

# FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407-339-5984 Fax 407-260-6110 www.flowerslabs.com  
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772-343-8006 Fax 772-343-8089  
P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

City of Key West  
PO Box 6434  
Key West, FL 33041-6464

PO #: n/a  
Client Project #: Garrison Bight-Sediment  
Date Sampled: Apr 23, 2008  
May 1, 2008; Invoice: 64747

## Report Summary

Date Received: Apr 25, 2008

FCL Project Manager: June S. Flowers

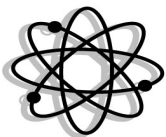
Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
64747SO1	GBM-1-B	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO2	GBM-1-B Dup	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO3	GBM-2-B	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO4	GBM-2-B Dup	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO5	GBM-3-B	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO6	GBM-3-B Dup	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO7	GBM-4-B	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO8	GBM-4-B Dup	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO9	GBM-5-B	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil
64747SO10	GBM-5-B Dup	EPA6020 SM2540 B	EVB RMV	Main Lab Main Lab	Soil

### Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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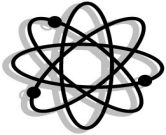
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## Analysis Report

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
<b>Lab #:</b> 64747SO1	<b>Sampled:</b> 04/23/08 07:25 PM	<b>Desc:</b> GBM-1-B										
			% Moisture	66.6	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
			Aluminum	1170	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7429-90-5	04/29/08
			Arsenic	12.1	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-38-2	04/29/08
			Cadmium	0.605	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-43-9	04/29/08
			Chromium	28.8	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-47-3	04/29/08
			Copper	578	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7440-50-8	04/29/08
			Lead	149	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7439-92-1	04/29/08
			Zinc	563	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7440-66-6	04/29/08
<b>Lab #:</b> 64747SO2	<b>Sampled:</b> 04/23/08 07:25 PM	<b>Desc:</b> GBM-1-B Dup										
			% Moisture	62.9	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
			Aluminum	1050	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7429-90-5	04/29/08
			Arsenic	9.46	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-38-2	04/29/08
			Cadmium	0.722	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-43-9	04/29/08
			Chromium	21.4	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-47-3	04/29/08
			Copper	437	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7440-50-8	04/29/08
			Lead	121	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7439-92-1	04/29/08
			Zinc	480	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7440-66-6	04/29/08
<b>Lab #:</b> 64747SO3	<b>Sampled:</b> 04/23/08 06:48 PM	<b>Desc:</b> GBM-2-B										
			% Moisture	75.0	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
			Aluminum	1010	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7429-90-5	04/29/08
			Arsenic	9.88	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-38-2	04/29/08
			Cadmium	0.628	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-43-9	04/29/08
			Chromium	23.8	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-47-3	04/29/08



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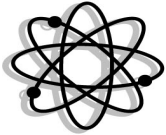
PO #: n/a  
 Client Project #: Garrison Bight-Sediment  
 Date Sampled: Apr 23, 2008  
 May 1, 2008; Invoice: 64747

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
64747SO3	04/23/08 06:48 PM	GBM-2-B	Copper	488	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7440-50-8	04/29/08
			Lead	126	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7439-92-1	04/29/08
			Zinc	540	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7440-66-6	04/29/08

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
64747SO4	04/23/08 06:48 PM	GBM-2-B Dup	% Moisture	77.8	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
			Aluminum	1860	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7429-90-5	04/29/08
			Arsenic	17.6	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-38-2	04/29/08
			Cadmium	0.973	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-43-9	04/29/08
			Chromium	39.3	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-47-3	04/29/08
			Copper	761	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7440-50-8	04/29/08
			Lead	202	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7439-92-1	04/29/08
			Zinc	797	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7440-66-6	04/29/08

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
64747SO5	04/23/08 06:15 PM	GBM-3-B	% Moisture	70.7	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
			Aluminum	1110	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7429-90-5	04/29/08
			Arsenic	7.10	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-38-2	04/29/08
			Cadmium	0.413	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-43-9	04/29/08
			Chromium	12.8	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-47-3	04/29/08
			Copper	216	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7440-50-8	04/29/08
			Lead	67.3	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7439-92-1	04/29/08
			Zinc	271	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7440-66-6	04/29/08

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
64747SO6	04/23/08 06:15 PM	GBM-3-B Dup	% Moisture	64.6	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08



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**Lab #: 64747SO6    Sampled: 04/23/08 06:15 PM    Desc: GBM-3-B Dup**

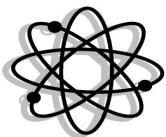
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Aluminum	938	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7429-90-5	04/29/08
Arsenic	6.16	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-38-2	04/29/08
Cadmium	0.362	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-43-9	04/29/08
Chromium	10.9	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-47-3	04/29/08
Copper	165	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7440-50-8	04/29/08
Lead	68.7	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7439-92-1	04/29/08
Zinc	205	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7440-66-6	04/29/08

**Lab #: 64747SO7    Sampled: 04/23/08 05:50 PM    Desc: GBM-4-B**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
% Moisture	55.3	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
Aluminum	899	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7429-90-5	04/29/08
Arsenic	5.59	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-38-2	04/29/08
Cadmium	0.100 U	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-43-9	04/29/08
Chromium	10.1	mg/Kg	1.00	0.100	0.100	10103309	EPA6020	7440-47-3	04/29/08
Copper	93.2	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7440-50-8	04/29/08
Lead	37.1	mg/Kg	1.00	0.100	0.200	10103309	EPA6020	7439-92-1	04/29/08
Zinc	101	mg/Kg	1.00	1.00	2.00	10103309	EPA6020	7440-66-6	04/29/08

**Lab #: 64747SO8    Sampled: 04/23/08 05:50 PM    Desc: GBM-4-B Dup**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
% Moisture	56.7	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
Aluminum	672	mg/Kg	1.00	1.00	2.00	10103310	EPA6020	7429-90-5	04/29/08
Arsenic	4.71	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-38-2	04/29/08
Cadmium	0.317	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-43-9	04/29/08
Chromium	7.88	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-47-3	04/29/08
Copper	77.6	mg/Kg	1.00	0.100	0.200	10103310	EPA6020	7440-50-8	04/29/08
Lead	30.5	mg/Kg	1.00	0.100	0.200	10103310	EPA6020	7439-92-1	04/29/08
Zinc	76.0	mg/Kg	1.00	1.00	2.00	10103310	EPA6020	7440-66-6	04/29/08



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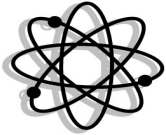
PO #: n/a  
Client Project #: Garrison Bight-Sediment  
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**Lab #: 64747SO9    Sampled: 04/23/08 05:20 PM    Desc: GBM-5-B**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
% Moisture	53.5	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
Aluminum	592	mg/Kg	1.00	1.00	2.00	10103310	EPA6020	7429-90-5	04/29/08
Arsenic	6.20	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-38-2	04/29/08
Cadmium	0.100 U	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-43-9	04/29/08
Chromium	8.13	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-47-3	04/29/08
Copper	83.5	mg/Kg	1.00	0.100	0.200	10103310	EPA6020	7440-50-8	04/29/08
Lead	30.3	mg/Kg	1.00	0.100	0.200	10103310	EPA6020	7439-92-1	04/29/08
Zinc	80.3	mg/Kg	1.00	1.00	2.00	10103310	EPA6020	7440-66-6	04/29/08

**Lab #: 64747SO10    Sampled: 04/23/08 05:20 PM    Desc: GBM-5-B Dup**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
% Moisture	52.7	%Wt	1.00	0.000250	0.000500	10103228	SM2540 B		04/28/08
Aluminum	644	mg/Kg	1.00	1.00	2.00	10103310	EPA6020	7429-90-5	04/29/08
Arsenic	5.87	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-38-2	04/29/08
Cadmium	0.100 U	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-43-9	04/29/08
Chromium	7.96	mg/Kg	1.00	0.100	0.100	10103310	EPA6020	7440-47-3	04/29/08
Copper	76.7	mg/Kg	1.00	0.100	0.200	10103310	EPA6020	7440-50-8	04/29/08
Lead	27.9	mg/Kg	1.00	0.100	0.200	10103310	EPA6020	7439-92-1	04/29/08
Zinc	71.6	mg/Kg	1.00	1.00	2.00	10103310	EPA6020	7440-66-6	04/29/08



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## Quality Report

Quality Control Batch: 10103309

Analyst: EVB

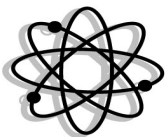
Blank	Result	Units
Aluminum	1.00U	mg/Kg
Arsenic	0.100U	mg/Kg
Cadmium	0.100U	mg/Kg
Chromium	0.100U	mg/Kg
Copper	0.100U	mg/Kg
Lead	0.100U	mg/Kg
Zinc	1.00U	mg/Kg

### Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Aluminum	0.184	mg/Kg	0.200	91.83	80.02-127.27
Arsenic	0.196	mg/Kg	0.200	98.08	77.37-119.08
Cadmium	0.205	mg/Kg	0.200	102.67	76.23-122.28
Chromium	0.196	mg/Kg	0.200	98.22	79.67-125.91
Copper	0.203	mg/Kg	0.200	101.69	76.01-127.78
Lead	0.205	mg/Kg	0.200	102.43	81.86-122.61
Zinc	0.219	mg/Kg	0.200	109.48	70.72-128.29

### Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	4.55	mg/Kg	0.200	231.30	14.58-165.05	4.09
Arsenic	0.170	mg/Kg	0.200	85.20	46.94-143.33	0.100U
Cadmium	0.179	mg/Kg	0.200	89.43	56.41-141.39	0.000320
Chromium	0.201	mg/Kg	0.200	93.01	57.26-148.76	0.0154
Copper	0.399	mg/Kg	0.200	-101.24	45.26-154.43	0.602
Lead	0.507	mg/Kg	0.200	234.45	50.31-149.56	0.0377
Zinc	0.581	mg/Kg	0.200	29.84	35.26-158.48	0.522



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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	4.59	mg/Kg	0.200	249.82	14.58-165.05	4.09	0.81	28.82
Arsenic	0.177	mg/Kg	0.200	88.45	46.94-143.33	0.100U	3.75	25.63
Cadmium	0.182	mg/Kg	0.200	90.99	56.41-141.39	0.000320	1.72	23.21
Chromium	0.203	mg/Kg	0.200	93.82	57.26-148.76	0.0154	0.80	28.86
Copper	0.406	mg/Kg	0.200	-97.62	45.26-154.43	0.602	1.80	25.54
Lead	0.500	mg/Kg	0.200	231.20	50.31-149.56	0.0377	1.29	27.40
Zinc	0.581	mg/Kg	0.200	29.77	35.26-158.48	0.522	0.03	36.34

**Quality Control Batch:** 10103310

**Analyst:** EVB

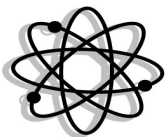
Blank	Result	Units
Aluminum	1.00U	mg/Kg
Arsenic	0.100U	mg/Kg
Cadmium	0.100U	mg/Kg
Chromium	0.100U	mg/Kg
Copper	0.100U	mg/Kg
Lead	0.100U	mg/Kg
Zinc	1.00U	mg/Kg

**Laboratory Control Sample**

	Result	Units	Spike	%REC	%REC Lim
Aluminum	0.184	mg/Kg	0.200	91.83	80.02-127.27
Arsenic	0.196	mg/Kg	0.200	98.08	77.37-119.08
Cadmium	0.205	mg/Kg	0.200	102.67	76.23-122.28
Chromium	0.196	mg/Kg	0.200	98.22	79.67-125.91
Copper	0.203	mg/Kg	0.200	101.69	76.01-127.78
Lead	0.205	mg/Kg	0.200	102.43	81.86-122.61
Zinc	0.219	mg/Kg	0.200	109.48	70.72-128.29

**Matrix Spike**

	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	4.55	mg/Kg	0.200	231.30	14.58-165.05	4.09
Arsenic	0.170	mg/Kg	0.200	85.20	46.94-143.33	0.100U



# FLOWERS CHEMICAL LABORATORIES INC.

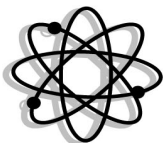
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407 - 339 - 5984 Fax 407 - 260 - 6110 www.flowerslabs.com  
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772 - 343 - 8006 Fax 772 - 343 - 8089  
P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

City of Key West  
PO Box 6434  
Key West, FL 33041-6464

PO #: n/a  
Client Project #: Garrison Bight-Sediment  
Date Sampled: Apr 23, 2008  
May 1, 2008; Invoice: 64747

Quality Control Batch: 10103310		Analyst: EVB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Cadmium	0.179	mg/Kg	0.200	89.43	56.41-141.39	0.000320		
Chromium	0.201	mg/Kg	0.200	93.01	57.26-148.76	0.0154		
Copper	0.399	mg/Kg	0.200	-101.24	45.26-154.43	0.602		
Lead	0.507	mg/Kg	0.200	234.45	50.31-149.56	0.0377		
Zinc	0.581	mg/Kg	0.200	29.84	35.26-158.48	0.522		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	4.59	mg/Kg	0.200	249.82	14.58-165.05	4.09	0.81	28.82
Arsenic	0.177	mg/Kg	0.200	88.45	46.94-143.33	0.100U	3.75	25.63
Cadmium	0.182	mg/Kg	0.200	90.99	56.41-141.39	0.000320	1.72	23.21
Chromium	0.203	mg/Kg	0.200	93.82	57.26-148.76	0.0154	0.80	28.86
Copper	0.406	mg/Kg	0.200	-97.62	45.26-154.43	0.602	1.80	25.54
Lead	0.500	mg/Kg	0.200	231.20	50.31-149.56	0.0377	1.29	27.40
Zinc	0.581	mg/Kg	0.200	29.77	35.26-158.48	0.522	0.03	36.34





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## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by FCL. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Additional Comments

The Matrix Spike recoveries are affected by the concentration of the elements in the unspiked sample.

### Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.