

ESS Laboratory

Division of Thielsch Engineering, Inc.

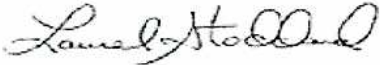
CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

David Heislein
MACTEC Engineering & Consulting, Inc.
107 Audubon Road
Wakefield, MA 01880

RE: Gorham
ESS Laboratory Work Order Number: 0605138

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard/Kelly DeSousa
Laboratory Director/QA Manager

Date: May 17, 2006

Sample Receipt

1 Solid sample, which was originally received on April 24, 2006 as ESS Laboratory work order 0604387, was relogged on May 09, 2006 as ESS Laboratory work order 0605138 for the analyses specified on the enclosed Chain of Custody Record.

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

No unusual observations noted.

End of Project Narrative.

hjl

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Gorham
Client Sample ID: SS-1001A
Date Sampled: 04/24/06 13:00

ESS Laboratory Work Order: 0605138
ESS Laboratory Sample ID: 0605138-01
Sample Matrix: Solid

Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>
Gold	See Attached						

Mr. James Fraher
ESS Laboratory
185 Frances Avenue
Cranston, RI 02910

May 8, 2006

0605138

CERTIFICATE OF ANALYSIS

Sample Number: 06016247

Received Date: 5/03/06

Sample Date: 4/24/06

Sample Time: 13:00


Sample Description: Soil/Slag 0604387-01

Method Number	Parameter	Result	Unit	Date Analyzed	Analyst
Fire Assay	Gold	< 0.002	%/wt	5/05/06	KD



Kevin Donahue
Laboratory Director

Samples were analyzed in accordance with "Fire Assaying by Shepard & Deitich ", 1989.

Approved By: 

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

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Client Project ID: Gorham

ESS Laboratory Work Order: 0605138

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Notes and Definitions

Z-08	See Attached
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
mg/kg	Results reported as wet weight
TCLP	Toxicity Characteristic Leachate Procedure
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
TIC	A forward library search of the NBS Mass Spectral Library was performed on this sample using the McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard.
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
¶	The state of RI does not grant certification for this method for non-potables.

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ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP): 242405
Potable Water
Non Potable Water

New York (NELAP): 11313
Potable Water
Non Potable Water
Solid and Hazardous Waste

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP): RI002
Potable Water
Non Potable Water
Soil and Hazardous Waste

Maryland: 301
Potable Water

Pennsylvania: 68-934, 68-1752

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page of

Turn Time: Standard Other
 If faster than 5 days, prior approval by laboratory is required #
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other
 Is this project for any of the following: USACE Other
 MA-MCP Navy

Reporting Limits:
 Electronic Deliverable: Yes No
 Format: Excel Access PDF Other
 ESS LAB PROJECT ID: 0604387

Project # Project Name (20 Char. or less)
 Address PO#
 City State Zip
 Telephone # Fax # Email Address
 Sample Identification (20 Char. or less) 0604387-01
 Matrix: SD GRAB COMP
 Date 4-24-06 Collection Time 13:00
 ESS LAB Sample # 16247
 Number of Containers 1 Type of Containers Gold
 Pres Code 1

Container Type:	P-Poly	G-Glass	S-Sterile	V-VOA	M-matrix:	S-Soil	SD-Solid	D-Sludge	WW-Waste Water	GW-Ground Water	SW-Surface Water	DW-Drinking Water	O-Oil	W-Wipes	F-Filters
Cooler Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seals Intact	<input type="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cooler Temp:	<u> </u>														
Relinquished by (Signature)	<u> </u>														
Relinquished by (Signature)	<u> </u>														
Received by (Signature)	<u> </u>														
Received by (Signature)	<u> </u>														
Date/Time	<u>5/3/06</u>														
Date/Time	<u> </u>														

Preservation Code: 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-
 Sampled by:
 Comments:

