



May 05, 2010

Ms. Kate Brackett
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399

Re: 2010 Soils Project
Work Order: 248802

Dear Ms. Brackett:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 05, 2010. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4422.

Sincerely,

Jake Crook
Project Manager

Purchase Order: A1CD73
Enclosures

**Radiochemistry Case Narrative
Florida DEP (FLAD)
SDG 248802**

Method/Analysis Information

Product:	GFPC, Gross A/B, solid
Analytical Method:	EPA 900.0/SW846 9310/SM 7110B Modified
Prep Method:	Dry Soil Prep
Analytical Batch Number:	965337
Prep Batch Number:	961799

Sample ID	Client ID
248802001	1253346
248802002	1253347
248802003	1253348
248802004	1253349
248802005	1253350
248802006	1253351
248802007	1253352
248802008	1253353
248802009	1253370
248802010	1253371
248802011	1253372
248802012	1253373
248802013	1253374
248802014	1253375
248802015	1253376
248802016	1253377
248802017	1253378
248802018	1253379
248802019	1253380
248802020	1253381
1202071273	Method Blank (MB)
1202071274	248802003(1253348) Sample Duplicate (DUP)
1202071275	248802003(1253348) Matrix Spike (MS)
1202071276	248802003(1253348) Matrix Spike Duplicate (MSD)
1202071277	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-001B REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met. The discrimination settings are calibrated in beta discriminating mode to reduce beta to alpha crosstalk.

Standards Information

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 248802003 (1253348).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

Samples 1202071275 (1253348), 1202071276 (1253348) and 1202071277 (LCS) were recounted due to high recovery. Sample 248802003 (1253348) was recounted to verify sample result. Second count being reported.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Gross Alpha/Beta Preparation Information

High hygroscopic salt content in evaporated samples can cause the sample mass to fluctuate due to moisture absorption. To minimize this interference, the salts are converted to oxides by heating the sample under a flame until a dull red color is obtained. The conversion to oxides stabilizes the sample weight and ensures that proper alpha/beta efficiencies are assigned for each sample. Volatile radioisotopes of carbon, hydrogen, technetium, polonium and cesium may be lost during sample heating.

Miscellaneous Information:

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Method/Analysis Information

Product: GFPC, Gross A/B, solid
Analytical Method: EPA 900.0/SW846 9310/SM 7110B Modified
Prep Method: Dry Soil Prep
Analytical Batch Number: 965340
Prep Batch Number: 961800

Sample ID	Client ID
248802021	1253382
248802022	1253383
248802023	1253384
248802024	1253385
248802025	1253386
248802026	1253387
248802027	1253388
248802028	1253389
1202071281	Method Blank (MB)
1202071282	248802023(1253384) Sample Duplicate (DUP)
1202071283	248802023(1253384) Matrix Spike (MS)
1202071284	248802023(1253384) Matrix Spike Duplicate (MSD)
1202071285	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-001B REV# 14.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met. The discrimination settings are calibrated in beta discriminating mode to reduce beta to alpha crosstalk.

Standards Information

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 248802023 (1253384).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Gross Alpha/Beta Preparation Information

High hygroscopic salt content in evaporated samples can cause the sample mass to fluctuate due to moisture absorption. To minimize this interference, the salts are converted to oxides by heating the sample under a flame until a dull red color is obtained. The conversion to oxides stabilizes the sample weight and ensures that proper alpha/beta efficiencies are assigned for each sample. Volatile radioisotopes of carbon, hydrogen, technetium, polonium and cesium may be lost during sample heating.

Miscellaneous Information:**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments

The sample and the duplicate, 1202071282 (1253384) and 248802023 (1253384), did not meet the alpha relative percent difference requirement, however they do meet the alpha relative error ratio requirement with value of 2.40.

Qualifier information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer/Date:  4/16/10

List of current GEL Certifications as of 05 May 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California – NELAP	01151CA
Colorado	GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	200029
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90129
Louisiana – NELAP	03046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey – NELAP	SC002
New Mexico	FL NELAP E87156
New York – NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania – NELAP	68-00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas – NELAP	T104704235-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah – NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

FLAD001 Florida DEP

Client SDG: 248802 GEL Work Order: 248802

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by

A handwritten signature in dark ink, appearing to read "Jake Crook", is written over a horizontal line.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company : Florida Department of
Environmental Protection
Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253346
Sample ID: 248802001
Matrix: Soil
Collect Date: 02–MAR–10 08:40
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		13.5	+/-4.00	3.44	4.00	pCi/g	DXF3	03/20/10	1422	965337	1
Beta		6.61	+/-2.41	3.13	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253347
Sample ID: 248802002
Matrix: Soil
Collect Date: 02–MAR–10 09:40
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.62	3.86	4.00	pCi/g	DXF3	03/20/10	1423	965337	1
Beta	U	ND	+/-2.37	3.65	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253348
Sample ID: 248802003
Matrix: Soil
Collect Date: 02–MAR–10 10:05
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.67	+/-2.29	2.42	4.00	pCi/g	DXF3	03/20/10	2020	965337	1
Beta	U	ND	+/-1.91	2.81	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253349
Sample ID: 248802004
Matrix: Soil
Collect Date: 02–MAR–10 13:30
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.89	3.65	4.00	pCi/g	DXF3	03/20/10	1423	965337	1
Beta	U	ND	+/-1.86	3.72	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253350
Sample ID: 248802005
Matrix: Soil
Collect Date: 02–MAR–10 14:10
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.77	3.68	4.00	pCi/g	DXF3	03/20/10	1423	965337	1
Beta	U	ND	+/-1.48	2.97	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253351
Sample ID: 248802006
Matrix: Soil
Collect Date: 02–MAR–10 14:00
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		5.26	+/-2.95	2.93	4.00	pCi/g	DXF3	03/20/10	1553	965337	1
Beta		4.30	+/-2.49	3.55	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253352
Sample ID: 248802007
Matrix: Soil
Collect Date: 02–MAR–10 14:00
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.17	3.37	4.00	pCi/g	DXF3	03/20/10	1553	965337	1
Beta		24.8	+/-4.29	3.67	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253353
Sample ID: 248802008
Matrix: Soil
Collect Date: 02–MAR–10 14:20
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.93	2.91	4.00	pCi/g	DXF3	03/20/10	1553	965337	1
Beta	U	ND	+/-1.68	3.26	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253370
Sample ID: 248802009
Matrix: Soil
Collect Date: 02–MAR–10 08:55
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.46	+/-2.44	3.08	4.00	pCi/g	DXF3	03/20/10	1553	965337	1
Beta	U	ND	+/-2.24	3.40	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253371
Sample ID: 248802010
Matrix: Soil
Collect Date: 02–MAR–10 09:00
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.98	2.81	4.00	pCi/g	DXF3	03/20/10	1553	965337	1
Beta	U	ND	+/-1.99	3.49	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253372
Sample ID: 248802011
Matrix: Soil
Collect Date: 02–MAR–10 09:30
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.51	+/-2.73	3.07	4.00	pCi/g	DXF3	03/20/10	1553	965337	1
Beta	U	ND	+/-1.94	2.96	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253373
Sample ID: 248802012
Matrix: Soil
Collect Date: 02–MAR–10 09:50
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.51	+/-2.69	3.10	4.00	pCi/g	DXF3	03/20/10	1553	965337	1
Beta	U	ND	+/-1.94	3.11	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Company : Florida Department of
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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253374
Sample ID: 248802013
Matrix: Soil
Collect Date: 02–MAR–10 08:40
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.43	3.25	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta	U	ND	+/-1.85	3.15	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253375
Sample ID: 248802014
Matrix: Soil
Collect Date: 02–MAR–10 08:45
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.41	2.80	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta	U	ND	+/-1.92	3.12	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company : Florida Department of
Environmental Protection
Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253376
Sample ID: 248802015
Matrix: Soil
Collect Date: 02–MAR–10 09:10
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.25	2.98	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta	U	ND	+/-1.55	3.08	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Company : Florida Department of
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Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253377
Sample ID: 248802016
Matrix: Soil
Collect Date: 02–MAR–10 09:20
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.52	2.67	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta	U	ND	+/-1.26	2.73	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253378
Sample ID: 248802017
Matrix: Soil
Collect Date: 02–MAR–10 10:15
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.99	+/-2.78	3.11	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta	U	ND	+/-1.72	3.00	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253379
Sample ID: 248802018
Matrix: Soil
Collect Date: 02–MAR–10 10:20
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		2.81	+/-2.06	2.63	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta		4.12	+/-2.37	3.48	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253380
Sample ID: 248802019
Matrix: Soil
Collect Date: 02–MAR–10 14:15
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		9.06	+/-3.75	3.03	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta	U	ND	+/-1.78	3.36	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253381
Sample ID: 248802020
Matrix: Soil
Collect Date: 02–MAR–10 14:30
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.34	+/-2.30	2.86	4.00	pCi/g	DXF3	03/20/10	1554	965337	1
Beta	U	ND	+/-1.60	2.88	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1213	961799

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Company : Florida Department of
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Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253382
Sample ID: 248802021
Matrix: Soil
Collect Date: 02–MAR–10 14:10
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.08	2.69	4.00	pCi/g	DXF3	03/23/10	0745	965340	1
Beta	U	ND	+/-1.77	3.13	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

Company : Florida Department of
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Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253383
Sample ID: 248802022
Matrix: Soil
Collect Date: 02–MAR–10 14:20
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.83	3.41	4.00	pCi/g	DXF3	03/23/10	0745	965340	1
Beta		6.74	+/-2.53	3.06	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Company : Florida Department of
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Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253384
Sample ID: 248802023
Matrix: Soil
Collect Date: 02–MAR–10 14:30
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		5.80	+/-3.05	3.19	4.00	pCi/g	DXF3	03/23/10	0745	965340	1
Beta	U	ND	+/-1.84	3.00	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253385
Sample ID: 248802024
Matrix: Soil
Collect Date: 02–MAR–10 14:07
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.81	+/-2.45	2.84	4.00	pCi/g	DXF3	03/23/10	0746	965340	1
Beta	U	ND	+/-1.61	2.93	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253386
Sample ID: 248802025
Matrix: Soil
Collect Date: 02–MAR–10 13:30
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		2.81	+/-2.13	2.63	4.00	pCi/g	DXF3	03/23/10	0746	965340	1
Beta		3.32	+/-2.04	2.92	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

Company : Florida Department of
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Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253387
Sample ID: 248802026
Matrix: Soil
Collect Date: 02–MAR–10 13:45
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.00	3.16	4.00	pCi/g	DXF3	03/23/10	0746	965340	1
Beta	U	ND	+/-1.68	3.25	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

Company : Florida Department of
Environmental Protection
Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253388
Sample ID: 248802027
Matrix: Soil
Collect Date: 02–MAR–10 14:00
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.25	3.00	4.00	pCi/g	DXF3	03/23/10	0746	965340	1
Beta	U	ND	+/-1.73	3.06	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Company : Florida Department of
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Tallahassee, Florida 32399

Report Date: May 5, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1253389
Sample ID: 248802028
Matrix: Soil
Collect Date: 02–MAR–10 14:35
Receive Date: 05–MAR–10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.95	2.70	4.00	pCi/g	DXF3	03/23/10	0746	965340	1
Beta	U	ND	+/-1.80	3.47	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL–RAD–A–021	CXC1	03/06/10	1236	961800

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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QC Summary

Florida Department of Environmental Protection

2600 Blair Stone Road
Tallahassee, Florida

Contact: Ms. Kate Brackett

Workorder: 248802

Report Date: May 5, 2010

Page 1 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	965337										
QC1202071274	248802003	DUP									
Alpha		3.67		4.51	pCi/g	20.6		(0% - 100%)	DXF3	03/20/10	20:20
		Uncertainty		+/-2.49							
Beta		U	2.78	2.53	pCi/g	0.00		N/A			
		Uncertainty		+/-2.07							
QC1202071277	LCS										
Alpha		112		128	pCi/g		115	(75%-125%)		03/21/10	13:30
		Uncertainty		+/-16.9							
Beta		393		410	pCi/g		104	(75%-125%)			
		Uncertainty		+/-21.1							
QC1202071273	MB										
Alpha			U	-1.29	pCi/g					03/20/10	14:23
		Uncertainty		+/-1.45							
Beta			U	-0.939	pCi/g						
		Uncertainty		+/-1.67							
QC1202071275	248802003	MS									
Alpha		124	3.67	157	pCi/g		124	(75%-125%)		03/20/10	20:20
		Uncertainty		+/-14.2							
Beta		435	U	2.78	pCi/g		111	(75%-125%)			
		Uncertainty		+/-17.4							
QC1202071276	248802003	MSD									
Alpha		117	3.67	130	pCi/g	19.1	108	(0%-20%)		03/20/10	20:20
		Uncertainty		+/-12.7							
Beta		411	U	2.78	pCi/g	3.37	114	(0%-20%)			
		Uncertainty		+/-16.4							
Batch	965340										
QC1202071282	248802023	DUP									
Alpha		5.80	U	1.02	pCi/g	140*		(0% - 100%)	DXF3	03/23/10	07:45
		Uncertainty		+/-1.94							
Beta		U	1.67	1.04	pCi/g	0.00		N/A			
		Uncertainty		+/-1.85							
QC1202071285	LCS										
Alpha		114		136	pCi/g		120	(75%-125%)		03/23/10	07:45
		Uncertainty		+/-12.2							
Beta		400		430	pCi/g		108	(75%-125%)			
		Uncertainty		+/-15.5							
QC1202071281	MB										
Alpha			U	0.746	pCi/g					03/23/10	07:44
		Uncertainty		+/-2.04							
Beta			U	-3.16	pCi/g						
		Uncertainty		+/-1.79							
QC1202071283	248802023	MS									
Alpha		117	5.80	146	pCi/g		120	(75%-125%)		03/23/10	07:45

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QC Summary

Workorder: 248802

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	965340										
		Uncertainty									
			+/-3.05	+/-13.2							
Beta	411	U	1.67	461	pCi/g		112	(75%-125%)	DXF3	03/23/10	07:45
		Uncertainty	+/-1.84	+/-16.3							
QC1202071284 248802023 MSD											
Alpha	116		5.80	135	pCi/g	8.09	111	(0%-20%)		03/23/10	07:45
		Uncertainty	+/-3.05	+/-12.4							
Beta	407	U	1.67	441	pCi/g	4.44	108	(0%-20%)			
		Uncertainty	+/-1.84	+/-15.7							

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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QC Summary

Workorder: 248802

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

SIS-2010-03-03-02

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: DEP PURCHASE ORDER NO

Contract Manager: Kate Brackett, MS 6510
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400

(850) 245-8085

Contractor: GEL Laboratories LLC
2040 Savage Road
Charleston, SC 29407

(843) 556-8171

State Approval By: [Signature] Contractor Approval By: [Signature] *
Project Manager Project Manager

Contractor Representative Contacted: Jackie Crook / Tallahassee Date: 2/18/10

Means of Contact: phone / e-mail

Task Assignment Number: GEL Maximum Cost: \$7,056.00
Turnaround Time: 20 business days (unless radium is added)

Sample Delivery Date: Shipped 3/4/10

ProjectName/Description: (include purpose, location, etc.) SIS

Parameter Group/ Method	Sample Matrix	# of Samples	# of QC Samples	DEP ID #	Unit Cost	%mark-up (if any)	Cost
Gross Alpha/Beta	S	28		1253346-353 1253370-389	\$60.00		\$1,680.00
Radium-226/228	S	(28)		1253346-353 1253370-389	\$192.00		(\$5,376.00)

Total: \$1,680.00

(\$7,056.00)

Total Number of Containers Shipped: 56

QC Instructions: Use samples from DEP's SIS project for the
batch

Samples released to Contract Lab by: [Signature] E. White /Date/Time 3/4/10/1:30A

Delivery Method: Fed Ex

Received by: [Signature] /Date/Time 3/5/10 1020

* Please sign and return by FAX at (850) 412-0497 or e-mail to kathryn.brackett@dep.state.fl.us

Xerox copy Sent To:

Contracts-MS #93

F&A-MS #78

Bureau of Labs

* Please hold off on the radium analyses. The samples for radium analyses will be determined based on the gross alpha/gross beta results. This task form will be amended accordingly.

SIS-2010-03-03-02
 TLH-2010-03-03-51
 SIS Project

248802

20100301116

SAMPLE ID	FIELD ID	DATE SAMPLED	MATRIX	ANALYSIS*	
1253346	14-A	3/2/2010 8:40	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253347	1-D	3/2/2010 9:40	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253348	7-A	3/2/2010 10:05	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253349	B-2	3/2/2010 13:30	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253350	B-5	3/2/2010 14:10	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253351	17-A	3/2/2010 14:00	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253352	12-C	3/2/2010 14:00	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253353	15-C	3/2/2010 14:20	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253370	14-A DEEP	3/2/2010 8:55	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253371	14-B	3/2/2010 9:00	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253372	14-C	3/2/2010 9:30	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253373	14-D	3/2/2010 9:50	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253374	1-A	3/2/2010 8:40	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253375	1-A DEEP	3/2/2010 8:45	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253376	1-B	3/2/2010 9:10	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253377	1-C	3/2/2010 9:20	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253378	7-A DEEP	3/2/2010 10:15	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253379	7-B	3/2/2010 10:20	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253380	17-A DEEP	3/2/2010 14:15	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253381	17-B	3/2/2010 14:30	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253382	12-A	3/2/2010 14:10	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253383	12-A DEEP	3/2/2010 14:20	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253384	12-B	3/2/2010 14:30	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253385	12-D	3/2/2010 14:07	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253386	15-B	3/2/2010 13:30	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253387	15-A	3/2/2010 13:45	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253388	15-A DEEP	3/2/2010 14:00	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium
1253389	15-D	3/2/2010 14:35	S-SOIL	OV-ALPHA/BETA/RADIUM	Hold Radium

*Please hold the radium analyses - samples for radium analysis will be determined based on gross alpha/beta results.

Received by: Phil Loh 3/5/10 @ 1020

SAMPLE RECEIPT & REVIEW FORM

Client: <u>State of Florida</u>		SDG/ARCOC/Work Order: <u>248802</u>	
Received By: <u>Ricky Albee</u>		Date Received: <u>3/5/10</u>	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		☒	Maximum Counts Observed*: <u>40 cpm</u>
Classified Radioactive II or III by RSO?		☒	
COC/Samples marked containing PCBs?		☒	
Shipped as a DOT Hazardous?		☒	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		☒	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	☒			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?		☒		ice bags blue ice dry ice <u>none</u> other (describe) <u>10°C, 11°C</u>
3	Chain of custody documents included with shipment?	☒			
4	Sample containers intact and sealed?	☒			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		☒		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		☒		Sample ID's and containers affected:
7	Are Encore containers present?			☒	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	☒			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	☒			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	☒			Sample ID's affected:
11	Number of containers received match number indicated on COC?			☒	Sample ID's affected: <u>2 containers each</u>
12	COC form is properly signed in relinquished/received sections?	☒		☒	<u>cor not relinquished</u>

Comments: FedEx 7984 4487 1220-11°C
7984 4487 1194-10°C

PM (or PMA) review: Initials

MSC

Date

03/05/10

There are no "Data Exception Reports" associated with this analytical report.