187-2	N6393.D	06/05/15	11:56
Initial Calibration	WG164187-3	N6394.D	06/05/15	12:23
Initial Calibration	WG164187-5	N6395.D	06/05/15	12:50
Initial Calibration	WG164187-6	N6396.D	06/05/15	13:18
Initial Calibration	WG164187-7	N6397.D	06/05/15	13:54
Independent Source	WG164187-8	N6398.D	06/05/15	14:21

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : ND952.D
Instrument ID : GCMS-N

SDG : SI3862
Date Analyzed : 15-JUN-15
Time Analyzed : 12:17

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	42.5		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	60.7		
70	Less than 2.0% of mass 69	0.4	0.60	1
127	40.0 - 60.0% of mass 198	57.4		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.4		
275	10.0 - 30.0% of mass 198	23.5		
365	1.0 - 100.0% of mass 198	2.7		
441	0.0 - 100.0% of mass 443	12.4	81.68	2
442	40.0 - 100.0% of mass 198	77.7		
443	17.0 - 23.0% of mass 442	15.2	19.52	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG164825-2	N6598.D	06/15/15	12:52
Method Blank Sample	WG164595-1RA	N6599.D	06/15/15	13:21
Laboratory Control S	WG164595-2RA	N6600.D	06/15/15	13:48

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : ND953.D
Instrument ID : GCMS-N

SDG : SI3862
Date Analyzed : 16-JUN-15
Time Analyzed : 08:37

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	43.8		
68	Less than 2.0% of mass 69	0.0	0.0	1
69	Less than 100.0% of mass 198	63.3		
70	Less than 2.0% of mass 69	0.4	0.61	1
127	40.0 - 60.0% of mass 198	57.6		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.5		
275	10.0 - 30.0% of mass 198	23.3		
365	1.0 - 100.0% of mass 198	2.4		
441	0.0 - 100.0% of mass 443	12.3	82.00	2
442	40.0 - 100.0% of mass 198	77.8		
443	17.0 - 23.0% of mass 442	15.0	19.33	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG164883-2	N6525.D	06/16/15	09:00
SITE4TS-FB	SI3862-6	N6630.D	06/16/15	11:20
SITE4TS-XX	SI3862-7	N6631.D	06/16/15	11:48

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : ND958.D
Instrument ID : GCMS-N

SDG : SI3862
Date Analyzed : 23-JUN-15
Time Analyzed : 12:11

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	32.1		
68	Less than 2.0% of mass 69	0.7	1.60	1
69	Less than 100.0% of mass 198	40.7		
70	Less than 2.0% of mass 69	0.2	0.55	1
127	40.0 - 60.0% of mass 198	60.0		
197	Less than 1.0% of mass 198	0.2		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	22.8		
365	1.0 - 100.0% of mass 198	2.3		
441	0.0 - 100.0% of mass 443	11.0	73.31	2
442	40.0 - 100.0% of mass 198	78.5		
443	17.0 - 23.0% of mass 442	15.0	19.11	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG165324-4	N6778.D	06/23/15	13:03
Initial Calibration	WG165324-2	N6779.D	06/23/15	13:31
Initial Calibration	WG165324-3	N6780.D	06/23/15	13:59
Initial Calibration	WG165324-5	N6781.D	06/23/15	14:27
Initial Calibration	WG165324-6	N6782.D	06/23/15	14:55
Initial Calibration	WG165324-7	N6783.D	06/23/15	15:23
Independent Source	WG165324-8	N6784.D	06/23/15	15:51
Method Blank Sample	WG165249-1	N6785.D	06/23/15	16:20
SPLP Blank	WG165249-4	N6786.D	06/23/15	16:48
Laboratory Control S	WG165249-2	N6787.D	06/23/15	17:16
Laboratory Control S	WG165249-3	N6788.D	06/23/15	17:45
Matrix Spike	WG165249-5	N6789.D	06/23/15	18:13
Matrix Spike Duplica	WG165249-6	N6790.D	06/23/15	18:41

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164187-4
Lab File ID : N6392.D

SDG: SI3862
Analytical Date: 06/05/15 11:28
Instrument ID: GCMS-N

		1,4-DICHLOROBENZENE-D4				NAPHTHALENE-D8				ACENAPHTHENE-D10			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	48698		4.54		146447		5.91		78111		7.97	
	Upper Limit	97396		5.04		292894		6.41		156222		8.47	
	Lower Limit	24349		4.04		73223.5		5.41		39055.5		7.47	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG164825-2	55671		4.53		181026		5.90		93513		7.95	
Method Blank Sample	WG164595-1RA	54302		4.52		170712		5.92		91631		7.97	
Laboratory Control S	WG164595-2RA	57194		4.51		179572		5.89		98465		7.95	
Continuing Calibrati	WG164883-2	49544		4.47		150743		5.85		80287		7.92	
SITE4TS-FB	SI3862-6	52046		4.47		147756		5.85		88388		7.92	
SITE4TS-XX	SI3862-7	51124		4.47		150621		5.85		91415		7.92	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164187-4
Lab File ID : N6392.D

SDG: SI3862
Analytical Date: 06/05/15 11:28
Instrument ID: GCMS-N

		PHENANTHRENE-D10				CHRYSENE-D12				PERYLENE-D12			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	109179		9.76		74082		13.16		47165		15.99	
	Upper Limit	218358		10.26		148164		13.66		94330		16.49	
	Lower Limit	54589.5		9.26		37041		12.66		23582.5		15.49	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG164825-2	137357		9.77		80561		13.15		40075		15.98	
Method Blank Sample	WG164595-1RA	115281		9.78		63419		13.18		32228		15.99	
Laboratory Control S	WG164595-2RA	137613		9.76		87452		13.15		45079		15.98	
Continuing Calibrati	WG164883-2	119536		9.71		73200		13.09		46131		15.87	
SITE4TS-FB	SI3862-6	135279		9.71		115720		13.09		61533		15.88	
SITE4TS-XX	SI3862-7	127038		9.71		107885		13.09		53427		15.88	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG165324-4
Lab File ID : N6778.D

SDG: SI3862
Analytical Date: 06/23/15 13:03
Instrument ID: GCMS-N

		1,4-DICHLOROBENZENE-D4				NAPHTHALENE-D8				ACENAPHTHENE-D10			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	88250		4.40		265068		5.77		116126		7.83	
	Upper Limit	176500		4.90		530136		6.27		232252		8.33	
	Lower Limit	44125		3.90		132534		5.27		58063		7.33	
Client Sample ID	Lab Sample ID												
Method Blank Sample	WG165249-1	76424		4.40		237826		5.82		105148		7.86	
SPLP Blank	WG165249-4	66927		4.41		210573		5.82		93995		7.86	
Laboratory Control S	WG165249-2	69452		4.39		211977		5.78		100687		7.84	
Laboratory Control S	WG165249-3	72113		4.39		221532		5.78		102574		7.84	
Matrix Spike	WG165249-5	71197		4.39		217503		5.77		110148		7.83	
Matrix Spike Duplica	WG165249-6	67983		4.39		216920		5.77		96446		7.83	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG165324-4
Lab File ID : N6778.D

SDG: SI3862
Analytical Date: 06/23/15 13:03
Instrument ID: GCMS-N

		PHENANTHRENE-D10				CHRYSENE-D12				PERYLENE-D12			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	156981		9.62		75747		12.97		36246		15.72	
	Upper Limit	313962		10.12		151494		13.47		72492		16.22	
	Lower Limit	78490.5		9.12		37873.5		12.47		18123		15.22	
Client Sample ID	Lab Sample ID												
Method Blank Sample	WG165249-1	156520		9.64		63274		13.00		24386		15.76	
SPLP Blank	WG165249-4	137170		9.65		58386		13.00		26183		15.76	
Laboratory Control S	WG165249-2	158809		9.63		77607		12.98		35763		15.75	
Laboratory Control S	WG165249-3	162888		9.62		77562		12.98		28169		15.75	
Matrix Spike	WG165249-5	150266		9.61		101857		12.96		42463		15.73	
Matrix Spike Duplica	WG165249-6	136936		9.61		79189		12.96		38781		15.72	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Sample Data Section

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 Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes 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.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native 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, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-6
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: N6630.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 16-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Bis(2-Chloroethyl)Ether	UMM	0.095	ug/L	1	.2	0.19	0.039	0.095
2-Chlorophenol	U	0.48	ug/L	1	1	0.95	0.27	0.48
2,2'-Oxybis(1-Chloropropane)	UM	0.14	ug/L	1	.2	0.19	0.11	0.14
3&4-Methylphenol	U	0.48	ug/L	1	1	0.95	0.42	0.48
N-Nitroso-Di-N-Propylamine	U	0.095	ug/L	1	.2	0.19	0.068	0.095
Hexachloroethane	U	0.095	ug/L	1	.2	0.19	0.070	0.095
Nitrobenzene	ULM	0.14	ug/L	1	.2	0.19	0.12	0.14
2-Nitrophenol	U	0.95	ug/L	1	2	1.9	0.77	0.95
Bis(2-Chloroethoxy)Methane	U	0.24	ug/L	1	.5	0.48	0.17	0.24
2,4-Dichlorophenol	U	0.95	ug/L	1	2	1.9	0.85	0.95
Naphthalene	M	2.8	ug/L	1	.2	0.19	0.061	0.095
4-Chloroaniline	UMM	1.4	ug/L	1	3	2.8	1.3	1.4
Hexachlorobutadiene	U	0.095	ug/L	1	.2	0.19	0.083	0.095
2-Methylnaphthalene	M	3.7	ug/L	1	.2	0.19	0.073	0.095
Hexachlorocyclopentadiene	U	0.095	ug/L	1	.2	0.19	0.064	0.095
2,4,6-Trichlorophenol	U	0.48	ug/L	1	1	0.95	0.11	0.48
2,4,5-Trichlorophenol	U	0.48	ug/L	1	1	0.95	0.074	0.48
1,1'-Biphenyl	U	0.095	ug/L	1	.2	0.19	0.062	0.095
2-Nitroaniline	U	0.14	ug/L	1	.2	0.19	0.11	0.14
2,6-Dinitrotoluene	U	0.095	ug/L	1	.2	0.19	0.067	0.095
2,4-Dinitrophenol	UMM	0.48	ug/L	1	1	0.95	0.23	0.48
4-Nitrophenol	U	0.48	ug/L	1	1	0.95	0.22	0.48
Dibenzofuran		0.21	ug/L	1	.2	0.19	0.065	0.095
2,4-Dinitrotoluene	U	0.095	ug/L	1	.2	0.19	0.033	0.095
4-Chlorophenyl-Phenylether	U	0.24	ug/L	1	.5	0.48	0.15	0.24
4-Nitroaniline	U	0.095	ug/L	1	.2	0.19	0.062	0.095
4,6-Dinitro-2-Methylphenol	UMM	0.71	ug/L	1	1	0.95	0.48	0.71
N-Nitrosodiphenylamine	U	0.095	ug/L	1	.2	0.19	0.068	0.095
1,2,4,5-Tetrachlorobenzene	U	0.095	ug/L	1	.2	0.19	0.035	0.095
Hexachlorobenzene	UL	0.095	ug/L	1	.2	0.19	0.052	0.095
Atrazine	U	0.095	ug/L	1	.2	0.19	0.036	0.095
Pentachlorophenol	ULMM	0.48	ug/L	1	1	0.95	0.31	0.48
Phenanthrene	L	0.82	ug/L	1	.2	0.19	0.048	0.095
Anthracene	JMM	0.18	ug/L	1	.2	0.19	0.042	0.095
Di-N-Butylphthalate	U	0.95	ug/L	1	2	1.9	0.79	0.95

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-6
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: N6630.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 16-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Fluoranthene	JLMM	0.16	ug/L	1	.2	0.19	0.070	0.095
Pyrene	MM	0.30	ug/L	1	.2	0.19	0.056	0.095
Butylbenzylphthalate	U	0.48	ug/L	1	1	0.95	0.12	0.48
3,3'-Dichlorobenzidine	ULMM	0.095	ug/L	1	.2	0.19	0.053	0.095
Benzo(a)anthracene	JMM	0.058	ug/L	1	.2	0.19	0.044	0.095
Chrysene	U	0.095	ug/L	1	.2	0.19	0.034	0.095
Bis(2-Ethylhexyl)Phthalate	ULMM	0.48	ug/L	1	1	0.95	0.48	0.48
Di-N-Octylphthalate	JMM	0.087	ug/L	1	1	0.95	0.075	0.48
Benzo(b)Fluoranthene	UMM	0.095	ug/L	1	.2	0.19	0.085	0.095
Benzo(k)fluoranthene	U	0.095	ug/L	1	.2	0.19	0.047	0.095
Benzo(a)pyrene	U	0.095	ug/L	1	.2	0.19	0.063	0.095
Indeno(1,2,3-cd)pyrene	M	0.22	ug/L	1	.2	0.19	0.050	0.095
Dibenzo(a,h)anthracene	JLM	0.13	ug/L	1	.2	0.19	0.067	0.095
Benzo(g,h,i)perylene	UL	0.095	ug/L	1	.2	0.19	0.062	0.095
2,3,4,6-Tetrachlorophenol	U	0.48	ug/L	1	1	0.95	0.068	0.48
2-Methylnaphthalene-D10		73.4	%					
Fluorene-D10		90.4	%					
Pyrene-D10		64.7	%					
2,4-Dibromophenol		88.5	%					

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-7
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: N6631.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 16-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Bis(2-Chloroethyl)Ether	U	0.12	ug/L	1	.2	0.24	0.049	0.12
2-Chlorophenol	U	0.60	ug/L	1	1	1.2	0.34	0.60
2,2'-Oxybis(1-Chloropropane)	U	0.18	ug/L	1	.2	0.24	0.14	0.18
3&4-Methylphenol	U	0.60	ug/L	1	1	1.2	0.53	0.60
N-Nitroso-Di-N-Propylamine	U	0.12	ug/L	1	.2	0.24	0.087	0.12
Hexachloroethane	U	0.12	ug/L	1	.2	0.24	0.088	0.12
Nitrobenzene	UL	0.18	ug/L	1	.2	0.24	0.16	0.18
2-Nitrophenol	U	1.2	ug/L	1	2	2.4	0.98	1.2
Bis(2-Chloroethoxy)Methane	U	0.30	ug/L	1	.5	0.60	0.22	0.30
2,4-Dichlorophenol	U	1.2	ug/L	1	2	2.4	1.1	1.2
Naphthalene		2.4	ug/L	1	.2	0.24	0.077	0.12
4-Chloroaniline	U	1.8	ug/L	1	3	3.6	1.7	1.8
Hexachlorobutadiene	U	0.12	ug/L	1	.2	0.24	0.10	0.12
2-Methylnaphthalene	U	0.12	ug/L	1	.2	0.24	0.093	0.12
Hexachlorocyclopentadiene	U	0.12	ug/L	1	.2	0.24	0.081	0.12
2,4,6-Trichlorophenol	U	0.60	ug/L	1	1	1.2	0.14	0.60
2,4,5-Trichlorophenol	U	0.60	ug/L	1	1	1.2	0.094	0.60
1,1'-Biphenyl	U	0.12	ug/L	1	.2	0.24	0.078	0.12
2-Nitroaniline	U	0.18	ug/L	1	.2	0.24	0.14	0.18
2,6-Dinitrotoluene	U	0.12	ug/L	1	.2	0.24	0.084	0.12
2,4-Dinitrophenol	U	0.60	ug/L	1	1	1.2	0.29	0.60
4-Nitrophenol	U	0.60	ug/L	1	1	1.2	0.28	0.60
Dibenzofuran	J	0.17	ug/L	1	.2	0.24	0.082	0.12
2,4-Dinitrotoluene	U	0.12	ug/L	1	.2	0.24	0.042	0.12
4-Chlorophenyl-Phenylether	U	0.30	ug/L	1	.5	0.60	0.19	0.30
4-Nitroaniline	U	0.12	ug/L	1	.2	0.24	0.078	0.12
4,6-Dinitro-2-Methylphenol	U	0.90	ug/L	1	1	1.2	0.60	0.90
N-Nitrosodiphenylamine	U	0.12	ug/L	1	.2	0.24	0.086	0.12
1,2,4,5-Tetrachlorobenzene	U	0.12	ug/L	1	.2	0.24	0.044	0.12
Hexachlorobenzene	UL	0.12	ug/L	1	.2	0.24	0.066	0.12
Atrazine	U	0.12	ug/L	1	.2	0.24	0.046	0.12
Pentachlorophenol	UL	0.60	ug/L	1	1	1.2	0.40	0.60
Phenanthrene	L	0.79	ug/L	1	.2	0.24	0.061	0.12
Anthracene	J	0.20	ug/L	1	.2	0.24	0.053	0.12
Di-N-Butylphthalate	U	1.2	ug/L	1	2	2.4	1.0	1.2

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-7
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: N6631.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164595

Analysis Date: 16-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Fluoranthene	JL	0.14	ug/L	1	.2	0.24	0.088	0.12
Pyrene		0.35	ug/L	1	.2	0.24	0.071	0.12
Butylbenzylphthalate	U	0.60	ug/L	1	1	1.2	0.16	0.60
3,3'-Dichlorobenzidine	UL	0.12	ug/L	1	.2	0.24	0.067	0.12
Benzo(a)anthracene	J	0.081	ug/L	1	.2	0.24	0.055	0.12
Chrysene	U	0.12	ug/L	1	.2	0.24	0.043	0.12
Bis(2-Ethylhexyl)Phthalate	UL	0.60	ug/L	1	1	1.2	0.60	0.60
Di-N-Octylphthalate	J	0.10	ug/L	1	1	1.2	0.095	0.60
Benzo(b)Fluoranthene	U	0.12	ug/L	1	.2	0.24	0.11	0.12
Benzo(k)fluoranthene	U	0.12	ug/L	1	.2	0.24	0.059	0.12
Benzo(a)pyrene	U	0.12	ug/L	1	.2	0.24	0.080	0.12
Indeno(1,2,3-cd)pyrene	U	0.12	ug/L	1	.2	0.24	0.063	0.12
Dibenzo(a,h)anthracene	UL	0.12	ug/L	1	.2	0.24	0.084	0.12
Benzo(g,h,i)perylene	UL	0.12	ug/L	1	.2	0.24	0.078	0.12
2,3,4,6-Tetrachlorophenol	U	0.60	ug/L	1	1	1.2	0.086	0.60
2-Methylnaphthalene-D10		67.2	%					
Fluorene-D10		80.1	%					
Pyrene-D10		64.6	%					
2,4-Dibromophenol		70.8	%					

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Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-N
Lab File IDs : N6393.D N6394.D N6392.D N6395.D N6396.D N6397.D **Column ID:**
Calibration Date(s): 05-JUN-15 11:28 05-JUN-15 13:54

	0.200000(Level 1	0.500000(Level 2	1.0000 Level 3	3.0000 Level 4	7.0000 Level 5	10.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Bis(2-Chloroethyl)ether	1.83735	1.26521	1.33224	1.41312	1.33463	1.28077	AVG		1.41055		15.27197	15.00000	W(
2-Chlorophenol	1.13482	1.53783	1.23664	1.41325	1.33426	1.24168	AVG		1.31641		10.93701	15.00000	O
2,2'-Oxybis(1-chloropropane	0.75453	0.82238	0.82900	0.90658	0.85822	0.83053	AVG		0.83354		5.96031	15.00000	O
N-Nitroso-di-n-propylamine	0.74485	0.92750	0.82620	0.95524	0.92923	0.88808	AVG		0.87852		9.04213	15.00000	O
3&4-Methylphenol	0.96247	1.31950	1.00422	1.22680	1.21692	1.08755	AVG		1.13624		12.33953	15.00000	O
Hexachloroethane	0.66942	0.71662	0.71835	0.82807	0.73386	0.68637	AVG		0.72545		7.64948	15.00000	O
Nitrobenzene	20954	34784	67770	220795	597365	986130	LNR	-0.06745	0.37170		0.99875	0.99000	O
2-Nitrophenol	0.16774	0.23828	0.19590	0.19086	0.18696	0.18042	AVG		0.19336		12.44509	15.00000	O
bis(2-Chloroethoxy)methane	0.40449	0.46434	0.49070	0.47207	0.45665	0.41479	AVG		0.45051		7.49624	15.00000	O
2,4-Dichlorophenol	0.33751	0.46832	0.37965	0.38227	0.36585	0.34868	AVG		0.38038		12.21335	15.00000	O
Naphthalene	0.94693	0.99217	1.00383	0.98243	0.90376	0.84536	AVG		0.94575		6.46931	15.00000	O
4-Chloroaniline	0.34018	0.39812	0.42231	0.41459	0.38918	0.36724	AVG		0.38860		7.89266	15.00000	O
Hexachlorobutadiene	0.19280	0.20765	0.20261	0.19850	0.18675	0.17263	AVG		0.19349		6.49667	15.00000	O
2-Methylnaphthalene	0.80464	0.76169	0.69738	0.67193	0.59987	0.56138	AVG		0.68282		13.58437	15.00000	O
Hexachlorocyclopentadiene	2368	7459	20088	75457	237580	419993	LNR	0.30453	0.30267		0.99747	0.99000	O
1,2,4,5-Tetrachlorobenzene	0.67714	0.70934	0.71937	0.67699	0.66087	0.62830	AVG		0.67867		4.86756	15.00000	O
2,4,6-Trichlorophenol	0.39979	0.55635	0.47703	0.46804	0.47640	0.45624	AVG		0.47231		10.64439	15.00000	O
2,4,5-Trichlorophenol	0.52889	0.66153	0.56573	0.52969	0.52509	0.51698	AVG		0.55465		9.91637	15.00000	O
1,1'-Biphenyl	1.36225	1.37066	1.43916	1.31393	1.30283	1.23272	AVG		1.33693		5.26605	15.00000	O
2-Nitroaniline	0.26775	0.27714	0.33082	0.32536	0.33753	0.33025	AVG		0.31148		9.83221	15.00000	O
2,6-Dinitrotoluene	0.25300	0.26671	0.32204	0.32477	0.33039	0.31183	AVG		0.30146		10.96915	15.00000	O
2,4-Dinitrophenol	3774	12121	24557	51440	104008	198078	QUA	0.66507	9.68015	-1.73711	0.99034	0.99000	O
Dibenzofuran	1.49475	1.48956	1.59595	1.51404	1.48657	1.41780	AVG		1.49978		3.82774	15.00000	O
2,4-Dinitrotoluene	5388	14664	36119	117408	321183	561725	LNR	0.11281	0.40080		0.99972	0.99000	O
4-Nitrophenol	0.12396	0.16682	0.16960	0.16295	0.18044	0.19264	AVG		0.16607		14.01541	15.00000	O
2,3,4,6-Tetrachlorophenol	0.28255	0.36155	0.32409	0.33374	0.35581	0.35527	AVG		0.33550		8.86119	15.00000	O
4-Chlorophenyl-phenylether	0.62061	0.64766	0.69374	0.65928	0.66072	0.63291	AVG		0.65249		3.90048	15.00000	O
4-Nitroaniline	0.17017	0.14779	0.16552	0.15696	0.16815	0.15492	AVG		0.16058		5.44403	15.00000	O
4,6-Dinitro-2-Methylphenol	9137	27233	46211	91252	165974	311947	QUA	0.29768	8.48450	-0.99875	0.99762	0.99000	O
N-Nitrosodiphenylamine	0.67846	0.70980	0.72434	0.67092	0.64033	0.62165	AVG		0.67425		5.82744	15.00000	O
Hexachlorobenzene	0.33295	0.33307	0.31650	0.29162	0.29042	0.27433	AVG		0.30648		8.01895	15.00000	O
Atrazine	0.15749	0.16111	0.17283	0.17086	0.17837	0.16495	AVG		0.16760		4.66235	15.00000	O
Pentachlorophenol	0.12710	0.15842	0.14739	0.12561	0.13310	0.13719	AVG		0.13814		9.16737	15.00000	O
Phenanthrene	1.05251	1.07407	1.13064	1.05309	1.05622	1.01203	AVG		1.06309		3.65535	15.00000	O
Anthracene	1.12854	1.07273	1.11514	1.07039	1.07225	1.00328	AVG		1.07705		4.07478	15.00000	O
Di-n-butylphthalate	1.59236	2.04219	1.63110	1.59836	1.61501	1.49449	AVG		1.66225		11.56138	15.00000	O
Fluoranthene	1.09319	1.03376	1.13932	1.09596	1.13667	1.03291	AVG		1.08864		4.32168	15.00000	O

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-N
Lab File IDs : N6393.D N6394.D N6392.D N6395.D N6396.D N6397.D **Column ID:**
Calibration Date(s): 05-JUN-15 11:28 05-JUN-15 13:54

Pyrene	2.15102	1.99815	1.80146	1.75384	1.54217	1.46725	AVG		1.78565		14.61585	15.00000	O
Butylbenzylphthalate	76927	179879	264405	488553	797964	1304707	QUA	0.00544	0.81689	0.04124	0.99483	0.99000	O
Benzo(a)anthracene	0.98404	1.00064	1.04724	1.01158	1.03497	0.99563	AVG		1.01235		2.39852	15.00000	O
3,3'-Dichlorobenzidine	0.23801	0.24967	0.26576	0.24985	0.26842	0.23477	AVG		0.25108		5.50928	15.00000	O
Chrysene	26145	48292	115504	351816	976758	1580779	LNR	-0.25656	0.99061		0.99769	0.99000	O
bis(2-Ethylhexyl)phthalate	119779	275690	408351	724332	1164639	1852361	QUA	0.04173	0.46800	0.02767	0.99527	0.99000	O
Di-n-octylphthalate	3.32714	4.08916	3.24547	3.39140	2.90206	2.73365	AVG		3.28148		14.37068	15.00000	O
Benzo(b)fluoranthene	1.24381	1.09769	1.25045	1.15156	1.29505	1.23721	AVG		1.21263		6.03087	15.00000	O
Benzo(k)fluoranthene	20139	40770	95172	289233	820399	1329974	LNR	-0.24135	1.36508		0.99686	0.99000	O
Benzo(a)pyrene	1.28595	1.13162	1.10326	1.06166	1.10044	1.05904	AVG		1.12366		7.48582	15.00000	O
Indeno(1,2,3-cd)pyrene	0.85824	0.78022	0.76299	0.75240	0.79701	0.76105	AVG		0.78532		4.98130	15.00000	O
Dibenzo(a,h)anthracene	0.54145	0.54237	0.54037	0.54163	0.58588	0.56496	AVG		0.55278		3.39348	15.00000	O
Benzo(g,h,i)perylene	0.93508	0.83332	0.78628	0.75375	0.74962	0.69782	AVG		0.79265		10.45517	15.00000	O
2-Methylnaphthalene-D10	1.00905	1.02883	1.07957	1.01453	0.98828	0.92286	AVG		1.00719		5.10795	15.00000	
2,4-Dibromophenol	0.27128	0.30704	0.33026	0.31306	0.31992	0.31107	AVG		0.30877		6.50692	15.00000	
Fluorene-D10	0.87129	0.85247	0.92818	0.88195	0.88446	0.84062	AVG		0.87649		3.48128	15.00000	
Pyrene-D10	1.41829	1.37689	1.23514	1.23225	1.07061	1.03060	AVG		1.22730		12.73725	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-n.i\N060515.b\N6398.D
Report Date: 08-Jun-2015 14:36

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG164187-8
Level: LOW
Data Type: MS DATA
SpikeList File: SIM_IND_CHK.spk
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-n.i\N060515.b\NSPSIM44.m
Misc Info: WG164187,WG164187,WG164187-4,SI3862-3

Client SDG: 021497
Fraction: SV

Operator: JCG
SampleType: INDCHECK
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
2 1,4-Dioxane	2.00	2.01	100.59	80-120
3 Benzaldehyde	2.00	1.38	68.86*	80-120
4 Phenol	2.00	2.05	102.74	80-120
5 Bis(2-Chloroethyl)	2.00	1.73	86.74	80-120
6 2-Chlorophenol	2.00	1.96	97.85	80-120
7 1,3-Dichlorobenzen	2.00	2.05	102.38	80-120
9 1,4-Dichlorobenzen	2.00	2.15	107.63	80-120
10 1,2-Dichlorobenzen	2.00	2.08	103.94	80-120
11 2,2'-Oxybis(1-chlo	2.00	1.76	88.10	80-120
12 2-Methylphenol	2.00	2.20	110.29	80-120
13 Acetophenone	2.00	2.04	102.21	80-120
14 N-Nitroso-di-n-pro	2.00	1.90	94.81	80-120
16 Hexachloroethane	2.00	2.08	104.11	80-120
15 3&4-Methylphenol	2.00	1.82	90.83	80-120
17 Nitrobenzene	2.00	2.16	108.14	80-120
18 Isophorone	2.00	2.08	104.13	80-120
19 2-Nitrophenol	2.00	1.87	93.38	80-120
20 2,4-Dimethylphenol	2.00	1.80	89.96	80-120
21 bis(2-Chloroethoxy	2.00	1.99	99.58	80-120
22 2,4-Dichlorophenol	2.00	1.85	92.49	80-120
23 1,2,4-Trichloroben	2.00	2.04	101.88	80-120
25 Naphthalene	2.00	2.07	103.66	80-120
26 4-Chloroaniline	2.00	1.88	94.15	80-120
27 Hexachlorobutadien	2.00	2.04	102.12	80-120
28 Caprolactam	2.00	1.94	97.05	80-120
29 4-Chloro-3-Methylp	2.00	1.81	90.74	80-120
31 2-Methylnaphthalen	2.00	1.85	92.43	80-120
32 1-Methylnaphthalen	2.00	1.94	97.03	80-120
34 1,2,4,5-Tetrachlor	2.00	1.86	92.98	80-120
33 Hexachlorocyclopen	2.00	1.34	66.85*	80-120
36 2,4,6-Trichlorophe	2.00	1.75	87.60	80-120
37 2,4,5-Trichlorophe	2.00	1.83	91.52	80-120
39 2-Chloronaphthalen	2.00	1.85	92.72	80-120
38 1,1'-Biphenyl	2.00	1.93	96.49	80-120
40 2-Nitroaniline	2.00	1.91	95.36	80-120
41 Dimethyl Phthalate	2.00	1.88	93.80	80-120
43 Acenaphthylene	2.00	1.70	84.77	80-120
42 2,6-Dinitrotoluene	2.00	1.86	93.03	80-120
44 3-Nitroaniline	2.00	2.06	103.08	80-120
46 Acenaphthene	2.00	1.94	96.79	80-120

Data File: \\target_server\gg\chem\gcms-n.i\N060515.b\N6398.D
Report Date: 08-Jun-2015 14:36

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
47 2,4-Dinitrophenol	2.00	1.52	75.77*	80-120
48 Dibenzofuran	2.00	1.88	94.09	80-120
49 2,4-Dinitrotoluene	2.00	1.73	86.38	80-120
50 4-Nitrophenol	2.00	1.51	75.52*	80-120
51 2,3,4,6-Tetrachlor	2.00	1.60	79.76*	80-120
52 Diethylphthalate	2.00	1.97	98.60	80-120
54 Fluorene	2.00	1.88	94.00	80-120
56 4-Nitroaniline	2.00	2.26	112.82	80-120
57 4,6-Dinitro-2-Meth	2.00	1.67	83.40	80-120
58 N-Nitrosodiphenyla	2.00	1.52	76.12*	80-120
59 4-Bromophenyl-phen	2.00	1.91	95.45	80-120
60 Hexachlorobenzene	2.00	1.91	95.71	80-120
61 Atrazine	2.00	1.78	88.94	80-120
62 Pentachlorophenol	2.00	1.60	79.86*	80-120
64 Phenanthrene	2.00	1.90	94.87	80-120
65 Anthracene	2.00	1.94	97.05	80-120
66 Carbazole	2.00	1.89	94.38	80-120
67 Di-n-butylphthalat	2.00	2.04	102.21	80-120
68 Fluoranthene	2.00	1.96	97.75	80-120
70 Pyrene	2.00	1.95	97.43	80-120
71 Butylbenzylphthala	2.00	1.74	87.09	80-120
72 Benzo(a)anthracene	2.00	1.76	88.23	80-120
75 Chrysene	2.00	1.95	97.73	80-120
73 3,3'-Dichlorobenzi	2.00	1.80	89.90	80-120
76 bis(2-Ethylhexyl)p	2.00	1.59	79.51*	80-120
77 Di-n-octylphthalat	2.00	1.88	93.80	80-120
78 Benzo(b)fluoranthe	2.00	1.89	94.51	80-120
79 Benzo(k)fluoranthe	2.00	1.95	97.75	80-120
80 Benzo(a)pyrene	2.00	1.61	80.47	80-120
82 Indeno(1,2,3-cd)py	2.00	1.72	85.85	80-120
83 Dibenzo(a,h)anthra	2.00	1.69	84.68	80-120
84 Benzo(g,h,i)peryle	2.00	1.75	87.30	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 1,4-Dioxane-d8	2.00	0.000	*	10-93
$ 30 2-Methylnaphthale	2.00	0.000	*	43-92
$ 35 2,4-Dibromophenol	4.00	0.000	*	10-130
$ 53 Fluorene-D10	2.00	0.000	*	29-101
$ 69 Pyrene-D10	2.00	0.000	*	53-166

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-N
Lab File IDs : N6779.D N6780.D N6778.D N6781.D N6782.D N6783.D **Column ID:**
Calibration Date(s): 23-JUN-15 13:03 23-JUN-15 15:23

	0.200000(Level 1	0.500000(Level 2	1.0000 Level 3	3.0000 Level 4	7.0000 Level 5	10.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Bis(2-Chloroethyl)ether	1.83775	1.76222	1.71511	1.56607	1.50589	1.38524	AVG		1.62871		10.5374(	15.00000	O
2-Chlorophenol	1.18120	1.20951	1.23275	1.28905	1.41854	1.34827	AVG		1.27989		7.06628	15.00000	O
2,2'-Oxybis(1-chloropropane	0.79441	0.85727	0.88883	0.92184	0.98219	0.90240	AVG		0.89116		7.07353	15.00000	O
N-Nitroso-di-n-propylamine	0.66603	0.67707	0.70862	0.76129	0.80587	0.75482	AVG		0.72895		7.43714	15.00000	O
3&4-Methylphenol	1.04630	1.06067	1.10049	1.17084	1.29956	1.26416	AVG		1.15700		9.20604	15.00000	O
Hexachloroethane	0.50797	0.46548	0.39326	0.46447	0.51162	0.47073	AVG		0.46892		9.10121	15.00000	O
Nitrobenzene	41105	76586	151588	372977	773419	1097223	LNR	-0.35787	0.31489		0.99610	0.99000	O
2-Nitrophenol	0.19944	0.20357	0.21578	0.20312	0.21261	0.19933	AVG		0.20564		3.37051	15.00000	O
bis(2-Chloroethoxy)methane	0.39950	0.42629	0.43196	0.42087	0.41116	0.37180	AVG		0.41026		5.37991	15.00000	O
2,4-Dichlorophenol	0.24346	0.26248	0.27822	0.26807	0.28407	0.26593	AVG		0.26704		5.27984	15.00000	O
Naphthalene	1.14657	0.96464	1.00870	0.97468	0.94567	0.88692	AVG		0.98786		8.86019	15.00000	O
4-Chloroaniline	0.40587	0.43745	0.44855	0.42744	0.43428	0.40986	AVG		0.42724		3.87013	15.00000	O
Hexachlorobutadiene	0.19445	0.18175	0.18895	0.17904	0.17417	0.15892	AVG		0.17955		6.91204	15.00000	O
2-Methylnaphthalene	60910	143297	275312	724702	1544385	2210172	LNR	-0.25197	0.63698		0.99737	0.99000	O
Hexachlorocyclopentadiene	2266	8616	24159	94850	272351	419176	LNR	0.38848	0.29712		0.99576	0.99000	O
1,2,4,5-Tetrachlorobenzene	0.60341	0.63862	0.64036	0.60794	0.63952	0.59515	AVG		0.62083		3.36033	15.00000	O
2,4,6-Trichlorophenol	0.26568	0.31159	0.35205	0.34763	0.38685	0.37164	AVG		0.33924		13.00105	15.00000	O
2,4,5-Trichlorophenol	0.53115	0.50255	0.49462	0.44106	0.47523	0.44828	AVG		0.48215		7.09812	15.00000	O
1,1'-Biphenyl	1.76129	1.81933	1.82538	1.73784	1.78730	1.68333	AVG		1.76908		3.03523	15.00000	O
2-Nitroaniline	0.26661	0.30108	0.32503	0.32210	0.35003	0.33656	AVG		0.31690		9.31494	15.00000	O
2,6-Dinitrotoluene	0.30899	0.35345	0.38076	0.37356	0.41112	0.38602	AVG		0.36898		9.44002	15.00000	O
2,4-Dinitrophenol	0.04431	0.07834	0.10103	0.11871	0.16917	0.18009	AVG		0.11528		45.44248	15.00000	W(
Dibenzofuran	1.77759	1.84398	1.90833	1.81617	1.91940	1.79845	AVG		1.84399		3.16992	15.00000	O
2,4-Dinitrotoluene	0.35636	0.42498	0.46011	0.44373	0.49852	0.48449	AVG		0.44470		11.4272(	15.00000	O
4-Nitrophenol	0.18464	0.19877	0.22329	0.20933	0.25972	0.25118	AVG		0.22116		13.36357	15.00000	O
2,3,4,6-Tetrachlorophenol	0.32387	0.34375	0.36720	0.36967	0.42044	0.39482	AVG		0.36996		9.35233	15.00000	O
4-Chlorophenyl-phenylether	0.65810	0.69070	0.71499	0.67377	0.70175	0.65047	AVG		0.68163		3.70351	15.00000	O
4-Nitroaniline	0.21473	0.24232	0.24298	0.20472	0.23311	0.22579	AVG		0.22728		6.74735	15.00000	O
4,6-Dinitro-2-Methylphenol	13724	37602	73097	129926	215973	331901	QUA	0.37425	7.63949	-0.75686	0.99411	0.99000	O
N-Nitrosodiphenylamine	0.84479	0.86017	0.87388	0.77148	0.80612	0.74726	AVG		0.81728		6.22067	15.00000	O
Hexachlorobenzene	0.32176	0.33213	0.32847	0.29509	0.30385	0.27815	AVG		0.30991		6.83628	15.00000	O
Atrazine	0.17045	0.18312	0.19182	0.17346	0.18655	0.17466	AVG		0.18001		4.68017	15.00000	O
Pentachlorophenol	0.15294	0.15400	0.16814	0.14576	0.16018	0.15965	AVG		0.15678		4.88089	15.00000	O
Phenanthrene	1.25216	1.23333	1.28818	1.22719	1.28422	1.21678	AVG		1.25031		2.40849	15.00000	O
Anthracene	1.50554	1.61772	1.53726	1.33509	1.42329	1.27865	AVG		1.44959		8.84014	15.00000	O
Di-n-butylphthalate	2.24719	2.23762	2.25564	1.97310	2.18807	1.97746	AVG		2.14651		6.27534	15.00000	O
Fluoranthene	1.25300	1.20210	1.24336	1.11653	1.24233	1.16556	AVG		1.20381		4.48136	15.00000	O

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Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-N
Lab File IDs : N6779.D N6780.D N6778.D N6781.D N6782.D N6783.D **Column ID:**
Calibration Date(s): 23-JUN-15 13:03 23-JUN-15 15:23

Pyrene	49747	118527	258919	728876	1818636	2584079	QUA	-0.03154	0.35532	0.00654	0.99994	0.99000	O
Butylbenzylphthalate	140561	300858	501251	773352	1213502	1744498	QUA	-0.07383	0.49108	0.01704	0.99936	0.99000	O
Benzo(a)anthracene	27521	56401	132357	366200	1069947	1681282	LNR	-0.04547	1.25158		0.99949	0.99000	O
3,3'-Dichlorobenzidine	0.26659	0.27549	0.27834	0.28168	0.28328	0.28992	AVG		0.27922		2.82612	15.00000	O
Chrysene	40645	84668	138690	434554	1133242	1688346	LNR	-0.27845	1.26064		0.99861	0.99000	O
bis(2-Ethylhexyl)phthalate	229661	463778	745091	1132682	1735941	2510966	QUA	-0.14342	0.32257	0.00926	0.99842	0.99000	O
Di-n-octylphthalate	284339	612568	1018407	1557782	2475073	3647767	QUA	-0.11686	0.12880	0.00087	0.99429	0.99000	O
Benzo(b)fluoranthene	18197	34502	75742	213765	703846	998280	QUA	0.05333	0.59674	0.00295	0.99109	0.99000	O
Benzo(k)fluoranthene	23958	53018	104578	316787	780100	1296802	LNR	-0.15933	1.87606		0.99926	0.99000	O
Benzo(a)pyrene	1.75015	1.62696	1.30023	1.23861	1.35856	1.30267	AVG		1.42953		14.54197	15.00000	O
Indeno(1,2,3-cd)pyrene	1.16040	0.94659	0.95291	0.84337	0.88721	0.82105	AVG		0.93525		13.08892	15.00000	O
Dibenzo(a,h)anthracene	0.80886	0.66139	0.68002	0.60210	0.64051	0.60032	AVG		0.66553		11.57493	15.00000	O
Benzo(g,h,i)perylene	7694	19553	41765	129813	338222	494804	LNR	-0.18495	0.74765		0.99618	0.99000	O
2-Methylnaphthalene-D10	1.09203	1.13690	1.13834	1.07092	1.10734	1.01694	AVG		1.09374		4.18158	15.00000	
2,4-Dibromophenol	0.33531	0.34989	0.36407	0.35348	0.37563	0.35369	AVG		0.35534		3.82815	15.00000	
Fluorene-D10	0.89557	0.92877	0.93832	0.88861	0.91713	0.85627	AVG		0.90411		3.33644	15.00000	
Pyrene-D10	23587	66268	142886	419789	1048907	1494345	LNR	-0.29475	1.13914		0.99509	0.99000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-n.i\N062315.b\N6784.D
Report Date: 24-Jun-2015 10:51

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Client SDG: 021497
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: WG165324-8
Level: LOW
Operator: JCG
Data Type: MS DATA
SampleType: INDCHECK
SpikeList File: SIM_IND_CHK.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-n.i\N062315.b\NSPSIM45.m
Misc Info: WG165324,WG165324,WG164324-4

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
2 1,4-Dioxane	2.00	2.53	126.35*	80-120
3 Benzaldehyde	2.00	1.77	88.57	80-120
4 Phenol	2.00	2.25	112.68	80-120
5 Bis(2-Chloroethyl)	2.00	2.14	107.22	80-120
6 2-Chlorophenol	2.00	2.13	106.73	80-120
7 1,3-Dichlorobenzen	2.00	1.84	92.21	80-120
9 1,4-Dichlorobenzen	2.00	2.26	113.04	80-120
10 1,2-Dichlorobenzen	2.00	2.18	108.83	80-120
11 2,2'-Oxybis(1-chlo	2.00	1.95	97.30	80-120
12 2-Methylphenol	2.00	1.98	99.13	80-120
13 Acetophenone	2.00	2.09	104.41	80-120
14 N-Nitroso-di-n-pro	2.00	1.97	98.53	80-120
16 Hexachloroethane	2.00	2.04	101.82	80-120
15 3&4-Methylphenol	2.00	2.46	123.08*	80-120
17 Nitrobenzene	2.00	2.61	130.61*	80-120
18 Isophorone	2.00	2.33	116.47	80-120
19 2-Nitrophenol	2.00	2.06	102.76	80-120
20 2,4-Dimethylphenol	2.00	1.97	98.32	80-120
21 bis(2-Chloroethoxy	2.00	2.17	108.45	80-120
22 2,4-Dichlorophenol	2.00	2.08	103.83	80-120
23 1,2,4-Trichloroben	2.00	2.18	109.15	80-120
25 Naphthalene	2.00	2.14	107.06	80-120
26 4-Chloroaniline	2.00	2.10	105.16	80-120
27 Hexachlorobutadien	2.00	2.15	107.44	80-120
28 Caprolactam	2.00	2.00	100.00	80-120
29 4-Chloro-3-Methylp	2.00	2.07	103.67	80-120
31 2-Methylnaphthalen	2.00	2.19	109.72	80-120
32 1-Methylnaphthalen	2.00	2.46	122.85*	80-120
34 1,2,4,5-Tetrachlor	2.00	1.92	96.28	80-120
33 Hexachlorocyclopen	2.00	1.26	63.04*	80-120
36 2,4,6-Trichlorophe	2.00	1.84	91.86	80-120
37 2,4,5-Trichlorophe	2.00	2.08	104.07	80-120
39 2-Chloronaphthalen	2.00	1.99	99.46	80-120
38 1,1'-Biphenyl	2.00	1.98	99.12	80-120
40 2-Nitroaniline	2.00	2.03	101.59	80-120
41 Dimethyl Phthalate	2.00	2.06	102.80	80-120
43 Acenaphthylene	2.00	1.75	87.71	80-120
42 2,6-Dinitrotoluene	2.00	1.88	93.93	80-120
44 3-Nitroaniline	2.00	2.08	103.95	80-120
46 Acenaphthene	2.00	2.03	101.73	80-120

Data File: \\target_server\gg\chem\gcms-n.i\N062315.b\N6784.D
Report Date: 24-Jun-2015 10:51

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
47 2,4-Dinitrophenol	2.00	1.33	66.50*	80-120
48 Dibenzofuran	2.00	2.02	101.30	80-120
49 2,4-Dinitrotoluene	2.00	1.96	97.87	80-120
50 4-Nitrophenol	2.00	1.67	83.66	80-120
51 2,3,4,6-Tetrachlor	2.00	1.57	78.72*	80-120
52 Diethylphthalate	2.00	2.16	107.99	80-120
54 Fluorene	2.00	1.98	99.24	80-120
56 4-Nitroaniline	2.00	2.49	124.55*	80-120
57 4,6-Dinitro-2-Meth	2.00	1.81	90.39	80-120
58 N-Nitrosodiphenyla	2.00	1.60	80.24	80-120
59 4-Bromophenyl-phen	2.00	1.96	98.19	80-120
60 Hexachlorobenzene	2.00	1.92	95.76	80-120
61 Atrazine	2.00	1.74	86.93	80-120
62 Pentachlorophenol	2.00	1.77	88.66	80-120
64 Phenanthrene	2.00	1.90	94.98	80-120
65 Anthracene	2.00	2.03	101.62	80-120
66 Carbazole	2.00	2.00	99.96	80-120
67 Di-n-butylphthalat	2.00	2.13	106.62	80-120
68 Fluoranthene	2.00	1.96	98.04	80-120
70 Pyrene	2.00	1.92	96.03	80-120
71 Butylbenzylphthala	2.00	1.83	91.33	80-120
72 Benzo(a)anthracene	2.00	1.92	95.98	80-120
75 Chrysene	2.00	2.13	106.34	80-120
73 3,3'-Dichlorobenzi	2.00	2.18	109.20	80-120
76 bis(2-Ethylhexyl)p	2.00	1.72	85.90	80-120
77 Di-n-octylphthalat	2.00	1.78	88.98	80-120
78 Benzo(b)fluoranthe	2.00	1.68	83.84	80-120
79 Benzo(k)fluoranthe	2.00	2.17	108.47	80-120
80 Benzo(a)pyrene	2.00	1.73	86.35	80-120
82 Indeno(1,2,3-cd)py	2.00	1.81	90.36	80-120
83 Dibenzo(a,h)anthra	2.00	1.83	91.58	80-120
84 Benzo(g,h,i)peryle	2.00	2.03	101.53	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 1,4-Dioxane-d8	2.00	0.000	*	10-93
$ 30 2-Methylnaphthale	2.00	0.000	*	43-92
$ 35 2,4-Dibromophenol	4.00	0.000	*	10-130
$ 53 Fluorene-D10	2.00	0.000	*	29-101
$ 69 Pyrene-D10	2.00	0.000	*	53-166

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164883-2
Analytical Date: 06/16/15 09:00
Lab File ID : N6525.D
Instrument ID: GCMS-N
Initial Calibration Date(s): 06/05/15 11:28 06/05/15 13:54
Column ID:

Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
5 Bis(2-Chloroethyl)ether	1.41055	1.46817	1.46817	0.010	4.08487	20.00000	Averaged	
6 2-Chlorophenol	1.31641	1.26746	1.26746	0.010	-3.71871	20.00000	Averaged	
11 2,2'-Oxybis(1-chloropropane	0.83354	1.01587	1.01587	0.010	21.87476	20.00000	Averaged	*
14 N-Nitroso-di-n-propylamine	0.87852	0.98250	0.98250	0.050	11.83573	20.00000	Averaged	
15 3&4-Methylphenol	1.13624	1.10131	1.10131	0.010	-3.07429	20.00000	Averaged	
16 Hexachloroethane	0.72545	0.66462	0.66462	0.010	-8.38500	20.00000	Averaged	
17 Nitrobenzene	1.00000	1.00023	0.39184	0.010	0.02306	20.00000	Linear	
19 2-Nitrophenol	0.19336	0.19518	0.19518	0.010	0.93958	20.01000	Averaged	
21 bis(2-Chloroethoxy)methane	0.45051	0.54521	0.54521	0.010	21.02167	20.00000	Averaged	*
22 2,4-Dichlorophenol	0.38038	0.36199	0.36199	0.010	-4.83535	20.01000	Averaged	
25 Naphthalene	0.94575	0.95607	0.95607	0.010	1.09147	20.00000	Averaged	
26 4-Chloroaniline	0.38860	0.41777	0.41777	0.010	7.50473	20.00000	Averaged	
27 Hexachlorobutadiene	0.19349	0.16749	0.16749	0.010	-13.44033	20.01000	Averaged	
31 2-Methylnaphthalene	0.68282	0.69539	0.69539	0.010	1.84194	20.00000	Averaged	
33 Hexachlorocyclopentadiene	1.00000	0.84247	0.18125	0.050	-15.75346	20.00000	Linear	
34 1,2,4,5-Tetrachlorobenzene	0.67867	0.61666	0.61666	0.010	-9.13692	20.00000	Averaged	
36 2,4,6-Trichlorophenol	0.47231	0.43860	0.43860	0.010	-7.13727	20.01000	Averaged	
37 2,4,5-Trichlorophenol	0.55465	0.54217	0.54217	0.010	-2.25014	20.00000	Averaged	
38 1,1'-Biphenyl	1.33693	1.36405	1.36405	0.010	2.02860	20.00000	Averaged	
40 2-Nitroaniline	0.31148	0.42357	0.42357	0.010	35.98831	20.00000	Averaged	*
42 2,6-Dinitrotoluene	0.30146	0.30568	0.30568	0.010	1.40145	20.00000	Averaged	
47 2,4-Dinitrophenol	3.00000	3.83199	0.12398	0.050	27.73287	20.00000	Quadratic	*
48 Dibenzofuran	1.49978	1.51274	1.51274	0.010	0.86444	20.00000	Averaged	
49 2,4-Dinitrotoluene	1.00000	1.02382	0.37418	0.010	2.38204	20.00000	Linear	
50 4-Nitrophenol	0.16607	0.20766	0.20766	0.050	25.04524	20.00000	Averaged	*
51 2,3,4,6-Tetrachlorophenol	0.33550	0.32906	0.32906	0.010	-1.92096	20.00000	Averaged	
55 4-Chlorophenyl-phenylether	0.65249	0.62864	0.62864	0.010	-3.65395	20.00000	Averaged	
56 4-Nitroaniline	0.16058	0.22972	0.22972	0.010	43.04975	20.00000	Averaged	*
57 4,6-Dinitro-2-Methylphenol	3.00000	3.11720	0.11940	0.010	3.90655	20.00000	Quadratic	
58 N-Nitrosodiphenylamine	0.67425	0.65602	0.65602	0.010	-2.70422	20.01000	Averaged	
60 Hexachlorobenzene	0.30648	0.26461	0.26461	0.010	-13.66244	20.00000	Averaged	
61 Atrazine	0.16760	0.15971	0.15971	0.010	-4.70925	20.00000	Averaged	
62 Pentachlorophenol	0.13814	0.15482	0.15482	0.010	12.07777	20.01000	Averaged	
64 Phenanthrene	1.06309	1.03939	1.03939	0.010	-2.23002	20.00000	Averaged	
65 Anthracene	1.07705	1.08109	1.08109	0.010	0.37440	20.00000	Averaged	
67 Di-n-butylphthalate	1.66225	1.53255	1.53255	0.010	-7.80253	20.00000	Averaged	
68 Fluoranthene	1.08864	1.12150	1.12150	0.010	3.01856	20.01000	Averaged	
70 Pyrene	1.78565	1.83317	1.83317	0.010	2.66119	20.00000	Averaged	
71 Butylbenzylphthalate	3.00000	2.77717	0.95780	0.010	-7.42761	20.00000	Quadratic	
72 Benzo(a)anthracene	1.01235	0.95926	0.95926	0.010	-5.24449	20.00000	Averaged	
73 3,3'-Dichlorobenzidine	0.25108	0.28217	0.28217	0.010	12.38449	20.00000	Averaged	

600 Technology Way
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Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164883-2
Analytical Date: 06/16/15 09:00
Lab File ID : N6525.D
Instrument ID: GCMS-N
Initial Calibration Date(s): 06/05/15 11:28 06/05/15 13:54
Column ID:

Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
75 Chrysene	1.00000	0.95585	1.15020	0.010	-4.41520	20.00000	Linear	
76 bis(2-Ethylhexyl)phthalate	3.00000	2.80805	1.48644	0.010	-6.39840	20.00000	Quadratic	
77 Di-n-octylphthalate	3.28148	3.42047	3.42047	0.010	4.23564	20.01000	Averaged	
78 Benzo(b)fluoranthene	1.21263	1.15072	1.15072	0.010	-5.10512	20.00000	Averaged	
79 Benzo(k)fluoranthene	1.00000	0.75317	1.29171	0.010	-24.68271	20.00000	Linear	*
80 Benzo(a)pyrene	1.12366	0.96986	0.96986	0.010	-13.68715	20.01000	Averaged	
82 Indeno(1,2,3-cd)pyrene	0.78532	0.76299	0.76299	0.010	-2.84312	20.00000	Averaged	
83 Dibenzo(a,h)anthracene	0.55278	0.62197	0.62197	0.010	12.51696	20.00000	Averaged	
84 Benzo(g,h,i)perylene	0.79265	0.71740	0.71740	0.010	-9.49285	20.00000	Averaged	
30 2-Methylnaphthalene-D10	1.00719	1.00981	1.00981	0.010	0.26004	20.00000	Averaged	
35 2,4-Dibromophenol	0.30877	0.29918	0.29918	0.010	-3.10773	20.00000	Averaged	
53 Fluorene-D10	0.87649	0.87021	0.87021	0.010	-0.71717	20.00000	Averaged	
69 Pyrene-D10	1.22730	1.19036	1.19036	0.010	-3.00959	20.00000	Averaged	

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY **SDG:** SI3862
Lab ID : WG164825-2 **Analytical Date:** 06/15/15 12:52
Lab File ID : N6598.D **Instrument ID:** GCMS-N
Initial Calibration Date(s): 06/05/15 11:28 06/05/15 13:54 **Column ID:**

Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
5 Bis(2-Chloroethyl)ether	1.41055	2.59104	2.59104	0.010	83.68923	20.00000	Averaged	*
6 2-Chlorophenol	1.31641	1.27758	1.27758	0.010	-2.95000	20.00000	Averaged	
11 2,2'-Oxybis(1-chloropropane	0.83354	0.95288	0.95288	0.010	14.31796	20.00000	Averaged	
14 N-Nitroso-di-n-propylamine	0.87852	1.04206	1.04206	0.050	18.61632	20.00000	Averaged	
15 3&4-Methylphenol	1.13624	1.25213	1.25213	0.010	10.19919	20.00000	Averaged	
16 Hexachloroethane	0.72545	0.52875	0.52875	0.010	-27.11435	20.00000	Averaged	*
17 Nitrobenzene	1.00000	1.55768	0.59904	0.010	55.76792	20.00000	Linear	*
19 2-Nitrophenol	0.19336	0.17722	0.17722	0.010	-8.34761	20.01000	Averaged	
21 bis(2-Chloroethoxy)methane	0.45051	0.53427	0.53427	0.010	18.59148	20.00000	Averaged	
22 2,4-Dichlorophenol	0.38038	0.31337	0.31337	0.010	-17.61736	20.01000	Averaged	
25 Naphthalene	0.94575	1.06855	1.06855	0.010	12.98468	20.00000	Averaged	
26 4-Chloroaniline	0.38860	0.39800	0.39800	0.010	2.41910	20.00000	Averaged	
27 Hexachlorobutadiene	0.19349	0.15935	0.15935	0.010	-17.64268	20.01000	Averaged	
31 2-Methylnaphthalene	0.68282	0.73391	0.73391	0.010	7.48288	20.00000	Averaged	
33 Hexachlorocyclopentadiene	1.00000	0.86837	0.18909	0.050	-13.16300	20.00000	Linear	
34 1,2,4,5-Tetrachlorobenzene	0.67867	0.62227	0.62227	0.010	-8.30987	20.00000	Averaged	
36 2,4,6-Trichlorophenol	0.47231	0.36866	0.36866	0.010	-21.94434	20.01000	Averaged	*
37 2,4,5-Trichlorophenol	0.55465	0.62911	0.62911	0.010	13.42355	20.00000	Averaged	
38 1,1'-Biphenyl	1.33693	1.34226	1.34226	0.010	0.39936	20.00000	Averaged	
40 2-Nitroaniline	0.31148	0.38242	0.38242	0.010	22.77534	20.00000	Averaged	*
42 2,6-Dinitrotoluene	0.30146	0.28688	0.28688	0.010	-4.83534	20.00000	Averaged	
47 2,4-Dinitrophenol	3.00000	3.52815	0.11154	0.050	17.60516	20.00000	Quadratic	
48 Dibenzofuran	1.49978	1.45652	1.45652	0.010	-2.88400	20.00000	Averaged	
49 2,4-Dinitrotoluene	1.00000	0.98894	0.36020	0.010	-1.10586	20.00000	Linear	
50 4-Nitrophenol	0.16607	0.17727	0.17727	0.050	6.74473	20.00000	Averaged	
51 2,3,4,6-Tetrachlorophenol	0.33550	0.36885	0.36885	0.010	9.93920	20.00000	Averaged	
55 4-Chlorophenyl-phenylether	0.65249	0.61404	0.61404	0.010	-5.89215	20.00000	Averaged	
56 4-Nitroaniline	0.16058	0.17117	0.17117	0.010	6.59031	20.00000	Averaged	
57 4,6-Dinitro-2-Methylphenol	3.00000	3.00745	0.11460	0.010	0.24847	20.00000	Quadratic	
58 N-Nitrosodiphenylamine	0.67425	0.67537	0.67537	0.010	0.16657	20.01000	Averaged	
60 Hexachlorobenzene	0.30648	0.26053	0.26053	0.010	-14.99366	20.00000	Averaged	
61 Atrazine	0.16760	0.14207	0.14207	0.010	-15.23420	20.00000	Averaged	
62 Pentachlorophenol	0.13814	0.14825	0.14825	0.010	7.32253	20.01000	Averaged	
64 Phenanthrene	1.06309	0.93675	0.93675	0.010	-11.88471	20.00000	Averaged	
65 Anthracene	1.07705	1.22890	1.22890	0.010	14.09849	20.00000	Averaged	
67 Di-n-butylphthalate	1.66225	1.51229	1.51229	0.010	-9.02183	20.00000	Averaged	
68 Fluoranthene	1.08864	1.01740	1.01740	0.010	-6.54342	20.01000	Averaged	
70 Pyrene	1.78565	1.84697	1.84697	0.010	3.43395	20.00000	Averaged	
71 Butylbenzylphthalate	3.00000	2.84207	0.97718	0.010	-5.26443	20.00000	Quadratic	
72 Benzo(a)anthracene	1.01235	0.98742	0.98742	0.010	-2.46295	20.00000	Averaged	
73 3,3'-Dichlorobenzidine	0.25108	0.21710	0.21710	0.010	-13.53445	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164825-2
Analytical Date: 06/15/15 12:52
Lab File ID : N6598.D
Instrument ID: GCMS-N
Initial Calibration Date(s): 06/05/15 11:28 06/05/15 13:54
Column ID:

Compound	RRF/Amount	RF1	CCAL RRF1	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
75 Chrysene	1.00000	0.95958	1.15390	0.010	-4.04153	20.00000	Linear	
76 bis(2-Ethylhexyl)phthalate	3.00000	2.78200	1.47524	0.010	-7.26668	20.00000	Quadratic	
77 Di-n-octylphthalate	3.28148	4.41921	4.41921	0.010	34.67129	20.01000	Averaged	*
78 Benzo(b)fluoranthene	1.21263	1.25391	1.25391	0.010	3.40416	20.00000	Averaged	
79 Benzo(k)fluoranthene	1.00000	1.05290	1.70087	0.010	5.29043	20.00000	Linear	
80 Benzo(a)pyrene	1.12366	1.09525	1.09525	0.010	-2.52878	20.01000	Averaged	
82 Indeno(1,2,3-cd)pyrene	0.78532	0.70180	0.70180	0.010	-10.63462	20.00000	Averaged	
83 Dibenzo(a,h)anthracene	0.55278	0.52402	0.52402	0.010	-5.20274	20.00000	Averaged	
84 Benzo(g,h,i)perylene	0.79265	0.66200	0.66200	0.010	-16.48232	20.00000	Averaged	
30 2-Methylnaphthalene-D10	1.00719	1.01502	1.01502	0.010	0.77762	20.00000	Averaged	
35 2,4-Dibromophenol	0.30877	0.29543	0.29543	0.010	-4.32165	20.00000	Averaged	
53 Fluorene-D10	0.87649	0.87603	0.87603	0.010	-0.05318	20.00000	Averaged	
69 Pyrene-D10	1.22730	1.23749	1.23749	0.010	0.83067	20.00000	Averaged	

*** = Compound out of QC criteria**

Logbooks and Supporting Documents

625/SV/SIM
SEP

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) ✓		SW846 3520 (CLLE)		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625 ✓	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV8717		Spike ID (1): SV8715		
	Surrogate ID (2):		Spike ID (2): SIM: SV8718		
Solvents/Acid/Base	Solvent Lot # (Mecl2): DM804		H_2SO_4 Lot # 71333		NaOH Lot # 62534
Consumables	Filter Paper Lot # 96/8/511		$NaSO_4$ Lot # 2796500		
Nitrogen Water Bath Temperature 36°C			pH (1st Extraction) ≥11		pH (2nd Extraction) ≤2
Prep Start Time: 1000	Prep End Time: 14:40		CLLE Start Time: —		CLLE End Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
		WG164593-1 625								SV4036		625-R
6-1-15	KF	WG164594-1 SV WG164595-1 SIM	1000	1mL	NR	✓	✓	1mL	6-1-15	C8	JMS	SV-R SIM-R
		WG164593-2 WG164594-2			1mL	✓				C9		
		WG164595-2					✓			C10		
		-3	1060				✓			D1		MS S14024-5D
		-4	1060				✓			D2		MSD " -5E
		WG164594-3	~~1000~~ 1060	2mL	NR	✓				D3		SPLP Blank PBT12350 diluted to 1000mL
		WG164595-4S (WG164595-6 SIM)	1060	1mL	1mL	✓	✓			D4		MS S14050-2S
		-5G	1060			✓	✓			D5		MSD -2F

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QAEX284

0000080

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
6-1-15	KF	S13987-2A	1060	1mL	NR	✓		1mL	6-1-15	D6	JMS	625 em-SS -cont
		S13988-2A	1060							D7		
		S14018-3A	1060							D8		cont
		S14022-2A	1060							D9		em-SS
		S14023-2A	1060							D10		
		S14028-1D	1060							E1		
		S14029-1F	1020							E2		cont
		S13862-6P	1050	2mL		✓				E3		SPLP
		S13862-7F	830	2mL		✓				E4		SPLP
		S13907-2F	1060	1mL		✓				E5		em-S.S.
		S14024-1B	1060				✓			E6		
		-2B	1060							E7		
		-3B	1020							E8		
		-4B	1030							E9		
		-5G	1050							E10		MSD
		S14050-2E	1060							SV037		
		-3C								F2		em-SS
		-4G								F3		
		-5F	1030							F4		

Reviewed By_____ Date_____

EX-007 – Revision 2 – 12/05/2013

QAEX284

0000081

S|S|625
SEP

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) ✓		SW846 3520 (CLLE)		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625 ✓	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV2721		Spike ID (1): SV2715(SV)		
	Surrogate ID (2):		Spike ID (2): SV2716(SIM)		
Solvents/Acid/Base	Solvent Lot # (Mecl2): DM824		H_2SO_4 Lot # 71333		NaOH Lot # 62534
Consumables	Filter Paper Lot # 96181511		$NaSO_4$ Lot # 27965002		
Nitrogen Water Bath Temperature 36°C			pH (1st Extraction) ≤2		pH (2nd Extraction) ≥11
Prep Start Time: 1130	Prep End Time: 1330		CLLE Start Time:		CLLE End Time:

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SVD39	Initials	Comments R_{SV} 322505
6-22-15	WAS	WG-165248-1 248-1 251-1	1000	1mL	NR	✓	✓	1mL	6-22-15	A1	KF	R_{SIM} 322506
		WG-165248-2 251-2			1mL					A2		R_{625} 322507
		248-3 251-3								3		
		WG-165248-4	1010		NR					4		SPLP Blank 1251A
		-5	200							5		TCLP Blank 1250A → 200mL w/DI
		-6	900		1mL					6		MS SD3862-6
		-7	880							7		MSD -6
		WG-165249-2	~~750~~ 1000 MS ~~703~~				✓			8		
		-3								9		
		-4	1010		NR					A10		SPLP Blank 1251A
		-5	750		1mL					B1		MS SD3862-6
		-6	1030							B2		MSD -6

EX-007 – Revision 2 – 12/05/2013 QAEX284 000008

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
6-22-15	WAS	SD4240-1	200	1mL	NR	✓		1mL	6-22-15	B3	KF	TCLP → 200mL w/DI
		SD4291-2	1020				✓			4		SPLP
		-4								5		
		-6	960							6		
		-9	880							7		
		SD4306-7 H	1050			✓				8		
		SD4319-1 F	1060			✓				9		625
		SD4332-1 H	980				✓			B10		
		-3 H	1010							C1		emulsion → SS
		-5 H	1050							2		
		-7 H	1000							3		
		-9 G	1060							4		Continuous
		-10 F	1010							5		
		-11 H	1050			✓	✓			C6		
									KF	6-22-15		

Reviewed By_____ Date_____

EX-007 – Revision 2 – 12/05/2013

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5975B - N

DATE OF DFTPP INJECTION: 060515

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164187-1	50ng DFTPP	N0946	1	1	DFTPP SVM	2.0	JLL	OK
-4	SSTD1.00 N0605	N6392		2	NSPSIM44			✓
-2	0.2	93		3				✓
-3	0.5	94		4				✓
-5	3.0	95		5				✓
-6	7.0	96		6				✓
-7	10.	97		7				✓
-8	100	98		8				OK
7550	WG164111-1	99		9				OK
	-2	N6400		10				OK
	SI3800-7DL	01	3	11				OK DL1:5 100/300
	-13RA	02	1	12				OK
	-6	03		13				OK
	-9	04		14				OK
	WG164181-3	05		15				OK
	-4	06		16				OK
	SI3800-10	07		17				OK DL1:4
	-15	08		18				OK
	-16	09		19				OK
	-3	10		20				OK
	-17	11		21				OK
	-28	12		22				OK
	-8	13		23				— DL1:10
	-22RA	14		24				OK
	-23RA	15		25				OK
	-33	16		26				OK
	-5	17		27				OK
	Hellr	18-23		28				—

STANDARD	CODE
DFTPP	52611
CAL. STD.	52595 52624
IS MIX	52615

REVIEWED AND APPROVED BY: _____
DATE: _____

SVOA-005 – Revision 1 – 03/01/2011

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5975B - N

DATE OF DFTPP INJECTION: 061515

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WH164825-1	50ng DFTPP	ND952	1	1	DFTPP SIM	20	JM	OK
-2	SSTD1.00 N0615	N6598		2	NSPSIM44			OK
3550	WH164595-1RA	99		3				OK
	-2RA	N6600		4				OK
	SI4050-2	01		5				~~SS~~ OK
	-3	02		6				SS
	-4	03		7				SS
	-5	04		8				SS
	WH164595-5	05		9				OK
	-6	06		10				OK
3550	SI3897-5DL	07	8	11				OK 50/400
	-8DL2	08	50	12				— DL 1:150 50/500 → 50/250
	-9DL2	09	100	13				OK (50/500)X2
	-10DL	10	25	14				— DL 1:75 (50/250)X2
	-13DL	11	3	15				OK 100/300
	-14DL	12	4	16				OK 100/400
	-18DL2	13	30	17				— DL 1:100 50/250 → 50/300
	-20DL	14	10	18				OK 50/500
	-17DL	15	10	19				OK
	-8DL	16	10	20				OK
	-9DL	17	10	21				OK
	-15DL	18	3	22				OK 100/300
	-7	19	1	23				OK
	-20	20		24				OK
	-17	21		25				1552 OK
	-6	22		26				1556 OK
	-15	23		27				OOC
	-18DL	24	2	28				100/200

STANDARD	CODE
DFTPP	52611
CAL. STD.	52595 52624
IS MIX	52633

REVIEWED AND APPROVED BY: _____
DATE: _____

SVOA-005 – Revision 1 – 03/01/2011

DATE OF DFTPP INJECTION: 061615

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5975B - N

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164883-1	50ng DFTPP	ND953	1	1	DFTPPSVM	2.0	JLM	OK
-2	SSTD 1.00 ND616	N6625	1	2	NSPSVM44			OK
3510	SI4050-3DL	26	3	3				OK, SSL 100/300
	WG164814-1	27	1	4				OK
	-2	28		5				OK
	-3	29		6				OK
	SI3862-6	30		7				OK
	-7	31		8				OK
3550	WG164585-1	32		9				OK
	-2	33		10				OK
	SI3897-18DL2	34	100	11				OK (50/500)x2
	-8DL2	35	150	12				— DL 1:200 50/500 → 50/7500
	-22	36	1	13				OK
	-23	37		14				OK
	-27	38		15				OK
	-28	39		16				OK
	-29	40		17				OK
	-30	41		18				OK
	-5	42		19				OK
	SI4015-2	43		20				OK
	SI3897-24	44		21				1562 DL 1:3
	SI4015-1	45		22				OK DL 1:4
	SI3897-21	46		23				OK DL 1:25
	-15	47		24				OK
	-26	48		25				OK DL 1:8
	-18DL	49	2	26				OK 150/200
	MeOH	50-60	1	27				—

STANDARD	CODE
DFTPP	52611
CAL. STD.	52555 52624
IS MIX	52633

REVIEWED AND APPROVED BY: _____
DATE: _____

SVOA-005 – Revision 1 – 03/01/2011

KATAHDIN ANALYTICAL SERVICES

GC/MS SVOA INJ LOG INSTRUMENT: 5975B - N

DATE OF DFTPP INJECTION: 062315

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG165324-1	50ng DFTPP	ND958	1	1	DFTPPSV4	2.0	JLL	OK
-4	SSTD1.00 ND623	N6778		2	NSP SV445			✓
-2	0.2	79		3				✓
-3	0.5	80		4				✓
-5	3.0	81		5				✓
-6	7.0	82		6				✓
-7	12.	83		7				✓
-8	IND	84		8				OK
3510	WG165249-1	85		9				OK
	-4	86		10				OK SPLP PB1125CA
	-2	87		11				OK
	-3	88		12				OK
	-5	89		13				OK SI3862 SPLP
	-6	90		14				OK SSY4
	SIY291-2	91		15				~~OK~~ not run; power loss SPLP
	-4	92		16				
	-6	93		17				
	-9	94		18				
	SIY332-1	95		19				
	-3	96		20				
	-5	97		21				
	-7	98		22				
	-9	99		23				
	-10	N6800		24				
	-11	01		25				
3550	SIY226-7DL	02	8	26				SI4400
	-8DL	03	7	27				SI350
	~~SI~~ WG165008-1	04	1	28				EPLF

STANDARD	CODE
DFTPP	52611
CAL. STD.	52595 52637
IS MIX	52638

REVIEWED AND APPROVED BY: _____

DATE: _____

cont next page

SVOA-005 – Revision 1 – 03/01/2011

QAMS570

0000031

KATAHDIN ANALYTICAL SERVICES, INC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ / SW846 1312 (SPLP) ☑	Extractor ID: / Balance ID: BAL-08	Room Thermometer ID: DIG-23 (Room Temp Criteria: 23(±2)°C) / pH Meter ID: Orion 520A s/n 7422	pH Probe ID: 573356-003D
Solid pH Determination:	Date: 06·18·15		Analyst: GES / JS	
Rotary Extraction Started:	Date: 06·18·15	Time: 14:23	Analyst: GES	Room Temp. (degrees °C): 20.1
Rotary Extraction Completed:	Date: 06·19·15	Time: 06:23	Analyst: GES	Room Temp. (degrees °C): 20.1
Extraction Filtered:	Date: 06·19·15	Time: 07:00-11:00	Analyst: GES / DW	Filter Lot #: RSA44228 / RSAA49484
Elapsed Extraction Time (HH:MM): 16:00		5% HNO_3 ID (used to wash filters): MR1474		HNO_3 Lot # (used to preserve extracts): 104117
Fluid 1 pH (Day of use): 4.19		Fluid 1 Expiration Date: 06·18·15		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		

TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

II. EXTRACTION SETUP

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids-waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction:	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SI3862-60"17	SL			1	—	—	2,000	/	PBT125IA	100.02	5.64	S, M	32
SI3862-60"2	SL			1	—	—	↓	/	↓	100.07	5.51	↓	14

GES 06·19·15

ME-001 – Revision 4 – 07/05/2011

Katahdin Analytical Services 0000278

KATAHDIN ANALYTICAL SERVICES, INC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ / SW846 1312 (SPLP) ☑	Extractor ID: #2	Room Thermometer ID: DIG-23	(Room Temp Criteria. 23(±2)°C)
		Balance ID: BAL-0615	pH Meter ID: Orion 520A s/n 7422	pH Probe ID: 7
Solid pH Determination:	Date: 06-05-15	GES 06-05-15	Analyst: GES	
Rotary Extraction Started:	Date: 06-05-15	Time: 15:50	Analyst: GES	Room Temp. (degrees °C): 18.1
Rotary Extraction Completed:	Date: 06-06-15	Time: 08:06	Analyst: Eam	Room Temp. (degrees °C): 17.8
Extraction Filtered:	Date: 06/06/15	Time: 15:05	Analyst: [illegible]	Filter Lot #: R5AA49484
Elapsed Extraction Time (HH:MM):		5% HNO_3 ID (used to wash filters):		HNO_3 Lot # (used to preserve extracts):
Fluid 1 pH (Day of use): 4.24 (1225)		Fluid 1 Expiration Date: 01-14-16		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		

II. EXTRACTION SETUP

TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids-waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction: 06-05-15 GES	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SI3862-1	SL	✓		1	—	—	2000	—	PBT1255D	100.38	6.49	M, S	18
SI3862-2	SL	✓		1	—	—	↓	—	↓	100.59	6.59	M, S	3
PBT1225D	Aq	—		1	—	—	↓	—	↓	—	6.59	M, S	1

Katahdin Analytical Services 0000279

SPLP SEMIVOLATILE DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE08 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI3862

Client Sample ID	Lab Sample ID	Col. ID	2FBP	#	2FP	#	NBZ	#	PHL	#	TBP	#	TPH	#
SITE4TS-FB	SI3862-6		76.6.		40.6		82.4		27.2		83.9		88.4	
SITE4TS-XX	SI3862-7		79.7		34.7		80.8		26.8		64.1		73.7	
Method Blank Sample	WG164594-1		72.0		39.6		68.4		27.9		70.8		92.1	
Laboratory Control S	WG164594-2		75.0		36.7		70.0		25.3		80.2		73.9	
SPLP Blank	WG164594-3		70.5		38.8		71.5		27		66.9		75.5	
Method Blank Sample	WG165248-1		82.1		38.0		80.2		27.2		54.9		78.8	
Laboratory Control S	WG165248-2		93.7		38.6		81.8		28.5		96.4		93.8	
Laboratory Control S	WG165248-3		83.1		36.4		76.7		23.8		95.3		82.7	
Matrix Spike	WG165248-6		82.9		35.6		85.0		24.1		85.3		90.4	
Matrix Spike Duplica	WG165248-7		76.3		34.2		76.6		24.0		77.9		79.2	

		QC Limits
2FBP	2-FLUOROBIPHENYL	50-110
2FP	2-FLUOROPHENOL	20-110
PHL	PHENOL-D6	10-115
TPH	TERPHENYL-D14	50-135
NBZ	NITROBENZENE-D5	40-110
TBP	2,4,6-TRIBROMOPHENOL	40-125

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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

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sales@katahdinlab.com

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : U0651.D
Instrument ID : GCMS-U
Matrix : AQ

SDG : SI3862
Lab Sample ID : WG164594-1
Date Extracted : 11-JUN-15
Date Analyzed : 11-JUN-15
Time Analyzed : 18:03

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
SPLP Blank	WG164594-3	U0652.D	06/11/15	18:31
Laboratory Control S	WG164594-2	U0653.D	06/11/15	18:59
SITE4TS-FB	SI3862-6	U0654.D	06/11/15	19:26
SITE4TS-XX	SI3862-7	U0655.D	06/11/15	19:54

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : U0790.D
Instrument ID : GCMS-U
Matrix : AQ

SDG : SI3862
Lab Sample ID : WG165248-1
Date Extracted : 22-JUN-15
Date Analyzed : 23-JUN-15
Time Analyzed : 12:08

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG165248-2	U0793.D	06/23/15	13:31
Laboratory Control S	WG165248-3	U0794.D	06/23/15	13:59
Matrix Spike	WG165248-6	U0802.D	06/23/15	17:44
Matrix Spike Duplica	WG165248-7	U0803.D	06/23/15	18:13

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164594-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: U0651.D

Sample Date:
Received Date:
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164594

Analysis Date: 11-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzaldehyde	U	7.5	ug/L	1	10	10.	1.0	7.5
Phenol	U	7.5	ug/L	1	10	10.	1.8	7.5
2-Methylphenol	U	7.5	ug/L	1	10	10.	3.8	7.5
Acetophenone	U	7.5	ug/L	1	10	10.	3.9	7.5
Isophorone	U	7.5	ug/L	1	10	10.	1.7	7.5
2,4-Dimethylphenol	U	7.5	ug/L	1	10	10.	4.4	7.5
Caprolactam	U	7.5	ug/L	1	10	10.	0.40	7.5
4-Chloro-3-Methylphenol	U	7.5	ug/L	1	10	10.	3.6	7.5
2-Chloronaphthalene	U	7.5	ug/L	1	10	10.	2.8	7.5
Dimethyl Phthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
Acenaphthylene	U	7.5	ug/L	1	10	10.	1.5	7.5
3-Nitroaniline	U	19	ug/L	1	25	25.	1.5	19.
Acenaphthene	U	7.5	ug/L	1	10	10.	1.5	7.5
Diethylphthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
Fluorene	U	7.5	ug/L	1	10	10.	2.1	7.5
4-Bromophenyl-Phenylether	U	7.5	ug/L	1	10	10.	1.9	7.5
Carbazole	U	7.5	ug/L	1	10	10.	2.1	7.5
2-Fluorophenol		39.6	%					
Phenol-d6		27.9	%					
Nitrobenzene-d5		68.4	%					
2-Fluorobiphenyl		72.0	%					
2,4,6-Tribromophenol		70.8	%					
Terphenyl-d14		92.1	%					

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164594-3
Client ID: SPLP Blank
Project:
SDG: SI3862
Lab File ID: U0652.D

Sample Date:
Received Date:
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: 3510/1312
Lab Prep Batch: WG164594

Analysis Date: 11-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzaldehyde	U	7.5	ug/L	1	10	10.	1.0	7.5
Phenol	U	7.5	ug/L	1	10	10.	1.8	7.5
2-Methylphenol	U	7.5	ug/L	1	10	10.	3.8	7.5
Acetophenone	U	7.5	ug/L	1	10	10.	3.9	7.5
Isophorone	U	7.5	ug/L	1	10	10.	1.7	7.5
2,4-Dimethylphenol	U	7.5	ug/L	1	10	10.	4.4	7.5
Caprolactam	U	7.5	ug/L	1	10	10.	0.40	7.5
4-Chloro-3-Methylphenol	U	7.5	ug/L	1	10	10.	3.6	7.5
2-Chloronaphthalene	U	7.5	ug/L	1	10	10.	2.8	7.5
Dimethyl Phthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
Acenaphthylene	U	7.5	ug/L	1	10	10.	1.5	7.5
3-Nitroaniline	U	19	ug/L	1	25	25.	1.5	19.
Acenaphthene	U	7.5	ug/L	1	10	10.	1.5	7.5
Diethylphthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
Fluorene	U	7.5	ug/L	1	10	10.	2.1	7.5
4-Bromophenyl-Phenylether	U	7.5	ug/L	1	10	10.	1.9	7.5
Carbazole	U	7.5	ug/L	1	10	10.	2.1	7.5
2-Fluorophenol		38.8	%					
Phenol-d6		27	%					
Nitrobenzene-d5		71.5	%					
2-Fluorobiphenyl		70.5	%					
2,4,6-Tribromophenol		66.9	%					
Terphenyl-d14		75.5	%					

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Report of Analytical Results

Client:
Lab ID: WG165248-1
Client ID: Method Blank Sample
Project:
SDG: SI3862
Lab File ID: U0790.D

Sample Date:
Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: SW846 3510
Lab Prep Batch: WG165248

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzaldehyde	U	7.5	ug/L	1	10	10.	1.0	7.5
Phenol	U	7.5	ug/L	1	10	10.	1.8	7.5
2-Methylphenol	U	7.5	ug/L	1	10	10.	3.8	7.5
Acetophenone	U	7.5	ug/L	1	10	10.	3.9	7.5
Isophorone	U	7.5	ug/L	1	10	10.	1.7	7.5
2,4-Dimethylphenol	U	7.5	ug/L	1	10	10.	4.4	7.5
Caprolactam	U	7.5	ug/L	1	10	10.	0.40	7.5
4-Chloro-3-Methylphenol	U	7.5	ug/L	1	10	10.	3.6	7.5
2-Chloronaphthalene	U	7.5	ug/L	1	10	10.	2.8	7.5
Dimethyl Phthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
Acenaphthylene	U	7.5	ug/L	1	10	10.	1.5	7.5
3-Nitroaniline	U	19	ug/L	1	25	25.	1.5	19.
Acenaphthene	U	7.5	ug/L	1	10	10.	1.5	7.5
Diethylphthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
Fluorene	U	7.5	ug/L	1	10	10.	2.1	7.5
4-Bromophenyl-Phenylether	U	7.5	ug/L	1	10	10.	1.9	7.5
Carbazole	U	7.5	ug/L	1	10	10.	2.1	7.5
2-Fluorophenol		38.0	%					
Phenol-d6		27.2	%					
Nitrobenzene-d5		80.2	%					
2-Fluorobiphenyl		82.1	%					
2,4,6-Tribromophenol		54.9	%					
Terphenyl-d14		78.8	%					

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164594-2
Client ID: LCS
Project:
SDG: SI3862
LCS File ID: U0653.D

Sample Date:
Received Date:
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164594

Analysis Date: 11-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Benzaldehyde	* 398.	50.0	199.	ug/L	10-189
Phenol	24.6	100.	24.6	ug/L	0-115
2-Methylphenol	53.2	100.	53.2	ug/L	40-110
Acetophenone	74.4	50.0	37.2	ug/L	49-102
Isophorone	56.2	50.0	28.1	ug/L	50-110
2,4-Dimethylphenol	70.8	100.	70.8	ug/L	30-110
Caprolactam	11.9	50.0	5.94	ug/L	10-86
4-Chloro-3-Methylphenol	80.1	100.	80.1	ug/L	45-110
2-Chloronaphthalene	68.2	50.0	34.1	ug/L	50-105
Dimethyl Phthalate	79.8	50.0	39.9	ug/L	25-125
Acenaphthylene	76.6	50.0	38.3	ug/L	50-105
3-Nitroaniline	70.2	50.0	35.1	ug/L	20-125
Acenaphthene	76.4	50.0	38.2	ug/L	45-110
Diethylphthalate	84.4	50.0	42.2	ug/L	45-120
Fluorene	81.4	50.0	40.7	ug/L	50-110
4-Bromophenyl-Phenylether	90.8	50.0	45.4	ug/L	50-115
Carbazole	88.0	50.0	44.0	ug/L	50-115
2-Fluorophenol	36.7				20-110
Phenol-d6	25.3				10-115
Nitrobenzene-d5	70.0				40-110
2-Fluorobiphenyl	75.0				50-110
2,4,6-Tribromophenol	80.2				40-125
Terphenyl-d14	73.9				50-135

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG165248-2
LCSD ID: WG165248-3
Project:
SDG: SI3862
Report Date: 25-JUN-15
LCS File ID: U0793.D

Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: SW846 3510
Lab Prep Batch: WG165248
LCSD File ID: U0794.D

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Benzaldehyde	50.0	133.	266.*	141.	282.*	ug/L	6	30	10-189
Phenol	100.	27.5	27.5	24.3	24.3	ug/L	12	30	0-115
2-Methylphenol	100.	58.5	58.5	53.2	53.2	ug/L	9	30	40-110
Acetophenone	50.0	40.5	81.0	37.2	74.4	ug/L	8	30	49-102
Isophorone	50.0	32.4	64.8	30.2	60.4	ug/L	7	30	50-110
2,4-Dimethylphenol	100.	77.1	77.1	77.4	77.4	ug/L	0	30	30-110
Caprolactam	50.0	8.45	16.9	7.85	15.7	ug/L	7	30	10-86
4-Chloro-3-Methylphenol	100.	85.6	85.6	86.0	86.0	ug/L	0	30	45-110
2-Chloronaphthalene	50.0	37.9	75.8	33.9	67.8	ug/L	11	30	50-105
Dimethyl Phthalate	50.0	49.5	99.0	40.6	81.2	ug/L	20	30	25-125
Acenaphthylene	50.0	44.6	89.2	38.3	76.6	ug/L	15	30	50-105
3-Nitroaniline	50.0	38.6	77.2	33.6	67.2	ug/L	14	30	20-125
Acenaphthene	50.0	46.8	93.6	42.0	84.0	ug/L	11	30	45-110
Diethylphthalate	50.0	59.0	118.	47.9	95.8	ug/L	21	30	45-120
Fluorene	50.0	54.2	108.	49.2	98.4	ug/L	10	30	50-110
4-Bromophenyl-Phenylether	50.0	47.9	95.8	40.7	81.4	ug/L	16	30	50-115
Carbazole	50.0	51.2	102.	44.2	88.4	ug/L	15	30	50-115
2-Fluorophenol			38.6		36.4				20-110
Phenol-d6			28.5		23.8				10-115
Nitrobenzene-d5			81.8		76.7				40-110
2-Fluorobiphenyl			93.7		83.1				50-110
2,4,6-Tribromophenol			96.4		95.3				40-125
Terphenyl-d14			93.8		82.7				50-135

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG165248-6
MSD ID: WG165248-7
Sample ID: SI3862-6
Client ID: SITE4TS-FB
Project:
SDG: SI3862
MS File ID: U0802.D

Received Date:
Extract Date: 22-JUN-15
Extracted By: WAS
Extraction Method: 3510/1312
Lab Prep Batch: WG165248
Report Date: 25-JUN-15
MSD File ID: U0803.D

Analysis Date: 23-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Benzaldehyde	55.6	56.8	ug/L	ULMM7.	160	130	281.*	236.*	15	30	10-189
Phenol	111.	114.	ug/L	U7.1	27.	27.	24.2	23.7	0	30	0-115
2-Methylphenol	111.	114.	ug/L	U7.1	62.	61.	55.4	53.9	0	30	40-110
Acetophenone	55.6	56.8	ug/L	U7.1	48.	43.	86.4	75.0	12	30	49-102
Isophorone	55.6	56.8	ug/L	U7.1	36.	34.	65.7	59.7	7	30	50-110
2,4-Dimethylphenol	111.	114.	ug/L	U7.1	89.	87.	80.4	76.3	3	30	30-110
Caprolactam	55.6	56.8	ug/L	U7.1	8.9	8.8	16.0	15.5	1	30	10-86
4-Chloro-3-Methylphenol	111.	114.	ug/L	U7.1	100	100	90.0	88.0	0	30	45-110
2-Chloronaphthalene	55.6	56.8	ug/L	U7.1	39.	36.	70.2	63.9	7	30	50-105
Dimethyl Phthalate	55.6	56.8	ug/L	U7.1	49.	46.	88.6	80.4	7	30	25-125
Acenaphthylene	55.6	56.8	ug/L	U7.1	44.	41.	79.4	72.9	6	30	50-105
3-Nitroaniline	55.6	56.8	ug/L	U18	39.	36.	70.0	62.5	9	30	20-125
Acenaphthene	55.6	56.8	ug/L	U7.1	53.	46.	95.2	80.2	15	30	45-110
Diethylphthalate	55.6	56.8	ug/L	J2.6	53.	48.	91.1	79.7	10	30	45-120
Fluorene	55.6	56.8	ug/L	U7.1	58.	55.	104.	96.6	5	30	50-110
4-Bromophenyl-Phenylether	55.6	56.8	ug/L	U7.1	48.	46.	86.2	81.7	3	30	50-115
Carbazole	55.6	56.8	ug/L	U7.1	46.	47.	82.8	83.4	3	30	50-115
2-Fluorophenol							35.6	34.2			20-110
Phenol-d6							24.1	24.0			10-115
Nitrobenzene-d5							85.0	76.6			40-110
2-Fluorobiphenyl							82.9	76.3			50-110
2,4,6-Tribromophenol							85.3	77.9			40-125
Terphenyl-d14							90.4	79.2			50-135

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Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : UD381.D
Instrument ID : GCMS-U

SDG : SI3862
Date Analyzed : 05-JUN-15
Time Analyzed : 14:09

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	34.8		
68	Less than 2.0% of mass 69	0.5	1.29	1
69	Less than 100.0% of mass 198	37.4		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	47.7		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	7.1		
275	10.0 - 30.0% of mass 198	22.1		
365	1.0 - 100.0% of mass 198	2.5		
441	0.0 - 100.0% of mass 443	14.8	82.58	2
442	40.0 - 100.0% of mass 198	91.9		
443	17.0 - 23.0% of mass 442	17.9	19.48	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG164192-4	U0591.D	06/05/15	14:27
Initial Calibration	WG164192-2	U0592.D	06/05/15	15:26
Initial Calibration	WG164192-3	U0593.D	06/05/15	15:52
Initial Calibration	WG164192-5	U0594.D	06/05/15	16:19
Initial Calibration	WG164192-6	U0595.D	06/05/15	16:46
Initial Calibration	WG164192-7	U0596.D	06/05/15	17:12
Independent Source	WG164192-8	U0597.D	06/05/15	17:39

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : UD384.D
Instrument ID : GCMS-U

SDG : SI3862
Date Analyzed : 11-JUN-15
Time Analyzed : 08:51

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	34.9		
68	Less than 2.0% of mass 69	0.5	1.18	1
69	Less than 100.0% of mass 198	39.7		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	50.0		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	19.9		
365	1.0 - 100.0% of mass 198	2.2		
441	0.0 - 100.0% of mass 443	11.2	83.59	2
442	40.0 - 100.0% of mass 198	69.9		
443	17.0 - 23.0% of mass 442	13.4	19.13	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG164504-2	U0632.D	06/11/15	09:09
Method Blank Sample	WG164594-1	U0651.D	06/11/15	18:03
SPLP Blank	WG164594-3	U0652.D	06/11/15	18:31
Laboratory Control S	WG164594-2	U0653.D	06/11/15	18:59
SITE4TS-FB	SI3862-6	U0654.D	06/11/15	19:26
SITE4TS-XX	SI3862-7	U0655.D	06/11/15	19:54

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : UD391.D
Instrument ID : GCMS-U

SDG : SI3862
Date Analyzed : 22-JUN-15
Time Analyzed : 13:30

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	34.9		
68	Less than 2.0% of mass 69	0.2	0.71	1
69	Less than 100.0% of mass 198	25.9		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	44.0		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.3		
275	10.0 - 30.0% of mass 198	17.2		
365	1.0 - 100.0% of mass 198	1.6		
441	0.0 - 100.0% of mass 443	13.2	82.85	2
442	40.0 - 100.0% of mass 198	83.4		
443	17.0 - 23.0% of mass 442	15.9	19.06	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG165272-4	U0757.D	06/22/15	13:48
Initial Calibration	WG165272-2	U0758.D	06/22/15	14:16
Initial Calibration	WG165272-3	U0759.D	06/22/15	14:44
Initial Calibration	WG165272-5	U0760.D	06/22/15	15:12
Initial Calibration	WG165272-6	U0761.D	06/22/15	15:40
Initial Calibration	WG165272-7	U0762.D	06/22/15	16:08
Independent Source	WG165272-8	U0763.D	06/22/15	16:36

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
Lab File ID : UD392.D
Instrument ID : GCMS-U

SDG : SI3862
Date Analyzed : 23-JUN-15
Time Analyzed : 10:54

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	33.1		
68	Less than 2.0% of mass 69	0.1	0.57	1
69	Less than 100.0% of mass 198	26.3		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	44.4		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.7		
275	10.0 - 30.0% of mass 198	17.1		
365	1.0 - 100.0% of mass 198	1.7		
441	0.0 - 100.0% of mass 443	12.6	82.55	2
442	40.0 - 100.0% of mass 198	79.9		
443	17.0 - 23.0% of mass 442	15.2	19.05	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG165301-2	U0788.D	06/23/15	11:12
Method Blank Sample	WG165248-1	U0790.D	06/23/15	12:08
Laboratory Control S	WG165248-2	U0793.D	06/23/15	13:31
Laboratory Control S	WG165248-3	U0794.D	06/23/15	13:59
Matrix Spike	WG165248-6	U0802.D	06/23/15	17:44
Matrix Spike Duplica	WG165248-7	U0803.D	06/23/15	18:13

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ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164192-4
Lab File ID : U0591.D

SDG: SI3862
Analytical Date: 06/05/15 14:27
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4				NAPHTHALENE-D8				ACENAPHTHENE-D10			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	298088		4.55		1167270		5.95		585203		8.03	
	Upper Limit	596176		5.05		2334540		6.45		1170406		8.53	
	Lower Limit	149044		4.05		583635		5.45		292601.5		7.53	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG164504-2	331666		4.55		1297827		5.94		668836		8.04	
Method Blank Sample	WG164594-1	384174		4.55		1605378		5.95		804711		8.04	
SPLP Blank	WG164594-3	379087		4.55		1546276		5.95		739908		8.03	
Laboratory Control S	WG164594-2	359152		4.55		1367115		5.94		678338		8.03	
SITE4TS-FB	SI3862-6	374269		4.55		1480627		5.95		735356		8.03	
SITE4TS-XX	SI3862-7	357608		4.55		1364513		5.95		668146		8.03	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG164192-4
Lab File ID : U0591.D

SDG: SI3862
Analytical Date: 06/05/15 14:27
Instrument ID: GCMS-U

		PHENANTHRENE-D10			CHRYSENE-D12			PERYLENE-D12		
		Area	#	RT	Area	#	RT	Area	#	RT
	Std .	909618		9.84	432679		13.40	280169		16.37
	Upper Limit	1819236		10.34	865358		13.90	560338		16.87
	Lower Limit	454809		9.34	216339.5		12.90	140084.5		15.87
Client Sample ID	Lab Sample ID									
Continuing Calibrati	WG164504-2	1089022		9.85	632948		13.42	379199		16.39
Method Blank Sample	WG164594-1	1277562		9.84	659070		13.41	338605		16.39
SPLP Blank	WG164594-3	1117627		9.84	675413		13.41	286810		16.38
Laboratory Control S	WG164594-2	1064632		9.84	741557		13.41	376484		16.38
SITE4TS-FB	SI3862-6	1086286		9.84	639862		13.41	308523		16.38
SITE4TS-XX	SI3862-7	996238		9.84	676538		13.41	368792		16.38

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

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* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG165272-4
Lab File ID : U0757.D

SDG: SI3862
Analytical Date: 06/22/15 13:48
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4				NAPHTHALENE-D8				ACENAPHTHENE-D10			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	319771		4.53		1162914		5.92		598316		8.01	
	Upper Limit	639542		5.03		2325828		6.42		1196632		8.51	
	Lower Limit	159885.5		4.03		581457		5.42		299158		7.51	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG165301-2	253482		4.52		1009168		5.92		510564		8.01	
Method Blank Sample	WG165248-1	358845		4.52		1367124		5.91		661718		8.01	
Laboratory Control S	WG165248-2	341080		4.52		1256846		5.91		614389		8.00	
Laboratory Control S	WG165248-3	341276		4.52		1282735		5.91		511500		8.00	
Matrix Spike	WG165248-6	374125		4.53		1340473		5.91		692202		8.00	
Matrix Spike Duplica	WG165248-7	371701		4.52		1310674		5.91		682198		8.00	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Beth
Lab ID : WG165272-4
Lab File ID : U0757.D

SDG: SI3862
Analytical Date: 06/22/15 13:48
Instrument ID: GCMS-U

		PHENANTHRENE-D10				CHRYSENE-D12				PERYLENE-D12			
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	926799		9.82		468408		13.38		194522		16.34	
	Upper Limit	1853598		10.32		936816		13.88		389044		16.84	
	Lower Limit	463399.5		9.32		234204		12.88		97261		15.84	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG165301-2	581733		9.81		316215		13.37		165443		16.33	
Method Blank Sample	WG165248-1	660146		9.81		410775		13.36		230772		16.33	
Laboratory Control S	WG165248-2	968176		9.81		547047		13.36		260405		16.33	
Laboratory Control S	WG165248-3	799924		9.81		460939		13.36		217287		16.33	
Matrix Spike	WG165248-6	1017548		9.81		431057		13.35		213768		16.32	
Matrix Spike Duplica	WG165248-7	945689		9.81		440224		13.35		194419		16.32	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Sample Data Section

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 Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes 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.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native 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, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-6
Client ID: SITE4TS-FB
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0654.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164594

Analysis Date: 11-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzaldehyde	ULMM	7.1	ug/L	1	10	9.5	0.95	7.1
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
Caprolactam	U	7.1	ug/L	1	10	9.5	0.38	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
3-Nitroaniline	U	18	ug/L	1	25	24.	1.4	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Diethylphthalate	J	2.6	ug/L	1	10	9.5	1.9	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol		40.6	%					
Phenol-d6		27.2	%					
Nitrobenzene-d5		82.4	%					
2-Fluorobiphenyl		76.6.	%					
2,4,6-Tribromophenol		83.9	%					
Terphenyl-d14		88.4	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI3862-7
Client ID: SITE4TS-XX
Project: Navy Clean WE08 NWIRP Bethpage, N
SDG: SI3862
Lab File ID: U0655.D

Sample Date: 04-JUN-15
Received Date: 05-JUN-15
Extract Date: 11-JUN-15
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG164594

Analysis Date: 11-JUN-15
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Benzaldehyde	UL	9.0	ug/L	1	10	12.	1.2	9.0
Phenol	U	9.0	ug/L	1	10	12.	2.2	9.0
2-Methylphenol	U	9.0	ug/L	1	10	12.	4.6	9.0
Acetophenone	U	9.0	ug/L	1	10	12.	4.7	9.0
Isophorone	U	9.0	ug/L	1	10	12.	2.0	9.0
2,4-Dimethylphenol	U	9.0	ug/L	1	10	12.	5.3	9.0
Caprolactam	U	9.0	ug/L	1	10	12.	0.48	9.0
4-Chloro-3-Methylphenol	U	9.0	ug/L	1	10	12.	4.3	9.0
2-Chloronaphthalene	U	9.0	ug/L	1	10	12.	3.4	9.0
Dimethyl Phthalate	U	9.0	ug/L	1	10	12.	2.4	9.0
Acenaphthylene	U	9.0	ug/L	1	10	12.	1.8	9.0
3-Nitroaniline	U	23	ug/L	1	25	30.	1.8	23.
Acenaphthene	U	9.0	ug/L	1	10	12.	1.8	9.0
Diethylphthalate	U	9.0	ug/L	1	10	12.	2.4	9.0
Fluorene	U	9.0	ug/L	1	10	12.	2.5	9.0
4-Bromophenyl-Phenylether	U	9.0	ug/L	1	10	12.	2.3	9.0
Carbazole	U	9.0	ug/L	1	10	12.	2.5	9.0
2-Fluorophenol		34.7	%					
Phenol-d6		26.8	%					
Nitrobenzene-d5		80.8	%					
2-Fluorobiphenyl		79.7	%					
2,4,6-Tribromophenol		64.1	%					
Terphenyl-d14		73.7	%					

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Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-U
Lab File IDs : U0592.D U0593.D U0591.D U0594.D U0595.D U0596.D **Column ID:**
Calibration Date(s): 05-JUN-15 14:27 05-JUN-15 17:12

	Level 1 10.0000	Level 2 25.0000	Level 3 50.0000	Level 4 75.0000	Level 5 100.0000	Level 6 125.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
Benzaldehyde	12395	26260	41544	62418	75819	99553	QUA	-0.08208	9.42226	3.13857	0.99219	0.99000	O
Phenol	1.65880	1.60566	1.64459	1.63752	1.56109	1.53520	AVG		1.60714		3.08520	30.00000	O
2-Methylphenol	1.16610	1.09909	1.13965	1.17786	1.15182	1.17088	AVG		1.15090		2.50872	15.00000	O
Acetophenone	0.42413	0.41774	0.39698	0.39132	0.38853	0.37305	AVG		0.39862		4.79619	15.00000	O
Isophorone	0.64897	0.64810	0.61577	0.58729	0.59348	0.56147	AVG		0.60918		5.75418	15.00000	O
2,4-Dimethylphenol	0.32705	0.32577	0.32275	0.29187	0.26713	0.26973	AVG		0.30072		9.37336	15.00000	O
Caprolactam	0.09146	0.09185	0.09171	0.09233	0.09133	0.09081	AVG		0.09158		0.56154	15.00000	O
4-Chloro-3-Methylphenol	0.27479	0.27785	0.26197	0.24059	0.23213	0.21759	AVG		0.25082		9.74592	30.00000	O
2-Chloronaphthalene	1.17158	1.29051	1.00580	1.08457	0.92364	1.13248	AVG		1.10143		11.6747(	15.00000	O
Dimethyl Phthalate	1.26942	1.21900	1.23541	1.17894	1.15053	1.09520	AVG		1.19142		5.29072	15.00000	O
Acenaphthylene	1.79561	1.76591	1.72673	1.51827	1.47830	1.34898	AVG		1.60563		11.3536-	15.00000	O
3-Nitroaniline	0.27550	0.30303	0.29954	0.28214	0.27820	0.28144	AVG		0.28664		4.06242	15.00000	O
Acenaphthene	1.09159	1.07831	0.99508	0.91733	0.90474	0.87114	AVG		0.97636		9.57610	30.00000	O
Diethylphthalate	1.33761	1.29246	1.22954	1.13597	1.07578	0.96640	AVG		1.17296		11.9397:	15.00000	O
Fluorene	183212	406976	730428	1063953	1226870	1462882	QUA	0.02366	0.58177	0.35525	0.99891	0.99000	O
4-Bromophenyl-phenylether	0.20930	0.20257	0.20609	0.18534	0.18294	0.17522	AVG		0.19358		7.31512	15.00000	O
Carbazole	0.79221	0.77417	0.73931	0.66321	0.67474	0.64695	AVG		0.71510		8.61746	15.00000	O
2-Fluorophenol	1.17562	1.20290	1.18445	1.20074	1.22588	1.17173	AVG		1.19355		1.70259	15.00000	
Phenol-D6	1.44572	1.46478	1.44018	1.40919	1.34474	1.32454	AVG		1.40486		4.10048	15.00000	
Nitrobenzene-D5	0.33550	0.33905	0.32730	0.31663	0.30283	0.30003	AVG		0.32022		5.15240	15.00000	
2-Fluorobiphenyl	1.20810	1.15199	1.16435	0.96842	1.00091	0.94320	AVG		1.07283		10.69457	15.00000	
2,4,6-Tribromophenol	0.16926	0.16936	0.17446	0.15930	0.15587	0.15011	AVG		0.16306		5.76270	15.00000	
Terphenyl-D14	1.03876	1.04627	0.97491	0.85512	0.83198	0.80479	AVG		0.92531		11.6522-	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-u.i\U060515.b\U0597.D
Report Date: 17-Jun-2015 13:15

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Client SDG: 021497
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: WG164192-8
Level: LOW
Operator: JCG
Data Type: MS DATA
SampleType: INDCHECK
SpikeList File: INDcheck8270.spk
Quant Type: ISTD
Sublist File: all_DOD.sub
Method File: \\target_server\gg\chem\gcms-u.i\U060515.b\U8270C77.m
Misc Info: WG164192,WG164192,WG164192-4,SI3942-1

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
1 1,4-Dioxane	50.0	50.6	101.31	80-120
3 Pyridine	50.0	58.4	116.79	80-120
2 N-Nitrosodimethyla	50.0	45.7	91.43	80-120
5 2-Picoline	50.0	61.5	123.09*	80-120
6 N-Nitrosomethyleth	50.0	55.0	109.96	80-120
7 Methyl Methanesulf	50.0	47.1	94.24	80-120
9 N-Nitrosodiethylam	50.0	54.5	108.99	80-120
10 Ethyl Methanesulfo	50.0	54.7	109.33	80-120
11 Benzaldehyde	50.0	21.9	43.73*	80-120
14 Aniline	50.0	55.5	111.10	80-120
13 Phenol	50.0	51.7	103.39	80-120
16 Bis(2-Chloroethyl)	50.0	59.8	119.64	80-120
17 2-Chlorophenol	50.0	54.6	109.27	80-120
18 1,3-Dichlorobenzen	50.0	54.5	109.03	80-120
20 1,4-Dichlorobenzen	50.0	55.5	111.09	80-120
22 Benzyl alcohol	50.0	51.5	103.09	80-120
21 1,2-Dichlorobenzen	50.0	55.4	110.73	80-120
25 2,2'-Oxybis(1-chlo	50.0	50.0	100.01	80-120
23 2-Methylphenol	50.0	56.6	113.21	80-120
26 Acetophenone	100	99.7	99.69	80-120
27 N-Nitrosopyrrolidi	50.0	54.9	109.79	80-120
30 N-Nitrosomorpholin	50.0	56.3	112.62	80-120
28 N-Nitroso-di-n-pro	50.0	50.2	100.50	80-120
29 3&4-Methylphenol	50.0	55.7	111.33	80-120
32 Hexachloroethane	50.0	53.9	107.88	80-120
31 o-Toluidine	50.0	54.4	108.86	80-120
34 Nitrobenzene	50.0	56.6	113.20	80-120
35 N-Nitrosopiperidin	50.0	54.0	108.01	80-120
36 Isophorone	50.0	53.1	106.20	80-120
37 2-Nitrophenol	50.0	53.4	106.77	80-120
38 2,4-Dimethylphenol	50.0	54.8	109.65	80-120
40 Bis(2-Chloroethoxy	50.0	49.8	99.62	80-120
39 O,O,O-Triethylphos	50.0	50.3	100.70	80-120
50 A,A-Dimethylphene	50.0	0.000	*	80-120
41 Benzoic acid	50.0	89.6	179.18*	80-120
42 2,4-Dichlorophenol	50.0	52.8	105.69	80-120
44 1,2,4-Trichloroben	50.0	53.0	106.05	80-120
46 Naphthalene	50.0	53.6	107.29	80-120
43 2,6-Dichlorophenol	50.0	54.2	108.44	80-120
47 4-Chloroaniline	50.0	51.6	103.17	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U060515.b\U0597.D
Report Date: 17-Jun-2015 13:15

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
48 Hexachloropropene	50.0	53.4	106.87	80-120
49 Hexachlorobutadien	50.0	54.9	109.82	80-120
51 N-Nitroso-Di-N-But	50.0	51.5	102.97	80-120
53 Caprolactam	50.0	56.4	112.75	80-120
52 p-Phenylenediamine	50.0	0.000	*	80-120
56 Isosafrole	50.0	50.8	101.71	80-120
55 4-Chloro-3-Methylp	50.0	56.7	113.45	80-120
57 2-Methylnaphthalen	50.0	54.7	109.46	80-120
58 1-Methylnaphthalen	50.0	54.2	108.43	80-120
60 1,2,4,5-Tetrachlor	100	91.9	91.94	80-120
59 Hexachlorocyclopen	50.0	41.5	83.03	80-120
61 2,4,6-Trichlorophe	50.0	55.7	111.39	80-120
62 2,4,5-Trichlorophe	50.0	56.4	112.76	80-120
54 Diethyl Adipate	50.0	0.000	*	80-120
64 Safrole	50.0	54.1	108.12	80-120
65 1,1'-Biphenyl	50.0	58.3	116.62	80-120
66 2-Chloronaphthalen	50.0	52.6	105.23	80-120
67 1-Chloronaphthalen	50.0	62.3	124.58*	80-120
69 2-Nitroaniline	50.0	56.6	113.24	80-120
70 1,4-Naphthoquinone	50.0	95.4	190.87*	80-120
72 Dimethyl Phthalate	50.0	54.7	109.48	80-120
73 1,3-Dinitrobenzene	50.0	53.6	107.18	80-120
75 Acenaphthylene	50.0	50.4	100.89	80-120
74 2,6-Dinitrotoluene	50.0	57.8	115.57	80-120
77 3-Nitroaniline	50.0	54.4	108.85	80-120
79 Acenaphthene	50.0	53.9	107.83	80-120
80 2,4-Dinitrophenol	50.0	54.9	109.81	80-120
83 Dibenzofuran	50.0	56.9	113.77	80-120
81 Pentachlorobenzene	50.0	55.0	109.93	80-120
82 4-Nitrophenol	50.0	55.7	111.46	80-120
84 2,4-Dinitrotoluene	50.0	53.3	106.63	80-120
85 1-Naphthylamine	50.0	48.9	97.87	80-120
88 2-Naphthylamine	50.0	55.4	110.80	80-120
87 2,3,4,6-Tetrachlor	50.0	53.6	107.13	80-120
89 Diethylphthalate	50.0	53.6	107.28	80-120
91 Fluorene	50.0	54.6	109.12	80-120
92 4-Chlorophenyl-phe	50.0	57.2	114.50	80-120
90 O,O-diethyl-o-2-py	50.0	56.2	112.50	80-120
93 5-Nitro-O-Toluidin	50.0	54.2	108.40	80-120
94 4-Nitroaniline	50.0	53.5	107.10	80-120
96 N-Nitrosodiphenyla	100	83.6	83.57	80-120
95 4,6-Dinitro-2-Meth	50.0	56.7	113.40	80-120
98 1,2-Diphenylhydraz	50.0	56.2	112.45	80-120
101 Sulfotepp	50.0	49.1	98.12	80-120
102 Diallate	50.0	56.1	112.17	80-120
103 Phorate	50.0	22.5	44.95*	80-120
105 4-Bromophenyl-phen	50.0	54.7	109.44	80-120
106 Phenacetin	50.0	47.4	94.73	80-120
104 1,3,5-Trinitrobenz	50.0	55.0	109.99	80-120
107 Hexachlorobenzene	50.0	55.1	110.21	80-120
108 Dimethoate	50.0	53.2	106.50	80-120
109 Atrazine	50.0	29.0	57.91*	80-120
110 4-Aminobiphenyl	50.0	45.1	90.13	80-120
111 Pentachlorophenol	50.0	54.4	108.86	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U060515.b\U0597.D
Report Date: 17-Jun-2015 13:15

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
113 Pronamide	50.0	54.3	108.55	80-120
112 Pentachloronitrobe	50.0	54.0	107.95	80-120
116 Phenanthrene	50.0	50.0	99.99	80-120
115 Disulfoton	50.0	47.8	95.50	80-120
118 Anthracene	50.0	52.2	104.39	80-120
117 Dinoseb	50.0	0.000	*	80-120
119 Carbazole	50.0	52.5	104.95	80-120
120 Methyl Parathion	50.0	51.0	101.98	80-120
121 Di-n-butylphthalat	50.0	54.8	109.70	80-120
122 Ethyl Parathion	50.0	45.8	91.70	80-120
123 4-Nitroquinoline-1	50.0	52.9	105.77	80-120
124 Methapyrilene	50.0	40.9	81.77	80-120
125 Isodrin	50.0	54.0	107.93	80-120
126 Fluoranthene	50.0	49.8	99.67	80-120
127 Benzidine	50.0	46.8	93.66	80-120
128 Pyrene	50.0	54.4	108.80	80-120
130 Aramite	50.0	0.000	*	80-120
131 p-Dimethylaminoazo	50.0	57.4	114.87	80-120
133 Chlorobenzilate	50.0	54.4	108.91	80-120
134 Famphur	50.0	30.8	61.54*	80-120
135 3,3'-Dimethylbenzi	50.0	97.0	194.05*	80-120
136 Butylbenzylphthala	50.0	53.5	107.09	80-120
137 Bis(2-ethylhexyl)a	50.0	51.9	103.89	80-120
138 2-Acetylaminofluor	50.0	57.1	114.25	80-120
140 Benzo(a)anthracene	50.0	51.9	103.74	80-120
139 3,3'-Dichlorobenzi	50.0	53.4	106.76	80-120
141 Chrysene	50.0	55.2	110.33	80-120
143 bis(2-Ethylhexyl)p	50.0	53.8	107.66	80-120
132 Kepone	50.0	0.000	*	80-120
144 Di-n-octylphthalat	50.0	50.8	101.55	80-120
147 Benzo(b)fluoranthe	50.0	49.8	99.60	80-120
146 7,12-Dimethylbenz(	50.0	49.9	99.81	80-120
148 Benzo(k)fluoranthe	50.0	52.4	104.87	80-120
145 Hexachlorophene	50.0	0.000	*	80-120
149 Benzo(a)pyrene	50.0	49.3	98.64	80-120
151 3-Methylcholanthre	50.0	53.3	106.54	80-120
152 Dibenz(a,j)acridin	50.0	51.0	101.98	80-120
153 Indeno(1,2,3-cd)py	50.0	53.8	107.55	80-120
155 Dibenzo(a,h)anthra	50.0	52.5	105.06	80-120
156 Benzo(g,h,i)peryle	50.0	52.5	104.96	80-120

SURROGATE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	35-105
$ 12 Phenol-D6	100	0.000	*	40-100
$ 33 Nitrobenzene-D5	50.0	0.000	*	35-100
$ 63 2-Fluorobiphenyl	50.0	0.000	*	45-105
$ 100 2,4,6-Tribromophe	100	0.000	*	35-125
$ 129 Terphenyl-D14	50.0	0.000	*	30-125

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI3862
Project : Navy Clean WE08 NWIRP Bethpage, NY **Instrument ID:** GCMS-U
Lab File IDs : U0758.D U0759.D U0757.D U0760.D U0761.D U0762.D **Column ID:**
Calibration Date(s): 22-JUN-15 13:48
22-JUN-15 16:08

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	10.0000	25.0000	50.0000	75.0000	100.0000	125.0000	New	b	m1	m2	%RSD	%RSD	
Benzaldehyde	0.13557	0.12330	0.11466	0.10355	0.09317	0.09947	AVG		0.11162		14.29268	15.00000	O
Phenol	1.55176	1.49106	1.54595	1.45120	1.36000	1.29535	AVG		1.44922		7.12175	30.00000	O
2-Methylphenol	1.23970	1.16464	1.22111	1.23711	1.23117	1.21538	AVG		1.21819		2.28474	15.00000	O
Acetophenone	0.43458	0.42534	0.41830	0.39794	0.37503	0.36724	AVG		0.40307		6.85507	15.00000	O
Isophorone	0.56285	0.54220	0.54812	0.52863	0.49633	0.46796	AVG		0.52435		6.79615	15.00000	O
2,4-Dimethylphenol	0.27722	0.28385	0.28869	0.27891	0.25667	0.22409	AVG		0.26824		9.03971	15.00000	O
Caprolactam	0.10576	0.10957	0.11382	0.11591	0.11315	0.10940	AVG		0.11127		3.32112	15.00000	O
4-Chloro-3-Methylphenol	0.22570	0.22899	0.24689	0.24024	0.23409	0.22204	AVG		0.23299		4.00869	30.00000	O
2-Chloronaphthalene	1.22423	1.21542	1.09093	1.04117	0.96641	1.13060	AVG		1.11146		9.02343	15.00000	O
Dimethyl Phthalate	1.19539	1.16366	1.19378	1.25572	1.08266	1.06409	AVG		1.15922		6.30927	15.00000	O
Acenaphthylene	1.80551	1.77679	1.84139	1.73275	1.45473	1.25319	AVG		1.64406		14.37095	15.00000	O
3-Nitroaniline	0.33271	0.32248	0.31877	0.33674	0.30862	0.30541	AVG		0.32079		3.91393	15.00000	O
Acenaphthene	1.05737	1.05564	1.00224	0.97808	0.75203	0.78740	AVG		0.93879		14.37685	30.00000	O
Diethylphthalate	1.20247	1.17334	1.14190	1.10982	0.96163	0.82800	AVG		1.06953		13.56814	15.00000	O
Fluorene	1.25253	1.20727	1.00409	0.82078	0.61377	0.59793	AVG		0.91606		31.16156	15.00000	W(
4-Bromophenyl-phenylether	0.18069	0.18132	0.19695	0.19113	0.18682	0.17117	AVG		0.18468		4.88257	15.00000	O
Carbazole	0.94970	0.94227	0.89938	0.79383	0.73662	0.79704	AVG		0.85314		10.43762	15.00000	O
2-Fluorophenol	1.23079	1.18588	1.30868	1.24658	1.30576	1.24411	AVG		1.25363		3.74148	15.00000	
Phenol-D6	1.49098	1.41535	1.41242	1.30591	1.19054	1.16838	AVG		1.33060		9.86440	15.00000	
Nitrobenzene-D5	0.25354	0.25124	0.25857	0.25791	0.23837	0.22803	AVG		0.24794		4.91553	15.00000	
2-Fluorobiphenyl	1.18754	1.13682	1.20507	1.13801	0.86528	0.87967	AVG		1.06873		14.45195	15.00000	
2,4,6-Tribromophenol	0.15766	0.16284	0.18248	0.18292	0.16880	0.14577	AVG		0.16674		8.69547	15.00000	
Terphenyl-D14	0.82974	0.93391	1.03382	0.97858	1.00736	0.94814	AVG		0.95526		7.50400	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-u.i\U062215B.b\U0763.D
Report Date: 24-Jun-2015 15:15

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: WG165272-8
Level: LOW
Data Type: MS DATA
SpikeList File: INDcheck8270.spk
Sublist File: all_DOD.sub
Method File: \\target_server\gg\chem\gcms-u.i\U062215B.b\U8270C79.m
Misc Info: WG165272,WG165272,WG165272-4,SI4291-1

Client SDG: 021497
Fraction: SV

Operator: JCG
SampleType: INDCHECK
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
1 1,4-Dioxane	50.0	49.4	98.87	80-120
3 Pyridine	50.0	55.4	110.88	80-120
2 N-Nitrosodimethyla	50.0	44.2	88.49	80-120
5 2-Picoline	50.0	61.7	123.45*	80-120
6 N-Nitrosomethyleth	50.0	54.1	108.19	80-120
7 Methyl Methanesulf	50.0	43.3	86.57	80-120
9 N-Nitrosodiethylam	50.0	57.2	114.43	80-120
10 Ethyl Methanesulfo	50.0	49.9	99.80	80-120
11 Benzaldehyde	50.0	18.8	37.57*	80-120
14 Aniline	50.0	51.9	103.72	80-120
13 Phenol	50.0	54.9	109.87	80-120
16 Bis(2-Chloroethyl)	50.0	65.8	131.52*	80-120
17 2-Chlorophenol	50.0	53.8	107.56	80-120
18 1,3-Dichlorobenzen	50.0	54.7	109.33	80-120
20 1,4-Dichlorobenzen	50.0	53.9	107.77	80-120
22 Benzyl alcohol	50.0	48.8	97.50	80-120
21 1,2-Dichlorobenzen	50.0	54.5	109.01	80-120
25 2,2'-Oxybis(1-chlo	50.0	48.2	96.46	80-120
23 2-Methylphenol	50.0	52.1	104.24	80-120
26 Acetophenone	100	93.3	93.27	80-120
27 N-Nitrosopyrrolidi	50.0	54.8	109.62	80-120
30 N-Nitrosomorpholin	50.0	52.1	104.20	80-120
28 N-Nitroso-di-n-pro	50.0	45.8	91.72	80-120
29 3&4-Methylphenol	50.0	53.8	107.62	80-120
32 Hexachloroethane	50.0	53.6	107.25	80-120
31 o-Toluidine	50.0	56.6	113.20	80-120
34 Nitrobenzene	50.0	55.8	111.62	80-120
35 N-Nitrosopiperidin	50.0	57.0	114.09	80-120
36 Isophorone	50.0	54.4	108.86	80-120
37 2-Nitrophenol	50.0	51.8	103.50	80-120
38 2,4-Dimethylphenol	50.0	54.3	108.61	80-120
40 Bis(2-Chloroethoxy	50.0	52.3	104.56	80-120
39 O,O,O-Triethylphos	50.0	53.0	106.04	80-120
50 A,A-Dimethylphene	50.0	0.000	*	80-120
41 Benzoic acid	50.0	145	289.32*	80-120
42 2,4-Dichlorophenol	50.0	53.3	106.57	80-120
44 1,2,4-Trichloroben	50.0	55.2	110.37	80-120
46 Naphthalene	50.0	58.0	116.07	80-120
43 2,6-Dichlorophenol	50.0	57.2	114.39	80-120
47 4-Chloroaniline	50.0	49.6	99.17	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U062215B.b\U0763.D
Report Date: 24-Jun-2015 15:15

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
48 Hexachloropropene	50.0	57.3	114.61	80-120
49 Hexachlorobutadien	50.0	58.5	116.95	80-120
51 N-Nitroso-Di-N-But	50.0	59.6	119.21	80-120
53 Caprolactam	50.0	50.7	101.40	80-120
52 p-Phenylenediamine	50.0	0.000	*	80-120
56 Isosafrole	50.0	48.1	96.30	80-120
55 4-Chloro-3-Methylp	50.0	55.1	110.14	80-120
57 2-Methylnaphthalen	50.0	55.9	111.82	80-120
58 1-Methylnaphthalen	50.0	56.5	112.97	80-120
60 1,2,4,5-Tetrachlor	100	95.4	95.42	80-120
59 Hexachlorocyclopen	50.0	47.4	94.80	80-120
61 2,4,6-Trichlorophe	50.0	57.0	114.09	80-120
62 2,4,5-Trichlorophe	50.0	60.7	121.38*	80-120
54 Diethyl Adipate	50.0	0.000	*	80-120
64 Safrole	50.0	56.9	113.82	80-120
65 1,1'-Biphenyl	50.0	54.9	109.83	80-120
66 2-Chloronaphthalen	50.0	57.4	114.73	80-120
67 1-Chloronaphthalen	50.0	49.4	98.90	80-120
69 2-Nitroaniline	50.0	57.1	114.21	80-120
70 1,4-Naphthoquinone	50.0	69.8	139.69*	80-120
72 Dimethyl Phthalate	50.0	56.4	112.79	80-120
73 1,3-Dinitrobenzene	50.0	53.7	107.44	80-120
75 Acenaphthylene	50.0	52.8	105.59	80-120
74 2,6-Dinitrotoluene	50.0	59.9	119.77	80-120
77 3-Nitroaniline	50.0	51.7	103.33	80-120
79 Acenaphthene	50.0	55.6	111.17	80-120
80 2,4-Dinitrophenol	50.0	56.0	111.95	80-120
83 Dibenzofuran	50.0	61.0	122.10*	80-120
81 Pentachlorobenzene	50.0	55.4	110.92	80-120
82 4-Nitrophenol	50.0	55.7	111.35	80-120
84 2,4-Dinitrotoluene	50.0	55.3	110.56	80-120
85 1-Naphthylamine	50.0	53.0	106.00	80-120
88 2-Naphthylamine	50.0	56.6	113.29	80-120
87 2,3,4,6-Tetrachlor	50.0	55.6	111.28	80-120
89 Diethylphthalate	50.0	55.5	111.04	80-120
91 Fluorene	50.0	55.3	110.65	80-120
92 4-Chlorophenyl-phe	50.0	54.2	108.36	80-120
90 O,O-diethyl-o-2-py	50.0	57.8	115.55	80-120
93 5-Nitro-O-Toluidin	50.0	56.0	112.05	80-120
94 4-Nitroaniline	50.0	53.4	106.78	80-120
96 N-Nitrosodiphenyla	100	82.8	82.81	80-120
95 4,6-Dinitro-2-Meth	50.0	54.3	108.58	80-120
98 1,2-Diphenylhydraz	50.0	54.4	108.86	80-120
101 Sulfotepp	50.0	52.5	104.95	80-120
102 Diallate	50.0	55.8	111.52	80-120
103 Phorate	50.0	24.4	48.82*	80-120
105 4-Bromophenyl-phen	50.0	56.2	112.35	80-120
106 Phenacetin	50.0	53.1	106.25	80-120
104 1,3,5-Trinitrobenz	50.0	49.1	98.14	80-120
107 Hexachlorobenzene	50.0	56.8	113.65	80-120
108 Dimethoate	50.0	45.9	91.90	80-120
109 Atrazine	50.0	20.8	41.59*	80-120
110 4-Aminobiphenyl	50.0	45.9	91.86	80-120
111 Pentachlorophenol	50.0	66.6	133.25*	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U062215B.b\U0763.D
Report Date: 24-Jun-2015 15:15

SPIKE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
113 Pronamide	50.0	50.5	101.09	80-120
112 Pentachloronitrobe	50.0	52.7	105.33	80-120
116 Phenanthrene	50.0	52.0	103.96	80-120
115 Disulfoton	50.0	47.1	94.22	80-120
118 Anthracene	50.0	52.9	105.87	80-120
117 Dinoseb	50.0	51.4	102.75	80-120
119 Carbazole	50.0	52.0	104.03	80-120
120 Methyl Parathion	50.0	55.0	110.01	80-120
121 Di-n-butylphthalat	50.0	54.9	109.82	80-120
122 Ethyl Parathion	50.0	48.2	96.38	80-120
123 4-Nitroquinoline-1	50.0	49.4	98.71	80-120
124 Methapyrilene	50.0	42.3	84.66	80-120
125 Isodrin	50.0	51.8	103.63	80-120
126 Fluoranthene	50.0	50.5	101.01	80-120
127 Benzidine	50.0	51.0	101.96	80-120
128 Pyrene	50.0	48.6	97.30	80-120
130 Aramite	50.0	0.000	*	80-120
131 p-Dimethylaminoazo	50.0	55.1	110.15	80-120
133 Chlorobenzilate	50.0	47.7	95.38	80-120
134 Famphur	50.0	28.1	56.27*	80-120
135 3,3'-Dimethylbenzi	50.0	97.2	194.51*	80-120
136 Butylbenzylphthala	50.0	52.5	105.00	80-120
137 Bis(2-ethylhexyl)a	50.0	47.4	94.85	80-120
138 2-Acetylaminofluor	50.0	55.0	110.10	80-120
140 Benzo(a)anthracene	50.0	52.1	104.28	80-120
139 3,3'-Dichlorobenzi	50.0	54.6	109.15	80-120
141 Chrysene	50.0	53.0	106.00	80-120
143 bis(2-Ethylhexyl)p	50.0	51.2	102.47	80-120
132 Kepone	50.0	0.000	*	80-120
144 Di-n-octylphthalat	50.0	55.8	111.65	80-120
147 Benzo(b)fluoranthe	50.0	52.8	105.59	80-120
146 7,12-Dimethylbenz(	50.0	50.2	100.50	80-120
148 Benzo(k)fluoranthe	50.0	52.8	105.52	80-120
145 Hexachlorophene	50.0	0.000	*	80-120
149 Benzo(a)pyrene	50.0	48.0	96.05	80-120
151 3-Methylcholanthre	50.0	56.7	113.32	80-120
152 Dibenz(a,j)acridin	50.0	50.0	99.93	80-120
153 Indeno(1,2,3-cd)py	50.0	55.1	110.17	80-120
155 Dibenzo(a,h)anthra	50.0	54.2	108.36	80-120
156 Benzo(g,h,i)peryle	50.0	51.9	103.76	80-120

SURROGATE COMPOUND	CONC ADDED ug/Kgdrywt	CONC RECOVERED ug/Kgdrywt	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	35-105
$ 12 Phenol-D6	100	0.000	*	40-100
$ 33 Nitrobenzene-D5	50.0	0.000	*	35-100
$ 63 2-Fluorobiphenyl	50.0	0.000	*	45-105
$ 100 2,4,6-Tribromophe	100	0.000	*	35-125
$ 129 Terphenyl-D14	50.0	0.000	*	30-125

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG164504-2
Analytical Date: 06/11/15 09:09
Lab File ID : U0632.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 06/05/15 14:27 06/05/15 17:12
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
11 Benzaldehyde	50.00000	45.43640	0.09931	0.010	-9.12719	20.00000	Quadratic
13 Phenol	1.60714	1.56311	1.56311	0.010	-2.73985	20.01000	Averaged
23 2-Methylphenol	1.15090	1.12409	1.12409	0.010	-2.32953	20.00000	Averaged
26 Acetophenone	0.39862	0.37555	0.37555	0.010	-5.78889	20.00000	Averaged
36 Isophorone	0.60918	0.56728	0.56728	0.010	-6.87872	20.00000	Averaged
38 2,4-Dimethylphenol	0.30072	0.30280	0.30280	0.010	0.69213	20.00000	Averaged
53 Caprolactam	0.09158	0.08633	0.08633	0.010	-5.73207	20.00000	Averaged
55 4-Chloro-3-Methylphenol	0.25082	0.24570	0.24570	0.010	-2.04155	20.01000	Averaged
66 2-Chloronaphthalene	1.10143	0.92191	0.92191	0.010	-16.29897	20.00000	Averaged
72 Dimethyl Phthalate	1.19142	1.13176	1.13176	0.010	-5.00745	20.00000	Averaged
75 Acenaphthylene	1.60563	1.51370	1.51370	0.010	-5.72586	20.00000	Averaged
77 3-Nitroaniline	0.28664	0.28209	0.28209	0.010	-1.58622	20.00000	Averaged
79 Acenaphthene	0.97636	0.94976	0.94976	0.010	-2.72502	20.01000	Averaged
89 Diethylphthalate	1.17296	1.16622	1.16622	0.010	-0.57451	20.00000	Averaged
91 Fluorene	50.00000	49.96848	0.96883	0.010	-0.06304	20.00000	Quadratic
105 4-Bromophenyl-phenylether	0.19358	0.19130	0.19130	0.010	-1.17389	20.00000	Averaged
119 Carbazole	0.71510	0.77437	0.77437	0.010	8.28851	20.00000	Averaged
8 2-Fluorophenol	1.19355	1.12806	1.12806	0.010	-5.48693	20.00000	Averaged
12 Phenol-D6	1.40486	1.32712	1.32712	0.010	-5.53365	20.00000	Averaged
33 Nitrobenzene-D5	0.32022	0.29736	0.29736	0.010	-7.13976	20.00000	Averaged
63 2-Fluorobiphenyl	1.07283	1.05753	1.05753	0.010	-1.42615	20.00000	Averaged
100 2,4,6-Tribromophenol	0.16306	0.17333	0.17333	0.010	6.29866	20.00000	Averaged
129 Terphenyl-D14	0.92531	0.90389	0.90389	0.010	-2.31418	20.00000	Averaged

*** = Compound out of QC criteria**

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE08 NWIRP Bethpage, NY
SDG: SI3862
Lab ID : WG165301-2
Analytical Date: 06/23/15 11:12
Lab File ID : U0788.D
Instrument ID: GCMS-U
Initial Calibration Date(s): 06/22/15 13:48 06/22/15 16:08
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
11 Benzaldehyde	0.11162	0.11962	0.11962	0.010	7.16912	20.00000	Averaged	
13 Phenol	1.44922	1.66004	1.66004	0.010	14.54696	20.01000	Averaged	
23 2-Methylphenol	1.21819	1.24381	1.24381	0.010	2.10339	20.00000	Averaged	
26 Acetophenone	0.40307	0.40845	0.40845	0.010	1.33436	20.00000	Averaged	
36 Isophorone	0.52435	0.53506	0.53506	0.010	2.04375	20.00000	Averaged	
38 2,4-Dimethylphenol	0.26824	0.27428	0.27428	0.010	2.25116	20.00000	Averaged	
53 Caprolactam	0.11127	0.10633	0.10633	0.010	-4.43436	20.00000	Averaged	
55 4-Chloro-3-Methylphenol	0.23299	0.22948	0.22948	0.010	-1.50794	20.01000	Averaged	
66 2-Chloronaphthalene	1.11146	0.96744	0.96744	0.010	-12.95731	20.00000	Averaged	
72 Dimethyl Phthalate	1.15922	1.00835	1.00835	0.010	-13.01427	20.00000	Averaged	
75 Acenaphthylene	1.64406	1.62848	1.62848	0.010	-0.94758	20.00000	Averaged	
77 3-Nitroaniline	0.32079	0.29557	0.29557	0.010	-7.86011	20.00000	Averaged	
79 Acenaphthene	0.93879	0.97184	0.97184	0.010	3.51983	20.01000	Averaged	
89 Diethylphthalate	1.06953	1.00832	1.00832	0.010	-5.72240	20.00000	Averaged	
91 Fluorene	0.91606	0.91720	0.91720	0.010	0.12453	20.00000	Averaged	
105 4-Bromophenyl-phenylether	0.18468	0.22527	0.22527	0.010	21.98053	20.00000	Averaged	*
119 Carbazole	0.85314	0.83980	0.83980	0.010	-1.56363	20.00000	Averaged	
8 2-Fluorophenol	1.25363	1.29736	1.29736	0.010	3.48801	20.00000	Averaged	
12 Phenol-D6	1.33060	1.53655	1.53655	0.010	15.47811	20.00000	Averaged	
33 Nitrobenzene-D5	0.24794	0.25788	0.25788	0.010	4.00914	20.00000	Averaged	
63 2-Fluorobiphenyl	1.06873	1.05646	1.05646	0.010	-1.14878	20.00000	Averaged	
100 2,4,6-Tribromophenol	0.16674	0.14064	0.14064	0.010	-15.65530	20.00000	Averaged	
129 Terphenyl-D14	0.95526	0.91006	0.91006	0.010	-4.73091	20.00000	Averaged	

*** = Compound out of QC criteria**

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Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 050515

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164192-1	50ng DFTPP	UD381	1	1	DFTPP 390	2.0	JCG	ok
-4	SSTD050 U0605	U0591		2	U8270C77	1.0		✓
-2	010	92		3				✓
-3	025	93		4				✓
-4	075	94		5				✓
-6	100	95		6				✓
-7	125	96		7				✓
-8	150	97		8				ok
3550	WG164216-1	98		9				ok
	WG164249-1	99		10				—
3550	WG164216-2	U0600		11				ok
	WG164249-2	01		12				— not needed
	SI3799-1	02		13				—
	-2	03		14				—
	-3	04		15				—
	-4	05		16				—
	SI3837-1	06		17				—
	SI3862-3	07		18				—
	WG164249-3	08		19				—
	-4	09		20				—
	SI3787-5	10		21				—
	-1DL	11	3	22				☆ not run; inst fault
	-1	12	1	23				
	SI3862-1DL	13	10	24				
	-2DL	14		25				
	WG164216-3DL	15		26				
	-4DL	16		27				
	meOH	17-21	1	28				

STANDARD	CODE
DFTPP	52611
CAL. STD.	52615 STK4917
IS MIX	STK4944

REVIEWED AND APPROVED BY: _____
DATE: _____

DATE OF DFTPP INJECTION: 061115

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164504-1	50 ng DFTPP	UD384	1	1	DFTPP 390	2.0	JM	OK
-2	SSTD050 UD611	UD632		2	U8270C77	1.0		OK
3510	SI3920-1	33		3				OK
	-2	34		4				OK
	-3	35		5				156↑
	-4	36		6				155↑
	-5	37		7				OK
	-6	38		8				OK
	-7	39		9				OK
	-8	40		10				OK
	WG164515-1	41		11				OK
	-3	42		12				OK PST1247A
	-2	43		13				OK
	SI3907-1	44		14				OK
	-4	45		15				OK
	-6	46		16				554.5↓
3510	SI3821-3DL	47	2	17				OK 100/200
	-6RA	48	1	18				1556↓ 552.4↑
3510	SI3950-1DL	49	10	19				OK 50/500
~	MeOH	50	1	20				—
3510	WG164594-1	51		21				OK
	-3	52		22				~~553-54~~ ↓ PST1225D
	-2	53		23				OK
	SI3862-6	54		24				OK
	-7	55		25				~~553-4~~ ↑ ↓
	SI3907-2	56		26				OK
	SI4024-1	57		27				— not needed

STANDARD	CODE
DFTPP	S2611
CAL. STD.	S2615 STK4917
IS MIX	STK4944

REVIEWED AND APPROVED BY: _____
DATE: _____

DATE OF DFTPP INJECTION: 062215

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG165272-1	50ng DFTPP	U0391	1	1	DFTPP 3560	2.0	JCG	OK
-4	SSTD050 U0622	U0757		2	U8270C79	1.0		✓
-2	010	58		3				✓
-3	025	59		4				✓
-5	075	60		5				✓
-6	100	61		6				✓
-7	125	62		7				✓
-8	1MD	63		8				OK
3550	WG164995-1	64		9				1564
	-2	65		10				OK
	-3	66		11				OK
	SI4190-1	67		12				OK
	SI4270-1R1	68		13				OK
	SI4226-8	69		14				OK
	-1	70		15				1556↓
	-2	71		16				1556↓
	-9	72		17				1556↓
	-10	73		18				1556↓ SS1-5↓ DL:2✓
3560	SI4291-1DL	74	3	19				1556↓ SS6↑ 100/300
	-3DL	75		20				1556↓ SS6↑
	-8DL	76		21				1556↓ SS4,6↑
	-5DL	77		22				1556↓ SS 34,6↑
	SI4226-5	78	1	23				1556↓
	-7	79		24				1556↓ SS6↑
	MeCl2	80-87		25				

STANDARD	CODE
DFTPP	S2601
CAL. STD.	S2636 STK4917
IS MIX	STK5001

REVIEWED AND APPROVED BY: _____
DATE: _____

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-U

DATE OF DFTPP INJECTION: 062315

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG165391-1	50ng DFTPP	U0392	1	1	DFTPP5UM	2.0	JLM	OK
-2	SSTD050U0623	U0788		2	U8270C79	1.0		OK
3550	WG164995-1RA	89		3				OK
3510	WG165248-1	90		4				OK
	-4	91		5				OK PBT1251A
	-5	92		6				OK PBT1250A
	-2	93		7				OK
	-3	94		8				OK
	SE4291-2	95		9				~~SS23~~ SPLP
	-4	96		10				~~SS01~~ JLM
	-6	97		11				SS1(X)
	-9	98		12				~~SS23~~
	SE4240-1	99		13				OK
	SE4306-7	U0800		14				OK
	SE4332-11	01		15				SS1
	WG165248-6	02		16				OK
	-7	03		17				OK
3550	SE4226-10DL	04	2	18				1:5 SS4,5 100/200
	MeCl2	05-07	1	19				

STANDARD	CODE
DFTPP	52611
CAL. STD.	526310 STK4917
IS MIX	STK8001

REVIEWED AND APPROVED BY: _____
DATE: _____

625/SV/SIM
SEP

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) ✓		SW846 3520 (CLLE)		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625 ✓	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV8717		Spike ID (1): SV8715		
	Surrogate ID (2):		Spike ID (2): SIM: SV8718		
Solvents/Acid/Base	Solvent Lot # (Mecl2): DM804		H_2SO_4 Lot # 71333		NaOH Lot # 62534
Consumables	Filter Paper Lot # 96181511		$NaSO_4$ Lot # 2796500		
Nitrogen Water Bath Temperature 36°C			pH (1st Extraction) ≥11		pH (2nd Extraction) ≤2
Prep Start Time: 1000	Prep End Time: 14:40		CLLE Start Time: —		CLLE End Time: —

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV036	Initials	Comments
6-11-15	KF	WG164593-1 625										625-R
		WG164594-1 SV	1000	1mL	NR	✓	✓	1mL	6-11-15	C8	JMS	SV-R
		WG164595-1 SIM										SIM-R
		WG164593-2			1mL	✓				E9		
		WG164594-2										
		WG164595-2					✓			C10		
		-3	1060				✓			D1		MS S14024-5D
		-4	1060				✓			D2		MSD " -5E
		WG164594-3	~~1000~~ 1060	2mL	NR	✓				D3		~~Spike Blank PBT12250~~ ~~Filtered 1 micron~~
		WG164595-3	1060	1mL	1mL	✗	✓			D4		MS S1 4050-2S
		-4	1060			✗	✓			D5		MSD -2F

EX-007 – Revision 2 – 12/05/2013

QAEX284

0000080

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
6-11-15	KF	S1 3987-2A	1060	1mL	NR	✓		1mL	6-11-15	D6	JMS	625 em-ss. -cont
		S1 3988-2A	1060							D7		
		S1 4018-3A	1060							D8		cont
		S1 4022-2A	1060							D9		em-ss
		S1 4023-2A	1060							D10		
		S1 4028-1D	1060							E1		
		S1 4029-1F	1020							E2		cont
		S1 3862-6A	1050	2mL		✓				E3		SPLP
		S1 3862-7F	830	2mL		✓				E4		SPLP
		S1 3907-2F	1060	1mL		✓				E5		em-S.S.
		S1 4024-1B	1060				✓			E6		
		-2B	1060							E7		
		-3B	1020							E8		
		-4B	1030							E9		
		-5G	1050							E10		MS/D
		S1 4050-2E	1060							SV037 A1		
		-3E								A2		em-SS
		-4G								A3		
		-5F	1030							A4		

Reviewed By_____ Date_____

EX-007 – Revision 2 – 12/05/2013

QAEX284

0000081

S|S|625
sep

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP) ✓		SW846 3520 (CLLE)		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625 ✓	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV2721		Spike ID (1): SV2715(SV)		
	Surrogate ID (2):		Spike ID (2): SV2716(SIM)		
Solvents/Acid/Base	Solvent Lot # (Mecl2): DM824		H_2SO_4 Lot # 71333		NaOH Lot # 62534
Consumables	Filter Paper Lot # 96181511		$NaSO_4$ Lot # 27965002		
Nitrogen Water Bath Temperature 36°C			pH (1st Extraction) ≤2		pH (2nd Extraction) ≥11
Prep Start Time: 1130	Prep End Time: 1330		CLLE Start Time:		CLLE End Time:

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV039	Initials	Comments Rsv 322505
6-22-15	WAS	WG165248-1 246-1 251-1	1000	1mL	NR	✓	✓	1µ	6-22-15	A1	KF	Rsim 322506
		WG165248-2 251-2			1mL					A2		R625 322507
		248-3 251-3								3		
		WG165248-4	1010		NR					4		SPLP Blank 1251A
		-5	200							5		TCLP Blank 1250A → 2000mL w/DI
		-6	900		1mL					6		MS SD3862-6
		-7	880							7		MSD -6
		WG165249-2	~~750~~ 1000				✓			8		
		-3	~~703~~ 1003							9		
		-4	1010		NR					A10		SPLP Blank 1251A
		-5	750		1mL					B1		MS SD3862-6
		-6	1030							B2		MSD -6

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Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location	Initials	Comments
6-22-15	WAS	SD4240-1	200	1mL	NR	✓		1µ	6-22-15	B3	KF	TCLP → 2000mL w/DI
		SD4291-2	1020				✓			4		SPLP
		-4	4							5		
		-6	960							6		
		-9	880							7		
		SD4306-7 H	1050			✓				8		
		SD4319-1 F	1060			✓				9		625
		SD4332-1 H	980				✓			B10		
		-3 H	1010							C1		emulsion → SS
		-5 H	1050							2		
		-7 H	1600							3		
		-9 G	1060							4		Centrifuge
		-10 F	1010							5		
		-11 H	1050			✓	✓			C6		
									KF	6-22-15		

Reviewed By_____ Date_____

EX-007 – Revision 2 – 12/05/2013 QAEX284

KATAHDIN ANALYTICAL SERVICES, INC. Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ / SW846 1312 (SPLP) ☑	Extractor ID: #2 / Balance ID: BAL-0615	Room Thermometer ID: DIG-23 (Room Temp Criteria. 23(±2)°C) / pH Meter ID: Orion 520A s/n 7422	pH Probe ID:
Solid pH Determination:	Date: 06·05·15	GEJ 06.05.15	Analyst: GEJ	
Rotary Extraction Started:	Date: 06·05·15	Time: 15:50	Analyst: GEJ	Room Temp. (degrees °C): 18.1
Rotary Extraction Completed:	Date: 06-06-15	Time: 08:06	Analyst: Gam	Room Temp. (degrees °C): 17.8
Extraction Filtered:	Date: 06/06/15	Time: 15:05	Analyst: [illegible]	Filter Lot #: R5AA49484
Elapsed Extraction Time (HH:MM):		5% HNO_3 ID (used to wash filters):		HNO_3 Lot # (used to preserve extracts):
Fluid 1 pH (Day of use): 4.24 (1225)		Fluid 1 Expiration Date: 01·14·16		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		

II. EXTRACTION SETUP

TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID)	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID:	Extraction Setup: Weight of Waste (g)	pH of extract after extraction: 06·05·15 GEJ	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SI3862-1	SL	✓		1	—	—	2000	—	PBT1255D	100.38	6.48	M, S	18
SI3862-2	SL	✓		1	—	—	↓	—	↓	100.59	6.53	M, S	3
PBT1225D	Aq	—		1	—	—	↓	—	↓	—	6.59	M, S	1

ME-001 – Revision 4 – 07/05/2011

METALS DATA

Sample Data Section

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	The pre-digestion spiked sample recovery is not within control limits.
*	The duplicate sample analysis relative percent difference (RPD) is not within control limits.
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
A	The post-digestion spiked sample recovery is not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was 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%.
J	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).

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: SI3862 **SOW No.** SW846

Client Field ID	Lab Sample ID
SITE4TS-EB	SI3862-003
SITE4TS-FB	SI3862-001
SITE4TS-FB	SI3862-001D
SITE4TS-FB	SI3862-001P
SITE4TS-FB	SI3862-001S
SITE4TS-FB	SI3862-006
SITE4TS-FB	SI3862-006P
SITE4TS-FB	SI3862-006S
SITE4TS-XX	SI3862-002
SITE4TS-XX	SI3862-007

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Edward A. Morgan Name: Edward A. Morgan

Date: June 29, 2015 Title: Senior Analyst

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FB

Matrix: SOIL **SDG Name:** SI3862

Percent Solids: 92.6 **Lab Sample ID:** SI3862-001

Concentration Units : mg/Kg drywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	1470		N*	MS	5	26	0.44	3.5
7440-36-0	ANTIMONY, TOTAL	0.018	J	N	MS	5	0.087	0.017	0.044
7440-38-2	ARSENIC, TOTAL	2.34		*	MS	5	0.44	0.13	0.35
7440-39-3	BARIUM, TOTAL	6.07		*	MS	5	0.17	0.032	0.087
7440-41-7	BERYLLIUM, TOTAL	0.0483	J		MS	5	0.087	0.0035	0.017
7440-43-9	CADMIUM, TOTAL	0.0066	J		MS	5	0.087	0.0065	0.017
7440-70-2	CALCIUM, TOTAL	66.3		N*B	MS	5	8.7	3.4	7.0
7440-47-3	CHROMIUM, TOTAL	2.41			MS	5	0.44	0.043	0.35
7440-48-4	COBALT, TOTAL	0.642		*	MS	5	0.087	0.0048	0.026
7440-50-8	COPPER, TOTAL	2.77		*	MS	5	0.26	0.061	0.17
7439-89-6	IRON, TOTAL	3090		N*A	MS	5	8.7	2.1	5.2
7439-92-1	LEAD, TOTAL	2.65		*	MS	5	0.087	0.0061	0.044
7439-95-4	MAGNESIUM, TOTAL	32.7		*	MS	5	8.7	1.2	7.0
7439-96-5	MANGANESE, TOTAL	11.4		B	MS	5	0.17	0.037	0.087
7439-97-6	MERCURY, TOTAL	0.015	U	A	CV	1	0.029	0.0045	0.015
7440-02-0	NICKEL, TOTAL	2.15			MS	5	0.17	0.023	0.10
7440-09-7	POTASSIUM, TOTAL	169		*	MS	5	87	4.0	35
7782-49-2	SELENIUM, TOTAL	0.20	J		MS	5	0.44	0.034	0.26
7440-22-4	SILVER, TOTAL	0.035	U		MS	5	0.087	0.0057	0.035
7440-23-5	SODIUM, TOTAL	16	J		MS	5	87	2.2	35
7440-28-0	THALLIUM, TOTAL	0.023	J		MS	5	0.087	0.0083	0.035
7440-62-2	VANADIUM, TOTAL	19.1			MS	5	0.44	0.096	0.35
7440-66-6	ZINC, TOTAL	2.16		*	MS	5	0.87	0.11	0.70

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-XX

Matrix: SOIL **SDG Name:** SI3862

Percent Solids: 91.7 **Lab Sample ID:** SI3862-002

Concentration Units : mg/Kg drywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	1090			MS	5	18	0.31	2.5
7440-36-0	ANTIMONY, TOTAL	0.013	J		MS	5	0.062	0.012	0.031
7440-38-2	ARSENIC, TOTAL	2.38			MS	5	0.31	0.092	0.25
7440-39-3	BARIUM, TOTAL	4.14			MS	5	0.12	0.022	0.062
7440-41-7	BERYLLIUM, TOTAL	0.0384	J		MS	5	0.062	0.0025	0.012
7440-43-9	CADMIUM, TOTAL	0.0064	J		MS	5	0.062	0.0046	0.012
7440-70-2	CALCIUM, TOTAL	50.0		B	MS	5	6.2	2.4	4.9
7440-47-3	CHROMIUM, TOTAL	2.05			MS	5	0.31	0.030	0.25
7440-48-4	COBALT, TOTAL	0.495			MS	5	0.062	0.0034	0.018
7440-50-8	COPPER, TOTAL	2.19			MS	5	0.18	0.043	0.12
7439-89-6	IRON, TOTAL	3060			MS	5	6.2	1.5	3.7
7439-92-1	LEAD, TOTAL	2.01			MS	5	0.062	0.0043	0.031
7439-95-4	MAGNESIUM, TOTAL	21.3			MS	5	6.2	0.83	4.9
7439-96-5	MANGANESE, TOTAL	14.6		B	MS	5	0.12	0.026	0.062
7439-97-6	MERCURY, TOTAL	0.016	U		CV	1	0.031	0.0048	0.016
7440-02-0	NICKEL, TOTAL	2.56			MS	5	0.12	0.016	0.074
7440-09-7	POTASSIUM, TOTAL	99.8			MS	5	62	2.8	25
7782-49-2	SELENIUM, TOTAL	0.12	J		MS	5	0.31	0.024	0.18
7440-22-4	SILVER, TOTAL	0.0041	J		MS	5	0.062	0.0040	0.025
7440-23-5	SODIUM, TOTAL	12	J		MS	5	62	1.6	25
7440-28-0	THALLIUM, TOTAL	0.015	J		MS	5	0.062	0.0059	0.025
7440-62-2	VANADIUM, TOTAL	23.0			MS	5	0.31	0.068	0.25
7440-66-6	ZINC, TOTAL	1.45			MS	5	0.62	0.080	0.49

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-EB

Matrix: WATER **SDG Name:** SI3862

Percent Solids: 0.00 **Lab Sample ID:** SI3862-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	9.5	J		MS	5	300	4.4	40
7440-36-0	ANTIMONY, TOTAL	0.12	J		MS	5	1.0	0.055	0.50
7440-38-2	ARSENIC, TOTAL	4.0	U		MS	5	5.0	2.3	4.0
7440-39-3	BARIUM, TOTAL	0.85	J		MS	5	2.0	0.27	1.0
7440-41-7	BERYLLIUM, TOTAL	0.20	U		MS	5	1.0	0.034	0.20
7440-43-9	CADMIUM, TOTAL	0.041	J		MS	5	1.0	0.030	0.20
7440-70-2	CALCIUM, TOTAL	80	J		MS	5	100	21.	80
7440-47-3	CHROMIUM, TOTAL	0.92	J		MS	5	5.0	0.22	4.0
7440-48-4	COBALT, TOTAL	0.30	U		MS	5	1.0	0.060	0.30
7440-50-8	COPPER, TOTAL	1.4	J		MS	5	3.0	0.19	2.0
7439-89-6	IRON, TOTAL	28	J		MS	5	100	13.	60
7439-92-1	LEAD, TOTAL	0.50	U		MS	5	1.0	0.075	0.50
7439-95-4	MAGNESIUM, TOTAL	24	J		MS	5	100	8.0	80
7439-96-5	MANGANESE, TOTAL	1.1	J		MS	5	2.0	0.35	1.0
7439-97-6	MERCURY, TOTAL	0.10	U		CV	1	0.20	0.013	0.10
7440-02-0	NICKEL, TOTAL	0.22	J		MS	5	2.0	0.15	1.2
7440-09-7	POTASSIUM, TOTAL	400	U		MS	5	1000	31.	400
7782-49-2	SELENIUM, TOTAL	2.09	J		MS	5	5.0	0.19	3.0
7440-22-4	SILVER, TOTAL	0.40	U		MS	5	1.0	0.050	0.40
7440-23-5	SODIUM, TOTAL	210	J		MS	5	1000	19.	400
7440-28-0	THALLIUM, TOTAL	0.40	U		MS	5	1.0	0.060	0.40
7440-62-2	VANADIUM, TOTAL	4.0	U		MS	5	5.0	0.50	4.0
7440-66-6	ZINC, TOTAL	8.0	U		MS	5	10	3.9	8.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FB

Matrix: WATER **SDG Name:** SI3862

Percent Solids: 0.00 **Lab Sample ID:** SI3862-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, SPLP	180	J		P	1	1500	75.	500
7440-36-0	ANTIMONY, SPLP	25	U		P	1	40	6.5	25
7440-38-2	ARSENIC, SPLP	25	U	A	P	1	40	7.0	25
7440-39-3	BARIUM, SPLP	126		B	P	1	25	1.2	15
7440-41-7	BERYLLIUM, SPLP	2.5	U		P	1	25	0.50	2.5
7440-43-9	CADMIUM, SPLP	15	U		P	1	25	0.25	15
7440-70-2	CALCIUM, SPLP	320	J		P	1	500	55.	400
7440-47-3	CHROMIUM, SPLP	20	U		P	1	50	1.8	20
7440-48-4	COBALT, SPLP	1.8	J		P	1	50	1.2	20
7440-50-8	COPPER, SPLP	50	U		P	1	120	3.2	50
7439-89-6	IRON, SPLP	170	J	N	P	1	500	27.	400
7439-92-1	LEAD, SPLP	20	U		P	1	25	5.5	20
7439-95-4	MAGNESIUM, SPLP	100	J		P	1	500	39.	400
7439-96-5	MANGANESE, SPLP	14	J		P	1	25	5.5	20
7439-97-6	MERCURY, SPLP	0.10	U		CV	1	0.20	0.013	0.10
7440-02-0	NICKEL, SPLP	20	U		P	1	50	1.4	20
7440-09-7	POTASSIUM, SPLP	2500	U		P	1	5000	205.	2500
7782-49-2	SELENIUM, SPLP	35	U		P	1	50	12.	35
7440-22-4	SILVER, SPLP	20	U		P	1	50	1.4	20
7440-23-5	SODIUM, SPLP	2500	U		P	1	5000	120.	2500
7440-28-0	THALLIUM, SPLP	25	U		P	1	75	5.5	25
7440-62-2	VANADIUM, SPLP	20	U		P	1	50	1.2	20
7440-66-6	ZINC, SPLP	41.6	J		P	1	100	3.6	50

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-XX

Matrix: WATER **SDG Name:** SI3862

Percent Solids: 0.00 **Lab Sample ID:** SI3862-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, SPLP	7970			P	1	1500	75.	500
7440-36-0	ANTIMONY, SPLP	25	U		P	1	40	6.5	25
7440-38-2	ARSENIC, SPLP	11	J		P	1	40	7.0	25
7440-39-3	BARIUM, SPLP	274		B	P	1	25	1.2	15
7440-41-7	BERYLLIUM, SPLP	2.5	U		P	1	25	0.50	2.5
7440-43-9	CADMIUM, SPLP	1.4	J		P	1	25	0.25	15
7440-70-2	CALCIUM, SPLP	1660			P	1	500	55.	400
7440-47-3	CHROMIUM, SPLP	6.1	J		P	1	50	1.8	20
7440-48-4	COBALT, SPLP	1.8	J		P	1	50	1.2	20
7440-50-8	COPPER, SPLP	3.3	J		P	1	120	3.2	50
7439-89-6	IRON, SPLP	2720			P	1	500	27.	400
7439-92-1	LEAD, SPLP	20	U		P	1	25	5.5	20
7439-95-4	MAGNESIUM, SPLP	300	J		P	1	500	39.	400
7439-96-5	MANGANESE, SPLP	20	J		P	1	25	5.5	20
7439-97-6	MERCURY, SPLP	0.10	U		CV	1	0.20	0.013	0.10
7440-02-0	NICKEL, SPLP	3.7	J		P	1	50	1.4	20
7440-09-7	POTASSIUM, SPLP	440	J		P	1	5000	205.	2500
7782-49-2	SELENIUM, SPLP	35	U		P	1	50	12.	35
7440-22-4	SILVER, SPLP	20	U		P	1	50	1.4	20
7440-23-5	SODIUM, SPLP	3220	J		P	1	5000	120.	2500
7440-28-0	THALLIUM, SPLP	25	U		P	1	75	5.5	25
7440-62-2	VANADIUM, SPLP	8.8	J		P	1	50	1.2	20
7440-66-6	ZINC, SPLP	75.6	J		P	1	100	3.6	50

Comments:

FORM I - IN

QC Summary Section

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: HIF09A Jun 09, 2015 15:19

Analyte	True	Found	%R (1)
MERCURY	6.0	5.98	99.7

SAMPLE: CCV

File: HIF09A Jun 09, 2015 15:25

Analyte	True	Found	%R (1)
MERCURY	5.0	5.21	104.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: HIF09A Jun 09, 2015 15:49

Analyte	True	Found	%R (1)
MERCURY	5.0	4.93	98.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: HIF10A Jun 10, 2015 16:56

Analyte	True	Found	%R (1)
MERCURY	6.0	5.96	99.3

SAMPLE: CCV

File: HIF10A Jun 10, 2015 17:02

Analyte	True	Found	%R (1)
MERCURY	5.0	5.07	101.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: HIF10A Jun 10, 2015 17:57

Analyte	True	Found	%R (1)
MERCURY	5.0	4.90	98.0

SAMPLE: CCV

File: HIF10A Jun 10, 2015 18:23

Analyte	True	Found	%R (1)
MERCURY	5.0	4.99	99.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: HIF10A Jun 10, 2015 18:48

Analyte	True	Found	%R (1)
MERCURY	5.0	5.00	100.0

SAMPLE: CCV

File: HIF10A Jun 10, 2015 19:14

Analyte	True	Found	%R (1)
MERCURY	5.0	5.09	101.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: HIF10A Jun 10, 2015 19:40

Analyte	True	Found	%R (1)
MERCURY	5.0	5.02	100.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: IIF09B Jun 09, 2015 19:07

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10030.00	100.3
ANTIMONY	400.0	418.30	104.6
ARSENIC	400.0	406.80	101.7
BARIUM	400.0	424.20	106.1
BERYLLIUM	400.0	430.00	107.5
CADMIUM	400.0	419.60	104.9
CALCIUM	10000.0	10100.00	101.0
CHROMIUM	400.0	418.50	104.6
COBALT	400.0	427.30	106.8
COPPER	400.0	419.10	104.8
IRON	10000.0	10160.00	101.6
LEAD	400.0	426.50	106.6
MAGNESIUM	10000.0	10200.00	102.0
MANGANESE	400.0	423.10	105.8
NICKEL	400.0	425.50	106.4
POTASSIUM	13600.0	13740.00	101.0
SELENIUM	400.0	415.70	103.9
SILVER	400.0	415.90	104.0
SODIUM	10000.0	10170.00	101.7
THALLIUM	400.0	436.50	109.1
VANADIUM	400.0	420.00	105.0
ZINC	400.0	423.70	105.9

SAMPLE: CCV

File: IIF09B Jun 09, 2015 19:52

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12920.00	103.4
ANTIMONY	500.0	493.20	98.6
ARSENIC	500.0	495.80	99.2
BARIUM	500.0	505.60	101.1
BERYLLIUM	500.0	521.40	104.3
CADMIUM	500.0	510.30	102.1
CALCIUM	12500.0	12950.00	103.6
CHROMIUM	500.0	513.50	102.7
COBALT	500.0	517.20	103.4
COPPER	500.0	516.40	103.3
IRON	12500.0	13120.00	105.0
LEAD	500.0	515.10	103.0
MAGNESIUM	12500.0	13070.00	104.6
MANGANESE	500.0	516.40	103.3
NICKEL	500.0	510.00	102.0
POTASSIUM	12500.0	13030.00	104.2
SELENIUM	500.0	507.60	101.5
SILVER	500.0	509.50	101.9
SODIUM	12500.0	12920.00	103.4
THALLIUM	500.0	521.30	104.3
VANADIUM	500.0	504.30	100.9
ZINC	500.0	517.00	103.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF09B Jun 09, 2015 20:52

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12720.00	101.8
ANTIMONY	500.0	491.20	98.2
ARSENIC	500.0	496.50	99.3
BARIUM	500.0	498.30	99.7
BERYLLIUM	500.0	510.90	102.2
CADMIUM	500.0	511.40	102.3
CALCIUM	12500.0	12740.00	101.9
CHROMIUM	500.0	516.30	103.3
COBALT	500.0	517.00	103.4
COPPER	500.0	521.80	104.4
IRON	12500.0	12840.00	102.7
LEAD	500.0	516.10	103.2
MAGNESIUM	12500.0	13060.00	104.5
MANGANESE	500.0	508.00	101.6
NICKEL	500.0	510.50	102.1
POTASSIUM	12500.0	12810.00	102.5
SELENIUM	500.0	507.40	101.5
SILVER	500.0	515.90	103.2
SODIUM	12500.0	12810.00	102.5
THALLIUM	500.0	521.40	104.3
VANADIUM	500.0	509.20	101.8
ZINC	500.0	517.50	103.5

SAMPLE: CCV

File: IIF09B Jun 09, 2015 21:52

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12850.00	102.8
ANTIMONY	500.0	494.70	98.9
ARSENIC	500.0	497.30	99.5
BARIUM	500.0	502.40	100.5
BERYLLIUM	500.0	508.50	101.7
CADMIUM	500.0	510.40	102.1
CALCIUM	12500.0	12710.00	101.7
CHROMIUM	500.0	515.60	103.1
COBALT	500.0	513.90	102.8
COPPER	500.0	518.30	103.7
IRON	12500.0	12810.00	102.5
LEAD	500.0	514.10	102.8
MAGNESIUM	12500.0	13130.00	105.0
MANGANESE	500.0	507.90	101.6
NICKEL	500.0	511.30	102.3
POTASSIUM	12500.0	12850.00	102.8
SELENIUM	500.0	502.20	100.4
SILVER	500.0	518.00	103.6
SODIUM	12500.0	12930.00	103.4
THALLIUM	500.0	520.10	104.0
VANADIUM	500.0	510.90	102.2
ZINC	500.0	515.10	103.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF09B Jun 09, 2015 22:53

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12520.00	100.2
ANTIMONY	500.0	495.40	99.1
ARSENIC	500.0	498.60	99.7
BARIUM	500.0	492.70	98.5
BERYLLIUM	500.0	501.40	100.3
CADMIUM	500.0	512.60	102.5
CALCIUM	12500.0	12560.00	100.5
CHROMIUM	500.0	513.30	102.7
COBALT	500.0	516.80	103.4
COPPER	500.0	510.10	102.0
IRON	12500.0	12670.00	101.4
LEAD	500.0	516.80	103.4
MAGNESIUM	12500.0	13020.00	104.2
MANGANESE	500.0	499.00	99.8
NICKEL	500.0	512.20	102.4
POTASSIUM	12500.0	12630.00	101.0
SELENIUM	500.0	506.40	101.3
SILVER	500.0	507.50	101.5
SODIUM	12500.0	12750.00	102.0
THALLIUM	500.0	518.10	103.6
VANADIUM	500.0	505.60	101.1
ZINC	500.0	518.80	103.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: IIF23A Jun 23, 2015 12:49

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10150.00	101.5
ANTIMONY	400.0	406.60	101.6
ARSENIC	400.0	401.40	100.3
BARIUM	400.0	412.00	103.0
BERYLLIUM	400.0	414.20	103.5
CADMIUM	400.0	413.20	103.3
CALCIUM	10000.0	9952.00	99.5
CHROMIUM	400.0	416.30	104.1
COBALT	400.0	419.50	104.9
COPPER	400.0	410.70	102.7
IRON	10000.0	9992.00	99.9
LEAD	400.0	413.70	103.4
MAGNESIUM	10000.0	9971.00	99.7
MANGANESE	400.0	415.40	103.8
NICKEL	400.0	416.90	104.2
POTASSIUM	13600.0	13630.00	100.2
SELENIUM	400.0	405.70	101.4
SILVER	400.0	409.60	102.4
SODIUM	10000.0	10050.00	100.5
THALLIUM	400.0	418.80	104.7
VANADIUM	400.0	414.10	103.5
ZINC	400.0	413.60	103.4

SAMPLE: CCV

File: IIF23A Jun 23, 2015 13:33

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12410.00	99.3
ANTIMONY	500.0	497.80	99.6
ARSENIC	500.0	492.30	98.5
BARIUM	500.0	496.50	99.3
BERYLLIUM	500.0	496.70	99.3
CADMIUM	500.0	496.20	99.2
CALCIUM	12500.0	12380.00	99.0
CHROMIUM	500.0	493.40	98.7
COBALT	500.0	507.80	101.6
COPPER	500.0	491.20	98.2
IRON	12500.0	12230.00	97.8
LEAD	500.0	498.10	99.6
MAGNESIUM	12500.0	12440.00	99.5
MANGANESE	500.0	494.80	99.0
NICKEL	500.0	501.40	100.3
POTASSIUM	12500.0	12240.00	97.9
SELENIUM	500.0	493.50	98.7
SILVER	500.0	493.10	98.6
SODIUM	12500.0	12450.00	99.6
THALLIUM	500.0	490.60	98.1
VANADIUM	500.0	495.90	99.2
ZINC	500.0	502.90	100.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF23A Jun 23, 2015 14:31

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12570.00	100.6
ANTIMONY	500.0	496.40	99.3
ARSENIC	500.0	488.10	97.6
BARIUM	500.0	500.60	100.1
BERYLLIUM	500.0	491.70	98.3
CADMIUM	500.0	501.60	100.3
CALCIUM	12500.0	12490.00	99.9
CHROMIUM	500.0	502.10	100.4
COBALT	500.0	502.30	100.5
COPPER	500.0	500.60	100.1
IRON	12500.0	12540.00	100.3
LEAD	500.0	501.90	100.4
MAGNESIUM	12500.0	12550.00	100.4
MANGANESE	500.0	497.50	99.5
NICKEL	500.0	503.10	100.6
POTASSIUM	12500.0	12720.00	101.8
SELENIUM	500.0	493.80	98.8
SILVER	500.0	497.20	99.4
SODIUM	12500.0	12520.00	100.2
THALLIUM	500.0	500.00	100.0
VANADIUM	500.0	494.70	98.9
ZINC	500.0	495.90	99.2

SAMPLE: CCV

File: IIF23A Jun 23, 2015 15:30

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12560.00	100.5
ANTIMONY	500.0	487.00	97.4
ARSENIC	500.0	479.70	95.9
BARIUM	500.0	496.90	99.4
BERYLLIUM	500.0	492.70	98.5
CADMIUM	500.0	503.90	100.8
CALCIUM	12500.0	12710.00	101.7
CHROMIUM	500.0	519.10	103.8
COBALT	500.0	491.10	98.2
COPPER	500.0	517.10	103.4
IRON	12500.0	13030.00	104.2
LEAD	500.0	507.80	101.6
MAGNESIUM	12500.0	12640.00	101.1
MANGANESE	500.0	511.80	102.4
NICKEL	500.0	500.30	100.1
POTASSIUM	12500.0	13120.00	105.0
SELENIUM	500.0	502.20	100.4
SILVER	500.0	498.70	99.7
SODIUM	12500.0	12760.00	102.1
THALLIUM	500.0	509.60	101.9
VANADIUM	500.0	494.40	98.9
ZINC	500.0	483.60	96.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF23A Jun 23, 2015 16:09

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12450.00	99.6
ANTIMONY	500.0	488.00	97.6
ARSENIC	500.0	479.80	96.0
BARIUM	500.0	496.70	99.3
BERYLLIUM	500.0	492.40	98.5
CADMIUM	500.0	508.00	101.6
CALCIUM	12500.0	12710.00	101.7
CHROMIUM	500.0	541.30	108.3
COBALT	500.0	488.20	97.6
COPPER	500.0	543.90	108.8
IRON	12500.0	13140.00	105.1
LEAD	500.0	507.80	101.6
MAGNESIUM	12500.0	12650.00	101.2
MANGANESE	500.0	514.20	102.8
NICKEL	500.0	501.20	100.2
POTASSIUM	12500.0	13310.00	106.5
SELENIUM	500.0	508.40	101.7
SILVER	500.0	520.80	104.2
SODIUM	12500.0	12720.00	101.8
THALLIUM	500.0	517.60	103.5
VANADIUM	500.0	515.20	103.0
ZINC	500.0	479.30	95.9

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: IIF24A Jun 24, 2015 10:28

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10090.00	100.9
ARSENIC	400.0	403.00	100.8
BERYLLIUM	400.0	407.80	102.0
CALCIUM	10000.0	9824.00	98.2
IRON	10000.0	9840.00	98.4
MAGNESIUM	10000.0	10300.00	103.0
MANGANESE	400.0	409.00	102.3
POTASSIUM	13600.0	13570.00	99.8

SAMPLE: CCV

File: IIF24A Jun 24, 2015 11:13

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12460.00	99.7
ARSENIC	500.0	501.00	100.2
BERYLLIUM	500.0	513.40	102.7
CALCIUM	12500.0	12650.00	101.2
IRON	12500.0	12850.00	102.8
MAGNESIUM	12500.0	12880.00	103.0
MANGANESE	500.0	509.30	101.9
POTASSIUM	12500.0	12820.00	102.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF24A Jun 24, 2015 12:12

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13380.00	107.0
ARSENIC	500.0	497.80	99.6
BERYLLIUM	500.0	555.40	111.1•
CALCIUM	12500.0	13680.00	109.4
IRON	12500.0	13860.00	110.9•
MAGNESIUM	12500.0	12850.00	102.8
MANGANESE	500.0	547.30	109.5
POTASSIUM	12500.0	13810.00	110.5

SAMPLE: CCV

File: IIF24A Jun 24, 2015 13:12

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12150.00	97.2
ARSENIC	500.0	504.00	100.8
BERYLLIUM	500.0	507.80	101.6
CALCIUM	12500.0	12270.00	98.2
IRON	12500.0	12320.00	98.6
MAGNESIUM	12500.0	12550.00	100.4
MANGANESE	500.0	505.00	101.0
POTASSIUM	12500.0	12600.00	100.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF24A Jun 24, 2015 14:11

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12270.00	98.2
ARSENIC	500.0	497.50	99.5
BERYLLIUM	500.0	514.40	102.9
CALCIUM	12500.0	12340.00	98.7
IRON	12500.0	12440.00	99.5
MAGNESIUM	12500.0	12590.00	100.7
MANGANESE	500.0	507.60	101.5
POTASSIUM	12500.0	12830.00	102.6

SAMPLE: CCV

File: IIF24A Jun 24, 2015 15:10

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12320.00	98.6
ARSENIC	500.0	500.00	100.0
BERYLLIUM	500.0	525.20	105.0
CALCIUM	12500.0	12410.00	99.3
IRON	12500.0	12690.00	101.5
MAGNESIUM	12500.0	12550.00	100.4
MANGANESE	500.0	515.90	103.2
POTASSIUM	12500.0	12850.00	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF24A Jun 24, 2015 16:10

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12160.00	97.3
ARSENIC	500.0	502.10	100.4
BERYLLIUM	500.0	518.70	103.7
CALCIUM	12500.0	12340.00	98.7
IRON	12500.0	12520.00	100.2
MAGNESIUM	12500.0	12470.00	99.8
MANGANESE	500.0	511.10	102.2
POTASSIUM	12500.0	12760.00	102.1

SAMPLE: CCV

File: IIF24A Jun 24, 2015 17:09

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12670.00	101.4
ARSENIC	500.0	484.10	96.8
BERYLLIUM	500.0	544.00	108.8
CALCIUM	12500.0	12900.00	103.2
IRON	12500.0	13150.00	105.2
MAGNESIUM	12500.0	12100.00	96.8
MANGANESE	500.0	533.80	106.8
POTASSIUM	12500.0	13230.00	105.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF24A Jun 24, 2015 18:08

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11770.00	94.2
ARSENIC	500.0	482.70	96.5
BERYLLIUM	500.0	500.70	100.1
CALCIUM	12500.0	11940.00	95.5
IRON	12500.0	12100.00	96.8
MAGNESIUM	12500.0	12180.00	97.4
MANGANESE	500.0	495.30	99.1
POTASSIUM	12500.0	12280.00	98.2

SAMPLE: CCV

File: IIF24A Jun 24, 2015 19:07

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11350.00	90.8
ARSENIC	500.0	466.10	93.2
BERYLLIUM	500.0	508.30	101.7
CALCIUM	12500.0	11950.00	95.6
IRON	12500.0	12230.00	97.8
MAGNESIUM	12500.0	12380.00	99.0
MANGANESE	500.0	492.70	98.5
POTASSIUM	12500.0	12470.00	99.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF24A Jun 24, 2015 19:47

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12010.00	96.1
ARSENIC	500.0	463.60	92.7
BERYLLIUM	500.0	549.10	109.8
CALCIUM	12500.0	12730.00	101.8
IRON	12500.0	13270.00	106.2
MAGNESIUM	12500.0	12540.00	100.3
MANGANESE	500.0	529.80	106.0
POTASSIUM	12500.0	13290.00	106.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: IIF25A Jun 25, 2015 10:04

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	10260.00	102.6
BERYLLIUM	400.0	419.60	104.9
CALCIUM	10000.0	9978.00	99.8
IRON	10000.0	9999.00	100.0
MAGNESIUM	10000.0	10310.00	103.1

SAMPLE: CCV

File: IIF25A Jun 25, 2015 10:48

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13300.00	106.4
BERYLLIUM	500.0	549.40	109.9
CALCIUM	12500.0	13060.00	104.5
IRON	12500.0	13060.00	104.5
MAGNESIUM	12500.0	12550.00	100.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF25A Jun 25, 2015 10:58

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12410.00	99.3
BERYLLIUM	500.0	517.20	103.4
CALCIUM	12500.0	12310.00	98.5
IRON	12500.0	12250.00	98.0
MAGNESIUM	12500.0	12570.00	100.6

SAMPLE: CCV

File: IIF25A Jun 25, 2015 11:45

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12260.00	98.1
BERYLLIUM	500.0	508.30	101.7
CALCIUM	12500.0	12140.00	97.1
IRON	12500.0	12160.00	97.3
MAGNESIUM	12500.0	12640.00	101.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF25A Jun 25, 2015 12:45

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12350.00	98.8
BERYLLIUM	500.0	510.00	102.0
CALCIUM	12500.0	12320.00	98.6
IRON	12500.0	12380.00	99.0
MAGNESIUM	12500.0	12650.00	101.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: IIF25B Jun 25, 2015 14:13

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9929.00	99.3
BERYLLIUM	400.0	405.20	101.3
CADMIUM	400.0	408.50	102.1
CALCIUM	10000.0	9654.00	96.5
IRON	10000.0	9697.00	97.0
MAGNESIUM	10000.0	10170.00	101.7
MANGANESE	400.0	403.10	100.8
POTASSIUM	13600.0	13390.00	98.5
SELENIUM	400.0	402.00	100.5

SAMPLE: CCV

File: IIF25B Jun 25, 2015 14:56

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12200.00	97.6
BERYLLIUM	500.0	499.80	100.0
CADMIUM	500.0	502.60	100.5
CALCIUM	12500.0	12280.00	98.2
IRON	12500.0	12380.00	99.0
MAGNESIUM	12500.0	12550.00	100.4
MANGANESE	500.0	504.00	100.8
POTASSIUM	12500.0	12440.00	99.5
SELENIUM	500.0	503.60	100.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF25B Jun 25, 2015 15:55

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11940.00	95.5
BERYLLIUM	500.0	488.60	97.7
CADMIUM	500.0	504.30	100.9
CALCIUM	12500.0	12100.00	96.8
IRON	12500.0	12240.00	97.9
MAGNESIUM	12500.0	12520.00	100.2
MANGANESE	500.0	497.40	99.5
POTASSIUM	12500.0	12350.00	98.8
SELENIUM	500.0	499.10	99.8

SAMPLE: CCV

File: IIF25B Jun 25, 2015 16:54

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11920.00	95.4
BERYLLIUM	500.0	487.60	97.5
CADMIUM	500.0	503.50	100.7
CALCIUM	12500.0	11950.00	95.6
IRON	12500.0	11990.00	95.9
MAGNESIUM	12500.0	12490.00	99.9
MANGANESE	500.0	489.60	97.9
POTASSIUM	12500.0	12140.00	97.1
SELENIUM	500.0	505.80	101.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: IIF25B Jun 25, 2015 17:53

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12110.00	96.9
BERYLLIUM	500.0	492.00	98.4
CADMIUM	500.0	503.00	100.6
CALCIUM	12500.0	12060.00	96.5
IRON	12500.0	12310.00	98.5
MAGNESIUM	12500.0	12510.00	100.1
MANGANESE	500.0	498.20	99.6
POTASSIUM	12500.0	12620.00	101.0
SELENIUM	500.0	501.30	100.3

SAMPLE: CCV

File: IIF25B Jun 25, 2015 18:51

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	11910.00	95.3
BERYLLIUM	500.0	488.20	97.6
CADMIUM	500.0	507.30	101.5
CALCIUM	12500.0	12100.00	96.8
IRON	12500.0	12800.00	102.4
MAGNESIUM	12500.0	12780.00	102.2
MANGANESE	500.0	510.80	102.2
POTASSIUM	12500.0	12880.00	103.0
SELENIUM	500.0	505.80	101.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: JIF06A Jun 06, 2015 11:15

Analyte	True	Found	%R (1)
ALUMINUM	400.0	404.00	101.0
ANTIMONY	20.0	20.42	102.1
ARSENIC	20.0	19.50	97.5
BARIUM	20.0	20.67	103.4
CADMIUM	20.0	20.32	101.6
CALCIUM	4000.0	4043.00	101.1
COBALT	20.0	20.66	103.3
COPPER	20.0	20.79	103.9
IRON	4000.0	4070.00	101.8
LEAD	20.0	20.10	100.5
MAGNESIUM	4000.0	3905.00	97.6
MOLYBDENUM	40.0	39.91	99.8
NICKEL	20.0	20.81	104.1
POTASSIUM	4000.0	4039.00	101.0
SELENIUM	20.0	19.99	99.9
SILVER	20.0	19.02	95.1
SODIUM	4000.0	3950.00	98.8
THALLIUM	20.0	20.85	104.3
VANADIUM	20.0	20.14	100.7

SAMPLE: CCV

File: JIF06A Jun 06, 2015 11:45

Analyte	True	Found	%R (1)
ALUMINUM	500.0	518.30	103.7
ANTIMONY	25.0	24.06	96.2
ARSENIC	25.0	24.84	99.4
BARIUM	25.0	24.64	98.6
CADMIUM	25.0	25.23	100.9
CALCIUM	5000.0	5102.00	102.0
COBALT	25.0	25.32	101.3
COPPER	25.0	25.37	101.5
IRON	5000.0	5237.00	104.7
LEAD	25.0	24.71	98.8
MAGNESIUM	5000.0	5018.00	100.4
MOLYBDENUM	25.0	25.18	100.7
NICKEL	25.0	24.98	99.9
POTASSIUM	5000.0	5115.00	102.3
SELENIUM	25.0	25.54	102.2
SILVER	25.0	25.09	100.4
SODIUM	5000.0	5166.00	103.3
THALLIUM	25.0	24.82	99.3
VANADIUM	25.0	25.07	100.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF06A Jun 06, 2015 12:25

Analyte	True	Found	%R (1)
ALUMINUM	500.0	449.10	89.8
ANTIMONY	25.0	26.17	104.7
ARSENIC	25.0	26.07	104.3
BARIUM	25.0	23.92	95.7
CADMIUM	25.0	25.57	102.3
CALCIUM	5000.0	5039.00	100.8
COBALT	25.0	22.94	91.8
COPPER	25.0	23.77	95.1
IRON	5000.0	4818.00	96.4
LEAD	25.0	24.42	97.7
MAGNESIUM	5000.0	4294.00	85.9•
MOLYBDENUM	25.0	26.36	105.4
NICKEL	25.0	22.91	91.6
POTASSIUM	5000.0	4590.00	91.8
SELENIUM	25.0	22.96	91.8
SILVER	25.0	25.51	102.0
SODIUM	5000.0	3821.00	76.4•
THALLIUM	25.0	24.82	99.3
VANADIUM	25.0	22.51	90.0

SAMPLE: CCV

File: JIF06A Jun 06, 2015 13:06

Analyte	True	Found	%R (1)
ALUMINUM	500.0	506.30	101.3
ANTIMONY	25.0	24.92	99.7
ARSENIC	25.0	25.24	101.0
BARIUM	25.0	25.04	100.2
CADMIUM	25.0	25.27	101.1
CALCIUM	5000.0	5101.00	102.0
COBALT	25.0	25.43	101.7
COPPER	25.0	25.32	101.3
IRON	5000.0	5208.00	104.2
LEAD	25.0	24.91	99.6
MAGNESIUM	5000.0	4982.00	99.6
MOLYBDENUM	25.0	25.05	100.2
NICKEL	25.0	25.19	100.8
POTASSIUM	5000.0	5045.00	100.9
SELENIUM	25.0	25.35	101.4
SILVER	25.0	25.38	101.5
SODIUM	5000.0	5036.00	100.7
THALLIUM	25.0	24.73	98.9
VANADIUM	25.0	24.86	99.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF06A Jun 06, 2015 13:47

Analyte	True	Found	%R (1)
ALUMINUM	500.0	513.30	102.7
ANTIMONY	25.0	24.77	99.1
ARSENIC	25.0	24.85	99.4
BARIUM	25.0	24.94	99.8
CADMIUM	25.0	25.16	100.6
CALCIUM	5000.0	5094.00	101.9
COBALT	25.0	25.27	101.1
COPPER	25.0	25.07	100.3
IRON	5000.0	5204.00	104.1
LEAD	25.0	24.75	99.0
MAGNESIUM	5000.0	5128.00	102.6
MOLYBDENUM	25.0	24.69	98.8
NICKEL	25.0	25.36	101.4
POTASSIUM	5000.0	5160.00	103.2
SELENIUM	25.0	25.11	100.4
SILVER	25.0	25.02	100.1
SODIUM	5000.0	5230.00	104.6
THALLIUM	25.0	24.70	98.8
VANADIUM	25.0	25.26	101.0

SAMPLE: CCV

File: JIF06A Jun 06, 2015 14:29

Analyte	True	Found	%R (1)
ALUMINUM	500.0	502.90	100.6
ANTIMONY	25.0	25.67	102.7
ARSENIC	25.0	25.31	101.2
BARIUM	25.0	25.68	102.7
CADMIUM	25.0	24.79	99.2
CALCIUM	5000.0	5190.00	103.8
COBALT	25.0	25.20	100.8
COPPER	25.0	25.27	101.1
IRON	5000.0	5304.00	106.1
LEAD	25.0	24.72	98.9
MAGNESIUM	5000.0	5120.00	102.4
MOLYBDENUM	25.0	24.65	98.6
NICKEL	25.0	25.27	101.1
POTASSIUM	5000.0	5204.00	104.1
SELENIUM	25.0	25.18	100.7
SILVER	25.0	24.75	99.0
SODIUM	5000.0	5418.00	108.4
THALLIUM	25.0	24.86	99.4
VANADIUM	25.0	25.76	103.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF06A Jun 06, 2015 15:10

Analyte	True	Found	%R (1)
ALUMINUM	500.0	521.90	104.4
ANTIMONY	25.0	25.09	100.4
ARSENIC	25.0	25.02	100.1
BARIUM	25.0	25.75	103.0
CADMIUM	25.0	24.76	99.0
CALCIUM	5000.0	5109.00	102.2
COBALT	25.0	26.28	105.1
COPPER	25.0	25.46	101.8
IRON	5000.0	5444.00	108.9
LEAD	25.0	24.62	98.5
MAGNESIUM	5000.0	5316.00	106.3
MOLYBDENUM	25.0	24.42	97.7
NICKEL	25.0	26.16	104.6
POTASSIUM	5000.0	5187.00	103.7
SELENIUM	25.0	25.54	102.2
SILVER	25.0	24.81	99.2
SODIUM	5000.0	5530.00	110.6•
THALLIUM	25.0	24.71	98.8
VANADIUM	25.0	26.41	105.6

SAMPLE: CCV

File: JIF06A Jun 06, 2015 15:52

Analyte	True	Found	%R (1)
ALUMINUM	500.0	516.50	103.3
ANTIMONY	25.0	25.04	100.2
ARSENIC	25.0	25.25	101.0
BARIUM	25.0	25.18	100.7
CADMIUM	25.0	24.76	99.0
CALCIUM	5000.0	5139.00	102.8
COBALT	25.0	25.69	102.8
COPPER	25.0	25.38	101.5
IRON	5000.0	5394.00	107.9
LEAD	25.0	24.59	98.4
MAGNESIUM	5000.0	5227.00	104.5
MOLYBDENUM	25.0	24.26	97.0
NICKEL	25.0	26.05	104.2
POTASSIUM	5000.0	5248.00	105.0
SELENIUM	25.0	25.67	102.7
SILVER	25.0	24.60	98.4
SODIUM	5000.0	5510.00	110.2
THALLIUM	25.0	24.70	98.8
VANADIUM	25.0	26.89	107.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF06A Jun 06, 2015 16:33

Analyte	True	Found	%R (1)
ALUMINUM	500.0	518.30	103.7
ANTIMONY	25.0	25.54	102.2
ARSENIC	25.0	25.36	101.4
BARIUM	25.0	25.49	102.0
CADMIUM	25.0	24.83	99.3
CALCIUM	5000.0	5145.00	102.9
COBALT	25.0	26.10	104.4
COPPER	25.0	25.57	102.3
IRON	5000.0	5419.00	108.4
LEAD	25.0	24.36	97.4
MAGNESIUM	5000.0	5300.00	106.0
MOLYBDENUM	25.0	24.22	96.9
NICKEL	25.0	25.97	103.9
POTASSIUM	5000.0	5209.00	104.2
SELENIUM	25.0	25.38	101.5
SILVER	25.0	24.56	98.2
SODIUM	5000.0	5554.00	111.1•
THALLIUM	25.0	24.47	97.9
VANADIUM	25.0	26.54	106.2

SAMPLE: CCV

File: JIF06A Jun 06, 2015 16:50

Analyte	True	Found	%R (1)
ALUMINUM	500.0	524.10	104.8
ANTIMONY	25.0	25.42	101.7
ARSENIC	25.0	25.09	100.4
BARIUM	25.0	25.70	102.8
CADMIUM	25.0	24.46	97.8
CALCIUM	5000.0	5089.00	101.8
COBALT	25.0	25.69	102.8
COPPER	25.0	25.17	100.7
IRON	5000.0	5396.00	107.9
LEAD	25.0	24.23	96.9
MAGNESIUM	5000.0	5222.00	104.4
MOLYBDENUM	25.0	24.12	96.5
NICKEL	25.0	25.79	103.2
POTASSIUM	5000.0	5268.00	105.4
SELENIUM	25.0	25.64	102.6
SILVER	25.0	24.45	97.8
SODIUM	5000.0	5455.00	109.1
THALLIUM	25.0	24.33	97.3
VANADIUM	25.0	26.30	105.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICV

File: JIF08A Jun 08, 2015 16:15

Analyte	True	Found	%R (1)
ALUMINUM	400.0	407.50	101.9
ANTIMONY	20.0	20.36	101.8
ARSENIC	20.0	19.38	96.9
BARIUM	20.0	20.47	102.3
BERYLLIUM	20.0	19.90	99.5
CADMIUM	20.0	20.17	100.9
CALCIUM	4000.0	4031.00	100.8
CHROMIUM	20.0	20.71	103.6
COBALT	20.0	20.35	101.8
COPPER	20.0	20.90	104.5
IRON	4000.0	4084.00	102.1
LEAD	20.0	20.01	100.1
MAGNESIUM	4000.0	4070.00	101.8
MANGANESE	20.0	20.23	101.2
MOLYBDENUM	40.0	39.55	98.9
NICKEL	20.0	20.49	102.5
POTASSIUM	4000.0	4081.00	102.0
SELENIUM	20.0	20.03	100.2
SILVER	20.0	19.05	95.3
SODIUM	4000.0	4088.00	102.2
THALLIUM	20.0	20.65	103.3
VANADIUM	20.0	20.22	101.1
ZINC	20.0	20.39	102.0

SAMPLE: CCV

File: JIF08A Jun 08, 2015 16:45

Analyte	True	Found	%R (1)
ALUMINUM	500.0	504.40	100.9
ANTIMONY	25.0	24.73	98.9
ARSENIC	25.0	24.88	99.5
BARIUM	25.0	24.34	97.4
BERYLLIUM	25.0	24.88	99.5
CADMIUM	25.0	24.94	99.8
CALCIUM	5000.0	5044.00	100.9
CHROMIUM	25.0	24.87	99.5
COBALT	25.0	24.57	98.3
COPPER	25.0	25.26	101.0
IRON	5000.0	4999.00	100.0
LEAD	25.0	24.56	98.2
MAGNESIUM	5000.0	4977.00	99.5
MANGANESE	25.0	24.56	98.2
MOLYBDENUM	25.0	24.92	99.7
NICKEL	25.0	24.70	98.8
POTASSIUM	5000.0	5112.00	102.2
SELENIUM	25.0	25.22	100.9
SILVER	25.0	24.93	99.7
SODIUM	5000.0	4919.00	98.4
THALLIUM	25.0	24.37	97.5
VANADIUM	25.0	24.66	98.6
ZINC	25.0	24.77	99.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF08A Jun 08, 2015 16:54

Analyte	True	Found	%R (1)
ALUMINUM	500.0	498.80	99.8
ANTIMONY	25.0	25.03	100.1
ARSENIC	25.0	24.80	99.2
BARIUM	25.0	25.20	100.8
BERYLLIUM	25.0	24.83	99.3
CADMIUM	25.0	24.96	99.8
CALCIUM	5000.0	5026.00	100.5
CHROMIUM	25.0	24.79	99.2
COBALT	25.0	24.69	98.8
COPPER	25.0	24.84	99.4
IRON	5000.0	5037.00	100.7
LEAD	25.0	24.79	99.2
MAGNESIUM	5000.0	5010.00	100.2
MANGANESE	25.0	24.38	97.5
MOLYBDENUM	25.0	24.79	99.2
NICKEL	25.0	24.60	98.4
POTASSIUM	5000.0	4995.00	99.9
SELENIUM	25.0	24.58	98.3
SILVER	25.0	24.87	99.5
SODIUM	5000.0	4918.00	98.4
THALLIUM	25.0	24.68	98.7
VANADIUM	25.0	24.60	98.4
ZINC	25.0	25.07	100.3

SAMPLE: CCV

File: JIF08A Jun 08, 2015 17:34

Analyte	True	Found	%R (1)
ALUMINUM	500.0	514.80	103.0
ANTIMONY	25.0	24.64	98.6
ARSENIC	25.0	24.87	99.5
BARIUM	25.0	24.72	98.9
BERYLLIUM	25.0	24.60	98.4
CADMIUM	25.0	24.99	100.0
CALCIUM	5000.0	5053.00	101.1
CHROMIUM	25.0	24.86	99.4
COBALT	25.0	24.67	98.7
COPPER	25.0	24.93	99.7
IRON	5000.0	5125.00	102.5
LEAD	25.0	25.00	100.0
MAGNESIUM	5000.0	5113.00	102.3
MANGANESE	25.0	24.92	99.7
MOLYBDENUM	25.0	24.76	99.0
NICKEL	25.0	24.92	99.7
POTASSIUM	5000.0	5064.00	101.3
SELENIUM	25.0	24.75	99.0
SILVER	25.0	24.98	99.9
SODIUM	5000.0	5036.00	100.7
THALLIUM	25.0	24.92	99.7
VANADIUM	25.0	24.97	99.9
ZINC	25.0	24.91	99.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF08A Jun 08, 2015 18:13

Analyte	True	Found	%R (1)
ALUMINUM	500.0	505.90	101.2
ANTIMONY	25.0	24.58	98.3
ARSENIC	25.0	24.73	98.9
BARIUM	25.0	24.40	97.6
BERYLLIUM	25.0	24.30	97.2
CADMIUM	25.0	24.84	99.4
CALCIUM	5000.0	5026.00	100.5
CHROMIUM	25.0	24.78	99.1
COBALT	25.0	24.64	98.6
COPPER	25.0	25.00	100.0
IRON	5000.0	5057.00	101.1
LEAD	25.0	24.73	98.9
MAGNESIUM	5000.0	5027.00	100.5
MANGANESE	25.0	24.75	99.0
MOLYBDENUM	25.0	24.43	97.7
NICKEL	25.0	24.70	98.8
POTASSIUM	5000.0	5088.00	101.8
SELENIUM	25.0	24.76	99.0
SILVER	25.0	24.79	99.2
SODIUM	5000.0	4980.00	99.6
THALLIUM	25.0	24.52	98.1
VANADIUM	25.0	24.88	99.5
ZINC	25.0	25.20	100.8

SAMPLE: CCV

File: JIF08A Jun 08, 2015 18:53

Analyte	True	Found	%R (1)
ALUMINUM	500.0	505.00	101.0
ANTIMONY	25.0	24.86	99.4
ARSENIC	25.0	24.68	98.7
BARIUM	25.0	25.09	100.4
BERYLLIUM	25.0	24.55	98.2
CADMIUM	25.0	24.75	99.0
CALCIUM	5000.0	5065.00	101.3
CHROMIUM	25.0	24.78	99.1
COBALT	25.0	24.42	97.7
COPPER	25.0	24.72	98.9
IRON	5000.0	5017.00	100.3
LEAD	25.0	24.60	98.4
MAGNESIUM	5000.0	5122.00	102.4
MANGANESE	25.0	24.75	99.0
MOLYBDENUM	25.0	24.48	97.9
NICKEL	25.0	25.02	100.1
POTASSIUM	5000.0	5099.00	102.0
SELENIUM	25.0	24.91	99.6
SILVER	25.0	24.79	99.2
SODIUM	5000.0	5049.00	101.0
THALLIUM	25.0	24.35	97.4
VANADIUM	25.0	24.86	99.4
ZINC	25.0	25.12	100.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF08A Jun 08, 2015 19:34

Analyte	True	Found	%R (1)
ALUMINUM	500.0	515.80	103.2
ANTIMONY	25.0	24.97	99.9
ARSENIC	25.0	24.55	98.2
BARIUM	25.0	25.49	102.0
BERYLLIUM	25.0	24.32	97.3
CADMIUM	25.0	24.79	99.2
CALCIUM	5000.0	5084.00	101.7
CHROMIUM	25.0	24.94	99.8
COBALT	25.0	24.67	98.7
COPPER	25.0	25.16	100.6
IRON	5000.0	5112.00	102.2
LEAD	25.0	24.92	99.7
MAGNESIUM	5000.0	5098.00	102.0
MANGANESE	25.0	24.93	99.7
MOLYBDENUM	25.0	24.62	98.5
NICKEL	25.0	24.64	98.6
POTASSIUM	5000.0	5226.00	104.5
SELENIUM	25.0	24.98	99.9
SILVER	25.0	24.55	98.2
SODIUM	5000.0	5107.00	102.1
THALLIUM	25.0	24.95	99.8
VANADIUM	25.0	25.09	100.4
ZINC	25.0	24.50	98.0

SAMPLE: CCV

File: JIF08A Jun 08, 2015 20:15

Analyte	True	Found	%R (1)
ALUMINUM	500.0	517.40	103.5
ANTIMONY	25.0	25.07	100.3
ARSENIC	25.0	24.87	99.5
BARIUM	25.0	25.17	100.7
BERYLLIUM	25.0	23.94	95.8
CADMIUM	25.0	24.84	99.4
CALCIUM	5000.0	5052.00	101.0
CHROMIUM	25.0	25.01	100.0
COBALT	25.0	24.83	99.3
COPPER	25.0	25.06	100.2
IRON	5000.0	5075.00	101.5
LEAD	25.0	24.70	98.8
MAGNESIUM	5000.0	5168.00	103.4
MANGANESE	25.0	24.83	99.3
MOLYBDENUM	25.0	24.60	98.4
NICKEL	25.0	24.78	99.1
POTASSIUM	5000.0	5140.00	102.8
SELENIUM	25.0	25.06	100.2
SILVER	25.0	24.74	99.0
SODIUM	5000.0	5111.00	102.2
THALLIUM	25.0	24.56	98.2
VANADIUM	25.0	25.29	101.2
ZINC	25.0	25.11	100.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF08A Jun 08, 2015 20:56

Analyte	True	Found	%R (1)
ALUMINUM	500.0	512.00	102.4
ANTIMONY	25.0	24.84	99.4
ARSENIC	25.0	24.62	98.5
BARIUM	25.0	24.68	98.7
BERYLLIUM	25.0	24.24	97.0
CADMIUM	25.0	24.39	97.6
CALCIUM	5000.0	5057.00	101.1
CHROMIUM	25.0	25.02	100.1
COBALT	25.0	24.42	97.7
COPPER	25.0	24.62	98.5
IRON	5000.0	5071.00	101.4
LEAD	25.0	24.45	97.8
MAGNESIUM	5000.0	5126.00	102.5
MANGANESE	25.0	24.57	98.3
MOLYBDENUM	25.0	24.41	97.6
NICKEL	25.0	24.65	98.6
POTASSIUM	5000.0	5131.00	102.6
SELENIUM	25.0	24.96	99.8
SILVER	25.0	24.53	98.1
SODIUM	5000.0	5057.00	101.1
THALLIUM	25.0	24.33	97.3
VANADIUM	25.0	24.86	99.4
ZINC	25.0	24.59	98.4

SAMPLE: CCV

File: JIF08A Jun 08, 2015 21:38

Analyte	True	Found	%R (1)
ALUMINUM	500.0	517.30	103.5
ANTIMONY	25.0	24.86	99.4
ARSENIC	25.0	24.62	98.5
BARIUM	25.0	25.05	100.2
BERYLLIUM	25.0	24.58	98.3
CADMIUM	25.0	24.60	98.4
CALCIUM	5000.0	5039.00	100.8
CHROMIUM	25.0	24.86	99.4
COBALT	25.0	24.35	97.4
COPPER	25.0	24.75	99.0
IRON	5000.0	5059.00	101.2
LEAD	25.0	24.88	99.5
MAGNESIUM	5000.0	5166.00	103.3
MANGANESE	25.0	24.79	99.2
MOLYBDENUM	25.0	24.55	98.2
NICKEL	25.0	24.53	98.1
POTASSIUM	5000.0	5118.00	102.4
SELENIUM	25.0	24.93	99.7
SILVER	25.0	24.81	99.2
SODIUM	5000.0	5006.00	100.1
THALLIUM	25.0	24.52	98.1
VANADIUM	25.0	24.92	99.7
ZINC	25.0	25.00	100.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCV

File: JIF08A Jun 08, 2015 22:12

Analyte	True	Found	%R (1)
ALUMINUM	500.0	524.00	104.8
ANTIMONY	25.0	25.29	101.2
ARSENIC	25.0	25.34	101.4
BARIUM	25.0	25.57	102.3
BERYLLIUM	25.0	24.06	96.2
CADMIUM	25.0	25.22	100.9
CALCIUM	5000.0	5145.00	102.9
CHROMIUM	25.0	25.39	101.6
COBALT	25.0	25.12	100.5
COPPER	25.0	25.73	102.9
IRON	5000.0	5171.00	103.4
LEAD	25.0	25.33	101.3
MAGNESIUM	5000.0	5269.00	105.4
MANGANESE	25.0	25.45	101.8
MOLYBDENUM	25.0	25.30	101.2
NICKEL	25.0	25.17	100.7
POTASSIUM	5000.0	5119.00	102.4
SELENIUM	25.0	25.61	102.4
SILVER	25.0	25.07	100.3
SODIUM	5000.0	5131.00	102.6
THALLIUM	25.0	25.18	100.7
VANADIUM	25.0	25.60	102.4
ZINC	25.0	25.50	102.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: HIF09A Jun 09, 2015 15:23

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.20	100.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: HIF10A Jun 10, 2015 17:00

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.19	95.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: IIF09B Jun 09, 2015 19:19

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	307.10	102.4
ANTIMONY	8.0	8.97	112.1
ARSENIC	8.0	9.51	118.9
BARIUM	5.0	5.43	108.6
BERYLLIUM	5.0	5.46	109.2
CADMIUM	5.0	5.16	103.2
CALCIUM	100.0	103.10	103.1
CHROMIUM	10.0	10.62	106.2
COBALT	10.0	10.78	107.8
COPPER	25.0	26.33	105.3
IRON	100.0	103.40	103.4
LEAD	5.0	4.65	93.0
MAGNESIUM	100.0	106.90	106.9
MANGANESE	5.0	5.35	107.0
NICKEL	10.0	10.63	106.3
POTASSIUM	1000.0	1020.00	102.0
SELENIUM	10.0	9.29	92.9
SILVER	10.0	10.90	109.0
SODIUM	1000.0	942.20	94.2
THALLIUM	15.0	16.50	110.0
VANADIUM	10.0	10.23	102.3
ZINC	20.0	21.91	109.6

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: IIF23A Jun 23, 2015 13:01

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	292.60	97.5
ANTIMONY	8.0	8.71	108.9
ARSENIC	8.0	7.50	93.8
BARIUM	5.0	5.86	117.2
BERYLLIUM	5.0	6.07	121.4•
CADMIUM	5.0	6.10	122.0•
CALCIUM	100.0	93.88	93.9
CHROMIUM	10.0	11.80	118.0
COBALT	10.0	11.38	113.8
COPPER	25.0	27.68	110.7
IRON	100.0	104.50	104.5
LEAD	5.0	5.69	113.8
MAGNESIUM	100.0	109.20	109.2
MANGANESE	5.0	6.75	135.0•
NICKEL	10.0	11.95	119.5
POTASSIUM	1000.0	1092.00	109.2
SELENIUM	10.0	7.96	79.6
SILVER	10.0	10.73	107.3
SODIUM	1000.0	1027.00	102.7
THALLIUM	15.0	16.72	111.5
VANADIUM	10.0	11.19	111.9
ZINC	20.0	22.53	112.7

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: IIF24A Jun 24, 2015 10:40

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	291.30	97.1
ARSENIC	8.0	8.29	103.6
BERYLLIUM	5.0	5.16	103.2
CALCIUM	100.0	111.70	111.7
IRON	100.0	97.54	97.5
MAGNESIUM	100.0	107.40	107.4
MANGANESE	5.0	5.18	103.6
POTASSIUM	1000.0	1110.00	111.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: IIF25A Jun 25, 2015 10:16

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	312.60	104.2
BERYLLIUM	5.0	5.26	105.2
CALCIUM	100.0	99.93	99.9
IRON	100.0	91.48	91.5
MAGNESIUM	100.0	108.10	108.1

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: IIF25B Jun 25, 2015 14:25

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	311.80	103.9
BERYLLIUM	5.0	5.01	100.2
CADMIUM	5.0	5.00	100.0
CALCIUM	100.0	105.30	105.3
IRON	100.0	100.20	100.2
MAGNESIUM	100.0	110.90	110.9
MANGANESE	5.0	5.71	114.2
POTASSIUM	1000.0	946.00	94.6
SELENIUM	10.0	12.02	120.2

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: JIF06A Jun 06, 2015 11:22

Analyte	TRUE	FOUND	% R
ALUMINUM	60.0	61.29	102.2
ANTIMONY	0.2	0.21	105.0
ARSENIC	1.0	0.82	82.0
BARIUM	0.4	0.43	107.5
CADMIUM	0.2	0.19	95.0
CALCIUM	20.0	20.03	100.2
COBALT	0.2	0.20	100.0
COPPER	0.6	0.70	116.7
IRON	20.0	19.11	95.5
LEAD	0.2	0.20	100.0
MAGNESIUM	20.0	20.36	101.8
MOLYBDENUM	1.0	1.04	104.0
NICKEL	0.4	0.41	102.5
POTASSIUM	200.0	204.40	102.2
SELENIUM	1.0	1.13	113.0
SILVER	0.2	0.21	105.0
SODIUM	200.0	214.90	107.5
THALLIUM	0.2	0.19	95.0
VANADIUM	1.0	1.14	114.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: PQL

File: JIF08A Jun 08, 2015 16:22

Analyte	TRUE	FOUND	% R
ALUMINUM	60.0	59.69	99.5
ANTIMONY	0.2	0.21	105.0
ARSENIC	1.0	0.88	88.0
BARIUM	0.4	0.44	110.0
BERYLLIUM	0.2	0.19	95.0
CADMIUM	0.2	0.20	100.0
CALCIUM	20.0	18.40	92.0
CHROMIUM	1.0	1.16	116.0
COBALT	0.2	0.21	105.0
COPPER	0.6	0.62	103.3
IRON	20.0	19.58	97.9
LEAD	0.2	0.20	100.0
MAGNESIUM	20.0	21.07	105.4
MANGANESE	0.4	0.56	140.0•
MOLYBDENUM	1.0	1.03	103.0
NICKEL	0.4	0.42	105.0
POTASSIUM	200.0	197.60	98.8
SELENIUM	1.0	1.17	117.0
SILVER	0.2	0.20	100.0
SODIUM	200.0	208.20	104.1
THALLIUM	0.2	0.20	100.0
VANADIUM	1.0	1.14	114.0
ZINC	2.0	2.50	125.0•

SAMPLE: PQL

File: JIF08A Jun 08, 2015 16:51

Analyte	TRUE	FOUND	% R
ALUMINUM	60.0	58.56	97.6
ANTIMONY	0.2	0.22	110.0
ARSENIC	1.0	0.92	92.0
BARIUM	0.4	0.41	102.5
BERYLLIUM	0.2	0.20	100.0
CADMIUM	0.2	0.19	95.0
CALCIUM	20.0	21.08	105.4
CHROMIUM	1.0	1.02	102.0
COBALT	0.2	0.20	100.0
COPPER	0.6	0.67	111.7
IRON	20.0	16.78	83.9
LEAD	0.2	0.20	100.0
MAGNESIUM	20.0	20.22	101.1
MANGANESE	0.4	0.41	102.5
MOLYBDENUM	1.0	1.10	110.0
NICKEL	0.4	0.45	112.5
POTASSIUM	200.0	204.20	102.1
SELENIUM	1.0	1.36	136.0•
SILVER	0.2	0.20	100.0
SODIUM	200.0	207.90	104.0
THALLIUM	0.2	0.21	105.0
VANADIUM	1.0	1.08	108.0
ZINC	2.0	2.14	107.0

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: HIF09A Jun 09, 2015 15:21

Analyte	Result	C
MERCURY	-0.035	U

SAMPLE: CCB

File: HIF09A Jun 09, 2015 15:27

Analyte	Result	C
MERCURY	-0.044	U

SAMPLE: CCB

File: HIF09A Jun 09, 2015 15:51

Analyte	Result	C
MERCURY	-0.041	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: HIF10A Jun 10, 2015 16:58

Analyte	Result	C
MERCURY	0.023	U

SAMPLE: CCB

File: HIF10A Jun 10, 2015 17:04

Analyte	Result	C
MERCURY	-0.046	U

SAMPLE: CCB

File: HIF10A Jun 10, 2015 17:59

Analyte	Result	C
MERCURY	-0.033	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: HIF10A Jun 10, 2015 18:25

Analyte	Result	C
MERCURY	-0.040	U

SAMPLE: CCB

File: HIF10A Jun 10, 2015 18:50

Analyte	Result	C
MERCURY	-0.028	U

SAMPLE: CCB

File: HIF10A Jun 10, 2015 19:16

Analyte	Result	C
MERCURY	0.023	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: HIF10A Jun 10, 2015 19:42

Analyte	Result	C
MERCURY	-0.034	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: IIF09B Jun 09, 2015 19:14

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	1.800	U
ARSENIC	2.400	U
BARIUM	0.500	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.310	U
COBALT	0.250	U
COPPER	0.470	U
IRON	5.200	U
LEAD	1.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	45.000	U
SELENIUM	2.800	U
SILVER	0.410	U
SODIUM	-48.950	U
THALLIUM	1.500	U
VANADIUM	0.250	U
ZINC	0.510	U

SAMPLE: CCB

File: IIF09B Jun 09, 2015 19:57

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	4.231	J
ARSENIC	2.574	J
BARIUM	0.500	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.310	U
COBALT	0.250	U
COPPER	-0.499	U
IRON	9.529	J
LEAD	1.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	45.000	U
SELENIUM	3.679	J
SILVER	0.410	U
SODIUM	-124.500	U
THALLIUM	1.500	U
VANADIUM	0.250	U
ZINC	0.510	U

SAMPLE: CCB

File: IIF09B Jun 09, 2015 20:57

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	3.627	J
ARSENIC	2.400	U
BARIUM	0.500	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.310	U
COBALT	0.292	J
COPPER	0.470	U
IRON	5.527	J
LEAD	1.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	45.000	U
SELENIUM	2.800	U
SILVER	0.410	U
SODIUM	-156.100	U
THALLIUM	1.500	U
VANADIUM	0.250	U
ZINC	0.510	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: IIF09B Jun 09, 2015 21:57

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	5.795	B
ARSENIC	2.400	U
BARIUM	0.500	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.310	U
COBALT	0.250	U
COPPER	0.470	U
IRON	8.863	J
LEAD	1.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	45.000	U
SELENIUM	2.800	U
SILVER	0.410	U
SODIUM	-184.700	U
THALLIUM	1.500	U
VANADIUM	0.250	U
ZINC	1.207	J

SAMPLE: CCB

File: IIF09B Jun 09, 2015 22:58

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	5.695	B
ARSENIC	2.672	J
BARIUM	0.500	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.325	J
COBALT	0.250	U
COPPER	0.470	U
IRON	6.419	J
LEAD	1.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	-57.160	U
SELENIUM	2.800	U
SILVER	0.410	U
SODIUM	-214.600	U
THALLIUM	1.500	U
VANADIUM	0.250	U
ZINC	0.510	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: IIF23A Jun 23, 2015 12:56

Analyte	Result	C
ALUMINUM	42.120	J
ANTIMONY	1.800	U
ARSENIC	2.400	U
BARIUM	1.355	J
BERYLLIUM	0.130	U
CADMIUM	-0.080	U
CALCIUM	51.380	J
CHROMIUM	1.004	J
COBALT	0.250	U
COPPER	1.687	J
IRON	18.080	J
LEAD	1.200	U
MAGNESIUM	40.510	J
MANGANESE	1.345	J
NICKEL	0.420	U
POTASSIUM	189.700	J
SELENIUM	2.800	U
SILVER	0.410	U
SODIUM	40.000	U
THALLIUM	-1.728	U
VANADIUM	0.250	U
ZINC	0.510	U

SAMPLE: CCB

File: IIF23A Jun 23, 2015 13:37

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	-4.295	U
ARSENIC	2.400	U
BARIUM	0.729	J
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.521	J
COBALT	0.250	U
COPPER	1.292	J
IRON	5.200	U
LEAD	1.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	146.000	J
SELENIUM	-6.263	U
SILVER	0.410	U
SODIUM	63.970	J
THALLIUM	-2.032	U
VANADIUM	-0.812	U
ZINC	0.510	U

SAMPLE: CCB

File: IIF23A Jun 23, 2015 14:36

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	1.800	U
ARSENIC	2.400	U
BARIUM	0.873	J
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.310	U
COBALT	-0.462	U
COPPER	2.154	J
IRON	5.200	U
LEAD	1.200	U
MAGNESIUM	8.570	J
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	279.300	J
SELENIUM	-7.974	B
SILVER	0.410	U
SODIUM	307.200	J
THALLIUM	1.500	U
VANADIUM	-0.448	U
ZINC	0.510	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: IIF23A Jun 23, 2015 15:35

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	1.800	U
ARSENIC	2.400	U
BARIUM	0.500	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
CHROMIUM	0.575	J
COBALT	0.250	U
COPPER	1.058	J
IRON	5.200	U
LEAD	1.200	U
MAGNESIUM	11.440	J
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	124.000	J
SELENIUM	2.800	U
SILVER	0.410	U
SODIUM	199.400	J
THALLIUM	-1.995	U
VANADIUM	0.250	U
ZINC	0.510	U

SAMPLE: CCB

File: IIF23A Jun 23, 2015 16:14

Analyte	Result	C
ALUMINUM	24.000	U
ANTIMONY	1.800	U
ARSENIC	2.400	U
BARIUM	1.153	J
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	-11.460	U
CHROMIUM	0.321	J
COBALT	0.271	J
COPPER	1.324	J
IRON	5.200	U
LEAD	1.200	U
MAGNESIUM	14.190	J
MANGANESE	1.100	U
NICKEL	0.420	U
POTASSIUM	133.500	J
SELENIUM	2.800	U
SILVER	0.410	U
SODIUM	187.200	J
THALLIUM	-2.048	U
VANADIUM	0.250	U
ZINC	0.510	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: IIF24A Jun 24, 2015 10:35

Analyte	Result	C
ALUMINUM	24.000	U
ARSENIC	2.400	U
BERYLLIUM	0.130	U
CALCIUM	9.700	U
IRON	5.200	U
MAGNESIUM	5.200	U
MANGANESE	-1.780	U
POTASSIUM	45.000	U

SAMPLE: CCB

File: IIF24A Jun 24, 2015 11:18

Analyte	Result	C
ALUMINUM	33.050	J
ARSENIC	2.400	U
BERYLLIUM	0.130	U
CALCIUM	12.520	J
IRON	5.321	J
MAGNESIUM	7.055	J
MANGANESE	1.100	U
POTASSIUM	218.500	J

SAMPLE: CCB

File: IIF24A Jun 24, 2015 12:17

Analyte	Result	C
ALUMINUM	24.000	U
ARSENIC	2.400	U
BERYLLIUM	0.130	U
CALCIUM	11.890	J
IRON	9.252	J
MAGNESIUM	10.620	J
MANGANESE	-1.335	U
POTASSIUM	117.800	J

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB
File: IIF24A Jun 24, 2015 13:17

Analyte	Result	C
ALUMINUM	24.810	J
ARSENIC	2.400	U
BERYLLIUM	0.130	U
CALCIUM	18.490	J
IRON	11.640	J
MAGNESIUM	6.439	J
MANGANESE	1.100	U
POTASSIUM	163.400	J

SAMPLE: CCB
File: IIF24A Jun 24, 2015 14:16

Analyte	Result	C
ALUMINUM	50.150	J
ARSENIC	2.400	U
BERYLLIUM	0.130	U
CALCIUM	14.590	J
IRON	8.566	J
MAGNESIUM	12.600	J
MANGANESE	1.100	U
POTASSIUM	214.000	J

SAMPLE: CCB
File: IIF24A Jun 24, 2015 15:15

Analyte	Result	C
ALUMINUM	24.000	U
ARSENIC	2.400	U
BERYLLIUM	0.229	J
CALCIUM	23.480	J
IRON	10.650	J
MAGNESIUM	12.750	J
MANGANESE	1.100	U
POTASSIUM	109.200	J

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB
File: IIF24A Jun 24, 2015 16:15

Analyte	Result	C
ALUMINUM	40.980	J
ARSENIC	2.400	U
BERYLLIUM	0.190	J
CALCIUM	21.520	J
IRON	10.570	J
MAGNESIUM	9.610	J
MANGANESE	1.100	U
POTASSIUM	125.200	J

SAMPLE: CCB
File: IIF24A Jun 24, 2015 17:14

Analyte	Result	C
ALUMINUM	25.040	J
ARSENIC	3.848	J
BERYLLIUM	0.211	J
CALCIUM	16.510	J
IRON	18.290	J
MAGNESIUM	14.320	J
MANGANESE	1.100	U
POTASSIUM	114.700	J

SAMPLE: CCB
File: IIF24A Jun 24, 2015 18:13

Analyte	Result	C
ALUMINUM	24.000	U
ARSENIC	2.400	U
BERYLLIUM	0.215	J
CALCIUM	25.730	J
IRON	16.920	J
MAGNESIUM	15.350	J
MANGANESE	1.100	U
POTASSIUM	119.200	J

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: IIF24A Jun 24, 2015 19:12

Analyte	Result	C
ALUMINUM	24.000	U
ARSENIC	2.400	U
BERYLLIUM	0.130	U
CALCIUM	20.030	J
IRON	21.670	J
MAGNESIUM	11.260	J
MANGANESE	1.100	U
POTASSIUM	45.000	U

SAMPLE: CCB

File: IIF24A Jun 24, 2015 19:51

Analyte	Result	C
ALUMINUM	24.000	U
ARSENIC	2.400	U
BERYLLIUM	0.600	B
CALCIUM	24.360	J
IRON	30.560	J
MAGNESIUM	18.560	J
MANGANESE	1.100	U
POTASSIUM	45.000	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: IIF25A Jun 25, 2015 10:11

Analyte	Result	C
ALUMINUM	24.000	U
BERYLLIUM	0.130	U
CALCIUM	-15.450	U
IRON	-11.560	U
MAGNESIUM	-6.872	U

SAMPLE: CCB

File: IIF25A Jun 25, 2015 10:53

Analyte	Result	C
ALUMINUM	24.000	U
BERYLLIUM	0.130	U
CALCIUM	9.700	U
IRON	-6.477	U
MAGNESIUM	5.200	U

SAMPLE: CCB

File: IIF25A Jun 25, 2015 11:03

Analyte	Result	C
ALUMINUM	-34.960	U
BERYLLIUM	0.240	J
CALCIUM	12.380	J
IRON	-8.255	U
MAGNESIUM	5.200	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: IIF25A Jun 25, 2015 11:50

Analyte	Result	C
ALUMINUM	24.000	U
BERYLLIUM	0.130	U
CALCIUM	9.700	U
IRON	5.200	U
MAGNESIUM	5.200	U

SAMPLE: CCB

File: IIF25A Jun 25, 2015 12:50

Analyte	Result	C
ALUMINUM	24.000	U
BERYLLIUM	0.130	U
CALCIUM	9.700	U
IRON	-5.694	U
MAGNESIUM	8.574	J

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: IIF25B Jun 25, 2015 14:20

Analyte	Result	C
ALUMINUM	30.610	J
BERYLLIUM	0.130	U
CADMIUM	0.109	J
CALCIUM	9.700	U
IRON	6.523	J
MAGNESIUM	5.200	U
MANGANESE	1.100	U
POTASSIUM	45.000	U
SELENIUM	3.013	J

SAMPLE: CCB

File: IIF25B Jun 25, 2015 15:01

Analyte	Result	C
ALUMINUM	24.000	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
IRON	5.200	U
MAGNESIUM	9.826	J
MANGANESE	1.100	U
POTASSIUM	45.000	U
SELENIUM	2.800	U

SAMPLE: CCB

File: IIF25B Jun 25, 2015 16:00

Analyte	Result	C
ALUMINUM	31.820	J
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
IRON	5.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
POTASSIUM	45.000	U
SELENIUM	2.800	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: IIF25B Jun 25, 2015 16:59

Analyte	Result	C
ALUMINUM	24.000	U
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	9.700	U
IRON	7.015	J
MAGNESIUM	5.200	U
MANGANESE	1.100	U
POTASSIUM	-54.480	U
SELENIUM	2.800	U

SAMPLE: CCB

File: IIF25B Jun 25, 2015 17:58

Analyte	Result	C
ALUMINUM	34.720	J
BERYLLIUM	0.130	U
CADMIUM	0.078	U
CALCIUM	13.220	J
IRON	5.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
POTASSIUM	96.140	J
SELENIUM	3.722	J

SAMPLE: CCB

File: IIF25B Jun 25, 2015 18:56

Analyte	Result	C
ALUMINUM	24.000	U
BERYLLIUM	0.130	U
CADMIUM	0.110	J
CALCIUM	9.700	U
IRON	5.200	U
MAGNESIUM	5.200	U
MANGANESE	1.100	U
POTASSIUM	-183.400	U
SELENIUM	2.800	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: JIF06A Jun 06, 2015 11:18

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.013	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.006	J
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.059	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.005	J
SODIUM	7.100	U
THALLIUM	0.011	J
VANADIUM	0.110	U

SAMPLE: CCB

File: JIF06A Jun 06, 2015 11:49

Analyte	Result	C
ALUMINUM	0.731	J
ANTIMONY	0.014	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.003	U
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.059	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.120	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.008	J
VANADIUM	0.110	U

SAMPLE: CCB

File: JIF06A Jun 06, 2015 12:29

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.022	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.006	J
CALCIUM	27.360	B
COBALT	0.013	J
COPPER	0.038	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.047	J
NICKEL	0.014	U
POTASSIUM	43.120	J
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	11.340	J
THALLIUM	0.012	J
VANADIUM	0.110	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: JIF06A Jun 06, 2015 13:10

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.014	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.006	J
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.042	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.285	J
MOLYBDENUM	0.035	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.009	J
VANADIUM	0.110	U

SAMPLE: CCB

File: JIF06A Jun 06, 2015 13:50

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.012	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.003	U
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.029	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.006	J
SODIUM	7.100	U
THALLIUM	0.010	J
VANADIUM	0.110	U

SAMPLE: CCB

File: JIF06A Jun 06, 2015 14:32

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.014	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.003	J
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.037	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.027	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	14.000	J
THALLIUM	0.007	J
VANADIUM	0.110	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: JIF06A Jun 06, 2015 15:13

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.014	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.003	U
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.031	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.022	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.006	U
VANADIUM	0.110	U

SAMPLE: CCB

File: JIF06A Jun 06, 2015 15:55

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.014	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.005	J
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.030	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.008	J
VANADIUM	0.110	U

SAMPLE: CCB

File: JIF06A Jun 06, 2015 16:36

Analyte	Result	C
ALUMINUM	0.563	J
ANTIMONY	0.016	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.008	J
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.738	J
MOLYBDENUM	0.034	J
NICKEL	0.015	J
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.006	J
SODIUM	16.260	J
THALLIUM	0.010	J
VANADIUM	0.110	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: JIF06A Jun 06, 2015 16:54

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.010	J
ARSENIC	0.220	U
BARIUM	0.037	U
CADMIUM	0.003	U
CALCIUM	4.800	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MOLYBDENUM	0.029	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	J
SODIUM	7.100	U
THALLIUM	0.009	J
VANADIUM	0.110	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICB

File: JIF08A Jun 08, 2015 16:19

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.018	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.006	J
CADMIUM	0.003	U
CALCIUM	4.800	U
CHROMIUM	-0.051	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.075	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.006	U
VANADIUM	0.110	U
ZINC	0.120	U

SAMPLE: CCB

File: JIF08A Jun 08, 2015 16:48

Analyte	Result	C
ALUMINUM	3.121	J
ANTIMONY	0.025	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.008	J
CADMIUM	0.006	J
CALCIUM	5.601	J
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.045	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	3.751	J
MANGANESE	0.031	U
MOLYBDENUM	0.177	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.799	J
THALLIUM	0.007	J
VANADIUM	0.110	U
ZINC	0.120	U

SAMPLE: CCB

File: JIF08A Jun 08, 2015 16:57

Analyte	Result	C
ALUMINUM	2.118	J
ANTIMONY	0.016	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.005	J
CADMIUM	0.003	U
CALCIUM	4.800	U
CHROMIUM	-0.054	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	2.766	J
MANGANESE	0.031	U
MOLYBDENUM	0.110	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.006	U
VANADIUM	0.110	U
ZINC	0.120	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: JIF08A Jun 08, 2015 17:37

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.016	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.008	J
CADMIUM	0.007	J
CALCIUM	5.597	J
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.032	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.045	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.421	J
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.014	J
VANADIUM	0.110	U
ZINC	0.120	U

SAMPLE: CCB

File: JIF08A Jun 08, 2015 18:16

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.013	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.003	U
CADMIUM	0.003	U
CALCIUM	4.800	U
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.040	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.323	J
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.007	J
VANADIUM	0.110	U
ZINC	0.120	U

SAMPLE: CCB

File: JIF08A Jun 08, 2015 18:56

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.012	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.004	J
CADMIUM	0.003	U
CALCIUM	4.800	U
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.040	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.447	J
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.006	U
VANADIUM	0.110	U
ZINC	0.120	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB
File: JIF08A Jun 08, 2015 19:37

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.011	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.004	J
CADMIUM	0.003	U
CALCIUM	4.800	U
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.039	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.379	J
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.008	J
VANADIUM	0.110	U
ZINC	0.120	U

SAMPLE: CCB
File: JIF08A Jun 08, 2015 20:19

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.007	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.006	J
CADMIUM	0.003	U
CALCIUM	4.800	U
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.028	U
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.033	J
NICKEL	0.014	U
POTASSIUM	5.300	U
SELENIUM	0.464	J
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.006	U
VANADIUM	0.110	U
ZINC	0.120	U

SAMPLE: CCB
File: JIF08A Jun 08, 2015 20:59

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.017	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.005	J
CADMIUM	0.006	J
CALCIUM	4.800	U
CHROMIUM	0.043	U
COBALT	0.012	J
COPPER	0.030	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.036	J
NICKEL	0.022	J
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.008	J
VANADIUM	0.110	U
ZINC	0.120	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: CCB

File: JIF08A Jun 08, 2015 21:41

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.015	J
ARSENIC	0.220	U
BARIUM	0.037	U
BERYLLIUM	0.006	J
CADMIUM	0.004	J
CALCIUM	4.800	U
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.029	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.033	J
NICKEL	0.019	J
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.008	J
VANADIUM	0.110	U
ZINC	0.120	U

SAMPLE: CCB

File: JIF08A Jun 08, 2015 22:15

Analyte	Result	C
ALUMINUM	0.380	U
ANTIMONY	0.018	J
ARSENIC	0.220	U
BARIUM	0.044	J
BERYLLIUM	0.005	J
CADMIUM	0.007	J
CALCIUM	4.800	U
CHROMIUM	0.043	U
COBALT	0.009	U
COPPER	0.030	J
IRON	6.300	U
LEAD	0.010	U
MAGNESIUM	1.200	U
MANGANESE	0.031	U
MOLYBDENUM	0.044	J
NICKEL	0.015	J
POTASSIUM	5.300	U
SELENIUM	0.230	U
SILVER	0.004	U
SODIUM	7.100	U
THALLIUM	0.006	U
VANADIUM	0.110	U
ZINC	0.120	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSIF05IMS2

Matrix: SOIL **SDG Name:** SI3862

QC Batch ID: IF05IMS2

Concentration Units : mg/Kg drywt

Analyte	RESULT	C
ALUMINUM	2.4	J
ANTIMONY	0.050	U
ARSENIC	0.40	U
BARIUM	0.081	J
BERYLLIUM	0.020	U
CADMIUM	0.020	U
CALCIUM	18	B
CHROMIUM	0.20	J
COBALT	0.0056	J
COPPER	0.12	J
IRON	8.6	J
LEAD	0.018	J
MAGNESIUM	5.5	J
MANGANESE	0.28	B
NICKEL	0.040	J
POTASSIUM	14	J
SELENIUM	0.30	U
SILVER	0.040	U
SODIUM	7.9	J
THALLIUM	0.040	U
VANADIUM	0.40	U
ZINC	0.28	J

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSIF08HGS1

Matrix: SOIL **SDG Name:** SI3862

QC Batch ID: IF08HGS1

Concentration Units : mg/Kg drywt

Analyte	RESULT	C
MERCURY	0.017	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBT1225D

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF08ICW3

Concentration Units : ug/L

Analyte	RESULT	C
ALUMINUM	500	U
ANTIMONY	25	U
ARSENIC	11	J
BARIUM	53.2	B
BERYLLIUM	2.5	U
CADMIUM	15	U
CALCIUM	160	J
CHROMIUM	20	U
COBALT	1.4	J
COPPER	9.0	J
IRON	80	J
LEAD	20	U
MAGNESIUM	60	J
MANGANESE	20	U
MERCURY	0.10	U
NICKEL	20	U
POTASSIUM	2500	U
SELENIUM	35	U
SILVER	20	U
SODIUM	2500	U
THALLIUM	25	U
VANADIUM	2.3	J
ZINC	20	J

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIF08ICW3

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF08ICW3

Concentration Units : ug/L

Analyte	RESULT	C
ALUMINUM	100	U
ANTIMONY	5.0	U
ARSENIC	5.0	U
BARIUM	0.36	J
BERYLLIUM	0.50	U
CADMIUM	3.0	U
CALCIUM	80	U
CHROMIUM	4.0	U
COBALT	4.0	U
COPPER	10	U
IRON	80	U
LEAD	4.0	U
MAGNESIUM	13	J
MANGANESE	4.0	U
NICKEL	4.0	U
POTASSIUM	500	U
SELENIUM	7.0	U
SILVER	4.0	U
SODIUM	500	U
THALLIUM	5.0	U
VANADIUM	4.0	U
ZINC	10	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIF08IMW2

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF08IMW2

Concentration Units : ug/L

Analyte	RESULT	C
ALUMINUM	40	U
ANTIMONY	0.50	U
ARSENIC	4.0	U
BARIUM	1.0	U
BERYLLIUM	0.20	U
CADMIUM	0.20	U
CALCIUM	80	U
CHROMIUM	0.72	J
COBALT	0.30	U
COPPER	0.45	J
IRON	25	J
LEAD	0.50	U
MAGNESIUM	10	J
MANGANESE	0.45	J
NICKEL	1.2	U
POTASSIUM	400	U
SELENIUM	1.4	J
SILVER	0.40	U
SODIUM	45	J
THALLIUM	0.40	U
VANADIUM	4.0	U
ZINC	8.0	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIF10HGW2

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF10HGW2

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIF10HGW3

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF10HGW3

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWIF19ICW1

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF19ICW1

Concentration Units : ug/L

Analyte	RESULT	C
ALUMINUM	100	U
ANTIMONY	1.7	J
ARSENIC	5.0	U
BARIUM	3.0	U
BERYLLIUM	0.50	U
CADMIUM	3.0	U
CALCIUM	80	U
CHROMIUM	1.1	J
COBALT	4.0	U
COPPER	1.9	J
IRON	77.2	J
LEAD	4.0	U
MAGNESIUM	17	J
MANGANESE	4.0	U
NICKEL	4.0	U
POTASSIUM	50	J
SELENIUM	4.4	J
SILVER	4.0	U
SODIUM	240	J
THALLIUM	5.0	U
VANADIUM	0.25	J
ZINC	10	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICSA

File: IIF09B Jun 09, 2015 19:40

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	490000	98.0
ANTIMONY	0	0	
ARSENIC	0	1	
BARIUM	0	0	
BERYLLIUM	0	0	
CADMIUM	0	0	
CALCIUM	500000	463900	92.8
CHROMIUM	0	0	
COBALT	0	1	
COPPER	0	1	
IRON	200000	190300	95.2
LEAD	0	0	
MAGNESIUM	500000	434300	86.9
MANGANESE	0	2	
NICKEL	0	-3	
POTASSIUM	0	149	
SELENIUM	0	1	
SILVER	0	0	
SODIUM	0	173	
THALLIUM	0	2	
VANADIUM	0	0	
ZINC	0	1	

SAMPLE: ICSAB

File: IIF09B Jun 09, 2015 19:45

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	482500	96.5
ANTIMONY	600	589	98.2
ARSENIC	100	92	92.0
BARIUM	500	508	101.6
BERYLLIUM	500	513	102.6
CADMIUM	1000	940	94.0
CALCIUM	500000	436700	87.3
CHROMIUM	500	491	98.2
COBALT	500	469	93.8
COPPER	500	517	103.4
IRON	200000	181100	90.5
LEAD	50	47	94.0
MAGNESIUM	500000	422000	84.4
MANGANESE	500	506	101.2
NICKEL	1000	910	91.0
POTASSIUM	20000	22280	111.4
SELENIUM	50	60	120.0
SILVER	200	214	107.0
SODIUM	20000	21380	106.9
THALLIUM	100	92	92.0
VANADIUM	500	501	100.2
ZINC	1000	944	94.4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICSA

File: IIF23A Jun 23, 2015 13:22

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	500800	100.2
ANTIMONY	0	1	
ARSENIC	0	-5	
BARIUM	0	0	
BERYLLIUM	0	0	
CADMIUM	0	1	
CALCIUM	500000	472100	94.4
CHROMIUM	0	1	
COBALT	0	1	
COPPER	0	3	
IRON	200000	186600	93.3
LEAD	0	-3	
MAGNESIUM	500000	469200	93.8
MANGANESE	0	-1	
NICKEL	0	-2	
POTASSIUM	0	542	
SELENIUM	0	-1	
SILVER	0	2	
SODIUM	0	144	
THALLIUM	0	0	
VANADIUM	0	-1	
ZINC	0	1	

SAMPLE: ICSAB

File: IIF23A Jun 23, 2015 13:26

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	504300	100.9
ANTIMONY	600	617	102.8
ARSENIC	100	98	98.0
BARIUM	500	517	103.4
BERYLLIUM	500	516	103.2
CADMIUM	1000	973	97.3
CALCIUM	500000	466900	93.4
CHROMIUM	500	493	98.6
COBALT	500	493	98.6
COPPER	500	506	101.2
IRON	200000	185500	92.8
LEAD	50	47	94.0
MAGNESIUM	500000	471300	94.3
MANGANESE	500	485	97.0
NICKEL	1000	953	95.3
POTASSIUM	20000	21030	105.2
SELENIUM	50	57	114.0
SILVER	200	214	107.0
SODIUM	20000	20700	103.5
THALLIUM	100	97	97.0
VANADIUM	500	512	102.4
ZINC	1000	968	96.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICSA

File: IIF24A Jun 24, 2015 11:02

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	490400	98.1
ARSENIC	0	3	
BERYLLIUM	0	0	
CALCIUM	500000	463000	92.6
IRON	200000	189700	94.8
MAGNESIUM	500000	470900	94.2
MANGANESE	0	-2	
POTASSIUM	0	403	

SAMPLE: ICSAB

File: IIF24A Jun 24, 2015 11:07

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	501300	100.3
ARSENIC	100	100	100.0
BERYLLIUM	500	532	106.4
CALCIUM	500000	485500	97.1
IRON	200000	195500	97.8
MAGNESIUM	500000	469800	94.0
MANGANESE	500	500	100.0
POTASSIUM	20000	21990	109.9

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICSA

File: IIF25A Jun 25, 2015 10:37

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	502600	100.5
BERYLLIUM	0	0	
CALCIUM	500000	464700	92.9
IRON	200000	188100	94.0
MAGNESIUM	500000	469000	93.8

SAMPLE: ICSAB

File: IIF25A Jun 25, 2015 10:42

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	508400	101.7
BERYLLIUM	500	528	105.6
CALCIUM	500000	471400	94.3
IRON	200000	188700	94.3
MAGNESIUM	500000	469300	93.9

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICSA

File: IIF25B Jun 25, 2015 14:45

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	488200	97.6
BERYLLIUM	0	0	
CADMIUM	0	1	
CALCIUM	500000	450400	90.1
IRON	200000	185300	92.7
MAGNESIUM	500000	468600	93.7
MANGANESE	0	-1	
POTASSIUM	0	81	
SELENIUM	0	3	

SAMPLE: ICSAB

File: IIF25B Jun 25, 2015 14:50

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	479600	95.9
BERYLLIUM	500	491	98.2
CADMIUM	1000	956	95.6
CALCIUM	500000	443200	88.6
IRON	200000	180000	90.0
MAGNESIUM	500000	460800	92.2
MANGANESE	500	467	93.4
POTASSIUM	20000	20420	102.1
SELENIUM	50	49	98.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICSA

File: JIF06A Jun 06, 2015 11:35

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	91490	91.5
ANTIMONY	0	0	
ARSENIC	0	0	
BARIUM	0	0	
CADMIUM	0	0	
CALCIUM	100000	90110	90.1
COBALT	0	0	
COPPER	0	1	
IRON	100000	90240	90.2
LEAD	0	0	
MAGNESIUM	100000	90030	90.0
MOLYBDENUM	2000	1922	96.1
NICKEL	0	0	
POTASSIUM	100000	91520	91.5
SELENIUM	0	0	
SILVER	0	0	
SODIUM	100000	92680	92.7
THALLIUM	0	0	
VANADIUM	0	0	

SAMPLE: ICSAB

File: JIF06A Jun 06, 2015 11:38

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	90970	91.0
ANTIMONY	20	19	95.0
ARSENIC	20	20	100.0
BARIUM	21	20	95.2
CADMIUM	20	18	90.0
CALCIUM	100000	90870	90.9
COBALT	20	19	95.0
COPPER	20	19	95.0
IRON	100000	90440	90.4
LEAD	20	20	100.0
MAGNESIUM	100000	89650	89.6
MOLYBDENUM	2000	1966	98.3
NICKEL	20	18	90.0
POTASSIUM	100000	93950	94.0
SELENIUM	20	19	95.0
SILVER	20	18	90.0
SODIUM	100000	94570	94.6
THALLIUM	20	20	100.0
VANADIUM	20	20	100.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Concentration Units: ug/L

SAMPLE: ICSA

File: JIF08A Jun 08, 2015 16:34

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	91380	91.4
ANTIMONY	0	0	
ARSENIC	0	0	
BARIUM	0	0	
BERYLLIUM	0	0	
CADMIUM	0	0	
CALCIUM	100000	89410	89.4
CHROMIUM	0	2	
COBALT	0	0	
COPPER	0	1	
IRON	100000	89200	89.2
LEAD	0	0	
MAGNESIUM	100000	89980	90.0
MANGANESE	0	0	
MOLYBDENUM	2000	1921	96.0
NICKEL	0	0	
POTASSIUM	100000	94030	94.0
SELENIUM	0	0	
SILVER	0	0	
SODIUM	100000	92110	92.1
THALLIUM	0	0	
VANADIUM	0	0	
ZINC	0	3	

SAMPLE: ICSAB

File: JIF08A Jun 08, 2015 16:38

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	91040	91.0
ANTIMONY	20	19	95.0
ARSENIC	20	20	100.0
BARIUM	21	20	95.2
BERYLLIUM	20	20	100.0
CADMIUM	20	18	90.0
CALCIUM	100000	89920	89.9
CHROMIUM	20	21	105.0
COBALT	20	19	95.0
COPPER	20	20	100.0
IRON	100000	90680	90.7
LEAD	20	20	100.0
MAGNESIUM	100000	90770	90.8
MANGANESE	20	19	95.0
MOLYBDENUM	2000	1962	98.1
NICKEL	20	18	90.0
POTASSIUM	100000	94500	94.5
SELENIUM	20	19	95.0
SILVER	20	18	90.0
SODIUM	100000	92730	92.7
THALLIUM	20	20	100.0
VANADIUM	20	20	100.0
ZINC	20	21	105.0

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBS

Matrix: SOIL **SDG Name:** SI3862

Percent Solids: 92.6 **Lab Sample ID:** SI3862-001P

Concentration Units : mg/Kg drywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
MERCURY, TOTAL	0.156		0.015	U	0.14	111.1		80	120	CV

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBS

Matrix: SOIL **SDG Name:** SI3862

Percent Solids: 92.6 **Lab Sample ID:** SI3862-001S

Concentration Units : mg/Kg drywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	2410		1470		172.68	545.7	N	80	120	MS
ANTIMONY, TOTAL	3.83		0.018	J	8.63	44.2	N	80	120	MS
ARSENIC, TOTAL	9.47		2.34		8.63	82.6		80	120	MS
BARIUM, TOTAL	170		6.07		172.68	95.2		80	120	MS
BERYLLIUM, TOTAL	4.04		0.0483	J	4.32	92.5		80	120	MS
CADMIUM, TOTAL	19.7		0.0066	J	21.58	91.1		80	120	MS
CALCIUM, TOTAL	234		66.3		215.85	77.8	N	80	120	MS
CHROMIUM, TOTAL	20.0		2.41		17.27	101.7		80	120	MS
COBALT, TOTAL	46.5		0.642		43.17	106.2		80	120	MS
COPPER, TOTAL	23.3		2.77		21.58	95.1		80	120	MS
IRON, TOTAL	2580		3090		86.34	-589.9	N	80	120	MS
LEAD, TOTAL	10.1		2.65		8.63	86.7		80	120	MS
MAGNESIUM, TOTAL	453		32.7		431.7	97.4		80	120	MS
MANGANESE, TOTAL	55.9		11.4		43.17	103.0		80	120	MS
MERCURY, TOTAL	0.156		0.015	U	0.14	111.2		80	120	CV
NICKEL, TOTAL	45.7		2.15		43.17	100.8		80	120	MS
POTASSIUM, TOTAL	936		169		863.39	88.9		80	120	MS
SELENIUM, TOTAL	7.73		0.20	J	8.63	87.2		80	120	MS
SILVER, TOTAL	3.77		0.035	U	4.32	87.2		80	120	MS
SODIUM, TOTAL	617		16	J	647.54	92.9		80	120	MS
THALLIUM, TOTAL	7.95		0.023	J	8.63	91.8		80	120	MS
VANADIUM, TOTAL	66.6		19.1		43.17	110.2		80	120	MS
ZINC, TOTAL	42.6		2.16		43.17	93.7		80	120	MS

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBS

Matrix: WATER **SDG Name:** SI3862

Percent Solids: 0.00 **Lab Sample ID:** SI3862-006P

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, SPLP	10900		180	J	10000	107.1		80	120	P
ANTIMONY, SPLP	512		25	U	500	102.3		80	120	P
ARSENIC, SPLP	502		25	U	500	100.4		80	120	P
BARIUM, SPLP	10500		126		10000	104.1		80	120	P
BERYLLIUM, SPLP	250		2.5	U	250	100.1		80	120	P
CADMIUM, SPLP	1280		15	U	1250	102.4		80	120	P
CALCIUM, SPLP	14400		320	J	12500	112.5		80	120	P
CHROMIUM, SPLP	1100		20	U	1000	110.0		80	120	P
COBALT, SPLP	2640		1.8	J	2500	105.5		80	120	P
COPPER, SPLP	1380		50	U	1250	110.8		80	120	P
IRON, SPLP	6900		170	J	5000	134.7	N	80	120	P
LEAD, SPLP	539		20	U	500	107.8		80	120	P
MAGNESIUM, SPLP	26200		100	J	25000	104.4		80	120	P
MANGANESE, SPLP	2620		14	J	2500	104.2		80	120	P
MERCURY, SPLP	0.992		0.10	U	1	99.2		80	120	CV
NICKEL, SPLP	2680		20	U	2500	107.2		80	120	P
POTASSIUM, SPLP	51400		2500	U	50000	102.9		80	120	P
SELENIUM, SPLP	518		35	U	500	103.7		80	120	P
SILVER, SPLP	255		20	U	250	102.0		80	120	P
SODIUM, SPLP	40400		2500	U	37500	107.8		80	120	P
THALLIUM, SPLP	532		25	U	500	106.3		80	120	P
VANADIUM, SPLP	2650		20	U	2500	105.8		80	120	P
ZINC, SPLP	2630		41.6	J	2500	103.7		80	120	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBS

Matrix: WATER **SDG Name:** SI3862

Percent Solids: 0.00 **Lab Sample ID:** SI3862-006S

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, SPLP	10900		180	J	10000	107.0		80	120	P
ANTIMONY, SPLP	489		25	U	500	97.7		80	120	P
ARSENIC, SPLP	493		25	U	500	98.7		80	120	P
BARIUM, SPLP	10400		126		10000	102.9		80	120	P
BERYLLIUM, SPLP	248		2.5	U	250	99.1		80	120	P
CADMIUM, SPLP	1250		15	U	1250	100.2		80	120	P
CALCIUM, SPLP	14100		320	J	12500	110.3		80	120	P
CHROMIUM, SPLP	1080		20	U	1000	108.2		80	120	P
COBALT, SPLP	2600		1.8	J	2500	104.1		80	120	P
COPPER, SPLP	1360		50	U	1250	108.7		80	120	P
IRON, SPLP	6870		170	J	5000	134.0	N	80	120	P
LEAD, SPLP	528		20	U	500	105.6		80	120	P
MAGNESIUM, SPLP	26000		100	J	25000	103.5		80	120	P
MANGANESE, SPLP	2590		14	J	2500	103.0		80	120	P
MERCURY, SPLP	0.936		0.10	U	1	93.6		80	120	CV
NICKEL, SPLP	2640		20	U	2500	105.6		80	120	P
POTASSIUM, SPLP	51600		2500	U	50000	103.1		80	120	P
SELENIUM, SPLP	495		35	U	500	98.9		80	120	P
SILVER, SPLP	253		20	U	250	101.1		80	120	P
SODIUM, SPLP	40200		2500	U	37500	107.2		80	120	P
THALLIUM, SPLP	524		25	U	500	104.9		80	120	P
VANADIUM, SPLP	2600		20	U	2500	104.0		80	120	P
ZINC, SPLP	2590		41.6	J	2500	102.0		80	120	P

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBS

Matrix: SOIL **SDG Name:** SI3862

Percent Solids: 92.6 **Lab Sample ID:** SI3862-001A

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	3900		3380		600	86.5		75	125	MS
ANTIMONY, TOTAL	1.98		0.041	J	2	97.0		75	125	MS
ARSENIC, TOTAL	14.8		5.37		10	94.5		75	125	MS
BARIUM, TOTAL	17.8		13.9		4	98.0		75	125	MS
BERYLLIUM, TOTAL	2.07		0.111	J	2	98.1		75	125	MS
CADMIUM, TOTAL	1.94		0.015	J	2	96.3		75	125	MS
CALCIUM, TOTAL	401		152		200	124.4		75	125	MS
CHROMIUM, TOTAL	15.6		5.54		10	100.3		75	125	MS
COBALT, TOTAL	3.54		1.48		2	103.1		75	125	MS
COPPER, TOTAL	12.4		6.37		6	99.7		75	125	MS
IRON, TOTAL	7230		7100		200	64.5	A	75	125	MS
LEAD, TOTAL	7.98		6.08		2	95.1		75	125	MS
MAGNESIUM, TOTAL	292		75.2		200	108.7		75	125	MS
MANGANESE, TOTAL	29.9		26.1		4	94.5		75	125	MS
MERCURY, TOTAL	0.703		0.031	U	1	70.3	A	75	125	CV
NICKEL, TOTAL	9.05		4.93		4	102.9		75	125	MS
POTASSIUM, TOTAL	2410		388		2000	101.3		75	125	MS
SELENIUM, TOTAL	10.3		0.46	J	10	98.6		75	125	MS
SILVER, TOTAL	1.92		0.013	U	2	95.8		75	125	MS
SODIUM, TOTAL	2030		36	J	2000	99.8		75	125	MS
THALLIUM, TOTAL	2.01		0.054	J	2	97.8		75	125	MS
VANADIUM, TOTAL	53.8		44.0		10	97.5		75	125	MS
ZINC, TOTAL	28.7		4.97		20	118.6		75	125	MS

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBS

Matrix: WATER **SDG Name:** SI3862

Percent Solids: 0.00 **Lab Sample ID:** SI3862-006A

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, SPLP	23100		36	J	20500	112.5		75	125	P
ANTIMONY, SPLP	382		1.3	U	500	76.4		75	125	P
ARSENIC, SPLP	371		1.4	U	500	74.3	A	75	125	P
BARIUM, SPLP	410		25.2		500	77.0		75	125	P
BERYLLIUM, SPLP	391		0.10	U	500	78.2		75	125	P
CADMIUM, SPLP	397		0.049	U	500	79.5		75	125	P
CALCIUM, SPLP	5080		64	J	5500	91.2		75	125	P
CHROMIUM, SPLP	418		0.36	U	500	83.5		75	125	P
COBALT, SPLP	393		0.36	J	500	78.5		75	125	P
COPPER, SPLP	410		0.63	U	500	81.9		75	125	P
IRON, SPLP	5320		34	J	5500	96.1		75	125	P
LEAD, SPLP	405		1.1	U	500	81.0		75	125	P
MAGNESIUM, SPLP	4470		21	J	5500	80.9		75	125	P
MANGANESE, SPLP	405		2.9	J	500	80.3		75	125	P
MERCURY, SPLP	1.02		0.013	U	1	102.3		75	125	CV
NICKEL, SPLP	399		0.28	U	500	79.8		75	125	P
POTASSIUM, SPLP	8970		41.	U	10000	89.7		75	125	P
SELENIUM, SPLP	388		2.4	U	500	77.7		75	125	P
SILVER, SPLP	392		0.27	U	500	78.4		75	125	P
SODIUM, SPLP	5270		24.	U	5500	95.9		75	125	P
THALLIUM, SPLP	410		1.1	U	500	82.0		75	125	P
VANADIUM, SPLP	398		0.23	U	500	79.5		75	125	P
ZINC, SPLP	392		8.31	J	500	76.7		75	125	P

Comments:

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FB

Matrix: SOIL **SDG Name:** SI3862

Percent Solids: 92.6 **Lab Sample ID:** SI3862-001

Concentration Units : mg/Kg drywt

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
MERCURY, TOTAL		0.156		0.156		0.1		CV

Comments:

FORM VD - IN

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FB

Matrix: WATER **SDG Name:** SI3862

Percent Solids: 0.00 **Lab Sample ID:** SI3862-006

Concentration Units : ug/L

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
ALUMINUM, SPLP		10900		10900		0.1		P
ANTIMONY, SPLP		489		512		4.6		P
ARSENIC, SPLP		493		502		1.7		P
BARIUM, SPLP		10400		10500		1.1		P
BERYLLIUM, SPLP		248		250		1.0		P
CADMIUM, SPLP		1250		1280		2.1		P
CALCIUM, SPLP		14100		14400		1.9		P
CHROMIUM, SPLP		1080		1100		1.6		P
COBALT, SPLP		2600		2640		1.4		P
COPPER, SPLP		1360		1380		1.9		P
IRON, SPLP		6870		6900		0.5		P
LEAD, SPLP		528		539		2.1		P
MAGNESIUM, SPLP		26000		26200		0.9		P
MANGANESE, SPLP		2590		2620		1.1		P
MERCURY, SPLP		0.936		0.992		5.8		CV
NICKEL, SPLP		2640		2680		1.5		P
POTASSIUM, SPLP		51600		51400		0.2		P
SELENIUM, SPLP		495		518		4.7		P
SILVER, SPLP		253		255		0.9		P
SODIUM, SPLP		40200		40400		0.6		P
THALLIUM, SPLP		524		532		1.3		P
VANADIUM, SPLP		2600		2650		1.7		P
ZINC, SPLP		2590		2630		1.6		P

Comments:

DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBD

Matrix: SOIL **SDG Name:** SI3862

Percent Solids: 92.6 **Lab Sample ID:** SI3862-001D

Concentration Units : mg/Kg drywt

Analyte	Control Limits	Sample Result	C	Duplicate Result	C	RPD	Q	M
ALUMINUM, TOTAL		1472.2020		848.5941		53.7	*	MS
ANTIMONY, TOTAL		0.0181	J	0.0123	U	200.0		MS
ARSENIC, TOTAL		2.3382		1.6776		32.9	*	MS
BARIUM, TOTAL		6.0707		3.7691		46.8	*	MS
BERYLLIUM, TOTAL		0.0483	J	0.0333	J	36.8		MS
CADMIUM, TOTAL		0.0066	J	0.0022	U	200.0		MS
CALCIUM, TOTAL		66.3209		42.1294		44.6	*	MS
CHROMIUM, TOTAL		2.4091		2.2834		5.4		MS
COBALT, TOTAL		0.6419		0.3833		50.4	*	MS
COPPER, TOTAL		2.7734		2.0379		30.6	*	MS
IRON, TOTAL		3089.7530		2437.4235		23.6	*	MS
LEAD, TOTAL		2.6467		1.7364		41.5	*	MS
MAGNESIUM, TOTAL		32.7253		17.6072		60.1	*	MS
MANGANESE, TOTAL		11.3755		10.3790		9.2		MS
NICKEL, TOTAL		2.1463		2.1215		1.2		MS
POTASSIUM, TOTAL		168.8920		82.3354	J	68.9	*	MS
SELENIUM, TOTAL		0.2015	J	0.0983	J	68.8		MS
SILVER, TOTAL		0.0056	U	0.0036	U			MS
SODIUM, TOTAL		15.8013	J	11.0970	J	35.0		MS
THALLIUM, TOTAL		0.0234	J	0.0119	J	65.2		MS
VANADIUM, TOTAL		19.1304		17.9293		6.5		MS
ZINC, TOTAL		2.1628		1.4874		37.0	*	MS

Comments:

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSOIF05IMS2

Matrix: SOIL **SDG Name:** SI3862

QC Batch ID: IF05IMS2

Concentration Units : mg/Kg drywt

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	200	209	104.4	80	120
ANTIMONY	10.0	9.83	98.3	80	120
ARSENIC	10.0	10.0	100.3	80	120
BARIUM	200	201	100.7	80	120
BERYLLIUM	5.00	4.78	95.6	80	120
CADMIUM	25.0	24.0	96.0	80	120
CALCIUM	250	232	92.9	80	120
CHROMIUM	20.0	20.3	101.6	80	120
COBALT	50.0	56.6	113.2	80	120
COPPER	25.0	25.8	103.2	80	120
IRON	100	106	105.7	80	120
LEAD	10.0	9.82	98.2	80	120
MAGNESIUM	500	529	105.8	80	120
MANGANESE	50.0	52.4	104.9	80	120
NICKEL	50.0	53.2	106.3	80	120
POTASSIUM	1000	1020	101.6	80	120
SELENIUM	10.0	9.53	95.3	80	120
SILVER	5.00	4.62	92.4	80	120
SODIUM	750	760	101.4	80	120
THALLIUM	10.0	9.91	99.1	80	120
VANADIUM	50.0	56.6	113.2	80	120
ZINC	50.0	48.7	97.4	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSOIF08HGS1

Matrix: SOIL **SDG Name:** SI3862

QC Batch ID: IF08HGS1

Concentration Units : mg/Kg drywt

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	0.833	0.922	110.8	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIF08ICW3

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF08ICW3

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	2000	2050	102.6	80	120
ANTIMONY	100	106	105.5	80	120
ARSENIC	100	104	104.5	80	120
BARIUM	2000	2080	104.3	80	120
BERYLLIUM	50.0	53.4	106.9	80	120
CADMIUM	250	266	106.6	80	120
CALCIUM	2500	2510	100.5	80	120
CHROMIUM	200	217	108.6	80	120
COBALT	500	545	108.9	80	120
COPPER	250	270	108.1	80	120
IRON	1000	1140	114.2	80	120
LEAD	100	107	106.8	80	120
MAGNESIUM	5000	5230	104.7	80	120
MANGANESE	500	530	106.1	80	120
NICKEL	500	541	108.3	80	120
POTASSIUM	10000	10200	102.1	80	120
SELENIUM	100	102	101.8	80	120
SILVER	50.0	51.8	103.7	80	120
SODIUM	7500	7570	101.0	80	120
THALLIUM	100	109	109.4	80	120
VANADIUM	500	532	106.4	80	120
ZINC	500	539	107.8	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIF08IMW2

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF08IMW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	2000	2140	106.9	80	120
ANTIMONY	100	100	100.4	80	120
ARSENIC	100	98.8	98.8	80	120
BARIUM	2000	2080	104.0	80	120
BERYLLIUM	50.0	47.4	94.9	80	120
CADMIUM	250	250	100.2	80	120
CALCIUM	2500	2390	95.5	80	120
CHROMIUM	200	211	105.4	80	120
COBALT	500	549	109.8	80	120
COPPER	250	264	105.8	80	120
IRON	1000	1100	109.9	80	120
LEAD	100	104	104.3	80	120
MAGNESIUM	5000	5320	106.5	80	120
MANGANESE	500	546	109.2	80	120
NICKEL	500	520	104.0	80	120
POTASSIUM	10000	10400	103.6	80	120
SELENIUM	100	100	100.0	80	120
SILVER	50.0	48.5	97.0	80	120
SODIUM	7500	7600	101.4	80	120
THALLIUM	100	103	102.8	80	120
VANADIUM	500	544	108.8	80	120
ZINC	500	510	101.9	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIF10HGW2

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF10HGW2

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	5.10	102.0	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIF10HGW3

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF10HGW3

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.00	4.20	84.0	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWIF19ICW1

Matrix: WATER **SDG Name:** SI3862

QC Batch ID: IF19ICW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	2000	2190	109.5	80	120
ANTIMONY	100	105	105.3	80	120
ARSENIC	100	95.4	95.4	80	120
BARIUM	2000	2120	106.2	80	120
BERYLLIUM	50.0	52.5	105.0	80	120
CADMIUM	250	255	102.0	80	120
CALCIUM	2500	2630	105.1	80	120
CHROMIUM	200	206	103.0	80	120
COBALT	500	551	110.2	80	120
COPPER	250	257	102.7	80	120
IRON	1000	1110	110.9	80	120
LEAD	100	109	109.2	80	120
MAGNESIUM	5000	5450	109.0	80	120
MANGANESE	500	510	102.1	80	120
NICKEL	500	557	111.4	80	120
POTASSIUM	10000	10300	103.1	80	120
SELENIUM	100	102	102.4	80	120
SILVER	50.0	48.3	96.5	80	120
SODIUM	7500	8210	109.5	80	120
THALLIUM	100	111	110.9	80	120
VANADIUM	500	495	99.0	80	120
ZINC	500	537	107.3	80	120

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBL

Matrix: SOIL **SDG Name:** SI3862

Lab Sample ID: SI3862-001L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ALUMINUM, TOTAL	3380		3430		1.5		MS
ANTIMONY, TOTAL	0.041	J	0.20	U	100.0		MS
ARSENIC, TOTAL	5.37		6.0		11.7		MS
BARIUM, TOTAL	13.9		13.8		0.7		MS
BERYLLIUM, TOTAL	0.111	J	0.13	J	17.1		MS
CADMIUM, TOTAL	0.015	J	0.075	U	100.0		MS
CALCIUM, TOTAL	152		180		18.4		MS
CHROMIUM, TOTAL	5.54		5.43		2.0		MS
COBALT, TOTAL	1.48		1.47		0.7		MS
COPPER, TOTAL	6.37		6.7		5.2		MS
IRON, TOTAL	7100		6740		5.1		MS
LEAD, TOTAL	6.08		6.14		1.0		MS
MAGNESIUM, TOTAL	75.2		80	J	6.4		MS
MANGANESE, TOTAL	26.1		26.3		0.8		MS
MERCURY, TOTAL	0.031	U	0.16	U			CV
NICKEL, TOTAL	4.93		4.98		1.0		MS
POTASSIUM, TOTAL	388		410	J	5.7		MS
SELENIUM, TOTAL	0.46	J	0.92	J	100.0		MS
SILVER, TOTAL	0.013	U	0.065	U			MS
SODIUM, TOTAL	36	J	42	J	16.7		MS
THALLIUM, TOTAL	0.054	J	0.095	U	100.0		MS
VANADIUM, TOTAL	44.0		43.5		1.1		MS
ZINC, TOTAL	4.97		5.8	J	16.7		MS

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services **Client Field ID:** SITE4TS-FBL

Matrix: WATER **SDG Name:** SI3862

Lab Sample ID: SI3862-006L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ALUMINUM, SPLP	36	J	75.	U	100.0		P
ANTIMONY, SPLP	1.3	U	16	J			P
ARSENIC, SPLP	1.4	U	7.0	U			P
BARIUM, SPLP	25.2		64.1		154.4		P
BERYLLIUM, SPLP	0.10	U	0.50	U			P
CADMIUM, SPLP	0.049	U	0.25	U			P
CALCIUM, SPLP	64	J	240	J	275.0		P
CHROMIUM, SPLP	0.36	U	3.4	J			P
COBALT, SPLP	0.36	J	1.2	U	100.0		P
COPPER, SPLP	0.63	U	4.2	J			P
IRON, SPLP	34	J	100	J	194.1		P
LEAD, SPLP	1.1	U	5.5	U			P
MAGNESIUM, SPLP	21	J	95	J	352.4		P
MANGANESE, SPLP	2.9	J	7.0	J	141.4		P
MERCURY, SPLP	0.013	U	0.065	U			CV
NICKEL, SPLP	0.28	U	1.4	U			P
POTASSIUM, SPLP	41.	U	580	J			P
SELENIUM, SPLP	2.4	U	12.	U			P
SILVER, SPLP	0.27	U	1.4	U			P
SODIUM, SPLP	24.	U	1100	J			P
THALLIUM, SPLP	1.1	U	5.5	U			P
VANADIUM, SPLP	0.23	U	1.2	U			P
ZINC, SPLP	8.31	J	22	J	164.7		P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 4/13/2015

Concentration Units: ug/L

Analyte	CRDL	IDL	M
MERCURY	0.20	0.023	CV

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 4/13/2015

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	24.	P
ANTIMONY	0.20	1.8	P
ARSENIC	1.0	2.4	P
BARIUM	0.40	0.50	P
BERYLLIUM	0.20	0.13	P
CADMIUM	0.20	0.078	P
CALCIUM	100	9.7	P
CHROMIUM	1.0	0.31	P
COBALT	0.20	0.25	P
COPPER	0.60	0.47	P
IRON	100	5.2	P
LEAD	0.20	1.2	P
MAGNESIUM	100	5.2	P
MANGANESE	0.40	1.1	P
MOLYBDENUM	1.0	1.2	P
NICKEL	0.40	0.42	P
POTASSIUM	1000	45.	P
SELENIUM	1.0	2.8	P
SILVER	0.20	0.41	P
SODIUM	1000	40.	P
THALLIUM	0.20	1.5	P
VANADIUM	1.0	0.25	P
ZINC	2.0	0.51	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 4/13/2015

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	0.38	MS
ANTIMONY	0.20	0.0058	MS
ARSENIC	1.0	0.22	MS
BARIUM	0.40	0.037	MS
BERYLLIUM	0.20	0.0027	MS
CADMIUM	0.20	0.0031	MS
CALCIUM	100	4.8	MS
CHROMIUM	1.0	0.043	MS
COBALT	0.20	0.0087	MS
COPPER	0.60	0.028	MS
IRON	100	6.3	MS
LEAD	0.20	0.0096	MS
MAGNESIUM	100	1.2	MS
MANGANESE	0.40	0.031	MS
MOLYBDENUM	1.0	0.012	MS
NICKEL	0.40	0.014	MS
POTASSIUM	1000	5.3	MS
SELENIUM	1.0	0.23	MS
SILVER	0.20	0.0039	MS
SODIUM	1000	7.1	MS
THALLIUM	0.20	0.0065	MS
VANADIUM	1.0	0.11	MS
ZINC	2.0	0.12	MS

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 1/7/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.017	mg/Kg	CV	SW846 7471B / SW846 7471B

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LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.10	ug/L	CV	SW846 7470A / SW846 7470A

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ALUMINUM	100.	ug/L	P	SW846 3010A / SW846 6010C
ANTIMONY	5.0	ug/L	P	SW846 3010A / SW846 6010C
ARSENIC	5.0	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
BERYLLIUM	0.50	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	3.0	ug/L	P	SW846 3010A / SW846 6010C
CALCIUM	80.	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	4.0	ug/L	P	SW846 3010A / SW846 6010C
COBALT	4.0	ug/L	P	SW846 3010A / SW846 6010C
COPPER	10.	ug/L	P	SW846 3010A / SW846 6010C
IRON	80.	ug/L	P	SW846 3010A / SW846 6010C
LEAD	4.0	ug/L	P	SW846 3010A / SW846 6010C
MAGNESIUM	80.	ug/L	P	SW846 3010A / SW846 6010C
MANGANESE	4.0	ug/L	P	SW846 3010A / SW846 6010C
NICKEL	4.0	ug/L	P	SW846 3010A / SW846 6010C
POTASSIUM	500.	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	7.0	ug/L	P	SW846 3010A / SW846 6010C
SILVER	4.0	ug/L	P	SW846 3010A / SW846 6010C
SODIUM	500.	ug/L	P	SW846 3010A / SW846 6010C
THALLIUM	5.0	ug/L	P	SW846 3010A / SW846 6010C
VANADIUM	4.0	ug/L	P	SW846 3010A / SW846 6010C
ZINC	10.	ug/L	P	SW846 3010A / SW846 6010C

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 1/25/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ALUMINUM	8.0	ug/L	MS	SW846 3010A / SW846 6020A
ANTIMONY	0.10	ug/L	MS	SW846 3010A / SW846 6020A
ARSENIC	0.80	ug/L	MS	SW846 3010A / SW846 6020A
BARIUM	0.20	ug/L	MS	SW846 3010A / SW846 6020A
BERYLLIUM	0.040	ug/L	MS	SW846 3010A / SW846 6020A
CADMIUM	0.040	ug/L	MS	SW846 3010A / SW846 6020A
CALCIUM	16.	ug/L	MS	SW846 3010A / SW846 6020A
CHROMIUM	0.80	ug/L	MS	SW846 3010A / SW846 6020A
COBALT	0.060	ug/L	MS	SW846 3010A / SW846 6020A
COPPER	0.40	ug/L	MS	SW846 3010A / SW846 6020A
IRON	12.	ug/L	MS	SW846 3010A / SW846 6020A
LEAD	0.10	ug/L	MS	SW846 3010A / SW846 6020A
MAGNESIUM	16.	ug/L	MS	SW846 3010A / SW846 6020A
MANGANESE	0.20	ug/L	MS	SW846 3010A / SW846 6020A
NICKEL	0.24	ug/L	MS	SW846 3010A / SW846 6020A
POTASSIUM	80.	ug/L	MS	SW846 3010A / SW846 6020A
SELENIUM	0.60	ug/L	MS	SW846 3010A / SW846 6020A
SILVER	0.080	ug/L	MS	SW846 3010A / SW846 6020A
SODIUM	80.	ug/L	MS	SW846 3010A / SW846 6020A
THALLIUM	0.080	ug/L	MS	SW846 3010A / SW846 6020A
VANADIUM	0.80	ug/L	MS	SW846 3010A / SW846 6020A
ZINC	1.6	ug/L	MS	SW846 3010A / SW846 6020A

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 1/26/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ALUMINUM	0.80	mg/kg	MS	SW846 3050B / SW846 6020A
ANTIMONY	0.010	mg/kg	MS	SW846 3050B / SW846 6020A
ARSENIC	0.080	mg/kg	MS	SW846 3050B / SW846 6020A
BARIUM	0.020	mg/kg	MS	SW846 3050B / SW846 6020A
BERYLLIUM	0.0040	mg/Kg	MS	SW846 3050B / SW846 6020A
CADMIUM	0.0040	mg/kg	MS	SW846 3050B / SW846 6020A
CALCIUM	1.6	mg/kg	MS	SW846 3050B / SW846 6020A
CHROMIUM	0.080	mg/kg	MS	SW846 3050B / SW846 6020A
COBALT	0.0060	mg/kg	MS	SW846 3050B / SW846 6020A
COPPER	0.040	mg/kg	MS	SW846 3050B / SW846 6020A
IRON	1.2	mg/kg	MS	SW846 3050B / SW846 6020A
LEAD	0.010	mg/Kg	MS	SW846 3050B / SW846 6020A
MAGNESIUM	1.6	mg/kg	MS	SW846 3050B / SW846 6020A
MANGANESE	0.020	mg/kg	MS	SW846 3050B / SW846 6020A
NICKEL	0.024	mg/kg	MS	SW846 3050B / SW846 6020A
POTASSIUM	8.0	mg/Kg	MS	SW846 3050B / SW846 6020A
SELENIUM	0.060	mg/kg	MS	SW846 3050B / SW846 6020A
SILVER	0.0080	mg/kg	MS	SW846 3050B / SW846 6020A
SODIUM	8.0	mg/kg	MS	SW846 3050B / SW846 6020A
THALLIUM	0.0080	mg/kg	MS	SW846 3050B / SW846 6020A
VANADIUM	0.080	mg/Kg	MS	SW846 3050B / SW846 6020A
ZINC	0.16	mg/kg	MS	SW846 3050B / SW846 6020A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 1/7/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.0052	mg/Kg	CV	SW846 7471B / SW846 7471B

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.013	ug/L	CV	SW846 7470A / SW846 7470A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ALUMINUM	15.	ug/L	P	SW846 3010A / SW846 6010C
ANTIMONY	1.3	ug/L	P	SW846 3010A / SW846 6010C
ARSENIC	1.4	ug/L	P	SW846 3010A / SW846 6010C
BARIUM	0.23	ug/L	P	SW846 3010A / SW846 6010C
BERYLLIUM	0.10	ug/L	P	SW846 3010A / SW846 6010C
CADMIUM	0.049	ug/L	P	SW846 3010A / SW846 6010C
CALCIUM	11.	ug/L	P	SW846 3010A / SW846 6010C
CHROMIUM	0.36	ug/L	P	SW846 3010A / SW846 6010C
COBALT	0.24	ug/L	P	SW846 3010A / SW846 6010C
COPPER	0.63	ug/L	P	SW846 3010A / SW846 6010C
IRON	5.4	ug/L	P	SW846 3010A / SW846 6010C
LEAD	1.1	ug/L	P	SW846 3010A / SW846 6010C
MAGNESIUM	7.8	ug/L	P	SW846 3010A / SW846 6010C
MANGANESE	1.1	ug/L	P	SW846 3010A / SW846 6010C
NICKEL	0.28	ug/L	P	SW846 3010A / SW846 6010C
POTASSIUM	41.	ug/L	P	SW846 3010A / SW846 6010C
SELENIUM	2.4	ug/L	P	SW846 3010A / SW846 6010C
SILVER	0.27	ug/L	P	SW846 3010A / SW846 6010C
SODIUM	24.	ug/L	P	SW846 3010A / SW846 6010C
THALLIUM	1.1	ug/L	P	SW846 3010A / SW846 6010C
VANADIUM	0.23	ug/L	P	SW846 3010A / SW846 6010C
ZINC	0.72	ug/L	P	SW846 3010A / SW846 6010C

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 1/25/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ALUMINUM	0.88	ug/L	MS	SW846 3010A / SW846 6020A
ANTIMONY	0.011	ug/L	MS	SW846 3010A / SW846 6020A
ARSENIC	0.45	ug/L	MS	SW846 3010A / SW846 6020A
BARIUM	0.054	ug/L	MS	SW846 3010A / SW846 6020A
BERYLLIUM	0.0067	ug/L	MS	SW846 3010A / SW846 6020A
CADMIUM	0.0060	ug/L	MS	SW846 3010A / SW846 6020A
CALCIUM	4.1	ug/L	MS	SW846 3010A / SW846 6020A
CHROMIUM	0.044	ug/L	MS	SW846 3010A / SW846 6020A
COBALT	0.012	ug/L	MS	SW846 3010A / SW846 6020A
COPPER	0.037	ug/L	MS	SW846 3010A / SW846 6020A
IRON	2.6	ug/L	MS	SW846 3010A / SW846 6020A
LEAD	0.015	ug/L	MS	SW846 3010A / SW846 6020A
MAGNESIUM	1.6	ug/L	MS	SW846 3010A / SW846 6020A
MANGANESE	0.070	ug/L	MS	SW846 3010A / SW846 6020A
NICKEL	0.030	ug/L	MS	SW846 3010A / SW846 6020A
POTASSIUM	6.1	ug/L	MS	SW846 3010A / SW846 6020A
SELENIUM	0.037	ug/L	MS	SW846 3010A / SW846 6020A
SILVER	0.010	ug/L	MS	SW846 3010A / SW846 6020A
SODIUM	3.7	ug/L	MS	SW846 3010A / SW846 6020A
THALLIUM	0.012	ug/L	MS	SW846 3010A / SW846 6020A
VANADIUM	0.10	ug/L	MS	SW846 3010A / SW846 6020A
ZINC	0.78	ug/L	MS	SW846 3010A / SW846 6020A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 1/26/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ALUMINUM	0.10	mg/kg	MS	SW846 3050B / SW846 6020A
ANTIMONY	0.0040	mg/kg	MS	SW846 3050B / SW846 6020A
ARSENIC	0.030	mg/kg	MS	SW846 3050B / SW846 6020A
BARIUM	0.0073	mg/kg	MS	SW846 3050B / SW846 6020A
BERYLLIUM	0.00081	mg/kg	MS	SW846 3050B / SW846 6020A
CADMIUM	0.0015	mg/kg	MS	SW846 3050B / SW846 6020A
CALCIUM	0.77	mg/kg	MS	SW846 3050B / SW846 6020A
CHROMIUM	0.0098	mg/kg	MS	SW846 3050B / SW846 6020A
COBALT	0.0011	mg/kg	MS	SW846 3050B / SW846 6020A
COPPER	0.014	mg/kg	MS	SW846 3050B / SW846 6020A
IRON	0.48	mg/kg	MS	SW846 3050B / SW846 6020A
LEAD	0.0014	mg/kg	MS	SW846 3050B / SW846 6020A
MAGNESIUM	0.27	mg/kg	MS	SW846 3050B / SW846 6020A
MANGANESE	0.0084	mg/kg	MS	SW846 3050B / SW846 6020A
NICKEL	0.0053	mg/kg	MS	SW846 3050B / SW846 6020A
POTASSIUM	0.91	mg/kg	MS	SW846 3050B / SW846 6020A
SELENIUM	0.0078	mg/kg	MS	SW846 3050B / SW846 6020A
SILVER	0.0013	mg/kg	MS	SW846 3050B / SW846 6020A
SODIUM	0.51	mg/kg	MS	SW846 3050B / SW846 6020A
THALLIUM	0.0019	mg/kg	MS	SW846 3050B / SW846 6020A
VANADIUM	0.022	mg/kg	MS	SW846 3050B / SW846 6020A
ZINC	0.026	mg/kg	MS	SW846 3050B / SW846 6020A

ICP INTERELEMENT CORRECTION FACTORS

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument Name: THERMO ICAP 6500 **Instrument ID:** I **Date:** 1/8/2015

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	As	Cr	Co	Cu	Mn	Mo	Ni	Ti	V
ALUMINUM	396.15	0.0	0.0003680	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0300000	0.0	0.0	0.0
ANTIMONY	206.83	0.0000250	0.0	0.0000520	0.0	-0.0001350	0.0078600	0.0	0.0	0.0	-0.0018800	-0.0009470	0.0	-0.0017400
ARSENIC	189.04	0.0000120	0.0	-0.0001310	0.0	0.0	0.0006100	0.0	0.0	0.0	0.0020700	0.0	0.0	0.0
BARIUM	455.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BERYLLIUM	313.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0007160	0.0000820
BORON	208.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0296000	0.0	0.0	0.0
CADMIUM	226.50	0.0	0.0	0.0000630	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0000800	0.0000260	0.0
CALCIUM	315.89	0.0	0.0	0.0	0.0	0.0	0.0008850	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIUM	267.72	0.0	0.0	0.0000070	0.0	0.0	0.0	0.0	0.0	0.0001110	0.0	0.0	0.0	0.0000720
COBALT	228.62	0.0	0.0	0.0	0.0	0.0	-0.0000420	0.0	0.0	0.0	0.0	0.0000640	0.0027000	0.0
COPPER	327.40	0.0000110	0.0	-0.0000060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0005550	0.0003110
GOLD	242.79	0.0	0.0	0.0001410	0.0	0.0	0.0	0.0	0.0	-0.0019000	0.0	0.0	0.0	0.0
IRON	259.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEAD	220.35	-0.0001240	0.0	0.0000190	0.0	0.0	-0.0005800	0.0000540	0.0001360	0.0	-0.0005810	0.0002080	0.0000970	0.0
LITHIUM	670.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAGNESIUM	202.58	0.0	0.0	0.0000370	0.0	0.0	0.0	0.2003000	0.0	0.0	0.0277000	0.0	0.0002000	0.0
MANGANESE	257.61	-0.0000010	0.0	0.0000150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOLYBDENUM	202.03	0.0	0.0	0.0	0.0	0.0	0.0001080	0.0	0.0	0.0000070	0.0	0.0	0.0	-0.0001920
NICKEL	231.60	0.0	0.0	-0.0000380	0.0	0.0	0.0	0.0001270	0.0	0.0	0.0008690	0.0	0.0	0.0
POTASSIUM	766.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SELENIUM	196.09	0.0000230	0.0	-0.0000020	0.0	-0.0000500	0.0	0.0000900	0.0	0.0004850	0.0	0.0	0.0	-0.0002080
SILICON	251.61	0.0	0.0	-0.0000080	0.0	0.0	0.0	0.0	0.0	0.0	0.0097100	0.0	0.0009940	0.0
SILVER	328.07	0.0	0.0	-0.0002370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0002840	0.0
SODIUM	589.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STRONTIUM	421.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
THALLIUM	190.86	-0.0000020	0.0	0.0000020	0.0	0.0	0.0	0.0018400	0.0000120	-0.0021900	-0.0000380	0.0	-0.0010500	-0.0093600
TIN	189.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TITANIUM	334.90	0.0	0.0	0.0	0.0	0.0	0.0001290	0.0	0.0	0.0	0.0010500	0.0	0.0	0.0
VANADIUM	292.40	0.0	0.0	0.0000210	0.0	0.0	-0.0041100	0.0	0.0	-0.0003220	-0.0062800	0.0	0.0010900	0.0
ZINC	206.20	0.0	0.0	0.0	0.0	0.0	-0.0011400	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FORM XI - IN

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 4/6/2015

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	5.00	500000	P
ANTIMONY	45.00	20000	P
ARSENIC	45.00	20000	P
BARIUM	5.00	20000	P
BERYLLIUM	5.00	20000	P
CADMIUM	45.00	20000	P
CALCIUM	5.00	500000	P
CHROMIUM	10.00	20000	P
COBALT	45.00	20000	P
COPPER	10.00	20000	P
IRON	5.00	250000	P
LEAD	45.00	20000	P
MAGNESIUM	45.00	200000	P
MANGANESE	5.00	20000	P
MOLYBDENUM	45.00	5000	P
NICKEL	10.00	20000	P
POTASSIUM	5.00	300000	P
SELENIUM	45.00	20000	P
SILVER	10.00	2000	P
SODIUM	5.00	200000	P
THALLIUM	45.00	20000	P
VANADIUM	10.00	20000	P
ZINC	45.00	20000	P

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** J

Instrument Name: AGILENT 7500 ICP-MS **Date:** 4/7/2015

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	0.01	200000	MS
ANTIMONY	0.10	1000	MS
ARSENIC	0.30	1000	MS
BARIUM	0.10	2000	MS
BERYLLIUM	0.30	100	MS
CADMIUM	0.10	1000	MS
CALCIUM	0.03	200000	MS
CHROMIUM	0.10	1000	MS
COBALT	0.10	1000	MS
COPPER	0.10	2000	MS
IRON	0.03	100000	MS
LEAD	0.10	2000	MS
MAGNESIUM	0.05	200000	MS
MANGANESE	0.10	2000	MS
MOLYBDENUM	0.10	1000	MS
NICKEL	0.10	1000	MS
POTASSIUM	0.01	200000	MS
SELENIUM	0.30	1000	MS
SILVER	0.10	100	MS
SODIUM	0.01	200000	MS
THALLIUM	0.10	1000	MS
VANADIUM	0.10	1000	MS
ZINC	0.10	2000	MS

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IF05IMS2

Matrix: SOIL **SDG Name:** SI3862

Method: MS **Prep Date:** 06/05/2015

Client ID	Lab Sample ID	Initial (g)	Final (L)	Bottle ID
LCSOIF05IMS2	LCSOIF05IMS2	1	0.1	
PBSIF05IMS2	PBSIF05IMS2	1	0.1	
SITE4TS-FB	SI3862-001	1.24	0.1	F
SITE4TS-FBD	SI3862-001D	1.24	0.1	F
SITE4TS-FBS	SI3862-001S	1.25	0.1	F
SITE4TS-XX	SI3862-002	1.77	0.1	F

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IF08HGS1

Matrix: SOIL **SDG Name:** SI3862

Method: CV **Prep Date:** 06/08/2015

Client ID	Lab Sample ID	Initial (g)	Final (L)	Bottle ID
LCSOIF08HGS1	LCSOIF08HGS1	0.6	0.1	
PBSIF08HGS1	PBSIF08HGS1	0.6	0.1	
SITE4TS-FB	SI3862-001	0.75	0.1	P
SITE4TS-FBP	SI3862-001P	0.75	0.1	P
SITE4TS-FBS	SI3862-001S	0.75	0.1	P
SITE4TS-XX	SI3862-002	0.71	0.1	E

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IF08ICW3

Matrix: WATER **SDG Name:** SI3862

Method: P **Prep Date:** 06/08/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIF08ICW3	LCSWIF08ICW3	0.05	0.05	
PBT1225D	PBT1225D	0.01	0.05	
PBWIF08ICW3	PBWIF08ICW3	0.05	0.05	
SITE4TS-FB	SI3862-006	0.01	0.05	P
SITE4TS-XX	SI3862-007	0.01	0.05	F

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IF08IMW2

Matrix: WATER **SDG Name:** SI3862

Method: MS **Prep Date:** 06/08/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIF08IMW2	LCSWIF08IMW2	0.05	0.05	
PBWIF08IMW2	PBWIF08IMW2	0.05	0.05	
SITE4TS-EB	SI3862-003	0.05	0.05	D

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IF10HGW2

Matrix: WATER **SDG Name:** SI3862

Method: CV **Prep Date:** 06/10/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIF10HGW2	LCSWIF10HGW2	0.025	0.025	
PBWIF10HGW2	PBWIF10HGW2	0.025	0.025	
SITE4TS-EB	SI3862-003	0.025	0.025	D
SITE4TS-FB	SI3862-006	0.025	0.025	P
SITE4TS-FBP	SI3862-006P	0.025	0.025	P
SITE4TS-FBS	SI3862-006S	0.025	0.025	P
SITE4TS-XX	SI3862-007	0.025	0.025	F

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IF10HGW3

Matrix: WATER **SDG Name:** SI3862

Method: CV **Prep Date:** 06/10/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIF10HGW3	LCSWIF10HGW3	0.025	0.025	
PBT1225D	PBT1225D	0.025	0.025	
PBWIF10HGW3	PBWIF10HGW3	0.025	0.025	

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** IF19ICW1

Matrix: WATER **SDG Name:** SI3862

Method: P **Prep Date:** 06/19/2015

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWIF19ICW1	LCSWIF19ICW1	0.05	0.05	
PBWIF19ICW1	PBWIF19ICW1	0.05	0.05	
SITE4TS-FBP	SI3862-006P	0.01	0.05	O
SITE4TS-FBS	SI3862-006S	0.01	0.05	O

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: CETAC M6100 **File Name:** HIF09A

Date: 6/9/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	15:06	Hg
Standard #1 (0.2 ppb		1	15:08	Hg
Standard #2 (0.5 ppb		1	15:10	Hg
Standard #3 (1.0 ppb		1	15:13	Hg
Standard #4 (5.0 ppb		1	15:15	Hg
Standard #5 (10.0 pp		1	15:17	Hg
ICV		1	15:19	HG
ICB		1	15:21	HG
PQL		1	15:23	HG
CCV		1	15:25	HG
CCB		1	15:27	HG
LCSOIF08HGS1		1	15:29	HG
PBSIF08HGS1		1	15:32	HG
SI3862-001	SITE4TS-FB	1	15:34	HG
SI3862-001A	SITE4TS-FBA	1	15:36	HG
SI3862-001L	SITE4TS-FBL	5	15:38	HG
SI3862-001P	SITE4TS-FBP	1	15:40	HG
SI3862-001S	SITE4TS-FBS	1	15:42	HG
SI3862-002	SITE4TS-XX	1	15:44	HG
ZZZZZZ		1	15:46	
CCV		1	15:49	HG
CCB		1	15:51	HG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: CETAC M6100 **File Name:** HIF10A

Date: 6/10/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	16:43	Hg
Standard #1 (0.2 ppb		1	16:45	Hg
Standard #2 (0.5 ppb		1	16:47	Hg
Standard #3 (1.0 ppb		1	16:49	Hg
Standard #4 (5.0 ppb		1	16:52	Hg
Standard #5 (10.0 pp		1	16:54	Hg
ICV		1	16:56	HG
ICB		1	16:58	HG
PQL		1	17:00	HG
CCV		1	17:02	HG
CCB		1	17:04	HG
LCSWIF10HGW3		1	17:38	HG
PBT1225D		1	17:40	HG
ZZZZZZ		1	17:42	
ZZZZZZ		1	17:45	
ZZZZZZ		1	17:47	
PBWIF10HGW3		1	17:49	HG
ZZZZZZ		1	17:51	
ZZZZZZ		1	17:53	
ZZZZZZ		5	17:55	
CCV		1	17:57	HG
CCB		1	17:59	HG
ZZZZZZ		1	18:01	
ZZZZZZ		1	18:04	
ZZZZZZ		1	18:06	
ZZZZZZ		1	18:08	
ZZZZZZ		1	18:10	

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: CETAC M6100 **File Name:** HIF10A

Date: 6/10/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	18:12	
ZZZZZZ		1	18:14	
ZZZZZZ		1	18:16	
ZZZZZZ		1	18:19	
ZZZZZZ		1	18:21	
CCV		1	18:23	HG
CCB		1	18:25	HG
ZZZZZZ		1	18:27	
ZZZZZZ		1	18:29	
ZZZZZZ		1	18:31	
ZZZZZZ		1	18:33	
ZZZZZZ		1	18:36	
ZZZZZZ		1	18:38	
ZZZZZZ		1	18:40	
ZZZZZZ		1	18:42	
ZZZZZZ		1	18:44	
ZZZZZZ		1	18:46	
CCV		1	18:48	HG
CCB		1	18:50	HG
ZZZZZZ		1	18:53	
LCSWIF10HGW2		1	18:55	HG
PBWIF10HGW2		1	18:57	HG
ZZZZZZ		1	18:59	
ZZZZZZ		1	19:01	
ZZZZZZ		1	19:03	
ZZZZZZ		1	19:06	
ZZZZZZ		1	19:08	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: CETAC M6100 **File Name:** HIF10A

Date: 6/10/2015 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	19:10	
ZZZZZZ		1	19:12	
CCV		1	19:14	HG
CCB		1	19:16	HG
SI3862-003	SITE4TS-EB	1	19:18	HG
SI3862-006	SITE4TS-FB	1	19:21	HG
SI3862-006A	SITE4TS-FBA	1	19:23	HG
SI3862-006L	SITE4TS-FBL	5	19:25	HG
SI3862-006P	SITE4TS-FBP	1	19:27	HG
SI3862-006S	SITE4TS-FBS	1	19:29	HG
SI3862-007	SITE4TS-XX	1	19:31	HG
ZZZZZZ		1	19:34	
ZZZZZZ		1	19:36	
ZZZZZZ		1	19:38	
CCV		1	19:40	HG
CCB		1	19:42	HG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF09B

Date: 6/9/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements																							
Blank		1	18:57	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
Std 1		1	19:02	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ICV		1	19:07	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ICB		1	19:14	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
PQL		1	19:19	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ZZZZZZ		1	19:26																								
ZZZZZZ		1	19:31																								
ICSA		1	19:40	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ICSAB		1	19:45	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
CCV		1	19:52	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
CCB		1	19:57	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ZZZZZZ		1	20:02																								
ZZZZZZ		1	20:07																								
ZZZZZZ		1	20:12																								
ZZZZZZ		1	20:17																								
ZZZZZZ		1	20:21																								
ZZZZZZ		1	20:27																								
ZZZZZZ		1	20:32																								
ZZZZZZ		5	20:37																								
ZZZZZZ		1	20:42																								
ZZZZZZ		1	20:47																								
CCV		1	20:52	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
CCB		1	20:57	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ZZZZZZ		1	21:02																								
ZZZZZZ		1	21:07																								
ZZZZZZ		10	21:12																								
ZZZZZZ		500	21:17																								

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF09B

Date: 6/9/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements																															
ZZZZZZ		1000	21:22																																
ZZZZZZ		500	21:27																																
ZZZZZZ		1000	21:32																																
ZZZZZZ		1	21:37																																
ZZZZZZ		1	21:43																																
ZZZZZZ		1	21:47																																
CCV		1	21:52	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
CCB		1	21:57	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
LCSWIF08ICW3		1	22:02	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
PBT1225D		1	22:08	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
PBWIF08ICW3		1	22:13	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
SI3862-006	SITE4TS-FB	1	22:18	AL		AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
SI3862-007	SITE4TS-XX	1	22:23	AL		AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
ZZZZZZ		1	22:28																																
ZZZZZZ		1	22:33																																
ZZZZZZ		1	22:38																																
ZZZZZZ		1	22:43																																
ZZZZZZ		1	22:48																																
CCV		1	22:53	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								
CCB		1	22:58	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL			V	ZN								

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF23A

Date: 6/23/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements																											
Blank		1	12:40	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
Std 1		1	12:45	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ICV		1	12:49	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ICB		1	12:56	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
PQL		1	13:01	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ZZZZZZ		1	13:08																							
ZZZZZZ		1	13:13																							
ICSA		1	13:22	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ICSAB		1	13:26	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
CCV		1	13:33	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
CCB		1	13:37	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ZZZZZZ		100	13:42																							
ZZZZZZ		1	13:47																							
ZZZZZZ		5	13:52																							
ZZZZZZ		5	13:57																							
ZZZZZZ		2	14:01																							
ZZZZZZ		1	14:06																							
ZZZZZZ		2	14:11																							
ZZZZZZ		2	14:16																							
ZZZZZZ		2	14:21																							
ZZZZZZ		1	14:26																							
CCV		1	14:31	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
CCB		1	14:36	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL		V	ZN
ZZZZZZ		1	14:41																							
ZZZZZZ		1	14:46																							
ZZZZZZ		2	14:51																							
ZZZZZZ		1	14:56																							

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF23A

Date: 6/23/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements																											
LCSWIF19ICW1		1	15:01	AL	SB		BA			CA	CR	CO	CU	FE	PB	MG		NI			AG	NA		TL			V	ZN			
PBWIF19ICW1		1	15:06	AL	SB		BA			CA	CR	CO	CU	FE	PB	MG		NI			AG	NA		TL			V	ZN			
ZZZZZZ		1	15:11																												
SI3862-006P	SITE4TS-FBP	1	15:15	AL	SB	AS	BA			CA	CR	CO	CU	FE	PB	MG		NI			AG	NA		TL			V	ZN			
SI3862-006S	SITE4TS-FBS	1	15:20	AL	SB	AS	BA			CA	CR	CO	CU	FE	PB	MG		NI			AG	NA		TL			V	ZN			
SI3862-006	SITE4TS-FB	1	15:25		SB																										
CCV		1	15:30	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA		TL			V	ZN			
CCB		1	15:35	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA		TL			V	ZN			
SI3862-006A	SITE4TS-FBA	1	15:40	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA		TL			V	ZN			
SI3862-006L	SITE4TS-FBL	5	15:45	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA		TL			V	ZN			
SI3862-007	SITE4TS-XX	1	15:50		SB																										
ZZZZZZ		1	15:55																												
ZZZZZZ		1	15:59																												
ZZZZZZ		1000	16:04																												
CCV		1	16:09	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA		TL			V	ZN			
CCB		1	16:14	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA		TL			V	ZN			

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF24A

Date: 6/24/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
Blank		1	10:19	AL	AS	BE	CA	FE	MG MN	K
Std 1		1	10:23	AL	AS	BE	CA	FE	MG MN	K
ICV		1	10:28	AL	AS	BE	CA	FE	MG MN	K
ICB		1	10:35	AL	AS	BE	CA	FE	MG MN	K
PQL		1	10:40	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		1	10:49							
ZZZZZZ		1	10:54							
ICSA		1	11:02	AL	AS	BE	CA	FE	MG MN	K
ICSAB		1	11:07	AL	AS	BE	CA	FE	MG MN	K
CCV		1	11:13	AL	AS	BE	CA	FE	MG MN	K
CCB		1	11:18	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		1	11:23							
ZZZZZZ		1	11:28							
ZZZZZZ		2	11:33							
ZZZZZZ		2	11:38							
ZZZZZZ		2	11:43							
ZZZZZZ		2	11:48							
ZZZZZZ		5	11:53							
ZZZZZZ		1	11:58							
ZZZZZZ		1	12:02							
ZZZZZZ		1	12:07							
CCV		1	12:12	AL	AS	BE	CA	FE	MG MN	K
CCB		1	12:17	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		2	12:22							
ZZZZZZ		1	12:27							
ZZZZZZ		1	12:32							
ZZZZZZ		2	12:37							

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF24A

Date: 6/24/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
ZZZZZZ		1	12:42							
ZZZZZZ		25	12:47							
ZZZZZZ		25	12:52							
ZZZZZZ		2	12:57							
ZZZZZZ		25	13:02							
ZZZZZZ		10	13:07							
CCV		1	13:12	AL	AS	BE	CA	FE	MG MN	K
CCB		1	13:17	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		25	13:22							
ZZZZZZ		2	13:27							
ZZZZZZ		1	13:32							
ZZZZZZ		2	13:37							
ZZZZZZ		5	13:42							
ZZZZZZ		1	13:47							
ZZZZZZ		1	13:52							
ZZZZZZ		1	13:56							
ZZZZZZ		1	14:01							
ZZZZZZ		1	14:06							
CCV		1	14:11	AL	AS	BE	CA	FE	MG MN	K
CCB		1	14:16	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		1	14:21							
ZZZZZZ		5	14:26							
ZZZZZZ		1	14:31							
ZZZZZZ		1	14:36							
ZZZZZZ		2	14:40							
ZZZZZZ		2	14:45							
ZZZZZZ		1	14:50							

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF24A

Date: 6/24/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
ZZZZZZ		1	14:55							
ZZZZZZ		1	15:00							
ZZZZZZ		2	15:05							
CCV		1	15:10	AL	AS	BE	CA	FE	MG MN	K
CCB		1	15:15	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		2	15:20							
ZZZZZZ		1	15:25							
ZZZZZZ		1	15:30							
ZZZZZZ		1	15:35							
ZZZZZZ		5	15:40							
ZZZZZZ		1	15:45							
ZZZZZZ		1	15:50							
ZZZZZZ		1	15:55							
ZZZZZZ		1	16:00							
ZZZZZZ		10	16:05							
CCV		1	16:10	AL	AS	BE	CA	FE	MG MN	K
CCB		1	16:15	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		25	16:20							
ZZZZZZ		10	16:25							
ZZZZZZ		10	16:30							
ZZZZZZ		2	16:35							
ZZZZZZ		1	16:40							
ZZZZZZ		1	16:45							
ZZZZZZ		2	16:50							
ZZZZZZ		2	16:55							
ZZZZZZ		10	16:59							
ZZZZZZ		1	17:05							

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ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF24A

Date: 6/24/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
CCV		1	17:09	AL	AS	BE	CA	FE	MG MN	K
CCB		1	17:14	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		1	17:19							
ZZZZZZ		25	17:24							
ZZZZZZ		10	17:29							
ZZZZZZ		10	17:34							
ZZZZZZ		10	17:39							
ZZZZZZ		2	17:44							
ZZZZZZ		5	17:49							
ZZZZZZ		1	17:54							
ZZZZZZ		1	17:58							
ZZZZZZ		1	18:03							
CCV		1	18:08	AL	AS	BE	CA	FE	MG MN	K
CCB		1	18:13	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		2	18:18							
ZZZZZZ		1	18:23							
ZZZZZZ		1	18:28							
ZZZZZZ		2	18:33							
ZZZZZZ		1	18:37							
ZZZZZZ		25	18:42							
ZZZZZZ		25	18:47							
ZZZZZZ		2	18:52							
ZZZZZZ		25	18:57							
LCSWIF19ICW1		1	19:02		AS	BE			MN	K
CCV		1	19:07	AL	AS	BE	CA	FE	MG MN	K
CCB		1	19:12	AL	AS	BE	CA	FE	MG MN	K
ZZZZZZ		1	19:17							

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ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF24A

Date: 6/24/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements							
PBWIF19ICW1		1	19:22		AS				MN	K	
ZZZZZZ		1	19:27								
ZZZZZZ		1	19:32								
ZZZZZZ		5	19:37								
ZZZZZZ		2	19:42								
CCV		1	19:47	AL	AS	BE	CA	FE	MG MN	K	
CCB		1	19:51	AL	AS	BE	CA	FE	MG MN	K	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF25A

Date: 6/25/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
Blank		1	9:55	AL	BE	CA	FE	MG
Std 1		1	10:00	AL	BE	CA	FE	MG
ICV		1	10:04	AL	BE	CA	FE	MG
ICB		1	10:11	AL	BE	CA	FE	MG
PQL		1	10:16	AL	BE	CA	FE	MG
ZZZZZZ		1	10:24					
ZZZZZZ		1	10:29					
ICSA		1	10:37	AL	BE	CA	FE	MG
ICSAB		1	10:42	AL	BE	CA	FE	MG
CCV		1	10:48	AL	BE	CA	FE	MG
CCB		1	10:53	AL	BE	CA	FE	MG
CCV		1	10:58	AL	BE	CA	FE	MG
CCB		1	11:03	AL	BE	CA	FE	MG
ZZZZZZ		2	11:08					
ZZZZZZ		1	11:13					
ZZZZZZ		1	11:17					
ZZZZZZ		1	11:22					
ZZZZZZ		1	11:27					
ZZZZZZ		1	11:31					
ZZZZZZ		1	11:36					
ZZZZZZ		1	11:40					
CCV		1	11:45	AL	BE	CA	FE	MG
CCB		1	11:50	AL	BE	CA	FE	MG
ZZZZZZ		1	11:55					
ZZZZZZ		1	12:00					
ZZZZZZ		2	12:05					
ZZZZZZ		1	12:10					

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF25A

Date: 6/25/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
PBWIF19ICW1		1	12:15		BE			
ZZZZZZ		2	12:20					
ZZZZZZ		1	12:25					
ZZZZZZ		1	12:30					
ZZZZZZ		1	12:35					
ZZZZZZ		1	12:40					
CCV		1	12:45	AL	BE	CA	FE	MG
CCB		1	12:50	AL	BE	CA	FE	MG

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF25B

Date: 6/25/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
Blank		1	14:03	AL	BE	CD CA	FE	MG MN	K	SE
Std 1		1	14:08	AL	BE	CD CA	FE	MG MN	K	SE
ICV		1	14:13	AL	BE	CD CA	FE	MG MN	K	SE
ICB		1	14:20	AL	BE	CD CA	FE	MG MN	K	SE
PQL		1	14:25	AL	BE	CD CA	FE	MG MN	K	SE
ZZZZZZ		1	14:32							
ZZZZZZ		1	14:37							
ICSA		1	14:45	AL	BE	CD CA	FE	MG MN	K	SE
ICSAB		1	14:50	AL	BE	CD CA	FE	MG MN	K	SE
CCV		1	14:56	AL	BE	CD CA	FE	MG MN	K	SE
CCB		1	15:01	AL	BE	CD CA	FE	MG MN	K	SE
ZZZZZZ		1	15:06							
ZZZZZZ		1	15:11							
ZZZZZZ		1	15:16							
ZZZZZZ		1	15:21							
ZZZZZZ		1	15:25							
ZZZZZZ		1	15:30							
ZZZZZZ		1	15:35							
ZZZZZZ		1	15:40							
ZZZZZZ		1	15:45							
ZZZZZZ		1	15:50							
CCV		1	15:55	AL	BE	CD CA	FE	MG MN	K	SE
CCB		1	16:00	AL	BE	CD CA	FE	MG MN	K	SE
ZZZZZZ		1	16:05							
ZZZZZZ		1	16:10							
ZZZZZZ		1	16:15							
ZZZZZZ		1	16:20							

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ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF25B

Date: 6/25/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
ZZZZZZ		1	16:25							
ZZZZZZ		1	16:30							
ZZZZZZ		1	16:35							
ZZZZZZ		1	16:39							
ZZZZZZ		1	16:44							
ZZZZZZ		1	16:49							
CCV		1	16:54	AL	BE	CD CA	FE	MG MN	K	SE
CCB		1	16:59	AL	BE	CD CA	FE	MG MN	K	SE
ZZZZZZ		1	17:04							
ZZZZZZ		1	17:09							
ZZZZZZ		1	17:14							
ZZZZZZ		1	17:19							
ZZZZZZ		1	17:24							
ZZZZZZ		1	17:29							
ZZZZZZ		1	17:34							
ZZZZZZ		1	17:39							
ZZZZZZ		1	17:43							
ZZZZZZ		1	17:48							
CCV		1	17:53	AL	BE	CD CA	FE	MG MN	K	SE
CCB		1	17:58	AL	BE	CD CA	FE	MG MN	K	SE
LCSWIF19ICW1		1	18:03			CD				SE
ZZZZZZ		1	18:07							
ZZZZZZ		1	18:12							
PBWIF19ICW1		1	18:17			CD				SE
ZZZZZZ		1	18:22							
SI3862-006P	SITE4TS-FBP	1	18:27		BE	CD		MN	K	SE
SI3862-006S	SITE4TS-FBS	1	18:32		BE	CD		MN	K	SE

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ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: THERMO ICAP 6500 **File Name:** IIF25B

Date: 6/25/2015 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements							
ZZZZZZ		1	18:36								
ZZZZZZ		1	18:41								
ZZZZZZ		1	18:46								
CCV		1	18:51	AL	BE	CD CA	FE	MG MN	K	SE	
CCB		1	18:56	AL	BE	CD CA	FE	MG MN	K	SE	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF06A

Date: 6/6/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements																			
6020 Tune		1	10:20																				
200.8 Tune		1	10:23																				
Cal Blank		1	10:59	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
Cal Std 1		1	11:02	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
Cal Std 2		1	11:05	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
Cal Std 3		1	11:09	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
Cal Std 4		1	11:12	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
ICV		1	11:15	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
ICB		1	11:18	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
PQL		1	11:22	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
ZZZZZZ		1	11:25																				
ZZZZZZ		1	11:28																				
ZZZZZZ		1	11:31																				
ICSA		1	11:35	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
ICSAB		1	11:38	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
ZZZZZZ		1	11:42																				
CCV		1	11:45	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
CCB		1	11:49	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
ZZZZZZ		1	11:52																				
ZZZZZZ		1	11:55																				
ZZZZZZ		5	11:59																				
ZZZZZZ		1	12:02																				
ZZZZZZ		5	12:06																				
ZZZZZZ		5	12:09																				
ZZZZZZ		5	12:12																				
ZZZZZZ		1	12:15																				
ZZZZZZ		5	12:19																				

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF06A

Date: 6/6/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements																	
ZZZZZZ		1	12:22																		
CCV		1	12:25	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
CCB		1	12:29	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
ZZZZZZ		5	12:32																		
ZZZZZZ		5	12:36																		
ZZZZZZ		5	12:39																		
ZZZZZZ		1	12:42																		
ZZZZZZ		5	12:46																		
ZZZZZZ		1	12:49																		
ZZZZZZ		1	12:53																		
ZZZZZZ		1	12:56																		
ZZZZZZ		1	13:00																		
ZZZZZZ		5	13:03																		
CCV		1	13:06	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
CCB		1	13:10	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
ZZZZZZ		1	13:13																		
ZZZZZZ		1	13:17																		
ZZZZZZ		5	13:20																		
ZZZZZZ		5	13:23																		
ZZZZZZ		5	13:27																		
ZZZZZZ		1	13:30																		
ZZZZZZ		1	13:33																		
ZZZZZZ		1	13:37																		
ZZZZZZ		1	13:40																		
ZZZZZZ		1	13:44																		
CCV		1	13:47	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
CCB		1	13:50	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF06A

Date: 6/6/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements																	
ZZZZZZ		1	13:54																		
ZZZZZZ		1	13:57																		
ZZZZZZ		1	14:01																		
ZZZZZZ		1	14:04																		
ZZZZZZ		5	14:08																		
ZZZZZZ		5	14:11																		
ZZZZZZ		5	14:15																		
ZZZZZZ		5	14:18																		
ZZZZZZ		5	14:22																		
ZZZZZZ		5	14:25																		
CCV		1	14:29	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
CCB		1	14:32	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
ZZZZZZ		5	14:36																		
ZZZZZZ		5	14:39																		
ZZZZZZ		5	14:43																		
ZZZZZZ		5	14:46																		
ZZZZZZ		5	14:49																		
ZZZZZZ		5	14:53																		
ZZZZZZ		50	14:56																		
ZZZZZZ		250	15:00																		
ZZZZZZ		50	15:03																		
ZZZZZZ		50	15:07																		
CCV		1	15:10	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
CCB		1	15:13	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl	V
ZZZZZZ		1	15:17																		
ZZZZZZ		5	15:21																		
ZZZZZZ		1	15:24																		

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF06A

Date: 6/6/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements																			
ZZZZZZ		5	15:27																				
ZZZZZZ		5	15:31																				
ZZZZZZ		1	15:34																				
ZZZZZZ		1	15:38																				
ZZZZZZ		1	15:41																				
ZZZZZZ		1	15:45																				
ZZZZZZ		1	15:48																				
CCV		1	15:52	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
CCB		1	15:55	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
ZZZZZZ		5	15:59																				
ZZZZZZ		5	16:02																				
ZZZZZZ		1	16:05																				
ZZZZZZ		1	16:09																				
ZZZZZZ		1	16:12																				
PBSIF05IMS2		5	16:16		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
LCSOIF05IMS2		5	16:19		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
SI3862-001	SITE4TS-FB	5	16:23		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
SI3862-001L	SITE4TS-FBL	25	16:26		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
SI3862-001A	SITE4TS-FBA	5	16:30		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
CCV		1	16:33	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
CCB		1	16:36	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
SI3862-001D	SITE4TS-FBD	5	16:40		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
SI3862-001S	SITE4TS-FBS	5	16:43		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
SI3862-002	SITE4TS-XX	5	16:47		Sb	As	Ba	Cd		Co	Cu	Fe	Pb			Ni		Se	Ag		Tl		V
CCV		1	16:50	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V
CCB		1	16:54	Al	Sb	As	Ba	Cd	Ca	Co	Cu	Fe	Pb	Mg	Mo	Ni	K	Se	Ag	Na	Tl		V

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF08A

Date: 6/8/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements
6020 Tune		1	15:22	
200.8 Tune		1	15:25	
Cal Blank		1	16:00	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
Cal Std 1		1	16:03	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
Cal Std 2		1	16:06	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
Cal Std 3		1	16:09	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
Cal Std 4		1	16:12	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ICV		1	16:15	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ICB		1	16:19	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
PQL		1	16:22	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ZZZZZZ		1	16:25	
ZZZZZZ		1	16:28	
ZZZZZZ		1	16:31	
ICSA		1	16:34	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ICSAB		1	16:38	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ZZZZZZ		1	16:41	
CCV		1	16:45	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
CCB		1	16:48	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
PQL		1	16:51	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
CCV		1	16:54	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
CCB		1	16:57	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ZZZZZZ		5	17:01	
ZZZZZZ		1	17:04	
ZZZZZZ		1	17:07	
ZZZZZZ		1	17:11	
ZZZZZZ		1	17:14	
ZZZZZZ		1	17:17	

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF08A

Date: 6/8/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	17:20	
ZZZZZZ		1	17:24	
ZZZZZZ		1	17:27	
ZZZZZZ		1	17:30	
CCV		1	17:34	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
CCB		1	17:37	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ZZZZZZ		1	17:40	
ZZZZZZ		1	17:43	
ZZZZZZ		5	17:47	
ZZZZZZ		1	17:50	
ZZZZZZ		1	17:53	
ZZZZZZ		1	17:56	
ZZZZZZ		1	18:00	
ZZZZZZ		1	18:03	
ZZZZZZ		5	18:06	
ZZZZZZ		5	18:10	
CCV		1	18:13	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
CCB		1	18:16	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Na Tl V Zn
ZZZZZZ		5	18:20	
ZZZZZZ		5	18:23	
ZZZZZZ		5	18:26	
ZZZZZZ		5	18:30	
ZZZZZZ		5	18:33	
ZZZZZZ		5	18:36	
ZZZZZZ		5	18:40	
ZZZZZZ		5	18:43	
ZZZZZZ		1	18:46	

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF08A

Date: 6/8/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements																									
ZZZZZZ		5	18:50																										
CCV		1	18:53	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn		
CCB		1	18:56	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn		
ZZZZZZ		1	19:00																										
ZZZZZZ		1	19:03																										
ZZZZZZ		1	19:07																										
ZZZZZZ		1	19:10																										
ZZZZZZ		1	19:14																										
ZZZZZZ		1	19:17																										
ZZZZZZ		1	19:20																										
ZZZZZZ		5	19:24																										
ZZZZZZ		1	19:27																										
ZZZZZZ		1	19:31																										
CCV		1	19:34	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn		
CCB		1	19:37	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn		
ZZZZZZ		5	19:41																										
ZZZZZZ		5	19:44																										
ZZZZZZ		5	19:48																										
ZZZZZZ		1	19:51																										
ZZZZZZ		1	19:55																										
ZZZZZZ		1	19:58																										
ZZZZZZ		5	20:01																										
ZZZZZZ		5	20:05																										
ZZZZZZ		5	20:08																										
ZZZZZZ		5	20:12																										
CCV		1	20:15	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn		
CCB		1	20:19	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn		

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF08A

Date: 6/8/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements																							
ZZZZZZ		1	20:22																								
ZZZZZZ		5	20:26																								
ZZZZZZ		1	20:29																								
PBSIF05IMS2		5	20:32	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
LCSOIF05IMS2		5	20:36	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
SI3862-001	SITE4TS-FB	5	20:39	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
SI3862-001L	SITE4TS-FBL	25	20:42	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
SI3862-001A	SITE4TS-FBA	5	20:46	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
SI3862-001D	SITE4TS-FBD	5	20:49	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
SI3862-001S	SITE4TS-FBS	5	20:53	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
CCV		1	20:56	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn
CCB		1	20:59	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn
SI3862-002	SITE4TS-XX	5	21:03	Al			Be		Ca	Cr				Mg	Mn		K			Na							Zn
ZZZZZZ		1	21:06																								
ZZZZZZ		5	21:10																								
ZZZZZZ		1	21:13																								
ZZZZZZ		1	21:17																								
ZZZZZZ		1	21:20																								
ZZZZZZ		5	21:24																								
ZZZZZZ		5	21:27																								
ZZZZZZ		5	21:31																								
ZZZZZZ		100	21:34																								
CCV		1	21:38	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn
CCB		1	21:41	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn
ZZZZZZ		1	21:44																								
ZZZZZZ		1	21:48																								
ZZZZZZ		1	21:51																								

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** SI3862

Instrument ID: AGILENT 7500 ICP-MS **File Name:** JIF08A

Date: 6/8/2015 **Method:** MS

Lab Sample ID	Client ID	D.F.	Time	Elements																										
ZZZZZZ		1	21:55																											
ZZZZZZ		1	21:58																											
PBWIF08IMW2		5	22:02	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn		Ni	K	Se	Ag	Na	Tl		V	Zn
LCSWIF08IMW2		5	22:05	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn		Ni	K	Se	Ag	Na	Tl		V	Zn
SI3862-003	SITE4TS-EB	5	22:08	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn		Ni	K	Se	Ag	Na	Tl		V	Zn
CCV		1	22:12	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn
CCB		1	22:15	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl		V	Zn

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES, INC. — Non-Volatile TCLP/SPLP Extraction Log

I. EXTRACTION CONDITIONS

Extraction Method:	SW846 1311 (TCLP) ☐ / SW846 1312 (SPLP) ☑	Extractor ID: #2	Room Thermometer ID: DIG-23	(Room Temp Criteria. 23(±2)°C)
		Balance ID: BAL-06/15	pH Meter ID: Orion 520A s/n 7422	pH Probe ID: 7
Solid pH Determination:	Date: 06·05·15	GEJ 06.05.15	Analyst: GEJ	
Rotary Extraction Started:	Date: 06·05·15	Time: 15:50	Analyst: GEJ	Room Temp. (degrees °C): 18.1
Rotary Extraction Completed:	Date: 06-06-15	Time: 08:06	Analyst: EGM	Room Temp. (degrees °C): 17.8
Extraction Filtered:	Date: 06/06/15	Time: 15:05	Analyst: [illegible]	Filter Lot #: R5AA49484
Elapsed Extraction Time (HH:MM): 16:16		5% HNO_3 ID (used to wash filters): MR147		HNO_3 Lot # (used to preserve extracts): 104117
Fluid 1 pH (Day of use): 4.24 (1225)		Fluid 1 Expiration Date: 01·14·16		
Fluid 2 pH (Day of use):		Fluid 2 Expiration Date:		

II. EXTRACTION SETUP

TCLP Fluid pH: #1 - 4.93 ± 0.05 #2 - 2.88 ± 0.05 SPLP Fluid pH: #1 - 4.20 ± 0.05 #2 - 5.00 ± 0.05

Katahdin Sample No. (include bottle ID) EM 06291S	Matrix	Check One: 100% Wet Solids- waste will yield no liquid upon filtration	Check One: < 100% Wet Solids (Perform Solids Determination below)	SPLP FLUID # (1 for east and 2 for west of Mississippi River)	TCLP pH Determination and Fluid Selection (date & init. above): Initial pH of solid phase: (if <5, use Fluid #1; if >5 add 3.5 mL of 1 N HCl)	TCLP pH Determination and Fluid Selection (date & init. above): pH after 1 N HCL addition (if <5, use Fluid #1; if >5, use Fluid #2	Extraction Setup: Volume of Extraction Fluid (mL)	Extraction Setup: Fluid # used	Extraction Setup: Associated Extraction Blank ID: 2 EM 06191S	Extraction Setup: Weight of Waste (g)	pH of extract after extraction: 06054 GEJ	Extract to be analyzed for: Metals (M), SVOA (S), PEST (P), HERB (H), Cyanide (C)	Extraction Bottle ID (if applicable)
SI3862-X6	SL	✓		1	—	—	2000	—	PBT1225D	100.38	6.48	M, S	18
SI3862-X7	SL	✓		1	—	—	↓	—	↓	100.59	6.53	M, S	3
PBT1225D	Aq	—		1	—	—	↓	—	↓	—	6.59	M, S	1

ME-001 – Revision 4 – 07/05/2011

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 104736 **HCL:** 99513 **H2O2:** 403AP 423 **Method:** 3050H-MS

LCS / Spike **LCS/Spiking Information:**

- [x] [x] CLPP-SPK-1 (ID/Vol): MS1928 / 0.1 mL
- [x] [x] CLPP-SPK-INT1 (ID/Vol): MW15522 / 1.0 mL
- [x] [x] CLPP-SPK-INT2 (ID/Vol): MW15498 / 1.0 mL
- [ ] [ ] _____ Spike (ID/Vol): N/A / _____ mL
- [ ] [ ] CLPP-SPK-4 (ID/Vol): ↓ / _____ mL

LCSS: N/A Balance ID: BAL15

Hot Plate/Block ID: A

Start Time/Temp.: 10:26 / 95 °C

End Time/Temp.: 15:55 / 94 °C

Thermometer ID/Pos.: ALC 11 / 6.5

Filter Paper: 9627499A

REVIEWED
gm 06-06-15
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Texture	Final Color	Final Clarity	Artifacts	Bottle
LCSOIF05IMS2	IF05IMS2	1.0	g	0.10	L	SL	IM	TCS	06/05/2015	N/A	N/A	N/A	N/A		
PBSIF05IMS2	IF05IMS2	1.0	g		L	SL	IM	TCS	06/05/2015	N/A	N/A	N/A	N/A		
SI3862-001	IF05IMS2	1.24	g		L	SL	IM	TCS	06/05/2015						F
SI3862-001D	IF05IMS2	1.24	g		L	SL	IM	TCS	06/05/2015						
SI3862-001S	IF05IMS2	1.25	g		L	SL	IM	TCS	06/05/2015						
SI3862-002	IF05IMS2	1.77	g		L	SL	IM	TCS	06/05/2015						

gm 06-06-15

QA-065-Revision 1 - 09/23/2010 **Digestion performed by:** TCS **On:** 06-05-15 **Page:** IF045 **Revision:** 00

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 104736 HCL: 99513 H2SO4: N/A Method: 7471

KMNO4: me1469 K2S2O8: N/A NH2OH-HCl: me1468

Standards/Spiking Information:

1ppm A : mw15521

1ppm B : mw15492

LCSO = 500uL of 1ppm A to 100mL

Spike(S/P) = 100uL of 1ppm A to 100mL

ICV = 600uL of 1ppm A to 100 mL

S0.2 = 20uL of 1ppm B to 100 mL

S0.5 = 50uL of 1ppm B to 100 mL

S1.0 = 100uL of 1ppm B to 100 mL

S5.0 = 500uL of 1ppm B to 100 mL

S10.0 = 1000uL of 1ppm B to 100 mL

REVIEWED
ga 06-10-15
KATAHDIN ANALYTICAL METALS SECTION

Balance ID: BAL 15

TS 6/8/15 ~~Water Bath~~ modblock ID : A

Thermometer ID : ALC 11

Start Time: 15:51 /Temp. 95 °C) End Time: 16:21 /Temp. 95 °C)

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Texture	Final Color	Final Clarity	Artifacts	Bottle
LCSOIF08HGS1	IF08HGS1	0.60	g	0.10	L	SL	HG	TCS	06/08/2015	N/A	N/A	N/A	N/A		N/A
PBSIF08HGS1	IF08HGS1	0.60	g		L	SL	HG	TCS	06/08/2015	N/A	N/A	N/A	N/A		N/A
SI3835-001	IF08HGS1	0.61	g		L	SL	HG	TCS	06/08/2015						H
SI3862-001	IF08HGS1	0.75	g		L	SL	HG	TCS	06/08/2015						P
SI3862-001P	IF08HGS1	0.75	g		L	SL	HG	TCS	06/08/2015						P
SI3862-001S	IF08HGS1	0.75	g		L	SL	HG	TCS	06/08/2015						P
SI3862-002	IF08HGS1	0.71	g		L	SL	HG	TCS	06/08/2015						E

ga 06-10-15

QA-067-Revision 1 - 09/23/2010 Digestion performed by: TCS On: 06-08-15 Page: IF054 Revision: 00

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 104736 HCL: 99513 H2O2: N/A **Method:** 3010

LCS / Spike **LCS/Spiking Information:**

- [x] [x] CLPP-SPK-1 (ID/Vol): MS1928 / 0.05 mL
- [x] [x] CLPP-SPK-INT1 (ID/Vol): MW15522 / 0.5 mL
- [x] [x] CLPP-SPK-INT2 (ID/Vol): MW15498 / 0.5 mL
- [ ] [ ] _____ Spike (ID/Vol): N/A / _____ mL
- [ ] [ ] CLPP-SPK-4 (ID/Vol): N/A / _____ mL

Hot Plate/Block ID : B

Start Time: 10:50 /Temp.(90-95°C) : 93°

End Time: 17:17 /Temp.(90-95°C) : 90°

Thermometer ID/Pos.: ALC 24 / 1.1

Filter Paper: N/A

REVIEWED
SAM 06-09-15
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIF08ICW3	IF08ICW3	0.05	L	0.05	L	AQ	IC	TCS	06/08/2015	N/A	N/A	N/A	N/A		N/A
PBT1225D	IF08ICW3	0.01	L		L	AQ	IC	TCS	06/08/2015						N/A
PBWIF08ICW3	IF08ICW3	0.05	L		L	AQ	IC	TCS	06/08/2015	N/A	N/A	N/A	N/A		N/A
SI3863-008	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						E
SI3863-009	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						E
SI3863-010	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						E
SI3863-011	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						E
SI3863-012	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						E
SI3897-038	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						A
SI3897-038D	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						A
SI3897-038S	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						A
SI3907-001	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						D
SI3907-002	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						D
SI3907-004	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						D
SI3907-006	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						D
~~SI3916-001~~ SI3862-6	IF08ICW3	0.01	L		L	AQ	IC	TCS	06/08/2015						P
~~SI3916-002~~ SI3862-7	IF08ICW3		L		L	AQ	IC	TCS	06/08/2015						F

TRS 6/8/15

TRS 6/8/15

QA-064-Revision 2 - 01/08/2014 **Digestion performed by:** TRS **On:** 6/8/15 **Page:** IF049 **Revision:** 00

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 104736 **HCL:** 99513 **H2O2:** N/A **Method:** 3010-MS

LCS / Spike **LCS/Spiking Information:** TRS 6/8/15

- [x] [x] **CLPP-SPK-1 (ID/Vol):** MS1928 / ~~0.1~~ 0.05 mL
- [x] [x] **CLPP-SPK-INT1 (ID/Vol):** MW15522 / ~~1.0~~ 0.5 mL
- [x] [x] **CLPP-SPK-INT2 (ID/Vol):** MW15498 / ~~1.0~~ 0.5 mL
- [ ] [ ] _____ **Spike (ID/Vol):** N/A / _____ mL
- [ ] [ ] **CLPP-SPK-4 (ID/Vol):** N/A / _____ mL

Hot Plate/Block ID : B **Filter Paper:** N/A

Start Time: 10:50 **/Temp.(90-95°C) :** 93°

End Time: 17:17 **/Temp.(90-95°C) :** 90°

Thermometer ID/Pos.: ALC24 / 1.1

REVIEWED
EA 06-09-15
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIF08IMW2	IF08IMW2	0.05	L	0.05	L	AQ	IM	TCS	06/08/2015	N/A	N/A	N/A	N/A		N/A
PBWIF08IMW2	IF08IMW2		L		L	AQ	IM	TCS	06/08/2015	N/A	N/A	N/A	N/A		N/A
SI3862-003	IF08IMW2		L		L	AQ	IM	TCS	06/08/2015						D
SI3897-038	IF08IMW2		L		L	AQ	IM	TCS	06/08/2015						A
SI3897-038D	IF08IMW2		L		L	AQ	IM	TCS	06/08/2015						A
SI3897-038S	IF08IMW2		L		L	AQ	IM	TCS	06/08/2015						A

TRS 6/8/15

Digestion performed by: TRS **On:** 6/8/15

Katahdin Analytical Services 0000489

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 104117 HCL: N/A H2SO4: 71333 **Method:** 7470

KMNO4: MR1469 K2S2O8: MR1463 NH2OH-HCl: MR1468

Standards/Spiking Information:

1ppm A : MW15521

1ppm B : MW15492

LCSW = 125uL of 1ppm A to 25mL

Spike(S/P) = 25uL of 1ppm A to 25mL

ICV = 600uL of 1ppm A to 100 mL

S0.2 = 20uL of 1ppm B to 100 mL

S0.5 = 50uL of 1ppm B to 100 mL

S1.0 = 100uL of 1ppm B to 100 mL

S5.0 = 500uL of 1ppm B to 100 mL

S10.0 = 1000uL of 1ppm B to 100 mL

REVIEWED
KAT 06-11-15
KATAHDIN ANALYTICAL METALS SECTION

Water Bath ID : B

Thermometer ID : DIG65

Start Time: 11:58 /Temp. 90 °C) End Time: 13:58 /Temp. 91 °C)

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIF10HGW2	IF10HGW2	0.025	L	0.025	L	AQ	HG	TCS	06/10/2015	N/A	N/A	N/A	N/A		N/A
PBWIF10HGW2	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015	N/A	N/A	N/A	N/A		N/A
SI3789-001	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3811-001	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3811-002	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3811-003	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3811-004	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3811-005	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3811-006	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3862-003	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						D SI3862-1
SI3862-006	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						P
SI3862-006P	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						P
SI3862-006S	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						P
SI3862-007	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						F SI3862-2
SI3867-005	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3891-001	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A
SI3891-003	IF10HGW2		L		L	AQ	HG	TCS	06/10/2015						A

TRS 6/10/15

Digestion performed by: TRS On: 6/10/15

Katahdin Analytical Services 0000490

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 104117 HCL: N/A H2SO4: 71333 **Method:** 7470

KMNO4: MR1469 K2S2O8: MR1463 NH2OH-HCl: MR1468

Standards/Spiking Information:

1ppm A : MW15521

1ppm B : MW15492

LCSW = 125uL of 1ppm A to 25mL

Spike(S/P) = 25uL of 1ppm A to 25mL

ICV = 600uL of 1ppm A to 100 mL

S0.2 = 20uL of 1ppm B to 100 mL

S0.5 = 50uL of 1ppm B to 100 mL

S1.0 = 100uL of 1ppm B to 100 mL

S5.0 = 500uL of 1ppm B to 100 mL

S10.0 = 1000uL of 1ppm B to 100 mL

REVIEWED
06-11-15
KATAHDIN ANALYTICAL
METALS SECTION

Water Bath ID : B

Thermometer ID : D1665

Start Time: 11:58 /Temp. 90 °C) End Time: 13:58 /Temp. 91 °C)

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIF10HGW3	IF10HGW3	0.025	L	0.025	L	AQ	HG	TCS	06/10/2015	N/A	N/A	N/A	N/A		N/A
PBT1225D	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						N/A
PBT1245A	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						N/A
PBT1246A	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						N/A
PBT1247A	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						N/A
PBWIF10HGW3	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015	N/A	N/A	N/A	N/A		N/A
SI3920-001	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-001P	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-001S	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-002	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-003	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-004	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-005	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-006	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-007	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3920-008	IF10HGW3		L		L	AQ	HG	TCS	06/10/2015						E
SI3944-7															D
SI3944-8															D
SI3984-1		0.005		0.026											A

TRS 6/10/15

QA-066-Revision 2 - 04/23/2015 **Digestion performed by:** TRS **On:** 6/10/15 **Page:** IF067 **Revision:** 00

Katahdin Analytical Services, Inc. **Metals Preparation Benchsheet**

Reagent Information:

HNO3: 1047360 HCL: 97264 H2O2: N/A **Method:** 3010

LCS / Spike **LCS/Spiking Information:** 1928

- [x] [x] CLPP-SPK-1 (ID/Vol): MW15522 / 0.05 mL
- [x] [x] CLPP-SPK-INT1 (ID/Vol): MW15522 / 0.50 mL
- [x] [x] CLPP-SPK-INT2 (ID/Vol): MW15542 / 0.50 mL
- [ ] [ ] _____ Spike (ID/Vol): N/A / mL
- [ ] [ ] CLPP-SPK-4 (ID/Vol): N/A / mL

Hot Plate/Block ID : A

Start Time: 12:10 /Temp.(90-95°C) : 95

End Time: 17:13 /Temp.(90-95°C) : 96

Thermometer ID/Pos.: A1C 11 / 4:5

Filter Paper: N/A

REVIEWED
6-26-23-1
KATAHDIN ANALYTICAL
METALS SECTION

Sample ID	Batch ID	Initial Wt/Vol	Initial Units	Final Vol	Final Units	MX	Meth	Anal.	Date	Initial Color	Initial Clarity	Final Color	Final Clarity	Artifacts	Bottle
LCSWIF19ICW1	IF19ICW1	0.050	L	0.05	L	AQ	IC	EAM	06/19/2015	N/A	N/A	N/A	N/A		N/A
PBT1250A	IF19ICW1	0.010	L		L	AQ	IC	EAM	06/19/2015						N/A
PBT1251A	IF19ICW1	0.010	L		L	AQ	IC	EAM	06/19/2015						N/A
PBWIF19ICW1	IF19ICW1	0.050	L		L	AQ	IC	EAM	06/19/2015	N/A	N/A	N/A	N/A		N/A
SI3836-009R	IF19ICW1	↓	L		L	AQ	IC	EAM	06/19/2015						B
SI3862-006P	IF19ICW1	0.010	L		L	AQ	IC	EAM	06/19/2015						O
SI3862-006S	IF19ICW1	↓	L		L	AQ	IC	EAM	06/19/2015						O
SI3944-007R	IF19ICW1	0.020	L	0.020	L	AQ	IC	EAM	06/19/2015						H
SI3944-007RP	IF19ICW1	0.050	L		L	AQ	IC	EAM	06/19/2015						H
SI3944-007RS	IF19ICW1	↓	L		L	AQ	IC	EAM	06/19/2015						H
SI4143-001	IF19ICW1	0.010	L	0.05	L	AQ	IC	EAM	06/19/2015						B
SI4190-002	IF19ICW1	↓	L		L	AQ	IC	EAM	06/19/2015						G
SI4197-001	IF19ICW1		L		L	AQ	IC	EAM	06/19/2015						A
SI4234-001	IF19ICW1		L		L	AQ	IC	EAM	06/19/2015						B
SI4234-002	IF19ICW1		L		L	AQ	IC	EAM	06/19/2015						A
SI4234-003	IF19ICW1		L		L	AQ	IC	EAM	06/19/2015						~~A~~ A EL 06/22/15
SI4240-001	IF19ICW1		L		L	AQ	IC	EAM	06/19/2015						A
SI4291-006	IF19ICW1	↓	L		L	AQ	IC	EAM	06/19/2015						D
SI4291-007	IF19ICW1	0.050	L		L	AQ	IC	EAM	06/19/2015						D
SI4291-009	IF19ICW1	0.010	L		L	AQ	IC	EAM	06/19/2015						D
SI4291-010	IF19ICW1	0.050	L		L	AQ	IC	EAM	06/19/2015						D

GES 06.19.15

Digestion performed by: GES **On:** 06.19.15

Katahdin Analytical Services 0000492

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG164253	SM2540	06-JUN-15	05-JUN-15	U 1 %	1 %	N/A

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

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG164253-2	LCS	WG164253	06-JUN-15	05-JUN-15	%	90	90.	100	90-110	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG164253-3	SI3862-1	WG164253	06-JUN-15	%	93.	92.	1	20

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC 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%.

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.

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ 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.

H1 - pH H2 - DO H3 - sulfide H4 - residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

M1 The matrix spike and/or matrix spike duplicate recovery performed on this sample was outside of the laboratory acceptance criteria. Sample matrix is suspected. The laboratory criteria was met for the Laboratory Control Sample (LCS) analyzed concurrently with this sample.

M2 The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory acceptance criteria. The native sample concentration is greater than four times the spike added concentration so the spike added could not be distinguished from the native sample concentration.

R1 The relative percent difference (RPD) between the duplicate analyses performed on this sample was outside of the laboratory acceptance criteria (when both values are greater than ten times the PQL).

MCL	Maximum Contaminant Level	NL	No limit
NFL	No Free Liquid Present	FLP	Free Liquid Present
NOD	No Odor Detected	TON	Threshold Odor Number

D-1 As required by Method 5210B, APHA Standard Methods for the Examination of Water and Wastewater (21st edition), the BOD value reported for this sample is 'qualified' because the check standard run concurrently with the sample analysis did not meet the criteria specified in the method (198 +/- 30.5 mg/L). These results may not be reportable for compliance purposes.

D-2 The measured final dissolved oxygen concentrations of all dilutions were less than the method-specified limit of 1 mg/L. The reported BOD result was calculated assuming a final oxygen concentration equal to 1 mg/L.

D-3 The dilution water used to prepare this sample did not meet the method and/or regulatory criteria of less than 0.2 or 0.4 mg/L dissolved oxygen (DO) uptake over the five day period of incubation. These results may not be reportable for compliance purposes.

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: SI3862-1
Report Date: 27-JUN-15
Client PO: 18884
Project: Navy Clean WE08 NWIR
SDG: SI3862

Sample Description	Matrix	Date Sampled	Date Received
SITE4TS-FB	SL	04-JUN-15 12:00:00	05-JUN-15

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	93. %	1		N/A	SM2540G	WG164253	06-JUN-15 12:01:33	SM2540G	05-JUN-15	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: SI3862-2
Report Date: 27-JUN-15
Client PO: 18884
Project: Navy Clean WE08 NWIR
SDG: SI3862

Sample Description	Matrix	Date Sampled	Date Received
SITE4TS-XX	SL	04-JUN-15 00:00:00	05-JUN-15

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	92. %	1		N/A	SM2540G	WG164253	06-JUN-15 12:01:42	SM2540G	05-JUN-15	

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http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Dana Miller
EnSafe
5724 Summer Trees Drive
Memphis,TN 38134

Lab Sample ID: SI3862-4
Report Date: 27-JUN-15
Client PO: 18884
Project: Navy Clean WE08 NWIR
SDG: SI3862

Sample Description	Matrix	Date Sampled	Date Received
SITE4TS-TB-SOIL	SL	04-JUN-15 15:00:00	05-JUN-15

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	100 %	1		N/A	SM2540G	WG164253	06-JUN-15 12:01:43	SM2540G	05-JUN-15	

Katahdin Analytical Services 0000502

Raw Data Section

TOTAL SOLIDS BATCH REPORT
Jun 08 2015, 09:44 am
Batch: WG164253

Sample	Matrix	Type	Prep Date	Tare	Initial	Final1	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SI3327-2	SL	SAMP	05-JUN-15	1.3209 g	42.451 g	33.4211 g	33.4211 g	AZ	06-JUN-15	78.0460	78. %		
SI3862-1	SL	SAMP	05-JUN-15	1.3181 g	33.0851 g	30.7528 g	30.7528 g	AZ	06-JUN-15	92.6580	93. %		
SI3862-2	SL	SAMP	05-JUN-15	1.3171 g	36.5812 g	33.6687 g	33.6687 g	AZ	06-JUN-15	91.7410	92. %		
SI3862-4	SL	SAMP	05-JUN-15	1 g	5 g	5 g	5 g	AZ	06-JUN-15	100.0000	100 %		
WG164253-1	SL	MBLANK	05-JUN-15	1.3156 g	1.809 g	1.3147 g	1.3147 g	AZ	06-JUN-15	-0.1820	1 %		
WG164253-2	SL	LCS	05-JUN-15	1.308 g	6.3163 g	5.8253 g	5.8253 g	AZ	06-JUN-15	90.1960	90. %	100	
WG164253-3	SL	DUP	05-JUN-15	1.3139 g	33.7483 g	31.143 g	31.143 g	AZ	06-JUN-15	91.9670	92. %		1

Comments:

SI3862-1	MS/MSD
SI3862-4	Trip blank, no TS jar.
WG164253-1	SI3327-2
WG164253-2	SI3327-2
WG164253-3	SI3862-1

Entered by: _____ Date: 6-8-15 Accepted by: _____ Date: 06/08/15

TOTAL SOLIDS BATCH REPORT
Jun 08 2015, 09:44 am
Batch: WG164255

Sample	Matrix	Type	Prep Date	Tare	Initial	Final1	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SI3821-12	SL	SAMP	05-JUN-15	1 g	5 g	5 g	5 g	AZ	07-JUN-15	100.0000	100 %		
SI3821-6	SL	SAMP	05-JUN-15	1.3107 g	24.6758 g	24.0958 g	24.0636 g	AZ	07-JUN-15	97.3800	97. %		
SI3835-1	SL	SAMP	05-JUN-15	1.3032 g	40.6643 g	36.2978 g	36.2474 g	AZ	07-JUN-15	88.7780	89. %		
SI3852-1	SL	SAMP	05-JUN-15	1.3143 g	16.7131 g	13.3451 g	12.3786 g	AZ	07-JUN-15	71.8520	72. %		
SI3852-2	SL	SAMP	05-JUN-15	1.3144 g	15.9257 g	12.8443 g	11.9 g	AZ	07-JUN-15	72.4480	72. %		
SI3852-3	SL	SAMP	05-JUN-15	1.303 g	15.4019 g	11.9522 g	11.1228 g	AZ	07-JUN-15	69.6490	70. %		
SI3852-4	SL	SAMP	05-JUN-15	1.3172 g	16.8729 g	13.4483 g	12.472 g	AZ	07-JUN-15	71.7090	72. %		
WG164255-1	SL	MBLANK	05-JUN-15	1.3156 g	1.809 g	1.3147 g	1.3147 g	AZ	07-JUN-15	-0.1820	1 %		
WG164255-2	SL	LCS	05-JUN-15	1.308 g	6.3163 g	5.8253 g	5.8244 g	AZ	07-JUN-15	90.1780	90. %	100	

Comments:

SI3821-12	tb, no ts jar
WG164255-1	SI3821-6
WG164255-2	SI3821-6

Entered by: _____ Date: 6-8-15 Accepted by: _____ Date: 06/08/15

R320322
WG164253

R320323
Temp WG164255

KATAHDIN ANALYTICAL SERVICES

Total Solids: SM2540 G / ASTM D2216			PQL: 0.10%	Total Volatile Solids: SM2540 G / E160.4			PQL: 0.10%	Balance Calibrated?
TS/TVS	In 1	In 2	TS Only	Out 1	Out 2	TVS Only		Y / N
ANALYST IN:	AB	AB	ANALYST OUT:	AB	AB	ANALYST OUT:		In: Y
DATE IN:	6-5-15	6-6-15	DATE OUT:	6-6-15	6-7-15	DATE OUT:		Out (TS): Y
TIME IN:	14:17	12:08	TIME OUT:	10:29	9:20	TIME OUT:		Out (TVS):
TEMP IN:	104°C	104°C	TEMP OUT:	103°C	104°C	TEMP OUT:		Balance ID:
Oven ID: Imperial ✓			Muffle Oven ID: 030807 (assigned)					S/N 112401631

	SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	1st DISH DRY WT (g)	2nd DISH DRY WT (g)	DISH/ASH WT (g)	TIME
1	Blank	4A	1.3156	1.8090	1.3147			
2	LCS	5A	1.3080	6.3163	5.8253			
3	SI 3327-2	1A						
4	SI 3862-1	2A						
5	-2	3A						
100% 6	-4	—	1	5	5			
7	SI 3862-1 DUP	6A						
8	SI 3821-6	7A						
100% 9	-12	—	1	5	5	5		
10	SI 3875-1	8A						
11	SI 3852-1	9A						
12	-2	10A						
13	-3	11A						
14	-4	12A						
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

6-8-15

WL-009 – Revision 4 – 05/20/2015

Reviewed By: [signature] QAWL772

Reviewed Date: 06/08/15