



February 29, 2012

Mr. Merlin D. Russell, Jr.
Florida Department of Environmental Protection
Hazardous Waste Regulation Section
2600 Blair Stone Road MS 4560
Tallahassee, FL 32399-2400

RE: Sediment Sampling Report
8th Avenue Property Stormwater Retention Pond
EQ Florida, Inc., Tampa, Hillsborough County, FL

Dear Mr. Russell:

EQ Florida, Inc. retained Kleinfelder to prepare this sediment sampling report for the above-referenced facility. It includes a description of the sediment sampling activities and the laboratory analysis completed within the new "wet" stormwater retention pond located on the 8th Avenue property at the EQ facility.

Should you have questions or require additional information, please do not hesitate to contact me at (813) 887-3900 or via e-mail at cpoole@kleinfelder.com.

Sincerely,

KLEINFELDER

A handwritten signature in black ink that reads "C. B. Poole". The signature is written in a cursive, flowing style.

Christopher B. Poole, PG, CPG
Associate, Program Manager

JDR/CBP/at
Attachment

cc: Stuart Stapleton, EQ Florida, Inc.
Project File



SEDIMENT SAMPLING REPORT

8th Avenue Property Stormwater Retention Pond EQ Florida, Inc., Tampa, Hillsborough County, Florida

Project 122708
TAM12R0205
February 29, 2012

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**ONLY THE CLIENT OR ITS DESIGNATED REPRESENTATIVES MAY USE THIS DOCUMENT AND
ONLY FOR THE SPECIFIC PROJECT FOR WHICH THIS REPORT WAS PREPARED.**

A Report Prepared for:

Mr. Stuart Stapleton, CHMM
EQ Florida, Inc.
7202 East 8th Avenue
Tampa, FL 33619

**SEDIMENT SAMPLING REPORT
8TH AVENUE PROPERTY STORMWATER RETENTION POND
EQ FLORIDA, INC., TAMPA, HILLSBOROUGH COUNTY, FLORIDA**

Project 122708
TAM12R0205
February 29, 2012

Prepared by:


_____ for

Jesse D. Reade
Environmental Scientist



Christopher B. Poole, PG, CPG
Associate, Program Manager

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1.0 INTRODUCTION

This report summarizes the sediment sampling activities completed at the EQ Florida, Inc. facility located at 7202 East 8th Avenue, Tampa, Florida 33619. The activities discussed herein were completed in general accordance with the *Sediment Sampling and Analysis Plan*, dated December 23, 2011, prepared in support of these activities and the supplemental requirements provided in the Florida Department of Environmental Protection (FDEP) approval letter, dated January 4, 2012, attached hereto as Appendix A.

1.1 SITE BACKGROUND

EQ Florida, Inc. is a division of EQ Holding Company (EQ) of Wayne, Michigan. EQ owns and operates a permitted solid waste processing facility (FDEP ID #SWD/29/44633) in combination with a hazardous waste treatment and storage facility (US Environmental Protection Agency [EPA] ID #FLD981932494), hereinafter referred to as “the facility.” The facility is approximately 4.53-acres in size and is located on two contiguous properties: 2002 North Orient Road (hereinafter referred to as the “Orient Road property”) and 7202 East 8th Avenue (hereinafter referred to as the “8th Avenue property”) in Tampa, Florida. Figure 1 is a site location map and Figure 2 is a site plan which presents the layout of the facility and identifies key site areas and features.

In addition to being a permitted solid waste operation, the EQ facility is also registered as a hazardous waste treatment and storage facility (TSDF), a 10-day hazardous waste transfer facility, a used oil and filter collection facility, and a universal waste and mercury containing lamps and devices storage facility. The hazardous waste operations are conducted at the facility in accordance with FDEP hazardous waste operating permit # 34875-HO-009.

1.1.1 8th Avenue Stormwater Retention Pond

A new “wet” stormwater retention pond was designed, constructed, and placed into operation during July 2010 in the northwest corner of the 8th Avenue property. The pond was constructed to support the expansion of operations in the waste processing building located here and exclusively collects stormwater runoff from the roof of the building. It was sized for both the permanent pool volume required and the 1-inch runoff storage (temporary pool). The pond is identified as Solid Waste Management Unit (SWMU) #15 under the facility’s hazardous waste operating permit.

1.2 PURPOSE

Baseline sediment sampling was requested by FDEP in the stormwater retention pond located on the 8th Avenue property under the provisions of the facility's hazardous waste operating permit. This report summarizes the results and findings of this baseline sediment sampling, and provides recommendations, as appropriate.

2.0 FIELD INVESTIGATION

This section describes the sampling methodology, handling procedures, and laboratory analytical methods used during the baseline sediment sampling activities.

2.1 SEDIMENT SAMPLING METHODOLOGY

A Kleinfelder staff scientist arrived at the 8th Avenue property on January 27, 2012, and accessed the stormwater retention pond to collect sediment samples at two locations: near the inlet pipe to the pond; and the emergency outfall control structure. A sample location plan is provided as Figure 3. The sediment sampling locations were staked and located in the field using a handheld global positioning system (GPS) unit. Soil screening was completed in general accordance with Florida Department of Environmental Protection (FDEP) guidelines and standard operating procedures (SOPs). Sampling equipment was properly decontaminated prior to the initiation of sampling activities and between sampling locations.

Soil samples were obtained at the two locations using a hand auger from depths of approximately 0 to 12 inches below the bottom surface of the pond and placed in eight-ounce mason jars for field screening. After allowing the samples to equilibrate, volatiles were measured in the headspace using an organic vapor analyzer (OVA) equipped with a photo-ionization detector (PID). Sediment screening data collected using the OVA-PID indicated field readings of 0.0 parts per million (ppm) at both sediment sampling locations.

Soil was logged for lithology, soil type, color, texture, and grain size in general accordance with the Unified Soil Classification System (USCS). Other physical characteristics were recorded on field boring logs, including unique sample characteristics such as inclusions, staining, and detectable odors, if applicable. Soil lithology encountered in the sampled interval was predominantly characterized as grey medium-grained sand with some organic materials. Soil boring logs are attached as Appendix B.

2.2 SAMPLE HANDLING & CUSTODY

All collected samples were placed directly into laboratory-provided containers and placed in a cooler on ice. Upon completion of the sampling event, a chain of custody was completed for the samples to document the desired analytical procedures, analysis time (standard turnaround time of 10 working days) and custody record. The chain of custody was placed in the sample cooler and followed the samples through the laboratory analytical process. The sample cooler was sealed with a custody seal when

fieldwork was completed. The samples were properly packaged, preserved, and transferred to Accutest Laboratories Southeast (Accutest), a Florida Department of Health (FDOH)-certified laboratory (Certification #E83510) for analysis under standard chain of custody protocol.

2.3 LABORATORY ANALYTICAL METHODS

The analytical parameters for the sediment samples were consistent with those provided by FDEP in their approval letter attached hereto (see Appendix A). Specifically, the collected sediment samples were analyzed for:

- Volatile Organic Compounds (VOCs) by EPA Method 8260B;
- Semi-volatile Organic Compounds (SVOCs) by EPA Method 8270D; and
- Resource Conservation and Recovery Act (RCRA) Metals by EPA Methods 3050B and 7471B

The laboratory analytical data for the sediment samples were reported and transmitted by Accutest in hardcopy format. The complete Accutest laboratory analytical report with chain of custody documentation is provided in Appendix C.

3.0 RESULTS

This section provides a summary of analytical results from the collected sediment samples and, where available, applicable regulatory criteria.

3.1 SEDIMENT SAMPLE RESULTS

The FDEP has developed interim Sediment Quality Assessment Guidelines (SQAGs) as provided in the technical report titled *Development and Evaluation of Numerical Sediment Quality Assessment Guidelines for Florida Inland Waters*, dated January 2003. Specifically, effects-based SQAGs and bioaccumulation-based SQAGs were evaluated and developed. The effects-based SQAGs, referred to as Threshold Effect Concentrations (TEC) and Probable Effect Concentrations (PEC), are intended to provide a means of determining the concentrations of sediment-associated contaminants that are unlikely to be associated with adverse biological effects (TECs) and those that are likely to be associated with sediment toxicity or other adverse effects on sediment dwelling organisms (PECs). By comparison, the bioaccumulation-based SQAGs are intended to identify the concentrations of sediment-associated contaminants that are unlikely to be associated with adverse effects on aquatic-dependent wildlife (Wildlife-Based SQAGs) or human health (Human Health-Based SQAGs). For the purposes of this baseline assessment, the sediment sample analytical results were compared to the effects-based TECs and PECs, where available, as discussed further below:

3.1.1 VOCs

Methylene chloride was detected in samples SB-1 and SB-2 at low levels above the laboratory method detection limit (MDL). Effects-based SQAGs are not available for this chemical of concern (COC). No other VOCs were detected in the sediment samples.

3.1.2 SVOCs

Benzo(a)anthracene, benzo(b)fluoranthene, chrysene, fluoranthene, and pyrene were detected in sample SB-2 at concentrations above the laboratory MDL, but below their associated TECs and PECs. Effects-based SQAGs are not available for benzo(b)fluoranthene. No other SVOCs were detected in the sediment samples.

3.1.3 METALS

Arsenic, barium, cadmium, chromium, lead, mercury, and selenium were detected in samples SB-1 and SB-2 at concentrations above the laboratory MDL, but below their associated TECs and PECs, with the exception of barium in sample SB-2. The barium concentration in this sample was above the TEC, but below the PEC. Effects-based SQAGs are not available for selenium.

4.0 FINDINGS

Baseline sediment sampling was completed as discussed herein in the stormwater retention pond located on the 8th Avenue property as requested by the FDEP. The sediment sample analytical results revealed low levels of COCs present at concentrations lower than effects-based SQAGs, where available, with the exception of barium in sample SB-2. The concentration of barium in this sample was just above the TEC, but well below the PEC.

Based on the results of the baseline sediment sampling activities discussed herein, Kleinfelder recommends no further assessment in the stormwater retention pond located on the 8th Avenue property at the facility.

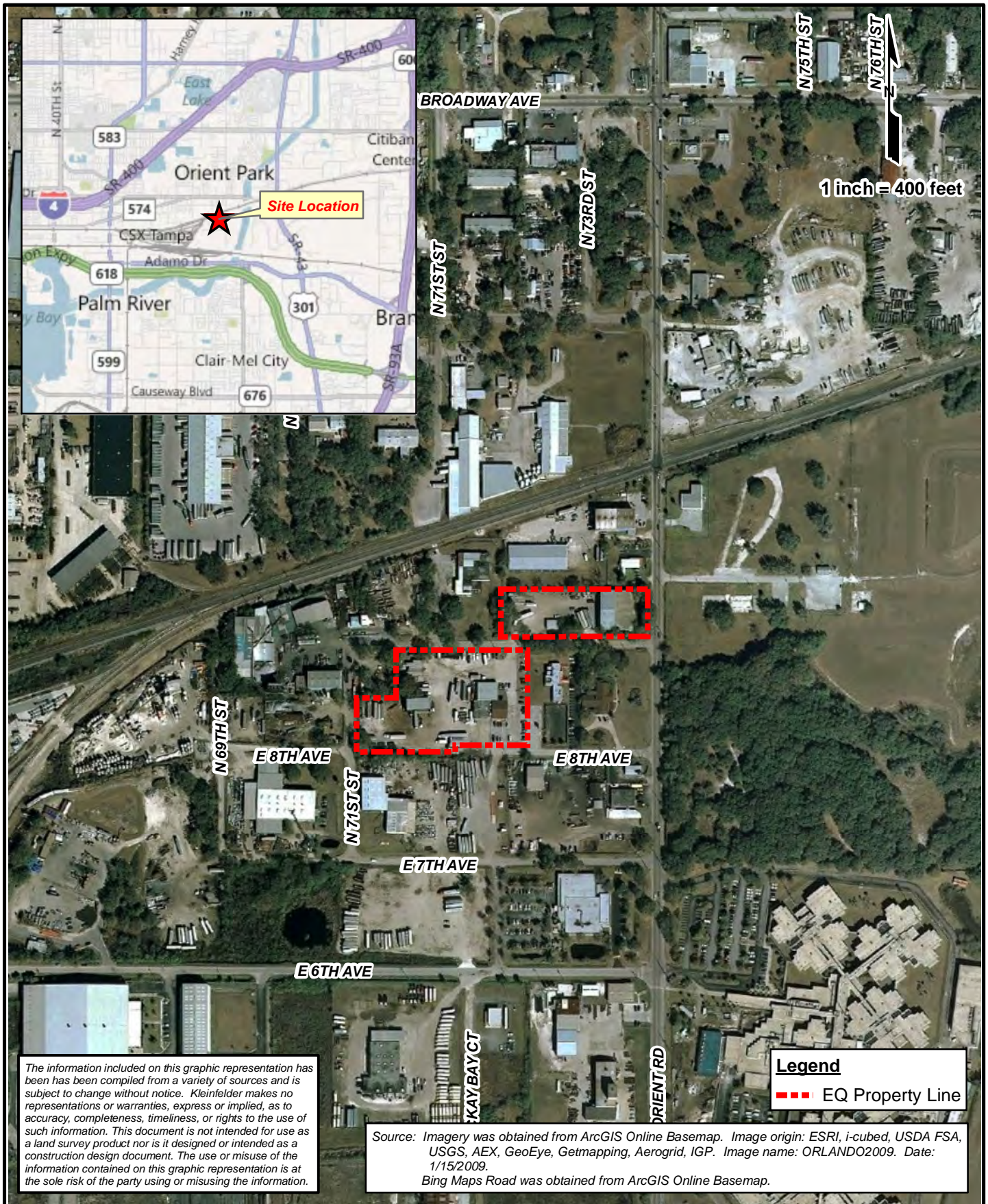
5.0 LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This report may be used only by the Client and the registered design professional in responsible charge and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.

The work performed was based on project information provided by Client. If Client does not retain Kleinfelder to review any plans and specifications, including any revisions or modifications to the plans and specifications, Kleinfelder assumes no responsibility for the suitability of our recommendations. In addition, if there are any changes in the field to the plans and specifications, Client must obtain written approval from Kleinfelder's engineer that such changes do not affect our recommendations. Failure to do so will vitiate Kleinfelder's recommendations.

FIGURES



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Source: Imagery was obtained from ArcGIS Online Basemap. Image origin: ESRI, i-cubed, USDA FSA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGP. Image name: ORLANDO2009. Date: 1/15/2009.
 Bing Maps Road was obtained from ArcGIS Online Basemap.

Legend
 ■■■ EQ Property Line

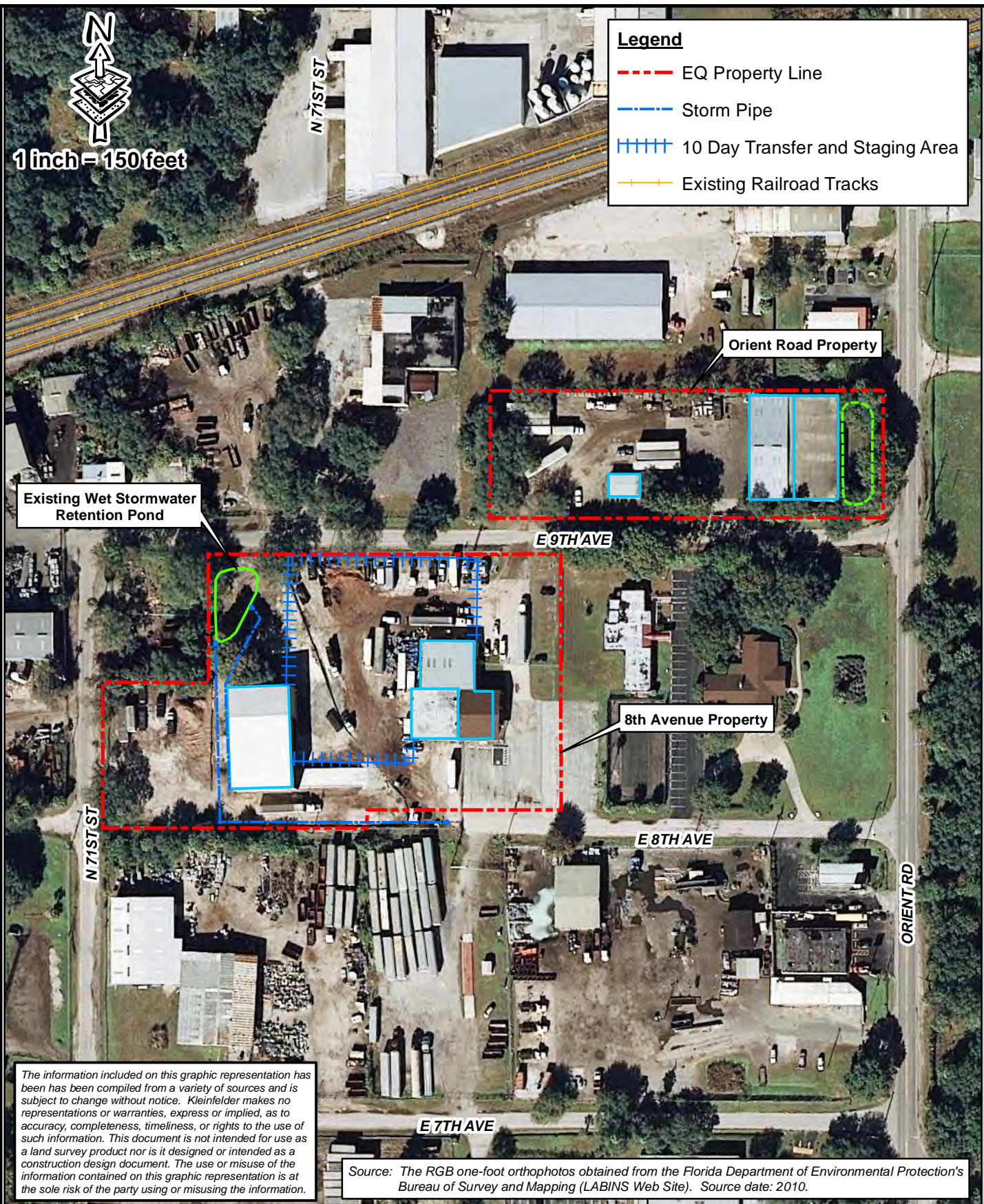
	PROJECT NO.: 122708	Site Location Map	FIGURE
	DRAWN: 12/14/11		
	DRAWN BY: NTL	EQ Florida Hillsborough County, Florida	1
	CHECKED BY: JR		
FILE NAME: 11-1214--Site Location Map.mxd			



1 inch = 150 feet

Legend

- - - EQ Property Line
- - - Storm Pipe
- ++++ 10 Day Transfer and Staging Area
- + + + Existing Railroad Tracks



Existing Wet Stormwater Retention Pond

Orient Road Property

8th Avenue Property

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Source: The RGB one-foot orthophotos obtained from the Florida Department of Environmental Protection's Bureau of Survey and Mapping (LABINS Web Site). Source date: 2010.



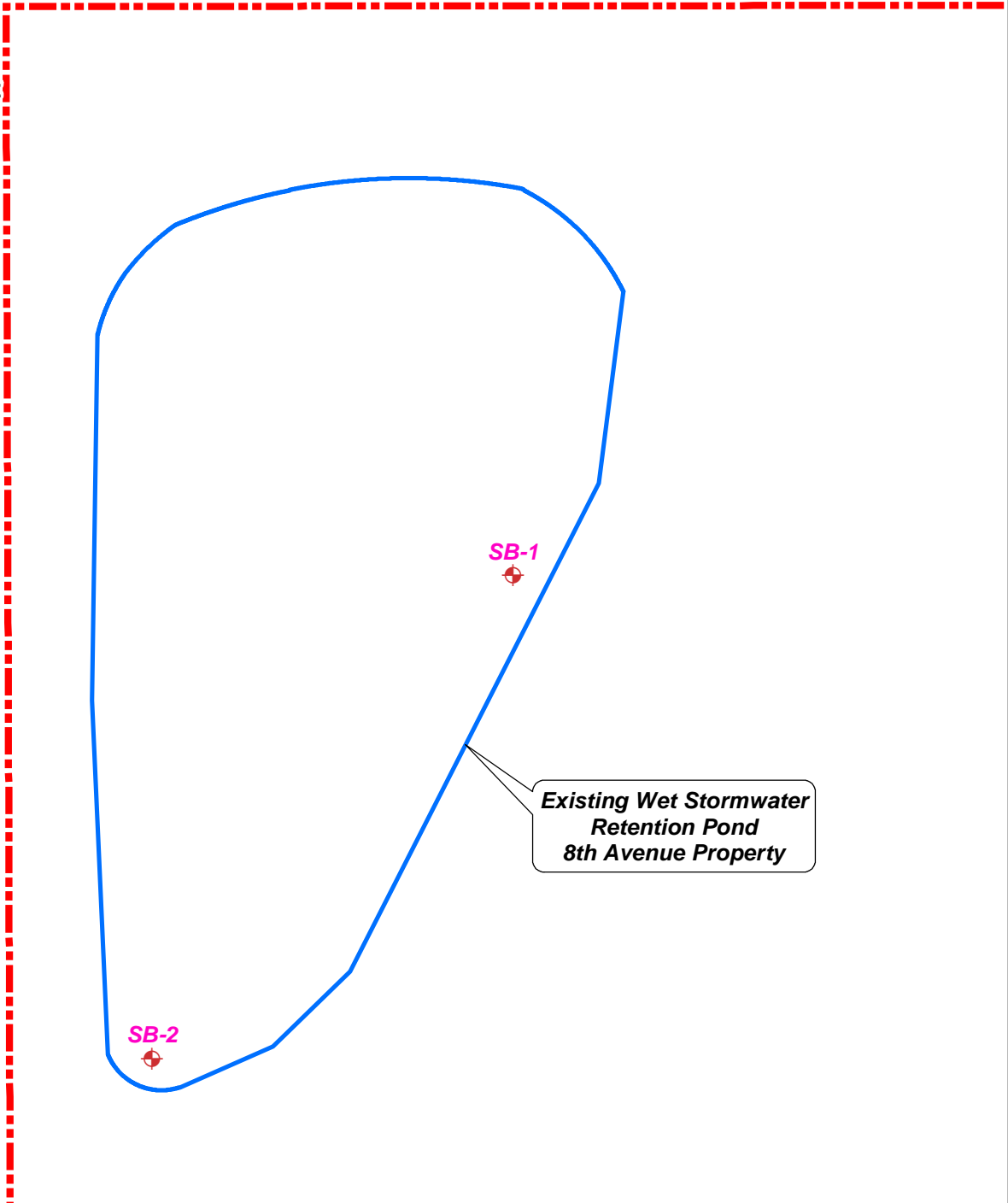
PROJECT NO.: 122708
 DRAWN: 12/14/11
 DRAWN BY: NTL
 CHECKED BY: JR
 FILE NAME:
 11-1214--Site Plan.mxd

Site Plan
 EQ Florida
 Hillsborough County, Florida

FIGURE
 2



1 inch = 15 feet



**Existing Wet Stormwater Retention Pond
8th Avenue Property**

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Legend
- - - - EQ Property Line



PROJECT NO.: 122708
DRAWN: 2/22/12
DRAWN BY: NTL
CHECKED BY: JR
FILE NAME: 12-0222--Sample Location Plan.mxd

Sample Location Plan
EQ Florida
Hillsborough County, Florida

FIGURE
3

APPENDIX A

FDEP Approval Letter



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

January 4, 2012

SENT VIA E-MAIL

stuart.stapleton@eqonline.com

Mr. Stuart Stapleton
EHS Manager
EQ Florida, Inc.
7202 E. 8th Avenue
Tampa, Florida 33619

Subject: EQ Florida, Inc.; FLD 981 932 494; Operating Permit 34875-HO-009, *Sediment Sampling and Analysis Plan, 8th Avenue Property Stormwater Retention Pond, EQ Florida, Inc., Tampa, Hillsborough County, Florida* dated December 23, 2011

Dear Mr. Stapleton:

The document is conditionally approved. Ensure that the following comments are addressed with the sampling and reporting.

The analyte list should ideally be based upon parameters reasonably expected to be captured in the pond. Figure 2 of the Plan identifies two storm pipes entering the pond, one leading from the building to the south of the pond and one from the southern property boundary that suggests an offsite source of stormwater, in part. Therefore, our recommendation is to sample for RCRA metals, and the 8260 volatile and 8270 semi-volatile suites; however, two samples should suffice. We recommend one from the northern portion of the pond and one from the southern portion of the pond.

As required by Specific Condition Part V.4, you must submit a Confirmatory Sampling Report (CSR) within 60 calendar days (March 5, 2012). To assist in your description of the development and construction history of the pond, it would be best to consolidate the information found in Parts P and Q of the Hazardous Waste Permit Application and the May 13, 2011 RFA Addendum. Your report may include previous data from within and near the pond (if any).

As a reminder, one hard copy of all documents must be submitted to the District FDEP office per Specific Condition 16.c. One hard copy and the electronic copy must be submitted to Tallahassee (Specific Condition 16.a and b).

Mr. Stuart Stapleton
Page 2 of 2
January 4, 2012

If you have any questions, please call me at 850-245-8796 or
merlin.russell@dep.state.fl.us

Sincerely,

A handwritten signature in black ink that reads "Merlin D. Russell Jr." with a horizontal line extending to the right.

Merlin D. Russell Jr.
Professional Geologist II
Hazardous Waste Regulation

MR/mdr

cc via e-mail:

Shannon Camp, DEP Tampa, Shannon.Camp@fldep.net

Jim Dregne, DEP Tampa, James.Dregne@dep.state.fl.us

Christopher Poole, Kleinfelder, cpoole@kleinfelder.com

APPENDIX B

Soil Boring Logs



BORING LOG

Boring/Well Number: SB-2		Permit Number:		FDEP Facility Identification Number:	
Site Name: EQ FL, Inc		Borehole Start Date: 1/27	Borehole Start Time: 10:01 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
		End Date: 1/27	End Time: 10:07 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Environmental Contractor: Kleinfelder		Geologist's Name:		Environmental Technician's Name:	
Drilling Company:		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 in		Borehole Depth (feet): 12 inches
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input type="checkbox"/> FID <input type="checkbox"/>	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input checked="" type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i> sample					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0 - 1	12 in			20		1	Grey medium grain soils	MS	M	SB-2
							2			W	
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated



BORING LOG

Boring/Well Number: SB-1		Permit Number:		FDEP Facility Identification Number:	
Site Name: EQ FL, Inc.		Borehole Start Date: 1/27		Borehole Start Time: 9:40 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: 1/27		End Time: 9:48 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: Kleinfelder		Geologist's Name:		Environmental Technician's Name:	
Drilling Company:		Pavement Thickness (inches): N/A		Borehole Diameter (inches): 2 in	
				Borehole Depth (feet): 12 inches	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content):		Measured Well DTW (in feet after water recharges in well):	
				OVA (list model and check type): <input type="checkbox"/> FID <input type="checkbox"/>	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input checked="" type="checkbox"/> Other					
<i>(describe if other or multiple items are checked):</i> Sample					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-1	12		1	0.0	1	1 2 3 4 5 6 7 8 9 10 11 12	Grey medium grain soils, Dark organic matter, no odor		M 3	SB-1

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

APPENDIX C

Laboratory Analytical Report

Technical Report for

Kleinfelder

EQ Florida Sediment Sampling

Accutest Job Number: F89846

Sampling Date: 01/27/12


Report to:

**Kleinfelder
3919 Riga Blvd
Tampa, FL 33619
jreade@kleinfelder.com; cpoole@kleinfelder.com
ATTN: Jesse Reade**

Total number of pages in report: 51



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


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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1

2

3

4

5

6



Sample Summary

Kleinfelder

Job No: F89846

EQ Florida Sediment Sampling

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F89846-1	01/27/12	09:49 JR	01/28/12	SO	Soil	SB-1
F89846-2	01/27/12	10:08 JR	01/28/12	SO	Soil	SB-2

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



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SB-1		Date Sampled: 01/27/12
Lab Sample ID: F89846-1		Date Received: 01/28/12
Matrix: SO - Soil		Percent Solids: 80.7
Method: SW846 8260B		
Project: EQ Florida Sediment Sampling		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0078216.D	1	01/31/12	EP	n/a	n/a	VG2887
Run #2							

Run #1	Initial Weight
Run #1	10.6 g
Run #2	

VOA PPL List + MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
107-02-8	Acrolein ^a	6.4 U	15	6.4	ug/kg	
107-13-1	Acrylonitrile	6.7 U	15	6.7	ug/kg	
71-43-2	Benzene	0.88 U	2.9	0.88	ug/kg	
75-27-4	Bromodichloromethane	0.64 U	2.9	0.64	ug/kg	
75-25-2	Bromoform	0.88 U	2.9	0.88	ug/kg	
108-90-7	Chlorobenzene	0.58 U	2.9	0.58	ug/kg	
75-00-3	Chloroethane	1.2 U	2.9	1.2	ug/kg	
67-66-3	Chloroform	0.70 U	2.9	0.70	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	5.8 U	15	5.8	ug/kg	
56-23-5	Carbon tetrachloride	1.1 U	2.9	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	0.64 U	2.9	0.64	ug/kg	
75-35-4	1,1-Dichloroethylene	0.82 U	2.9	0.82	ug/kg	
107-06-2	1,2-Dichloroethane	0.58 U	2.9	0.58	ug/kg	
78-87-5	1,2-Dichloropropane	0.70 U	2.9	0.70	ug/kg	
124-48-1	Dibromochloromethane	0.58 U	2.9	0.58	ug/kg	
75-71-8	Dichlorodifluoromethane	0.88 U	2.9	0.88	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	0.88 U	2.9	0.88	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.58 U	2.9	0.58	ug/kg	
541-73-1	m-Dichlorobenzene	0.70 U	2.9	0.70	ug/kg	
95-50-1	o-Dichlorobenzene	0.64 U	2.9	0.64	ug/kg	
106-46-7	p-Dichlorobenzene	0.64 U	2.9	0.64	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.88 U	2.9	0.88	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.64 U	2.9	0.64	ug/kg	
100-41-4	Ethylbenzene	0.58 U	2.9	0.58	ug/kg	
74-83-9	Methyl bromide	1.2 U	2.9	1.2	ug/kg	
74-87-3	Methyl chloride	1.2 U	2.9	1.2	ug/kg	
75-09-2	Methylene chloride	2.8	5.8	2.7	ug/kg	VI
1634-04-4	Methyl Tert Butyl Ether	1.2 U	2.9	1.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.64 U	2.9	0.64	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.70 U	2.9	0.70	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.64 U	2.9	0.64	ug/kg	
127-18-4	Tetrachloroethylene	0.58 U	2.9	0.58	ug/kg	

U = Not detected MDL - Method Detection Limit

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1	Date Sampled: 01/27/12
Lab Sample ID: F89846-1	Date Received: 01/28/12
Matrix: SO - Soil	Percent Solids: 80.7
Method: SW846 8260B	
Project: EQ Florida Sediment Sampling	

VOA PPL List + MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
108-88-3	Toluene	0.70 U	2.9	0.70	ug/kg	
79-01-6	Trichloroethylene	0.70 U	2.9	0.70	ug/kg	
75-69-4	Trichlorofluoromethane	1.2 U	2.9	1.2	ug/kg	
75-01-4	Vinyl chloride	0.88 U	2.9	0.88	ug/kg	
1330-20-7	Xylene (total)	1.9 U	8.8	1.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-121%
2037-26-5	Toluene-D8	98%		71-130%
460-00-4	4-Bromofluorobenzene	112%		59-148%
17060-07-0	1,2-Dichloroethane-D4	113%		77-123%

(a) Associated BS recovery outside control limits.

U = Not detected MDL - Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1		
Lab Sample ID: F89846-1		Date Sampled: 01/27/12
Matrix: SO - Soil		Date Received: 01/28/12
Method: SW846 8270D SW846 3550C		Percent Solids: 80.7
Project: EQ Florida Sediment Sampling		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022222.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN PPL List + 1&2 Methyl Naphthalene

CAS No.	Compound	Result	PQL	MDL	Units	Q
95-57-8	2-Chlorophenol	21 U	210	21	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	21 U	210	21	ug/kg	
120-83-2	2,4-Dichlorophenol	21 U	210	21	ug/kg	
105-67-9	2,4-Dimethylphenol	26 U	210	26	ug/kg	
51-28-5	2,4-Dinitrophenol	410 U	1000	410	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	82 U	410	82	ug/kg	
88-75-5	2-Nitrophenol	21 U	210	21	ug/kg	
100-02-7	4-Nitrophenol	160 U	1000	160	ug/kg	
87-86-5	Pentachlorophenol	250 U	1000	250	ug/kg	
108-95-2	Phenol	21 U	210	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	21 U	210	21	ug/kg	
83-32-9	Acenaphthene	21 U	210	21	ug/kg	
208-96-8	Acenaphthylene	21 U	210	21	ug/kg	
120-12-7	Anthracene	21 U	210	21	ug/kg	
92-87-5	Benzidine	410 U	2100	410	ug/kg	
56-55-3	Benzo(a)anthracene	21 U	210	21	ug/kg	
50-32-8	Benzo(a)pyrene	21 U	210	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	21 U	210	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	21 U	210	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	21 U	210	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	21 U	210	21	ug/kg	
85-68-7	Butyl benzyl phthalate	41 U	210	41	ug/kg	
91-58-7	2-Chloronaphthalene	41 U	210	41	ug/kg	
106-47-8	4-Chloroaniline	21 U	210	21	ug/kg	
218-01-9	Chrysene	21 U	210	21	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	21 U	210	21	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	21 U	210	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	21 U	210	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	21 U	210	21	ug/kg	
95-50-1	1,2-Dichlorobenzene	41 U	210	41	ug/kg	
122-66-7	1,2-Diphenylhydrazine	21 U	210	21	ug/kg	
541-73-1	1,3-Dichlorobenzene	41 U	210	41	ug/kg	

U = Not detected MDL - Method Detection Limit

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1	Date Sampled:	01/27/12
Lab Sample ID:	F89846-1	Date Received:	01/28/12
Matrix:	SO - Soil	Percent Solids:	80.7
Method:	SW846 8270D SW846 3550C		
Project:	EQ Florida Sediment Sampling		

ABN PPL List + 1&2 Methyl Naphthalene

CAS No.	Compound	Result	PQL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	41 U	210	41	ug/kg	
121-14-2	2,4-Dinitrotoluene	21 U	210	21	ug/kg	
606-20-2	2,6-Dinitrotoluene	24 U	210	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	41 U	410	41	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	21 U	210	21	ug/kg	
84-74-2	Di-n-butyl phthalate	82 U	410	82	ug/kg	
117-84-0	Di-n-octyl phthalate	41 U	210	41	ug/kg	
84-66-2	Diethyl phthalate	82 U	410	82	ug/kg	
131-11-3	Dimethyl phthalate	41 U	210	41	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	82 U	410	82	ug/kg	
206-44-0	Fluoranthene	21 U	210	21	ug/kg	
86-73-7	Fluorene	21 U	210	21	ug/kg	
118-74-1	Hexachlorobenzene	21 U	210	21	ug/kg	
87-68-3	Hexachlorobutadiene	41 U	210	41	ug/kg	
77-47-4	Hexachlorocyclopentadiene	91 U	210	91	ug/kg	
67-72-1	Hexachloroethane	41 U	210	41	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	21 U	210	21	ug/kg	
78-59-1	Isophorone	21 U	210	21	ug/kg	
90-12-0	1-Methylnaphthalene	21 U	210	21	ug/kg	
91-57-6	2-Methylnaphthalene	21 U	210	21	ug/kg	
91-20-3	Naphthalene	33 U	210	33	ug/kg	
98-95-3	Nitrobenzene	21 U	210	21	ug/kg	
62-75-9	N-Nitrosodimethylamine	86 U	410	86	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	21 U	210	21	ug/kg	
86-30-6	N-Nitrosodiphenylamine	21 U	210	21	ug/kg	
85-01-8	Phenanthrene	21 U	210	21	ug/kg	
129-00-0	Pyrene	21 U	210	21	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	21 U	210	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		40-102%
4165-62-2	Phenol-d5	57%		41-100%
118-79-6	2,4,6-Tribromophenol	70%		42-108%
4165-60-0	Nitrobenzene-d5	48%		40-105%
321-60-8	2-Fluorobiphenyl	56%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result \geq MDL but $<$ PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1	Date Sampled: 01/27/12
Lab Sample ID: F89846-1	Date Received: 01/28/12
Matrix: SO - Soil	Percent Solids: 80.7
Project: EQ Florida Sediment Sampling	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.21 I	0.52	0.10	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Barium	14.7	10	0.52	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.27	0.21	0.052	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Chromium	5.4	0.52	0.052	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Lead	22.0	1.0	0.052	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.034 I	0.10	0.010	mg/kg	1	02/07/12	02/07/12 LM	SW846 7471B ¹	SW846 7471B ³
Selenium	0.24 I	1.0	0.21	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Silver	0.052 U	0.52	0.052	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA9566
- (2) Instrument QC Batch: MA9573
- (3) Prep QC Batch: MP22218
- (4) Prep QC Batch: MP22243

PQL = Practical Quantitation Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: SB-2		Date Sampled: 01/27/12
Lab Sample ID: F89846-2		Date Received: 01/28/12
Matrix: SO - Soil		Percent Solids: 83.5
Method: SW846 8260B		
Project: EQ Florida Sediment Sampling		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0078227.D	1	01/31/12	EP	n/a	n/a	VG2887
Run #2 ^a	G0078217.D	1	01/31/12	EP	n/a	n/a	VG2887

Run #	Initial Weight
Run #1	9.35 g
Run #2	8.64 g

VOA PPL List + MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
107-02-8	Acrolein ^b	7.0 U	16	7.0	ug/kg	
107-13-1	Acrylonitrile	7.3 U	16	7.3	ug/kg	
71-43-2	Benzene	0.96 U	3.2	0.96	ug/kg	
75-27-4	Bromodichloromethane	0.70 U	3.2	0.70	ug/kg	
75-25-2	Bromoform	0.96 U	3.2	0.96	ug/kg	
108-90-7	Chlorobenzene	0.64 U	3.2	0.64	ug/kg	
75-00-3	Chloroethane	1.3 U	3.2	1.3	ug/kg	
67-66-3	Chloroform	0.77 U	3.2	0.77	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	6.4 U	16	6.4	ug/kg	
56-23-5	Carbon tetrachloride	1.2 U	3.2	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	0.70 U	3.2	0.70	ug/kg	
75-35-4	1,1-Dichloroethylene	0.90 U	3.2	0.90	ug/kg	
107-06-2	1,2-Dichloroethane	0.64 U	3.2	0.64	ug/kg	
78-87-5	1,2-Dichloropropane	0.77 U	3.2	0.77	ug/kg	
124-48-1	Dibromochloromethane	0.64 U	3.2	0.64	ug/kg	
75-71-8	Dichlorodifluoromethane	0.96 U	3.2	0.96	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	0.96 U	3.2	0.96	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.64 U	3.2	0.64	ug/kg	
541-73-1	m-Dichlorobenzene	0.77 U	3.2	0.77	ug/kg	
95-50-1	o-Dichlorobenzene	0.70 U	3.2	0.70	ug/kg	
106-46-7	p-Dichlorobenzene	0.70 U	3.2	0.70	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.96 U	3.2	0.96	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.70 U	3.2	0.70	ug/kg	
100-41-4	Ethylbenzene	0.64 U	3.2	0.64	ug/kg	
74-83-9	Methyl bromide	1.3 U	3.2	1.3	ug/kg	
74-87-3	Methyl chloride	1.3 U	3.2	1.3	ug/kg	
75-09-2	Methylene chloride	4.4	6.4	2.9	ug/kg	VI
1634-04-4	Methyl Tert Butyl Ether	1.3 U	3.2	1.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.70 U	3.2	0.70	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.77 U	3.2	0.77	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.70 U	3.2	0.70	ug/kg	
127-18-4	Tetrachloroethylene	0.64 U	3.2	0.64	ug/kg	

U = Not detected MDL - Method Detection Limit
 PQL = Practical Quantitation Limit
 L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2	
Lab Sample ID: F89846-2	Date Sampled: 01/27/12
Matrix: SO - Soil	Date Received: 01/28/12
Method: SW846 8260B	Percent Solids: 83.5
Project: EQ Florida Sediment Sampling	

VOA PPL List + MTBE

CAS No.	Compound	Result	PQL	MDL	Units	Q
108-88-3	Toluene	0.77 U	3.2	0.77	ug/kg	
79-01-6	Trichloroethylene	0.77 U	3.2	0.77	ug/kg	
75-69-4	Trichlorofluoromethane	1.3 U	3.2	1.3	ug/kg	
75-01-4	Vinyl chloride	0.96 U	3.2	0.96	ug/kg	
1330-20-7	Xylene (total)	2.0 U	9.6	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	114%	80-121%
2037-26-5	Toluene-D8	109%	123%	71-130%
460-00-4	4-Bromofluorobenzene	126%	187%	59-148%
17060-07-0	1,2-Dichloroethane-D4	113%	125%	77-123%

- (a) Confirmation run for internal standard areas.
(b) Associated BS recovery outside control limits.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result \geq MDL but $<$ PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2		Date Sampled: 01/27/12
Lab Sample ID: F89846-2		Date Received: 01/28/12
Matrix: SO - Soil		Percent Solids: 83.5
Method: SW846 8270D SW846 3550C		
Project: EQ Florida Sediment Sampling		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022254.D	1	02/07/12	NAF	02/02/12	OP40398	SX1081
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN PPL List + 1&2 Methyl Naphthalene

CAS No.	Compound	Result	PQL	MDL	Units	Q
95-57-8	2-Chlorophenol	20 U	200	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	20 U	200	20	ug/kg	
120-83-2	2,4-Dichlorophenol	20 U	200	20	ug/kg	
105-67-9	2,4-Dimethylphenol	25 U	200	25	ug/kg	
51-28-5	2,4-Dinitrophenol	400 U	990	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	79 U	400	79	ug/kg	
88-75-5	2-Nitrophenol	20 U	200	20	ug/kg	
100-02-7	4-Nitrophenol	160 U	990	160	ug/kg	
87-86-5	Pentachlorophenol	240 U	990	240	ug/kg	
108-95-2	Phenol	20 U	200	20	ug/kg	
88-06-2	2,4,6-Trichlorophenol	20 U	200	20	ug/kg	
83-32-9	Acenaphthene	20 U	200	20	ug/kg	
208-96-8	Acenaphthylene	20 U	200	20	ug/kg	
120-12-7	Anthracene	20 U	200	20	ug/kg	
92-87-5	Benzidine	400 U	2000	400	ug/kg	
56-55-3	Benzo(a)anthracene	22.5	200	20	ug/kg	I
50-32-8	Benzo(a)pyrene	20 U	200	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	24.4	200	20	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	20 U	200	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	200	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	20 U	200	20	ug/kg	
85-68-7	Butyl benzyl phthalate	40 U	200	40	ug/kg	
91-58-7	2-Chloronaphthalene	40 U	200	40	ug/kg	
106-47-8	4-Chloroaniline	20 U	200	20	ug/kg	
218-01-9	Chrysene	25.8	200	20	ug/kg	I
111-91-1	bis(2-Chloroethoxy)methane	20 U	200	20	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	20 U	200	20	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	20 U	200	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	20 U	200	20	ug/kg	
95-50-1	1,2-Dichlorobenzene	40 U	200	40	ug/kg	
122-66-7	1,2-Diphenylhydrazine	20 U	200	20	ug/kg	
541-73-1	1,3-Dichlorobenzene	40 U	200	40	ug/kg	

U = Not detected MDL - Method Detection Limit

PQL = Practical Quantitation Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < PQL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2	Date Sampled:	01/27/12
Lab Sample ID:	F89846-2	Date Received:	01/28/12
Matrix:	SO - Soil	Percent Solids:	83.5
Method:	SW846 8270D SW846 3550C		
Project:	EQ Florida Sediment Sampling		

ABN PPL List + 1&2 Methyl Naphthalene

CAS No.	Compound	Result	PQL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	40 U	200	40	ug/kg	
121-14-2	2,4-Dinitrotoluene	20 U	200	20	ug/kg	
606-20-2	2,6-Dinitrotoluene	23 U	200	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	40 U	400	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	200	20	ug/kg	
84-74-2	Di-n-butyl phthalate	79 U	400	79	ug/kg	
117-84-0	Di-n-octyl phthalate	40 U	200	40	ug/kg	
84-66-2	Diethyl phthalate	79 U	400	79	ug/kg	
131-11-3	Dimethyl phthalate	40 U	200	40	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	79 U	400	79	ug/kg	
206-44-0	Fluoranthene	27.2	200	20	ug/kg	I
86-73-7	Fluorene	20 U	200	20	ug/kg	
118-74-1	Hexachlorobenzene	20 U	200	20	ug/kg	
87-68-3	Hexachlorobutadiene	40 U	200	40	ug/kg	
77-47-4	Hexachlorocyclopentadiene	87 U	200	87	ug/kg	
67-72-1	Hexachloroethane	40 U	200	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	200	20	ug/kg	
78-59-1	Isophorone	20 U	200	20	ug/kg	
90-12-0	1-Methylnaphthalene	20 U	200	20	ug/kg	
91-57-6	2-Methylnaphthalene	20 U	200	20	ug/kg	
91-20-3	Naphthalene	32 U	200	32	ug/kg	
98-95-3	Nitrobenzene	20 U	200	20	ug/kg	
62-75-9	N-Nitrosodimethylamine	83 U	400	83	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	20 U	200	20	ug/kg	
86-30-6	N-Nitrosodiphenylamine	20 U	200	20	ug/kg	
85-01-8	Phenanthrene	20 U	200	20	ug/kg	
129-00-0	Pyrene	23.9	200	20	ug/kg	I
120-82-1	1,2,4-Trichlorobenzene	20 U	200	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		40-102%
4165-62-2	Phenol-d5	74%		41-100%
118-79-6	2,4,6-Tribromophenol	73%		42-108%
4165-60-0	Nitrobenzene-d5	62%		40-105%
321-60-8	2-Fluorobiphenyl	69%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result \geq MDL but $<$ PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2	Date Sampled: 01/27/12
Lab Sample ID: F89846-2	Date Received: 01/28/12
Matrix: SO - Soil	Percent Solids: 83.5
Project: EQ Florida Sediment Sampling	

Metals Analysis

Analyte	Result	PQL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.65	0.43	0.086	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Barium	21.3	8.6	0.43	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.17	0.17	0.043	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Chromium	3.9	0.43	0.043	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Lead	16.9	0.86	0.043	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.036 I	0.095	0.0095	mg/kg	1	02/07/12	02/07/12 LM	SW846 7471B ¹	SW846 7471B ³
Selenium	0.26 I	0.86	0.17	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴
Silver	0.043 U	0.43	0.043	mg/kg	1	02/10/12	02/10/12 DM	SW846 6010C ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA9566

(2) Instrument QC Batch: MA9573

(3) Prep QC Batch: MP22218

(4) Prep QC Batch: MP22243

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (FL)
- Chain of Custody



Accutest Laboratories Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # **F89846** GE 1 OF 1

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes					
Company Name: KLEINFELDER		Project Name: EQ Florida Inc												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SI - Sludge OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe					
Address: 3914 Riga Blvd		Street:																	
City: Tempa State: FL Zip: 33619		City:																	
Project Contact: Clariss Robb Email: CProbb@kleinfelder.com		Project #:																	
Phone#: 813-887-3900		Fax #:																	
Sampler(s) Name(s) (Printed): Jesse Reade		Client Purchase Order #:																	
Accutest Sample #	Field ID / Point of Collection	COLLECTION		CONTAINER INFORMATION										LAB USE ONLY					
		DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	PC	MSGH	PCSD	PCSDA	NON-HAZ		WATER	WATER			
1	SB-1	1/22	9:49	JR	SO	4								X	X	X	X	X	
2	SB-2	1/22	1:00	JR	SO	4								X	X	X	X	X	
<p style="text-align: center;">TURNAROUND TIME (Business Days) Data Deliverable Information Comments / Remarks</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Approved By: / Rush Code</p> <p><input checked="" type="checkbox"/> 10 Days Standard</p> <p><input type="checkbox"/> 7 Day RUSH</p> <p><input type="checkbox"/> 5 Day RUSH</p> <p><input type="checkbox"/> 3 Day EMERGENCY</p> <p><input type="checkbox"/> 2 Day EMERGENCY</p> <p><input type="checkbox"/> 1 Day EMERGENCY</p> <p><input type="checkbox"/> OTHER</p> <p><small>Emergency or Rush T/A Data Available VIA Email or Lablink</small></p> </div> <div style="width: 30%;"> <p>COMMERCIAL "A" (RESULTS ONLY)</p> <p>COMMERCIAL "B" (RESULTS PLUS QC)</p> <p>REDT1 (EPA LEVEL 3)</p> <p>FULT1 (EPA LEVEL 4)</p> <p>EDD'S</p> </div> <div style="width: 35%;"> <p>Comments / Remarks</p> </div> </div>																			
<p>Sample Custody must be documented below each time samples change possession, including courier delivery.</p>																			
Relinquished by Sampler: <i>[Signature]</i>		Date Time: 1/22 4:11		Received By: <i>[Signature]</i>		Relinquished by: <i>[Signature]</i>		Date Time: 1/27 12:13 PM		Received By: <i>[Signature]</i>		Date Time: 1/28 12:00		Received By: <i>[Signature]</i>		Date Time: 1/28 12:00		Received By: <i>[Signature]</i>	
Relinquished by: 5		Date Time: 6		Received By: 6		Relinquished by: 6		Date Time: 8		Received By: 8		Date Time: 8		Received By: 8		Date Time: 8		Received By: 8	
<p>Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: (Y) N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.8</p>																			

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F89846: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F 89846 CLIENT: RLE INFERRER PROJECT: E O F1210A
 DATE/TIME RECEIVED: 1-28-12 08:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM
 NUMBER OF 5035 FIELD KITS ? 2
 NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR 10.2
- OBSERVED TEMPS: 3.6
- CORRECTED TEMPS: 3.8

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 1-28-12 REVIEWER SIGNATURE/DATE [Signature] 1/28/12
 NF 12/10 receipt confirmation 122910.xls

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2887-MB	G0078209.D	1	01/31/12	EP	n/a	n/a	VG2887

The QC reported here applies to the following samples:

Method: SW846 8260B

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	11	ug/kg	
71-43-2	Benzene	ND	5.0	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.1	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	9.3	10	4.6	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	1.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.5	ug/kg	

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2887-MB	G0078209.D	1	01/31/12	EP	n/a	n/a	VG2887

The QC reported here applies to the following samples:

Method: SW846 8260B

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	15	3.2	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	103%	80-121%
2037-26-5	Toluene-D8	101%	71-130%
460-00-4	4-Bromofluorobenzene	106%	59-148%
17060-07-0	1,2-Dichloroethane-D4	105%	77-123%

Blank Spike Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2887-BS	G0078208.D	1	01/31/12	EP	n/a	n/a	VG2887

The QC reported here applies to the following samples:

Method: SW846 8260B

F89846-1, F89846-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
107-02-8	Acrolein	250	856	342*	27-156
107-13-1	Acrylonitrile	250	229	92	55-144
71-43-2	Benzene	50	52.4	105	78-130
75-27-4	Bromodichloromethane	50	57.5	115	73-122
75-25-2	Bromoform	50	49.2	98	70-139
108-90-7	Chlorobenzene	50	48.8	98	83-122
75-00-3	Chloroethane	50	55.1	110	61-153
67-66-3	Chloroform	50	54.6	109	79-129
110-75-8	2-Chloroethyl vinyl ether	250	348	139	52-142
56-23-5	Carbon tetrachloride	50	57.1	114	79-135
75-34-3	1,1-Dichloroethane	50	55.4	111	77-132
75-35-4	1,1-Dichloroethylene	50	55.9	112	66-132
107-06-2	1,2-Dichloroethane	50	55.5	111	78-129
78-87-5	1,2-Dichloropropane	50	52.5	105	74-127
124-48-1	Dibromochloromethane	50	53.7	107	78-117
75-71-8	Dichlorodifluoromethane	50	63.1	126	35-162
156-59-2	cis-1,2-Dichloroethylene	50	53.2	106	74-123
10061-01-5	cis-1,3-Dichloropropene	50	55.7	111	79-130
541-73-1	m-Dichlorobenzene	50	49.6	99	82-126
95-50-1	o-Dichlorobenzene	50	49.3	99	83-123
106-46-7	p-Dichlorobenzene	50	49.2	98	84-124
156-60-5	trans-1,2-Dichloroethylene	50	52.6	105	77-129
10061-02-6	trans-1,3-Dichloropropene	50	58.8	118	87-131
100-41-4	Ethylbenzene	50	50.5	101	82-124
74-83-9	Methyl bromide	50	59.0	118	60-146
74-87-3	Methyl chloride	50	63.1	126	58-163
75-09-2	Methylene chloride	50	60.1	120	62-140
1634-04-4	Methyl Tert Butyl Ether	50	51.7	103	70-131
71-55-6	1,1,1-Trichloroethane	50	54.7	109	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	51.2	102	70-128
79-00-5	1,1,2-Trichloroethane	50	49.0	98	76-118
127-18-4	Tetrachloroethylene	50	51.2	102	79-132
108-88-3	Toluene	50	49.6	99	80-123
79-01-6	Trichloroethylene	50	52.5	105	78-132
75-69-4	Trichlorofluoromethane	50	61.9	124	67-149
75-01-4	Vinyl chloride	50	59.0	118	60-145

Blank Spike Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2887-BS	G0078208.D	1	01/31/12	EP	n/a	n/a	VG2887

The QC reported here applies to the following samples:

Method: SW846 8260B

F89846-1, F89846-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1330-20-7	Xylene (total)	150	152	101	83-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	80-121%
2037-26-5	Toluene-D8	96%	71-130%
460-00-4	4-Bromofluorobenzene	102%	59-148%
17060-07-0	1,2-Dichloroethane-D4	99%	77-123%

4.2.1
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F89846-2MS	G0078228.D	1	01/31/12	EP	n/a	n/a	VG2887
F89846-2MSD	G0078229.D	1	01/31/12	EP	n/a	n/a	VG2887
F89846-2 ^a	G0078217.D	1	01/31/12	EP	n/a	n/a	VG2887
F89846-2	G0078227.D	1	01/31/12	EP	n/a	n/a	VG2887

The QC reported here applies to the following samples:

Method: SW846 8260B

F89846-1, F89846-2

CAS No.	Compound	F89846-2 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	16 U ^b	292	ND	0*	ND	0*	nc	27-156/39
107-13-1	Acrylonitrile	16 U ^b	292	95.7	33*	94.1	34*	2	55-144/24
71-43-2	Benzene	3.2 U ^b	58.5	55.5	95	53.9	96	3	78-130/25
75-27-4	Bromodichloromethane	3.2 U ^b	58.5	58.7	100	56.4	101	4	73-122/25
75-25-2	Bromoform	3.2 U ^b	58.5	42.9	73	43.5	78	1	70-139/26
108-90-7	Chlorobenzene	3.2 U ^b	58.5	46.6	80*	47.0	84	1	83-122/23
75-00-3	Chloroethane	3.2 U ^b	58.5	54.8	94	53.8	96	2	61-153/31
67-66-3	Chloroform	3.2 U ^b	58.5	58.9	101	57.2	102	3	79-129/27
110-75-8	2-Chloroethyl vinyl ether	16 U ^b	292	294	101	288	103	2	52-142/25
56-23-5	Carbon tetrachloride	3.2 U ^b	58.5	52.2	89	54.3	97	4	79-135/29
75-34-3	1,1-Dichloroethane	3.2 U ^b	58.5	57.3	98	58.2	104	2	77-132/26
75-35-4	1,1-Dichloroethylene	3.2 U ^b	58.5	54.4	93	55.6	99	2	66-132/27
107-06-2	1,2-Dichloroethane	3.2 U ^b	58.5	57.9	99	57.1	102	1	78-129/24
78-87-5	1,2-Dichloropropane	3.2 U ^b	58.5	55.7	95	55.7	100	0	74-127/27
124-48-1	Dibromochloromethane	3.2 U ^b	58.5	55.1	94	52.6	94	5	78-117/27
75-71-8	Dichlorodifluoromethane	3.2 U ^b	58.5	58.3	100	58.9	105	1	35-162/30
156-59-2	cis-1,2-Dichloroethylene	3.2 U ^b	58.5	54.9	94	53.9	96	2	74-123/26
10061-01-5	cis-1,3-Dichloropropene	3.2 U ^b	58.5	52.6	90	51.6	92	2	79-130/23
541-73-1	m-Dichlorobenzene	3.2 U ^b	58.5	40.2	69*	43.2	77*	7	82-126/29
95-50-1	o-Dichlorobenzene	3.2 U ^b	58.5	39.7	68*	43.8	78*	10	83-123/28
106-46-7	p-Dichlorobenzene	3.2 U ^b	58.5	40.9	70*	43.6	78*	6	84-124/28
156-60-5	trans-1,2-Dichloroethylene	3.2 U ^b	58.5	52.5	90	52.6	94	0	77-129/27
10061-02-6	trans-1,3-Dichloropropene	3.2 U ^b	58.5	54.5	93	52.8	94	3	87-131/27
100-41-4	Ethylbenzene	3.2 U ^b	58.5	48.1	82	47.8	85	1	82-124/25
74-83-9	Methyl bromide	3.2 U ^b	58.5	59.3	101	55.4	99	7	60-146/31
74-87-3	Methyl chloride	3.2 U ^b	58.5	63.5	109	62.9	112	1	58-163/26
75-09-2	Methylene chloride	4.4 ^b	VI 58.5	78.7	127	76.4	129	3	62-140/25
1634-04-4	Methyl Tert Butyl Ether	3.2 U ^b	58.5	54.4	93	53.0	95	3	70-131/25
71-55-6	1,1,1-Trichloroethane	3.2 U ^b	58.5	54.2	93	54.9	98	1	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	3.2 U ^b	58.5	57.6	99	56.2	100	2	70-128/30
79-00-5	1,1,2-Trichloroethane	3.2 U ^b	58.5	51.9	89	50.1	90	4	76-118/28
127-18-4	Tetrachloroethylene	3.2 U ^b	58.5	47.1	81	48.7	87	3	79-132/27
108-88-3	Toluene	3.2 U ^b	58.5	55.4	95	53.8	96	3	80-123/26
79-01-6	Trichloroethylene	3.2 U ^b	58.5	50.8	87	50.4	90	1	78-132/28
75-69-4	Trichlorofluoromethane	3.2 U ^b	58.5	56.1	96	57.5	103	2	67-149/29
75-01-4	Vinyl chloride	3.2 U ^b	58.5	58.3	100	58.1	104	0	60-145/29

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F89846-2MS	G0078228.D	1	01/31/12	EP	n/a	n/a	VG2887
F89846-2MSD	G0078229.D	1	01/31/12	EP	n/a	n/a	VG2887
F89846-2 ^a	G0078217.D	1	01/31/12	EP	n/a	n/a	VG2887
F89846-2	G0078227.D	1	01/31/12	EP	n/a	n/a	VG2887

The QC reported here applies to the following samples:

Method: SW846 8260B

F89846-1, F89846-2

CAS No.	Compound	F89846-2 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	9.6 U ^b	175	150	86	149	89	1	83-127/24

CAS No.	Surrogate Recoveries	MS	MSD	F89846-2	F89846-2	Limits
1868-53-7	Dibromofluoromethane	103%	103%	114%	100%	80-121%
2037-26-5	Toluene-D8	100%	99%	123%	109%	71-130%
460-00-4	4-Bromofluorobenzene	112%	109%	187%*	126%	59-148%
17060-07-0	1,2-Dichloroethane-D4	97%	98%	125%*	113%	77-123%

(a) Confirmation run for internal standard areas.

(b) Result is from Run #2.

4.3.1
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GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	X022213.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	X022213.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	330	70	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	69%	40-102%
4165-62-2	Phenol-d5	78%	41-100%
118-79-6	2,4,6-Tribromophenol	84%	42-108%
4165-60-0	Nitrobenzene-d5	64%	40-105%
321-60-8	2-Fluorobiphenyl	71%	43-107%
1718-51-0	Terphenyl-d14	100%	45-119%

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	X022249.D	1	02/07/12	NAF	02/02/12	OP40398	SX1081

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	X022249.D	1	02/07/12	NAF	02/02/12	OP40398	SX1081

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	330	70	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	75%	40-102%
4165-62-2	Phenol-d5	83%	41-100%
118-79-6	2,4,6-Tribromophenol	79%	42-108%
4165-60-0	Nitrobenzene-d5	76%	40-105%
321-60-8	2-Fluorobiphenyl	76%	43-107%
1718-51-0	Terphenyl-d14	95%	45-119%

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	U029962.D	1	02/07/12	MG	02/02/12	OP40398	SU1418

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	79%	40-102%
4165-62-2	Phenol-d5	85%	41-100%
118-79-6	2,4,6-Tribromophenol	79%	42-108%
4165-60-0	Nitrobenzene-d5	76%	40-105%
321-60-8	2-Fluorobiphenyl	75%	43-107%
1718-51-0	Terphenyl-d14	99%	45-119%

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	T000983.D	1	02/07/12	NAF	02/02/12	OP40398	ST53

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	21	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	200	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	33	ug/kg	

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	T000983.D	1	02/07/12	NAF	02/02/12	OP40398	ST53

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	67	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	67	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	67	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	33	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	73	ug/kg	
67-72-1	Hexachloroethane	ND	170	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	27	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	330	70	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	69%	40-102%
4165-62-2	Phenol-d5	78%	41-100%
118-79-6	2,4,6-Tribromophenol	75%	42-108%
4165-60-0	Nitrobenzene-d5	74%	40-105%
321-60-8	2-Fluorobiphenyl	72%	43-107%
1718-51-0	Terphenyl-d14	96%	45-119%

Method Blank Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MB	L055802.D	1	02/08/12	NAF	02/02/12	OP40398	SL2844

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
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Blank Spike Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-BS	X022212.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1260	76	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1290	77	59-102
120-83-2	2,4-Dichlorophenol	1670	1460	88	60-101
105-67-9	2,4-Dimethylphenol	1670	1190	71	49-89
51-28-5	2,4-Dinitrophenol	3330	2410	72	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3270	98	58-109
88-75-5	2-Nitrophenol	1670	1330	80	55-96
100-02-7	4-Nitrophenol	3330	2720	82	56-106
87-86-5	Pentachlorophenol	3330	3290	99	50-115
108-95-2	Phenol	1670	1200	72	55-99
88-06-2	2,4,6-Trichlorophenol	1670	1350	81	60-100
83-32-9	Acenaphthene	1670	1250	75	59-97
208-96-8	Acenaphthylene	1670	1260	76	58-98
120-12-7	Anthracene	1670	1380	83	61-104
92-87-5	Benzidine	1670	641	38	10-156
56-55-3	Benzo(a)anthracene	1670	1430	86	60-106
50-32-8	Benzo(a)pyrene	1670	1270	76	59-102
205-99-2	Benzo(b)fluoranthene	1670	1330	80	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1340	80	56-103
207-08-9	Benzo(k)fluoranthene	1670	1390	83	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1470	88	60-104
85-68-7	Butyl benzyl phthalate	1670	1240	74	57-110
91-58-7	2-Chloronaphthalene	1670	1290	77	57-95
106-47-8	4-Chloroaniline	1670	1310	79	19-85
218-01-9	Chrysene	1670	1400	84	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1280	77	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1190	71	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1300	78	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1390	83	60-101
95-50-1	1,2-Dichlorobenzene	1670	1260	76	47-91
122-66-7	1,2-Diphenylhydrazine	1670	1140	68	58-104
541-73-1	1,3-Dichlorobenzene	1670	1200	72	45-86
106-46-7	1,4-Dichlorobenzene	1670	1220	73	45-88
121-14-2	2,4-Dinitrotoluene	1670	1360	82	59-103
606-20-2	2,6-Dinitrotoluene	1670	1380	83	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1170	70	34-88

Blank Spike Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-BS	X022212.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	1670	1370	82	57-105
84-74-2	Di-n-butyl phthalate	1670	1300	78	59-105
117-84-0	Di-n-octyl phthalate	1670	1210	73	59-117
84-66-2	Diethyl phthalate	1670	1300	78	59-106
131-11-3	Dimethyl phthalate	1670	1360	82	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1210	73	57-111
206-44-0	Fluoranthene	1670	1470	88	60-110
86-73-7	Fluorene	1670	1330	80	60-99
118-74-1	Hexachlorobenzene	1670	1550	93	58-103
87-68-3	Hexachlorobutadiene	1670	1500	90	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1410	85	36-94
67-72-1	Hexachloroethane	1670	1220	73	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1350	81	57-104
78-59-1	Isophorone	1670	1020	61	58-97
90-12-0	1-Methylnaphthalene	1670	1350	81	55-93
91-57-6	2-Methylnaphthalene	1670	1400	84	57-103
91-20-3	Naphthalene	1670	1280	77	54-93
98-95-3	Nitrobenzene	1670	1180	71	53-92
62-75-9	N-Nitrosodimethylamine	1670	1120	67	37-88
621-64-7	N-Nitroso-di-n-propylamine	1670	1180	71	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1430	86	53-107
85-01-8	Phenanthrene	1670	1380	83	61-103
129-00-0	Pyrene	1670	1340	80	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1260	76	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	70%	40-102%
4165-62-2	Phenol-d5	79%	41-100%
118-79-6	2,4,6-Tribromophenol	90%	42-108%
4165-60-0	Nitrobenzene-d5	69%	40-105%
321-60-8	2-Fluorobiphenyl	75%	43-107%
1718-51-0	Terphenyl-d14	98%	45-119%

Blank Spike Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-BS	T000982.D	1	02/07/12	NAF	02/02/12	OP40398	ST53

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1260	76	54-97
59-50-7	4-Chloro-3-methyl phenol	1670	1260	76	59-102
120-83-2	2,4-Dichlorophenol	1670	1270	76	60-101
105-67-9	2,4-Dimethylphenol	1670	1200	72	49-89
51-28-5	2,4-Dinitrophenol	3330	2330	70	39-107
534-52-1	4,6-Dinitro-o-cresol	3330	3310	99	58-109
88-75-5	2-Nitrophenol	1670	1310	79	55-96
100-02-7	4-Nitrophenol	3330	2450	74	56-106
87-86-5	Pentachlorophenol	3330	2840	85	50-115
108-95-2	Phenol	1670	1200	72	55-99
88-06-2	2,4,6-Trichlorophenol	1670	1380	83	60-100
83-32-9	Acenaphthene	1670	1340	80	59-97
208-96-8	Acenaphthylene	1670	1370	82	58-98
120-12-7	Anthracene	1670	1370	82	61-104
92-87-5	Benzidine	1670	834	50	10-156
56-55-3	Benzo(a)anthracene	1670	1400	84	60-106
50-32-8	Benzo(a)pyrene	1670	1500	90	59-102
205-99-2	Benzo(b)fluoranthene	1670	1370	82	60-107
191-24-2	Benzo(g,h,i)perylene	1670	1530	92	56-103
207-08-9	Benzo(k)fluoranthene	1670	1440	86	61-107
101-55-3	4-Bromophenyl phenyl ether	1670	1430	86	60-104
85-68-7	Butyl benzyl phthalate	1670	1450	87	57-110
91-58-7	2-Chloronaphthalene	1670	1330	80	57-95
106-47-8	4-Chloroaniline	1670	1180	71	19-85
218-01-9	Chrysene	1670	1370	82	60-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1290	77	51-89
111-44-4	bis(2-Chloroethyl)ether	1670	1230	74	50-96
108-60-1	bis(2-Chloroisopropyl)ether	1670	1460	88	44-94
7005-72-3	4-Chlorophenyl phenyl ether	1670	1340	80	60-101
95-50-1	1,2-Dichlorobenzene	1670	1270	76	47-91
122-66-7	1,2-Diphenylhydrazine	1670	1410	85	58-104
541-73-1	1,3-Dichlorobenzene	1670	1230	74	45-86
106-46-7	1,4-Dichlorobenzene	1670	1260	76	45-88
121-14-2	2,4-Dinitrotoluene	1670	1360	82	59-103
606-20-2	2,6-Dinitrotoluene	1670	1360	82	57-99
91-94-1	3,3'-Dichlorobenzidine	1670	1230	74	34-88

Blank Spike Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-BS	T000982.D	1	02/07/12	NAF	02/02/12	OP40398	ST53

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
53-70-3	Dibenzo(a,h)anthracene	1670	1520	91	57-105
84-74-2	Di-n-butyl phthalate	1670	1410	85	59-105
117-84-0	Di-n-octyl phthalate	1670	1510	91	59-117
84-66-2	Diethyl phthalate	1670	1340	80	59-106
131-11-3	Dimethyl phthalate	1670	1340	80	60-100
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1530	92	57-111
206-44-0	Fluoranthene	1670	1310	79	60-110
86-73-7	Fluorene	1670	1330	80	60-99
118-74-1	Hexachlorobenzene	1670	1380	83	58-103
87-68-3	Hexachlorobutadiene	1670	1330	80	49-95
77-47-4	Hexachlorocyclopentadiene	1670	1470	88	36-94
67-72-1	Hexachloroethane	1670	1310	79	44-89
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1550	93	57-104
78-59-1	Isophorone	1670	1080	65	58-97
90-12-0	1-Methylnaphthalene	1670	1270	76	55-93
91-57-6	2-Methylnaphthalene	1670	1310	79	57-103
91-20-3	Naphthalene	1670	1240	74	54-93
98-95-3	Nitrobenzene	1670	1280	77	53-92
62-75-9	N-Nitrosodimethylamine	1670	1210	73	37-88
621-64-7	N-Nitroso-di-n-propylamine	1670	1220	73	49-94
86-30-6	N-Nitrosodiphenylamine	1670	1440	86	53-107
85-01-8	Phenanthrene	1670	1400	84	61-103
129-00-0	Pyrene	1670	1440	86	58-109
120-82-1	1,2,4-Trichlorobenzene	1670	1230	74	52-93

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	72%	40-102%
4165-62-2	Phenol-d5	76%	41-100%
118-79-6	2,4,6-Tribromophenol	83%	42-108%
4165-60-0	Nitrobenzene-d5	75%	40-105%
321-60-8	2-Fluorobiphenyl	78%	43-107%
1718-51-0	Terphenyl-d14	99%	45-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MS	X022216.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080
OP40398-MSD	X022217.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080
F89915-8	X022215.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	F89915-8 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND	1960	1320	67	1420	73	7	54-97/31
59-50-7	4-Chloro-3-methyl phenol	ND	1960	1370	70	1440	74	5	59-102/27
120-83-2	2,4-Dichlorophenol	ND	1960	1500	77	1600	82	6	60-101/30
105-67-9	2,4-Dimethylphenol	ND	1960	1240	63	1320	68	6	49-89/31
51-28-5	2,4-Dinitrophenol	ND	3920	1000	26*	834	21*	18	39-107/40
534-52-1	4,6-Dinitro-o-cresol	ND	3920	2870	73	2730	70	5	58-109/37
88-75-5	2-Nitrophenol	ND	1960	1410	72	1400	72	1	55-96/30
100-02-7	4-Nitrophenol	ND	3920	2560	65	2460	63	4	56-106/29
87-86-5	Pentachlorophenol	ND	3920	2430	62	2720	70	11	50-115/33
108-95-2	Phenol	ND	1960	1230	63	1310	68	6	55-99/28
88-06-2	2,4,6-Trichlorophenol	ND	1960	1340	68	1470	76	9	60-100/27
83-32-9	Acenaphthene	ND	1960	1340	68	1420	73	6	59-97/29
208-96-8	Acenaphthylene	ND	1960	1310	67	1410	73	7	58-98/30
120-12-7	Anthracene	ND	1960	1460	75	1560	80	7	61-104/29
92-87-5	Benzidine	ND	1960	567	29	506	26	11	10-151/50
56-55-3	Benzo(a)anthracene	ND	1960	1560	80	1570	81	1	60-106/31
50-32-8	Benzo(a)pyrene	ND	1960	1400	71	1410	73	1	59-102/32
205-99-2	Benzo(b)fluoranthene	ND	1960	1450	74	1470	76	1	60-107/31
191-24-2	Benzo(g,h,i)perylene	ND	1960	1450	74	1490	77	3	56-103/32
207-08-9	Benzo(k)fluoranthene	ND	1960	1530	78	1520	78	1	61-107/30
101-55-3	4-Bromophenyl phenyl ether	ND	1960	1580	81	1640	85	4	60-104/26
85-68-7	Butyl benzyl phthalate	ND	1960	1340	68	1350	70	1	57-110/28
91-58-7	2-Chloronaphthalene	ND	1960	1320	67	1430	74	8	57-95/28
106-47-8	4-Chloroaniline	ND	1960	1410	72	1290	66	9	19-85/34
218-01-9	Chrysene	ND	1960	1530	78	1550	80	1	60-107/31
111-91-1	bis(2-Chloroethoxy)methane	ND	1960	1310	67	1390	72	6	51-89/30
111-44-4	bis(2-Chloroethyl)ether	ND	1960	1250	64	1340	69	7	50-96/33
108-60-1	bis(2-Chloroisopropyl)ether	ND	1960	1370	70	1470	76	7	44-94/32
7005-72-3	4-Chlorophenyl phenyl ether	ND	1960	1470	75	1580	81	7	60-101/26
95-50-1	1,2-Dichlorobenzene	ND	1960	1320	67	1380	71	4	47-91/35
122-66-7	1,2-Diphenylhydrazine	ND	1960	1230	63	1290	66	5	58-104/27
541-73-1	1,3-Dichlorobenzene	ND	1960	1240	63	1310	68	5	45-86/36
106-46-7	1,4-Dichlorobenzene	ND	1960	1270	65	1350	70	6	45-88/36
121-14-2	2,4-Dinitrotoluene	ND	1960	1500	77	1620	84	8	59-103/30
606-20-2	2,6-Dinitrotoluene	ND	1960	1470	75	1550	80	5	57-99/30
91-94-1	3,3'-Dichlorobenzidine	ND	1960	1360	69	1290	66	5	34-88/31

5.3.1
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F89846
Account: KFFLTAM Kleinfelder
Project: EQ Florida Sediment Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40398-MS	X022216.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080
OP40398-MSD	X022217.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080
F89915-8	X022215.D	1	02/06/12	NAF	02/02/12	OP40398	SX1080

The QC reported here applies to the following samples:

Method: SW846 8270D

F89846-1, F89846-2

CAS No.	Compound	F89915-8 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	ND	1960	1460	75	1460	75	0	57-105/29
84-74-2	Di-n-butyl phthalate	ND	1960	1420	72	1470	76	3	59-105/27
117-84-0	Di-n-octyl phthalate	ND	1960	1320	67	1340	69	2	59-117/28
84-66-2	Diethyl phthalate	ND	1960	1380	70	1460	75	6	59-106/27
131-11-3	Dimethyl phthalate	ND	1960	1440	73	1560	80	8	60-100/26
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1960	1340	68	1400	72	4	57-111/29
206-44-0	Fluoranthene	ND	1960	1570	80	1640	85	4	60-110/32
86-73-7	Fluorene	ND	1960	1390	71	1490	77	7	60-99/30
118-74-1	Hexachlorobenzene	ND	1960	1670	85	1740	90	4	58-103/27
87-68-3	Hexachlorobutadiene	ND	1960	1540	79	1550	80	1	49-95/33
77-47-4	Hexachlorocyclopentadiene	ND	1960	1380	70	1460	75	6	36-94/41
67-72-1	Hexachloroethane	ND	1960	1280	65	1370	71	7	44-89/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1960	1500	77	1510	78	1	57-104/33
78-59-1	Isophorone	ND	1960	1060	54*	1140	59	7	58-97/30
90-12-0	1-Methylnaphthalene	ND	1960	1410	72	1460	75	3	55-93/33
91-57-6	2-Methylnaphthalene	ND	1960	1400	71	1200	62	15	57-103/32
91-20-3	Naphthalene	ND	1960	1350	69	1380	71	2	54-93/32
98-95-3	Nitrobenzene	ND	1960	1230	63	1260	65	2	53-92/32
62-75-9	N-Nitrosodimethylamine	ND	1960	1180	60	1240	64	5	37-88/34
621-64-7	N-Nitroso-di-n-propylamine	ND	1960	1220	62	1330	69	9	49-94/28
86-30-6	N-Nitrosodiphenylamine	ND	1960	1530	78	1620	84	6	53-107/28
85-01-8	Phenanthrene	ND	1960	1460	75	1510	78	3	61-103/32
129-00-0	Pyrene	ND	1960	1430	73	1470	76	3	58-109/33
120-82-1	1,2,4-Trichlorobenzene	ND	1960	1330	68	1360	70	2	52-93/32

CAS No.	Surrogate Recoveries	MS	MSD	F89915-8	Limits
367-12-4	2-Fluorophenol	62%	66%	65%	40-102%
4165-62-2	Phenol-d5	70%	74%	75%	41-100%
118-79-6	2,4,6-Tribromophenol	80%	85%	80%	42-108%
4165-60-0	Nitrobenzene-d5	63%	64%	64%	40-105%
321-60-8	2-Fluorobiphenyl	67%	71%	69%	43-107%
1718-51-0	Terphenyl-d14	91%	92%	98%	45-119%

5.3.1
 5

Metals Analysis

QC Data Summaries

Includes the following where applicable:

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F89846
Account: KFFLTAM - Kleinfelder
Project: EQ Florida Sediment Sampling

QC Batch ID: MP22218
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 02/07/12

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.083	.0059	.0083	-0.025	<0.083

Associated samples MP22218: F89846-1, F89846-2

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

6.1.1
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F89846
 Account: KFFLTAM - Kleinfelder
 Project: EQ Florida Sediment Sampling

QC Batch ID: MP22218
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 02/07/12 02/07/12

Metal	F89749-7		QC	F89749-7		Spikelot	QC		
	Original	DUP	RPD	Limits	Original	MS	HGFLWS1	% Rec	Limits
Mercury	0.41	0.48	15.7	0-20	0.41	1.9	1.37	108.7	80-120

Associated samples MP22218: F89846-1, F89846-2

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

6.1.2

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F89846
 Account: KFFLTAM - Kleinfelder
 Project: EQ Florida Sediment Sampling

QC Batch ID: MP22218
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 02/07/12

Metal	F89749-7 Original MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.41	1.9	1.39	107.0	0.0 20

Associated samples MP22218: F89846-1, F89846-2

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

6.1.2
 6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F89846
Account: KFFLTAM - Kleinfelder
Project: EQ Florida Sediment Sampling

QC Batch ID: MP22218
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 02/07/12

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
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Mercury 0.25 0.25 100.0 80-120

Associated samples MP22218: F89846-1, F89846-2

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: F89846
Account: KFLLTAM - Kleinfelder
Project: EQ Florida Sediment Sampling

QC Batch ID: MP22218
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 02/07/12

Metal	F89749-7 Original	SDL 1:5	%DIF	QC Limits
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Mercury 0.966 0.431 55.4 (a) 0-10

Associated samples MP22218: F89846-1, F89846-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F89846
Account: KFFLTAM - Kleinfelder
Project: EQ Florida Sediment Sampling

QC Batch ID: MP22243
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 02/10/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	1.2		
Antimony	1.0	.05	.1		
Arsenic	0.50	.05	.1	-0.14	<0.50
Barium	10	.05	.5	0.0050	<10
Beryllium	0.25	.005	.05		
Cadmium	0.20	.005	.05	-0.0050	<0.20
Calcium	250	2.5	5		
Chromium	0.50	.05	.05	0.060	<0.50
Cobalt	2.5	.05	.05		
Copper	1.3	.05	.1		
Iron	15	1.7	1.7		
Lead	1.0	.05	.05	-0.030	<1.0
Magnesium	250	2.5	5		
Manganese	0.75	.05	.05		
Molybdenum	2.5	.05	.05		
Nickel	2.0	.05	.05		
Potassium	500	2.5	25		
Selenium	1.0	.1	.2	0.085	<1.0
Silver	0.50	.05	.05	-0.015	<0.50
Sodium	500	38	55		
Strontium	0.50	.05	.05		
Thallium	0.50	.05	.13		
Tin	2.5	.05	.05		
Titanium	0.50	.055	.1		
Vanadium	2.5	.05	.05		
Zinc	1.0	.05	.25		

Associated samples MP22243: F89846-1, F89846-2

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

6.2.1
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F89846
 Account: KFFLTAM - Kleinfelder
 Project: EQ Florida Sediment Sampling

QC Batch ID: MP22243
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 02/10/12 02/10/12

Metal	F90157-1 Original	DUP	RPD	QC Limits	F90157-1 Original MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr							
Antimony	anr							
Arsenic	0.48	0.52	8.0	0-20	0.48	168	95	176.3N(a) 80-120
Barium	27.7	28.2	1.8	0-20	27.7	210	95	191.9N(a) 80-120
Beryllium	anr							
Cadmium	0.0	0.0	NC	0-20	0.0	4.4	2.38	185.2N(a) 80-120
Calcium								
Chromium	4.6	4.4	4.4	0-20	4.6	22.0	9.5	183.1N(a) 80-120
Cobalt								
Copper	anr							
Iron								
Lead	2.4	2.3	4.3	0-20	2.4	51.4	23.8	206.3N(a) 80-120
Magnesium								
Manganese								
Molybdenum								
Nickel	anr							
Potassium								
Selenium	0.54	0.45	18.2	0-20	0.54	161	95	168.9N(a) 80-120
Silver	0.0	0.0	NC	0-20	0.0	4.3	2.38	181.0N(a) 80-120
Sodium								
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium								
Zinc	anr							

Associated samples MP22243: F89846-1, F89846-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F89846
 Account: KFFLTAM - Kleinfelder
 Project: EQ Florida Sediment Sampling

QC Batch ID: MP22243
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 02/10/12

Metal	F90157-1 Original	MSD	Spike lot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	0.48	196	123	159.6N(a)	15.4	20
Barium	27.7	240	123	173.3N(a)	13.3	20
Beryllium	anr					
Cadmium	0.0	5.1	3.06	166.5N(a)	14.7	20
Calcium						
Chromium	4.6	24.6	12.3	163.2N(a)	11.2	20
Cobalt						
Copper	anr					
Iron						
Lead	2.4	56.8	30.6	177.6N(a)	10.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	0.54	188	123	153.0N(a)	15.5	20
Silver	0.0	5.0	3.06	163.2N(a)	15.1	20
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP22243: F89846-1, F89846-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F89846
 Account: KFFLTAM - Kleinfelder
 Project: EQ Florida Sediment Sampling

QC Batch ID: MP22243
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 02/10/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	205	200	103.0	80-120
Barium	222	200	111.0	80-120
Beryllium	anr			
Cadmium	5.4	5.0	108.0	80-120
Calcium				
Chromium	22.3	20	111.0	80-120
Cobalt				
Copper	anr			
Iron				
Lead	51.1	50	102.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	194	200	97.0	80-120
Silver	5.2	5.0	104.0	80-120
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP22243: F89846-1, F89846-2

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

6.2.3
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SERIAL DILUTION RESULTS SUMMARY

Login Number: F89846
 Account: KFFLTAM - Kleinfelder
 Project: EQ Florida Sediment Sampling

QC Batch ID: MP22243
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 02/10/12

Metal	F90157-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	10.3	6.70	35.0 (a)	0-10
Barium	599	655	9.2	0-10
Beryllium	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	99.3	107	7.6	0-10
Cobalt				
Copper	anr			
Iron				
Lead	51.0	50.3	1.4	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	11.7	0.00	100.0 (a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP22243: F89846-1, F89846-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

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

POST DIGESTATE SPIKE SUMMARY

Login Number: F89846
 Account: KFFLTAM - Kleinfelder
 Project: EQ Florida Sediment Sampling

QC Batch ID: MP22243
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date:

02/10/12

Metal	Sample ml	Final ml	F90157-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	10.3	10.094	100.4	0.2	5	100	90.3	80-120
Barium	9.8	10	599.2	587.216	822.7	0.2	12.5	250	94.2	80-120
Beryllium										
Cadmium	9.8	10	0	0	47.4	0.2	2.5	50	94.8	80-120
Calcium										
Chromium	9.8	10	99.3	97.314	145.7	0.2	2.5	50	96.8	80-120
Cobalt										
Copper										
Iron										
Lead	9.8	10	51	49.98	102	0.2	2.5	50	104.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium	9.8	10	11.7	11.466	95.3	0.2	5	100	83.8	80-120
Silver	9.8	10	0	0	43.3	0.2	2.5	50	86.6	80-120
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP22243: F89846-1, F89846-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (**) Corr. sample result = Raw * (sample volume / final volume)
 (anr) Analyte not requested

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