



November 21, 2008

Mark Norman
Geo-Marine, Inc.
950 Isom Rd
San Antonio, Texas 78216-4170

Order No: 0811118

TEL: (210) 930-3007
FAX: (210) 930-3777

RE: Swift Site

Dear Mark Norman:

DHL Analytical received 3 sample(s) on 11/18/2008 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style with a large initial "J".

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08A-TX



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Sample Receipt Checklist

Client Name Geo-Marine, Inc.

Date Received: 11/18/2008

Work Order Number 0811118

Received by JB

Checklist completed by: [Signature] 11/18/08

Reviewed by [Initials] 11/18/08

Carrier name: Hand Delivered

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [] No [] Not Applicable [checked]

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

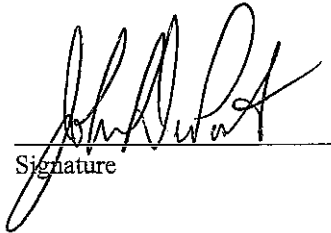
This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature


Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Swift Site		Date:					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order:					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name:		Date:					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order:					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: Geo-Marine, Inc.
Project: Swift Site
Lab Order: 0811118

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW8270C - PAHs: GC/MS
Method D2216 - Percent Moisture (Parameter not NELAC Certified)
Method SW7471A - Total Mercury: Soil/Solid
Method SW6020 - Trace Metals: ICP-MS - Solid

Exception Report R1-01

A total of 3 samples were received and logged-in on 11/18/2008. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Trace Metals Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (0811118-03 MS/MSD) were above the control limit for Barium. These were flagged accordingly in the enclosed QC Summary Report. The LCS-32412 was within control limits for this analyte. The reference sample selected for the MS/MSD was from this work order. No further corrective actions were taken.

Exception Report S9-01

For Trace Metals Analysis, the RPD for the Serial Dilution (0811118-03 SD) was above the control limit for Selenium. This was flagged accordingly in the enclosed QC Summary Report. The PDS was within control limits for this analyte. The reference sample selected for this SD/PDS was from this work order. No further corrective actions were taken.

CLIENT: Geo-Marine, Inc.
Project: Swift Site
Lab Order: 0811118

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0811118-01	Coal Ash 4		11/18/08 09:00 AM	11/18/08
0811118-02	Coal Ash 5		11/18/08 09:15 AM	11/18/08
0811118-03	Coal Ash 6		11/18/08 09:30 AM	11/18/08

CLIENT: Geo-Marine, Inc.
 Project: Swift Site
 Lab Order: 0811118

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0811118-01A	Coal Ash 4	11/18/08 09:00 AM	Soil	SW3550B	Soil Prep Sonication: PAH	11/18/08 02:07 PM	32408
0811118-01B	Coal Ash 4	11/18/08 09:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	11/19/08 09:00 AM	32413
	Coal Ash 4	11/18/08 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	11/19/08 09:00 AM	32412
	Coal Ash 4	11/18/08 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	11/19/08 09:00 AM	32412
	Coal Ash 4	11/18/08 09:00 AM	Soil	D2216	Percent Moisture	11/18/08 05:20 PM	PMOIST_081118A
0811118-02A	Coal Ash 5	11/18/08 09:15 AM	Soil	SW3550B	Soil Prep Sonication: PAH	11/18/08 02:07 PM	32408
0811118-02B	Coal Ash 5	11/18/08 09:15 AM	Soil	SW7471A	Mercury Soil Prep, Total	11/19/08 09:00 AM	32413
	Coal Ash 5	11/18/08 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	11/19/08 09:00 AM	32412
	Coal Ash 5	11/18/08 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	11/19/08 09:00 AM	32412
	Coal Ash 5	11/18/08 09:15 AM	Soil	D2216	Percent Moisture	11/18/08 05:20 PM	PMOIST_081118A
0811118-03A	Coal Ash 6	11/18/08 09:30 AM	Soil	SW3550B	Soil Prep Sonication: PAH	11/18/08 02:07 PM	32408
0811118-03B	Coal Ash 6	11/18/08 09:30 AM	Soil	SW7471A	Mercury Soil Prep, Total	11/19/08 09:00 AM	32413
	Coal Ash 6	11/18/08 09:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	11/19/08 09:00 AM	32412
	Coal Ash 6	11/18/08 09:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	11/19/08 09:00 AM	32412
	Coal Ash 6	11/18/08 09:30 AM	Soil	D2216	Percent Moisture	11/18/08 05:20 PM	PMOIST_081118A

CLIENT: Geo-Marine, Inc.
 Project: Swift Site
 Lab Order: 0811118

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0811118-01A	Coal Ash 4	Soil	SW8270C	PAHs: GC/MS	32408	1	11/18/08 10:05 PM	GCMS6_081118A
0811118-01B	Coal Ash 4	Soil	D2216	Percent Moisture	PMOIST_081118A	1	11/18/08 05:20 PM	PMOIST_081118A
	Coal Ash 4	Soil	SW7471A	Total Mercury: Soil/Solid	32413	1	11/19/08 02:53 PM	CETAC_HG_081119C
	Coal Ash 4	Soil	SW6020	Trace Metals: ICP-MS - Solid	32412	25	11/20/08 02:12 PM	ICP-MS2_081120A
	Coal Ash 4	Soil	SW6020	Trace Metals: ICP-MS - Solid	32412	5	11/20/08 03:55 PM	ICP-MS2_081120A
0811118-02A	Coal Ash 5	Soil	SW8270C	PAHs: GC/MS	32408	1	11/18/08 08:34 PM	GCMS6_081118A
0811118-02B	Coal Ash 5	Soil	D2216	Percent Moisture	PMOIST_081118A	1	11/18/08 05:20 PM	PMOIST_081118A
	Coal Ash 5	Soil	SW7471A	Total Mercury: Soil/Solid	32413	1	11/19/08 02:55 PM	CETAC_HG_081119C
	Coal Ash 5	Soil	SW6020	Trace Metals: ICP-MS - Solid	32412	25	11/20/08 02:17 PM	ICP-MS2_081120A
	Coal Ash 5	Soil	SW6020	Trace Metals: ICP-MS - Solid	32412	5	11/20/08 04:01 PM	ICP-MS2_081120A
0811118-03A	Coal Ash 6	Soil	SW8270C	PAHs: GC/MS	32408	1	11/18/08 09:20 PM	GCMS6_081118A
0811118-03B	Coal Ash 6	Soil	D2216	Percent Moisture	PMOIST_081118A	1	11/18/08 05:20 PM	PMOIST_081118A
	Coal Ash 6	Soil	SW7471A	Total Mercury: Soil/Solid	32413	1	11/19/08 02:43 PM	CETAC_HG_081119C
	Coal Ash 6	Soil	SW6020	Trace Metals: ICP-MS - Solid	32412	25	11/20/08 02:23 PM	ICP-MS2_081120A
	Coal Ash 6	Soil	SW6020	Trace Metals: ICP-MS - Solid	32412	5	11/20/08 04:06 PM	ICP-MS2_081120A

CLIENT: Geo-Marine, Inc.
Project: Swift Site
Project No:
Lab Order: 0811118

Client Sample ID: Coal Ash 4
Lab ID: 0811118-01
Collection Date: 11/18/08 09:00 AM
Matrix: Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	0.0518	0.0232	0.0580	J	mg/Kg-dry	1	11/19/08 02:53 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	5.98	0.675	1.35		mg/Kg-dry	5	11/20/08 03:55 PM
Barium	186	0.675	2.70		mg/Kg-dry	5	11/20/08 03:55 PM
Cadmium	0.769	0.135	0.405		mg/Kg-dry	5	11/20/08 03:55 PM
Chromium	38.7	3.38	13.5		mg/Kg-dry	25	11/20/08 02:12 PM
Lead	24.6	0.135	0.405		mg/Kg-dry	5	11/20/08 03:55 PM
Selenium	6.49	0.203	0.675		mg/Kg-dry	5	11/20/08 03:55 PM
Silver	0.226	0.135	0.270	J	mg/Kg-dry	5	11/20/08 03:55 PM
PAHs: GC/MS		SW8270C					Analyst: AV
Acenaphthene	ND	0.0306	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Acenaphthylene	ND	0.0153	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Anthracene	0.0240	0.0153	0.0765	J	mg/Kg-dry	1	11/18/08 10:05 PM
Benzo[a]anthracene	0.112	0.0306	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Benzo[a]pyrene	0.108	0.0459	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Benzo[b]fluoranthene	0.165	0.0306	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Benzo[g,h,i]perylene	0.0737	0.0306	0.0765	J	mg/Kg-dry	1	11/18/08 10:05 PM
Benzo[k]fluoranthene	0.0546	0.0459	0.0765	J	mg/Kg-dry	1	11/18/08 10:05 PM
Chrysene	0.106	0.0306	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Dibenz[a,h]anthracene	ND	0.0306	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Fluoranthene	0.161	0.0153	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Fluorene	ND	0.0153	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Indeno[1,2,3-cd]pyrene	0.0559	0.0153	0.0765	J	mg/Kg-dry	1	11/18/08 10:05 PM
Naphthalene	ND	0.0153	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Phenanthrene	0.0924	0.0153	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Pyrene	0.185	0.0306	0.0765		mg/Kg-dry	1	11/18/08 10:05 PM
Surr: 2-Fluorobiphenyl	87.4	0	40 - 140		%REC	1	11/18/08 10:05 PM
Surr: 4-Terphenyl-d14	76.0	0	40 - 140		%REC	1	11/18/08 10:05 PM
Surr: Nitrobenzene-d5	100	0	40 - 140		%REC	1	11/18/08 10:05 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	38.3	0	0	N	WT%	1	11/18/08 05:20 PM

Qualifiers:			
	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: Geo-Marine, Inc.
Project: Swift Site
Project No:
Lab Order: 0811118

Client Sample ID: Coal Ash 5
Lab ID: 0811118-02
Collection Date: 11/18/08 09:15 AM
Matrix: Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	0.0385	0.0231	0.0577	J	mg/Kg-dry	1	11/19/08 02:55 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	6.79	0.697	1.39		mg/Kg-dry	5	11/20/08 04:01 PM
Barium	222	0.697	2.79		mg/Kg-dry	5	11/20/08 04:01 PM
Cadmium	0.812	0.139	0.418		mg/Kg-dry	5	11/20/08 04:01 PM
Chromium	40.1	3.49	13.9		mg/Kg-dry	25	11/20/08 02:17 PM
Lead	32.5	0.139	0.418		mg/Kg-dry	5	11/20/08 04:01 PM
Selenium	7.55	0.209	0.697		mg/Kg-dry	5	11/20/08 04:01 PM
Silver	0.228	0.139	0.279	J	mg/Kg-dry	5	11/20/08 04:01 PM
PAHs: GC/MS		SW8270C					Analyst: AV
Acenaphthene	0.0397	0.0298	0.0746	J	mg/Kg-dry	1	11/18/08 08:34 PM
Acenaphthylene	ND	0.0149	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Anthracene	0.0479	0.0149	0.0746	J	mg/Kg-dry	1	11/18/08 08:34 PM
Benzo[a]anthracene	0.256	0.0298	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Benzo[a]pyrene	0.270	0.0447	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Benzo[b]fluoranthene	0.366	0.0298	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Benzo[g,h,i]perylene	0.155	0.0298	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Benzo[k]fluoranthene	0.126	0.0447	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Chrysene	0.271	0.0298	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Dibenz[a,h]anthracene	ND	0.0298	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Fluoranthene	0.490	0.0149	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Fluorene	0.0303	0.0149	0.0746	J	mg/Kg-dry	1	11/18/08 08:34 PM
Indeno[1,2,3-cd]pyrene	0.130	0.0149	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Naphthalene	0.0239	0.0149	0.0746	J	mg/Kg-dry	1	11/18/08 08:34 PM
Phenanthrene	0.345	0.0149	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Pyrene	0.555	0.0298	0.0746		mg/Kg-dry	1	11/18/08 08:34 PM
Surr: 2-Fluorobiphenyl	96.1	0	40 - 140		%REC	1	11/18/08 08:34 PM
Surr: 4-Terphenyl-d14	82.7	0	40 - 140		%REC	1	11/18/08 08:34 PM
Surr: Nitrobenzene-d5	110	0	40 - 140		%REC	1	11/18/08 08:34 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	36.6	0	0	N	WT%	1	11/18/08 05:20 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: Geo-Marine, Inc.
Project: Swift Site
Project No:
Lab Order: 0811118

Client Sample ID: Coal Ash 6
Lab ID: 0811118-03
Collection Date: 11/18/08 09:30 AM
Matrix: Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Total Mercury: Soil/Solid		SW7471A					Analyst: LM
Mercury	0.0426	0.0237	0.0593	J	mg/Kg-dry	1	11/19/08 02:43 PM
Trace Metals: ICP-MS - Solid		SW6020					Analyst: CZ
Arsenic	5.38	0.743	1.49		mg/Kg-dry	5	11/20/08 04:06 PM
Barium	191	0.743	2.97		mg/Kg-dry	5	11/20/08 04:06 PM
Cadmium	0.678	0.149	0.446		mg/Kg-dry	5	11/20/08 04:06 PM
Chromium	35.1	3.72	14.9		mg/Kg-dry	25	11/20/08 02:23 PM
Lead	41.2	0.149	0.446		mg/Kg-dry	5	11/20/08 04:06 PM
Selenium	6.44	0.223	0.743		mg/Kg-dry	5	11/20/08 04:06 PM
Silver	0.198	0.149	0.297	J	mg/Kg-dry	5	11/20/08 04:06 PM
PAHs: GC/MS		SW8270C					Analyst: AV
Acenaphthene	ND	0.0308	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Acenaphthylene	ND	0.0154	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Anthracene	0.0383	0.0154	0.0770	J	mg/Kg-dry	1	11/18/08 09:20 PM
Benzo[a]anthracene	0.180	0.0308	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Benzo[a]pyrene	0.169	0.0462	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Benzo[b]fluoranthene	0.252	0.0308	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Benzo[g,h,i]perylene	0.108	0.0308	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Benzo[k]fluoranthene	0.0790	0.0462	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Chrysene	0.174	0.0308	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Dibenz[a,h]anthracene	ND	0.0308	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Fluoranthene	0.283	0.0154	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Fluorene	ND	0.0154	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Indeno[1,2,3-cd]pyrene	0.0869	0.0154	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Naphthalene	ND	0.0154	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Phenanthrene	0.158	0.0154	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Pyrene	0.329	0.0308	0.0770		mg/Kg-dry	1	11/18/08 09:20 PM
Surr: 2-Fluorobiphenyl	91.6	0	40 - 140		%REC	1	11/18/08 09:20 PM
Surr: 4-Terphenyl-d14	77.7	0	40 - 140		%REC	1	11/18/08 09:20 PM
Surr: Nitrobenzene-d5	103	0	40 - 140		%REC	1	11/18/08 09:20 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	37.7	0	0	N	WT%	1	11/18/08 05:20 PM

Qualifiers:			
	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_081119C

Sample ID:	MB-32413	Batch ID:	32413	TestNo:	SW7471A	Units:	mg/Kg			
SampType:	MBLK	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:37 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	ND	0.0400								
Sample ID:	LCS-32413	Batch ID:	32413	TestNo:	SW7471A	Units:	mg/Kg			
SampType:	LCS	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:39 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.226	0.0400	0.2000	0	113	85	115			
Sample ID:	LCSD-32413	Batch ID:	32413	TestNo:	SW7471A	Units:	mg/Kg			
SampType:	LCSD	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:41 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.227	0.0400	0.2000	0	114	85	115	0.442	25	
Sample ID:	0811118-03B SD	Batch ID:	32413	TestNo:	SW7471A	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:45 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0	0.297	0	0.04255				0	10	
Sample ID:	0811118-03B PDS	Batch ID:	32413	TestNo:	SW7471A	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:47 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.366	0.0593	0.3706	0.04255	87.3	85	115			
Sample ID:	0811118-03B MS	Batch ID:	32413	TestNo:	SW7471A	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:49 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.386	0.0603	0.3015	0.04255	114	80	120			
Sample ID:	0811118-03B MSD	Batch ID:	32413	TestNo:	SW7471A	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:51 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.344	0.0548	0.2741	0.04255	110	80	120	11.5	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_081119C

Sample ID:	ICV2-081119	Batch ID:	R40702	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	ICV	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:33 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00375	0.0400	0.004000	0	93.8	90	110			

Sample ID:	CCV1-081119	Batch ID:	R40702	TestNo:	SW7471A	Units:	mg/Kg				
SampType:	CCV	Run ID:	CETAC_HG_081119C	Analysis Date:	11/19/08 02:57 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00181	0.0400	0.002000	0	90.5	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
Work Order: 0811118
Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_081119A

Sample ID:	MB-32412	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS2_081119A	Analysis Date:	11/19/08 06:37 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Lead	ND	0.300								
Selenium	ND	0.500								
Silver	ND	0.200								

Sample ID:	LCS-32412	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS2_081119A	Analysis Date:	11/19/08 06:42 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	46.7	1.00	50.00	0	93.4	80	120			
Barium	48.4	2.00	50.00	0	96.7	80	120			
Cadmium	46.7	0.300	50.00	0	93.4	80	120			
Chromium	49.2	2.00	50.00	0	98.5	80	120			
Lead	48.4	0.300	50.00	0	96.7	80	120			
Selenium	45.2	0.500	50.00	0	90.4	80	120			
Silver	46.4	0.200	50.00	0	92.8	80	120			

Sample ID:	LCS-32412	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS2_081119A	Analysis Date:	11/19/08 06:48 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	46.5	1.00	50.00	0	93.0	80	120	0.376	25	
Barium	46.9	2.00	50.00	0	93.8	80	120	3.04	25	
Cadmium	45.6	0.300	50.00	0	91.2	80	120	2.49	25	
Chromium	47.8	2.00	50.00	0	95.6	80	120	2.94	25	
Lead	48.0	0.300	50.00	0	96.0	80	120	0.779	25	
Selenium	45.1	0.500	50.00	0	90.2	80	120	0.277	25	
Silver	45.0	0.200	50.00	0	90.0	80	120	2.95	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_081119A

Sample ID:	ICV1-081119	Batch ID:	R40700	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS2_081119A	Analysis Date:	11/19/08 02:59 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.102	0.00600	0.100	0	102	90	110			
Barium	0.0979	0.0100	0.100	0	97.9	90	110			
Cadmium	0.0970	0.00100	0.100	0	97.0	90	110			
Chromium	0.103	0.00600	0.100	0	103	90	110			
Lead	0.101	0.00100	0.100	0	101	90	110			
Selenium	0.0946	0.00600	0.100	0	94.6	90	110			
Silver	0.0966	0.00200	0.100	0	96.6	90	110			

Sample ID:	CCV3-081119	Batch ID:	R40700	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_081119A	Analysis Date:	11/19/08 06:01 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.200	0.00600	0.200	0	99.9	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Cadmium	0.196	0.00100	0.200	0	98.2	90	110			
Chromium	0.206	0.00600	0.200	0	103	90	110			
Lead	0.201	0.00100	0.200	0	101	90	110			
Selenium	0.192	0.00600	0.200	0	96.0	90	110			
Silver	0.194	0.00200	0.200	0	97.2	90	110			

Sample ID:	CCV4-081119	Batch ID:	R40700	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_081119A	Analysis Date:	11/19/08 07:31 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.197	0.00600	0.200	0	98.4	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Cadmium	0.195	0.00100	0.200	0	97.6	90	110			
Chromium	0.205	0.00600	0.200	0	102	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			
Selenium	0.186	0.00600	0.200	0	93.0	90	110			
Silver	0.194	0.00200	0.200	0	97.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_081120A

Sample ID:	0811118-03B SD	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 02:28 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chromium	39.0	74.3	0	35.11				10.4	10	

Sample ID:	0811118-03B PDS	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 02:34 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chromium	369	14.9	371.5	35.11	89.9	75	125			

Sample ID:	0811118-03B MS	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 02:39 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chromium	107	14.6	72.96	35.11	97.9	80	120			

Sample ID:	0811118-03B MSD	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 02:44 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chromium	101	14.2	71.02	35.11	92.8	80	120	5.33	25	

Sample ID:	0811118-03B SD	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 04:11 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	5.44	7.43	0	5.376				1.10	10	
Barium	188	14.9	0	191.5				1.74	10	
Cadmium	0	2.23	0	0.6784				0	10	
Lead	41.0	2.23	0	41.24				0.497	10	
Selenium	7.48	3.72	0	6.443				15.0	10	R
Silver	0	1.49	0	0.1977				0	10	

Sample ID:	0811118-03B PDS	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 04:16 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	71.5	1.49	74.31	5.376	89.0	75	125			
Barium	264	2.97	74.31	191.5	97.0	75	125			
Cadmium	68.3	0.446	74.31	0.6784	90.9	75	125			
Lead	114	0.446	74.31	41.24	98.4	75	125			
Selenium	69.4	0.743	74.31	6.443	84.7	75	125			
Silver	70.1	0.297	74.31	0.1977	94.0	75	125			

Sample ID:	0811118-03B MS	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 04:22 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	71.3	1.46	72.96	5.376	90.3	80	120			
Barium	304	2.92	72.96	191.5	154	80	120			S
Cadmium	69.2	0.438	72.96	0.6784	93.9	80	120			
Lead	108	0.438	72.96	41.24	92.2	80	120			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
Work Order: 0811118
Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_081120A

Selenium	69.4	0.730	72.96	6.443	86.3	80	120
Silver	69.2	0.292	72.96	0.1977	94.6	80	120

Sample ID:	0811118-03B MSD	Batch ID:	32412	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 04:27 PM	Prep Date:	11/19/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	68.7	1.42	71.02	5.376	89.2	80	120	3.62	25	
Barium	282	2.84	71.02	191.5	127	80	120	7.43	25	S
Cadmium	66.0	0.426	71.02	0.6784	91.9	80	120	4.71	25	
Lead	106	0.426	71.02	41.24	91.6	80	120	2.05	25	
Selenium	67.8	0.710	71.02	6.443	86.3	80	120	2.43	25	
Silver	65.0	0.284	71.02	0.1977	91.3	80	120	6.28	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_081120A

Sample ID:	ICV1-081120	Batch ID:	R40724	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 01:37 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.107	0.00600	0.100	0	107	90	110			
Barium	0.102	0.0100	0.100	0	102	90	110			
Cadmium	0.100	0.00100	0.100	0	100	90	110			
Chromium	0.108	0.00600	0.100	0	108	90	110			
Lead	0.105	0.00100	0.100	0	105	90	110			
Selenium	0.102	0.00600	0.100	0	102	90	110			
Silver	0.103	0.00200	0.100	0	103	90	110			

Sample ID:	CCV1-081120	Batch ID:	R40724	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 02:50 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.202	0.00600	0.200	0	101	90	110			
Barium	0.198	0.0100	0.200	0	99.2	90	110			
Cadmium	0.195	0.00100	0.200	0	97.7	90	110			
Chromium	0.206	0.00600	0.200	0	103	90	110			
Lead	0.201	0.00100	0.200	0	101	90	110			
Selenium	0.195	0.00600	0.200	0	97.6	90	110			
Silver	0.198	0.00200	0.200	0	99.0	90	110			

Sample ID:	CCV2-081120	Batch ID:	R40724	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_081120A	Analysis Date:	11/20/08 04:32 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.200	0.00600	0.200	0	100	90	110			
Barium	0.199	0.0100	0.200	0	99.5	90	110			
Cadmium	0.194	0.00100	0.200	0	97.0	90	110			
Lead	0.202	0.00100	0.200	0	101	90	110			
Selenium	0.195	0.00600	0.200	0	97.7	90	110			
Silver	0.198	0.00200	0.200	0	98.9	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_081118A

Sample ID:	LCS-32408	Batch ID:	32408	TestNo:	SW8270C	Units:	mg/Kg			
SampType:	LCS	Run ID:	GCMS6_081118A	Analysis Date:	11/18/08 07:05 PM	Prep Date:	11/18/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Acenaphthene	0.721	0.0500	1.000	0	72.1	56	114			
Acenaphthylene	0.741	0.0500	1.000	0	74.1	56	116			
Anthracene	0.843	0.0500	1.000	0	84.3	40	113			
Benzo[a]anthracene	0.802	0.0500	1.000	0	80.2	52	108			
Benzo[a]pyrene	0.897	0.0500	1.000	0	89.7	48	115			
Benzo[b]fluoranthene	0.912	0.0500	1.000	0	91.2	43	115			
Benzo[g,h,i]perylene	0.811	0.0500	1.000	0	81.1	47	123			
Benzo[k]fluoranthene	0.917	0.0500	1.000	0	91.7	54	118			
Chrysene	0.783	0.0500	1.000	0	78.3	56	115			
Dibenz[a,h]anthracene	0.842	0.0500	1.000	0	84.2	43	120			
Fluoranthene	0.748	0.0500	1.000	0	74.8	41	108			
Fluorene	0.747	0.0500	1.000	0	74.7	47	128			
Indeno[1,2,3-cd]pyrene	0.855	0.0500	1.000	0	85.5	46	119			
Naphthalene	0.730	0.0500	1.000	0	73.0	55	113			
Phenanthrene	0.743	0.0500	1.000	0	74.3	55	114			
Pyrene	0.872	0.0500	1.000	0	87.2	42	125			
Surr: 2-Fluorobiphenyl	3.89		4.000		97.3	40	140			
Surr: 4-Terphenyl-d14	3.74		4.000		93.6	40	140			
Surr: Nitrobenzene-d5	4.53		4.000		113	40	140			

Sample ID:	MB-32408	Batch ID:	32408	TestNo:	SW8270C	Units:	mg/Kg			
SampType:	MBLK	Run ID:	GCMS6_081118A	Analysis Date:	11/18/08 07:49 PM	Prep Date:	11/18/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Acenaphthene	ND	0.0500								
Acenaphthylene	ND	0.0500								
Anthracene	ND	0.0500								
Benzo[a]anthracene	ND	0.0500								
Benzo[a]pyrene	ND	0.0500								
Benzo[b]fluoranthene	ND	0.0500								
Benzo[g,h,i]perylene	ND	0.0500								
Benzo[k]fluoranthene	ND	0.0500								
Chrysene	ND	0.0500								
Dibenz[a,h]anthracene	ND	0.0500								
Fluoranthene	ND	0.0500								
Fluorene	ND	0.0500								
Indeno[1,2,3-cd]pyrene	ND	0.0500								
Naphthalene	ND	0.0500								
Phenanthrene	ND	0.0500								
Pyrene	ND	0.0500								
Surr: 2-Fluorobiphenyl	3.95		4.000		98.7	40	140			
Surr: 4-Terphenyl-d14	3.81		4.000		95.4	40	140			
Surr: Nitrobenzene-d5	4.69		4.000		117	40	140			

Sample ID: 0811118-01A-MS Batch ID: 32408 TestNo: SW8270C Units: mg/Kg-dry

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_081118A

SampType:	MS	Run ID:	GCMS6_081118A			Analysis Date:	11/18/08 10:50 PM		Prep Date:	11/18/08	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Acenaphthene		1.17	0.0774	1.548	0	75.3	56	114			
Acenaphthylene		1.21	0.0774	1.548	0	78.2	56	116			
Anthracene		1.33	0.0774	1.548	0.02404	84.3	40	113			
Benzo[a]anthracene		1.30	0.0774	1.548	0.1119	76.9	52	108			
Benzo[a]pyrene		1.34	0.0774	1.548	0.1076	79.7	48	115			
Benzo[b]fluoranthene		1.40	0.0774	1.548	0.1647	80.0	43	115			
Benzo[g,h,i]perylene		1.15	0.0774	1.548	0.07370	69.5	47	123			
Benzo[k]fluoranthene		1.28	0.0774	1.548	0.05460	79.4	54	118			
Chrysene		1.25	0.0774	1.548	0.1056	74.2	56	115			
Dibenz[a,h]anthracene		1.13	0.0774	1.548	0	72.9	43	120			
Fluoranthene		1.22	0.0774	1.548	0.1610	68.2	41	108			
Fluorene		1.20	0.0774	1.548	0	77.8	47	128			
Indeno[1,2,3-cd]pyrene		1.16	0.0774	1.548	0.05595	71.2	46	119			
Naphthalene		1.19	0.0774	1.548	0	76.7	55	113			
Phenanthrene		1.23	0.0774	1.548	0.09241	73.5	55	114			
Pyrene		1.57	0.0774	1.548	0.1851	89.7	42	125			
Surr: 2-Fluorobiphenyl		6.13		6.192		99.0	40	140			
Surr: 4-Terphenyl-d14		5.26		6.192		85.0	40	140			
Surr: Nitrobenzene-d5		7.04		6.192		114	40	140			

Sample ID:	0811118-01A-MSD	Batch ID:	32408			TestNo:	SW8270C		Units:	mg/Kg-dry		
SampType:	MSD	Run ID:	GCMS6_081118A			Analysis Date:	11/18/08 11:35 PM		Prep Date:	11/18/08		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Acenaphthene		1.06	0.0755	1.509	0	70.2	56	114	9.59	25		
Acenaphthylene		1.11	0.0755	1.509	0	73.3	56	116	8.98	25		
Anthracene		1.22	0.0755	1.509	0.02404	79.0	40	113	8.76	25		
Benzo[a]anthracene		1.18	0.0755	1.509	0.1119	71.1	52	108	9.40	25		
Benzo[a]pyrene		1.23	0.0755	1.509	0.1076	74.1	48	115	9.10	25		
Benzo[b]fluoranthene		1.24	0.0755	1.509	0.1647	71.3	43	115	12.3	25		
Benzo[g,h,i]perylene		1.07	0.0755	1.509	0.07370	65.9	47	123	7.30	25		
Benzo[k]fluoranthene		1.20	0.0755	1.509	0.05460	76.2	54	118	6.36	25		
Chrysene		1.14	0.0755	1.509	0.1056	68.8	56	115	9.17	25		
Dibenz[a,h]anthracene		1.07	0.0755	1.509	0	71.1	43	120	5.14	25		
Fluoranthene		1.10	0.0755	1.509	0.1610	62.4	41	108	9.77	25		
Fluorene		1.10	0.0755	1.509	0	72.8	47	128	9.11	25		
Indeno[1,2,3-cd]pyrene		1.08	0.0755	1.509	0.05595	67.7	46	119	7.19	25		
Naphthalene		1.09	0.0755	1.509	0	72.0	55	113	8.88	25		
Phenanthrene		1.14	0.0755	1.509	0.09241	69.1	55	114	7.94	25		
Pyrene		1.42	0.0755	1.509	0.1851	81.7	42	125	10.3	25		
Surr: 2-Fluorobiphenyl		5.72		6.036		94.8	40	140	0	25		
Surr: 4-Terphenyl-d14		4.89		6.036		81.0	40	140	0	25		
Surr: Nitrobenzene-d5		6.50		6.036		108	40	140	0	25		

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0811118
 Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_081118A

Sample ID:	ICV-081118	Batch ID:	R40686	TestNo:	SW8270C	Units:	mg/Kg			
SampType:	ICV	Run ID:	GCMS6_081118A	Analysis Date:	11/18/08 02:54 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Acenaphthene	1.88	0.0500	2.000	0	93.9	80	120			
Acenaphthylene	1.92	0.0500	2.000	0	95.9	80	120			
Anthracene	1.95	0.0500	2.000	0	97.7	80	120			
Benzo[a]anthracene	1.81	0.0500	2.000	0	90.7	80	120			
Benzo[a]pyrene	2.00	0.0500	2.000	0	99.9	80	120			
Benzo[b]fluoranthene	2.12	0.0500	2.000	0	106	80	120			
Benzo[g,h,i]perylene	1.81	0.0500	2.000	0	90.3	80	120			
Benzo[k]fluoranthene	2.11	0.0500	2.000	0	106	80	120			
Chrysene	1.76	0.0500	2.000	0	88.1	80	120			
Dibenz[a,h]anthracene	1.90	0.0500	2.000	0	94.9	80	120			
Fluoranthene	1.77	0.0500	2.000	0	88.6	80	120			
Fluorene	1.92	0.0500	2.000	0	95.9	80	120			
Indeno[1,2,3-cd]pyrene	1.92	0.0500	2.000	0	96.1	80	120			
Naphthalene	1.97	0.0500	2.000	0	98.5	80	120			
Phenanthrene	1.80	0.0500	2.000	0	90.1	80	120			
Pyrene	2.02	0.0500	2.000	0	101	80	120			
Surr: 2-Fluorobiphenyl	2.05		2.000		103	40	140			
Surr: 4-Terphenyl-d14	1.70		2.000		85.2	40	140			
Surr: Nitrobenzene-d5	2.44		2.000		122	40	140			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
Work Order: 0811118
Project: Swift Site

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_081118A

Sample ID:	0811118-03b dup	Batch ID:	PMOIST_081118A	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_081118A	Analysis Date:	11/18/08 05:20 PM	Prep Date:	11/18/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	36.5	0	0	37.70				3.11	30	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
Work Order: 0811118
Project: Swift Site

MQL SUMMARY REPORT

TestNo: SW7471A	MDL	MQL
Analyte	mg/Kg	mg/Kg

Mercury	0.0160	0.0400
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TestNo: SW6020	MDL	MQL
Analyte	mg/Kg	mg/Kg

Arsenic	0.500	1.00
Barium	0.500	2.00
Cadmium	0.100	0.300
Chromium	0.500	2.00
Lead	0.100	0.300
Selenium	0.150	0.500
Silver	0.100	0.200

TestNo: SW8270C	MDL	MQL
Analyte	mg/Kg	mg/Kg

Acenaphthene	0.0200	0.0500
Acenaphthylene	0.0100	0.0500
Anthracene	0.0100	0.0500
Benzo[a]anthracene	0.0200	0.0500
Benzo[a]pyrene	0.0300	0.0500
Benzo[b]fluoranthene	0.0200	0.0500
Benzo[g,h,i]perylene	0.0200	0.0500
Benzo[k]fluoranthene	0.0300	0.0500
Chrysene	0.0200	0.0500
Dibenz[a,h]anthracene	0.0200	0.0500
Fluoranthene	0.0100	0.0500
Fluorene	0.0100	0.0500
Indeno[1,2,3-cd]pyrene	0.0100	0.0500
Naphthalene	0.0100	0.0500
Phenanthrene	0.0100	0.0500
Pyrene	0.0200	0.0500

Qualifiers:

MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP