

NOT REQUIRED BY PERMIT
Surface



PASCO COUNTY, FLORIDA

Dade County (352) 511-4274
LAND O' LAKES (813) 996-7341
NEW PORT RICHEY (813) 847-8145

UTILITIES SERVICES BRANCH
PUB. WKS./UTILITIES BLDG. S-213
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

19 April 1999

Ms. Allison Amram
Environmental Specialist III
Waste Management Section
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: West Pasco Class I Sanitary Landfill
Surface Water Monitoring

RECEIVED
JUN 18 1999
Department of Environmental Protection
BY SOUTHWEST DISTRICT

Dear Ms. Amram:

Enclosed please find the analytical results for the parameters listed in 62-701(8)(b) Florida Administrative Code conducted on the surface water runoff at the West Pasco Class I Sanitary Landfill. The samples were collected after two different rain events: one March 3 and one on March 15.

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern
Laboratory Manager

Enc.: 1

cc: Chongman Lee, Florida Department of Environmental Protection, Waste Management Section, Twin Towers Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400
Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director
Vincent Mannella, Solid Waste Facility Manager

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN 18 1999

SOUTHWEST DISTRICT
TAMPA

April 09, 1999

Candia Mulhern
Pasco County
8864 Government Dr.
New Port Richey, FL 34654

Client:	Pasco County
Project [Reference]:	Resource Recovery [9002151]
Date Received:	March 04, 1999

Analytical results presented in this report have been reviewed for compliance with the laboratory quality assurance plan and applicable quality control criteria. The quality control parameters evaluated have met all method and compliance criteria unless otherwise noted on a Quality Control Summary Page immediately following this cover sheet.

FDOH (HRS) Drinking Water Certification Number: 96230, 83486, 82500, 85512, 84526

FDOH (HRS) Environmental Certification Number: E96080, E83509, E82417, E85370, E84418

FDEP CompQAP Approval Number: 870174

NOTE: This report is not to be copied, except in full, without the express written consent of the Harbor Branch Environmental Laboratory.

If you have any questions regarding this report, or if we can be of further assistance, please feel free to call (561) 465-2400 ext. 285 and ask to speak with a project manager.

A handwritten signature in dark ink, appearing to read "Terrie Silcox".

Terrie Silcox
Project Manager

HARBOR BRANCH ENVIRONMENTAL LABORATORY5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

Pasco County

FDEP QAP 870174

PARAMETER MONITORING REPORT
(Rule 62-522.600(11))

GMS #

Test Site #

Test Site Name *Resource Recovery
Surface Water Runoff*

Sample Method Grab, where applicable

Sample Date/Lab ID 03/03/99 14:26 (9002151001)

 Site Type ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☐ Other: Leachate

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limit	Filtered/Unfiltered	Preservative Added
077651	1,2-Dibromoethane	SW-846 8011	03/11/99	ND	ug/L	0.0022	U	None
038437	1,2-Dibromo-3-chloropropane	SW-846 8011	03/11/99	ND	ug/L	0.0020	U	None
001097	Antimony	SW-846 6010	03/10/99	ND	ug/L	4.0	U	None
001002	Arsenic	SW-846 6010	03/10/99	ND	ug/L	3.2	U	None
001007	Barium	SW-846 6010	03/10/99	8.8	ug/L	1.8	U	None
001012	Beryllium	SW-846 6010	03/10/99	ND	ug/L	1.0	U	None
001027	Cadmium	SW-846 6010	03/10/99	ND	ug/L	0.70	U	None
001034	Chromium	SW-846 6010	03/10/99	ND	ug/L	1.8	U	None
001037	Cobalt	SW-846 6010	03/10/99	ND	ug/L	1.0	U	None
001042	Copper	SW-846 6010	03/10/99	12	ug/L	1.4	U	None
001051	Lead	SW-846 6010	03/10/99	ND	ug/L	3.0	U	None
001067	Nickel	SW-846 6010	03/18/99	ND	ug/L	2.0	U	None
001147	Selenium	SW-846 6010	03/10/99	ND	ug/L	2.1	U	None
001077	Silver	SW-846 6010	03/10/99	ND	ug/L	1.0	U	None
001087	Vanadium	SW-846 6010	03/10/99	5.5	ug/L	0.40	U	None
001092	Zinc	SW-846 6010	03/18/99	ND	ug/L	100	U	None
001059	Thallium	SW-846 7841	03/24/99	ND	ug/L	1.2	U	None
081552	Acetone	SW-846 8260	03/10/99	ND	ug/L	0.91	U	None
034215	Acrylonitrile	SW-846 8260	03/10/99	ND	ug/L	2.4	U	None
034030	Benzene	SW-846 8260	03/10/99	ND	ug/L	0.34	U	None
077297	Bromochloromethane	SW-846 8260	03/10/99	ND	ug/L	0.91	U	None
032101	Bromodichloromethane	SW-846 8260	03/10/99	ND	ug/L	0.80	U	None
032104	Bromoform	SW-846 8260	03/10/99	ND	ug/L	1.5	U	None
034413	Bromomethane	SW-846 8260	03/10/99	ND	ug/L	0.44	U	None
077041	Carbon disulfide	SW-846 8260	03/10/99	ND	ug/L	0.63	U	None
032102	Carbon tetrachloride	SW-846 8260	03/10/99	ND	ug/L	0.35	U	None
034301	Chlorobenzene	SW-846 8260	03/10/99	ND	ug/L	0.54	U	None
034311	Chloroethane	SW-846 8260	03/10/99	ND	ug/L	0.63	U	None
032106	Chloroform	SW-846 8260	03/10/99	ND	ug/L	0.66	U	None
034418	Chloromethane	SW-846 8260	03/10/99	ND	ug/L	0.65	U	None

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 17-1.216(2)

Effective January 1, 1983

 Southeast Florida
 Fort Pierce, FL 34946
 FDOH #96230 / E96080

 Orlando Area
 Deltona, FL 32725
 FDOH #83486 / E83509

 Jacksonville Area
 Fernandina Beach, FL 32034
 FDOH #82500 / E82417

 Fort Myers Area
 Lehigh Acres, FL 33936
 FDOH #85512 / E85370

 West Central Florida
 Spring Hill, FL 34607
 FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

Pasco County

FDEP QAP 870174

PARAMETER MONITORING REPORT
(Rule 62-522.600(11))GMS #
Test Site #
Test Site Name

Sample Date/Lab ID 03/03/99 14:26 (9002151001)

Site Type ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☐ Other: Leachate

Sample Method Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limit	Filtered/Unfiltered	Preservative Added
081521	Dibromochloromethane	SW-846 8260	03/10/99	ND	ug/L	0.86	U	None
081522	Dibromomethane	SW-846 8260	03/10/99	ND	ug/L	1.0	U	None
034536	1,2-Dichlorobenzene	SW-846 8260	03/10/99	ND	ug/L	1.1	U	None
034571	1,4-Dichlorobenzene	SW-846 8260	03/10/99	ND	ug/L	1.0	U	None
034496	1,1-Dichloroethane	SW-846 8260	03/10/99	ND	ug/L	1.1	U	None
034531	1,2-Dichloroethane	SW-846 8260	03/10/99	ND	ug/L	1.7	U	None
034501	1,1-Dichloroethene	SW-846 8260	03/10/99	ND	ug/L	0.51	U	None
077093	cis-1,2-Dichloroethene	SW-846 8260	03/10/99	ND	ug/L	1.1	U	None
034546	trans-1,2-Dichloroethene	SW-846 8260	03/10/99	ND	ug/L	0.47	U	None
034423	Methylene chloride	SW-846 8260	03/10/99	ND	ug/L	1.2	U	None
034541	1,2-Dichloropropane	SW-846 8260	03/10/99	ND	ug/L	0.59	U	None
034704	cis-1,3-Dichloropropene	SW-846 8260	03/10/99	ND	ug/L	0.32	U	None
034699	trans-1,3-Dichloropropene	SW-846 8260	03/10/99	ND	ug/L	0.46	U	None
034371	Ethylbenzene	SW-846 8260	03/10/99	ND	ug/L	0.48	U	None
077103	2-Hexanone	SW-846 8260	03/10/99	ND	ug/L	0.43	U	None
081595	2-Butanone	SW-846 8260	03/10/99	ND	ug/L	0.75	U	None
077424	Methyl iodide	SW-846 8260	03/10/99	ND	ug/L	1.6	U	None
081596	4-Methyl-2-pentanone	SW-846 8260	03/10/99	ND	ug/L	0.79	U	None
077128	Styrene	SW-846 8260	03/10/99	ND	ug/L	0.67	U	None
034475	Tetrachloroethene	SW-846 8260	03/10/99	ND	ug/L	0.90	U	None
077562	1,1,1,2-Tetrachloroethane	SW-846 8260	03/10/99	ND	ug/L	0.59	U	None
034516	1,1,2,2-Tetrachloroethane	SW-846 8260	03/10/99	ND	ug/L	1.0	U	None
034010	Toluene	SW-846 8260	03/10/99	ND	ug/L	0.40	U	None
034506	1,1,1-Trichloroethane	SW-846 8260	03/10/99	ND	ug/L	1.1	U	None
034511	1,1,2-Trichloroethane	SW-846 8260	03/10/99	ND	ug/L	0.58	U	None
039180	Trichloroethene	SW-846 8260	03/10/99	ND	ug/L	0.66	U	None
034488	Trichlorofluoromethane	SW-846 8260	03/10/99	ND	ug/L	0.86	U	None
077443	1,2,3-Trichloropropane	SW-846 8260	03/10/99	ND	ug/L	1.6	U	None
039175	Vinyl chloride	SW-846 8260	03/10/99	ND	ug/L	0.27	U	None
	o-Xylene	SW-846 8260	03/10/99	ND	ug/L	1.3	U	None

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 17-1.216(2)

Effective January 1, 1983

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

Pasco County

FDEP QAP 870174

**PARAMETER MONITORING REPORT**
(Rule 62-522.600(11))

GMS # _____ Sample Date/Lab ID 03/03/99 14:26 (9002151001)
Test Site # _____ Site Type ☐ Background
Test Site Name _____ ☐ Site Boundary
_____ ☐ Intermediate
_____ ☐ Compliance
Sample Method Grab, where applicable _____ ☐ Other: Leachate

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limit	Filtered/Unfiltered	Preservative Added
081551	m-Xylene and p-Xylene	SW-846 8260	03/10/99	ND	ug/L	0.83	U	None
073547	Total Xylenes	SW-846 8260	03/10/99	ND	ug/L	1.5	U	None
077057	trans-1,4-Dichloro-2-butene	SW-846 8260	03/10/99	ND	ug/L	0.79	U	None
077057	Vinyl acetate	SW-846 8260	03/10/99	ND	ug/L	1.4	U	None

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 17-1.216(2)

Effective January 1,1983



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(727) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: ASH CELL RUNOFF
DATE: 04/08/99

SAMPLE NUMBER- 76724 SAMPLE ID- LMF ASH CELL RAINWATER RUNOFF SAMPLE MATRIX- OT
DATE SAMPLED- 03/03/99 TIME SAMPLED- 1426
DATE RECEIVED- 03/03/99 SAMPLER- MICHAEL JONES RECEIVED BY- CEM
TIME RECEIVED- 1534 DELIVERED BY- S VAN DUNK TYPE SAMPLE- Grab

Page 3 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS	DQ
TOT.ORGANIC CARBON	SM 5310			03/12/99	1150	IF	10.9	mg/L	
BIOCHEM.OXY.DEMAND	SM5210B			03/05/99	1345	DN	4	mg/L	
CHEMICAL OXYGEN DEMAND	SM5220B			03/12/99	1600	TER	51.6	mg/L	
CHLOROPHYLL A	SM 10200H	03/08/99	TER	03/03/99	1415	JK	1.17	mg/M3	
TOTAL HARDNESS AS CaCO3	SM 2340 C			03/15/99	0930	TER	51	mg/L CaCO3	
UN-IONIZED AMMONIA N	DEP SOP			03/22/99	1100	CEM	<0.02	mg/L	
NITRATE	SM4500NO3F			03/04/99	1600	IF	0.32	mg/L	
TOTAL NITROGEN	CALC.			03/22/99	1100	CEM	18.5	MG/L	
TOTAL PHOSPHOROUS	SM4500P B			03/11/99	1100	TER	1.52	mgP/L	
TOTAL DISS.SOLIDS	SM2540C			03/04/99	0845	JK	71	mg/L	
TOTAL SUSP. SOLIDS	SM2540D			03/04/99	1430	DN	10	mg/L	
COPPER.TOTAL	SM3113B	03/05/99	TER	03/15/99	1140	TER	<0.02	mg/L	
IRON.TOTAL	SM 3111B	03/05/99	TER	03/12/99	1145	TER	0.06	mg/L	
MERCURY.TOTAL	SM3112B			03/23/99	1640	TER	0.0005	mg/L	
ZINC.TOTAL	SM3111B	03/05/99	TER	03/12/99	1200	TER	0.02	mg/L	

LABORATORY DIRECTOR

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch MDIG 2633 (49079)
Original
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/09/99 14:39
Analysis Method SW-846 6010

QC results affect the following production samples:

9002151001

QC results for Method Blank [103718]

Run Instrument: ThermoJarrellAsh 61E Trace ICP

Parameter	Analyzed	Result	RDL	Units
Antimony	03/10/99	ND	0.0040	mg/L
Arsenic	03/10/99	ND	0.0032	mg/L
Barium	03/10/99	ND	0.0018	mg/L
Beryllium	03/10/99	ND	0.0010	mg/L
Cadmium	03/10/99	ND	0.00070	mg/L
Chromium	03/10/99	ND	0.0018	mg/L
Cobalt	03/10/99	ND	0.0010	mg/L
Copper	03/10/99	ND	0.0014	mg/L
Lead	03/10/99	ND	0.0030	mg/L
Selenium	03/10/99	ND	0.0021	mg/L
Silver	03/10/99	ND	0.0010	mg/L
Vanadium	03/10/99	ND	0.00040	mg/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch MDIG 2633 (49079)
Original
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/09/99 14:39
Analysis Method SW-846 6010

QC results affect the following production samples:

9002151001

QC results for Lab Control Sample [103719]

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Antimony	LCS	0.23	94	80-120			.25mg/L	03/10/99	TJAICP
Arsenic	LCS	0.25	98	80-120			.25mg/L	03/10/99	TJAICP
Barium	LCS	0.26	104	80-120			.25mg/L	03/10/99	TJAICP
Beryllium	LCS	0.05	101	80-120			.05mg/L	03/10/99	TJAICP
Cadmium	LCS	0.098	98	80-120			.1mg/L	03/10/99	TJAICP
Chromium	LCS	0.25	99	80-120			.25mg/L	03/10/99	TJAICP
Cobalt	LCS	0.1	101	80-120			.1mg/L	03/10/99	TJAICP
Copper	LCS	0.24	98	80-120			.25mg/L	03/10/99	TJAICP
Lead	LCS	0.25	101	80-120			.25mg/L	03/10/99	TJAICP
Selenium	LCS	0.24	96	80-120			.25mg/L	03/10/99	TJAICP
Silver	LCS	0.025	99	80-120			.025mg/L	03/10/99	TJAICP
Vanadium	LCS	0.1	102	80-120			.1mg/L	03/10/99	TJAICP

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch MDIG 2633 (49079)
Original 9001855001
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/09/99 14:39
Analysis Method SW-846 6010

QC results affect the following production samples:

9002151001

QC results for Matrix Spike [103720] - Matrix Spike Duplicate [103721]

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Antimony	MS	ND	0.22	89	80-120			.25mg/L	03/10/99	TJAICP
	MSD		0.23	94		5.5	0-20	.25mg/L	03/10/99	TJAICP
Arsenic	MS	ND	0.24	96	80-120			.25mg/L	03/10/99	TJAICP
	MSD		0.25	99		3.1	0-20	.25mg/L	03/10/99	TJAICP
Barium	MS	0.65	0.87	90	80-120			.25mg/L	03/10/99	TJAICP
	MSD		0.92	107		17	0-20	.25mg/L	03/10/99	TJAICP
Beryllium	MS	ND	0.049	97	80-120			.05mg/L	03/10/99	TJAICP
	MSD		0.05	100		3	0-20	.05mg/L	03/10/99	TJAICP
Cadmium	MS	ND	0.095	95	80-120			.1mg/L	03/10/99	TJAICP
	MSD		0.1	100		5.1	0-20	.1mg/L	03/10/99	TJAICP
Chromium	MS	ND	0.24	97	80-120			.25mg/L	03/10/99	TJAICP
	MSD		0.26	102		5	0-20	.25mg/L	03/10/99	TJAICP
Cobalt	MS	ND	0.1	100	80-120			.1mg/L	03/10/99	TJAICP
	MSD		0.1	104		3.9	0-20	.1mg/L	03/10/99	TJAICP
Copper	MS	0.0037	0.24	96	80-120			.25mg/L	03/10/99	TJAICP
	MSD		0.25	100		4.1	0-20	.25mg/L	03/10/99	TJAICP
Lead	MS	ND	0.25	99	80-120			.25mg/L	03/10/99	TJAICP
	MSD		0.26	104		4.9	0-20	.25mg/L	03/10/99	TJAICP
Selenium	MS	ND	0.23	93	80-120			.25mg/L	03/10/99	TJAICP
	MSD		0.24	97		4.2	0-20	.25mg/L	03/10/99	TJAICP

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch MDIG 2633 (49079)
Original 9001855001
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/09/99 14:39
Analysis Method SW-846 6010

QC results for Matrix Spike [103720] - Matrix Spike Duplicate [103721] (continued)

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Silver	MS	ND	0.024	95	80-120			.025mg/L	03/10/99	TJAICP
	MSD		0.025	100		5.1	0-20	.025mg/L	03/10/99	TJAICP
Vanadium	MS	ND	0.1	100	80-120			.1mg/L	03/10/99	TJAICP
	MSD		0.1	104		3.9	0-20	.1mg/L	03/10/99	TJAICP

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch EXTR 3230 (49180)
Original
Matrix Environmental Water

Prep Date 03/10/99 05:47
Analysis Method EDB's

QC results affect the following production samples:

9002151001

QC results for Method Blank [103873]

Run Instrument: P-E AutoGC Dual ECD

Parameter	Analyzed	Result	RDL	Units
1,2-Dibromoethane	03/10/99	ND	0.0025	ug/L
1,2-Dibromo-3-chloropropane	03/10/99	ND	0.0023	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch EXTR 3230 (49180)
Original
Matrix Environmental Water

Prep Date 03/10/99 05:47
Analysis Method EDB's

QC results affect the following production samples:

9002151001

QC results for Lab Control Sample [103874] - Lab Control Sample Duplicate [103877]

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
1,2-Dibromoethane	LCS	0.1	105	60-140			.1ug/L	03/10/99	AUTOE_
	LCSD	0.1	102		2.9	0-20	.1ug/L	03/10/99	AUTOE_
1,2-Dibromo-3-chloropropane	LCS	0.12	122	60-140			.1ug/L	03/10/99	AUTOE_
	LCSD	0.11	112		8.5	0-20	.1ug/L	03/10/99	AUTOE_

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch EXTR 3230 (49180)
Original 9002198001
Matrix Environmental Water

Prep Date 03/10/99 05:47
Analysis Method EDB's

QC results affect the following production samples:

9002151001

QC results for Matrix Spike [103875] - Matrix Spike Duplicate [103876]

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
1,2-Dibromoethane	MS	ND	0.051	61	60-140		.084ug/L	03/10/99	AUTOE_
	MSD		0.06	69		12	0-20 .084ug/L	03/10/99	AUTOE_
1,2-Dibromo-3-chloropropane	MS	ND	0.068	81	60-140		.084ug/L	03/10/99	AUTOE_
	MSD		0.08	91		12	0-20 .084ug/L	03/10/99	AUTOE_

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results affect the following production samples:

9002151001

QC results for Method Blank [104241]

Run Instrument: Finnigan Incos XL FN2655 GCMS

Parameter	Analyzed	Result	RDL	Units
Acetone	03/10/99	ND	0.91	ug/L
Acrylonitrile	03/10/99	ND	2.4	ug/L
Benzene	03/10/99	ND	0.34	ug/L
Bromochloromethane	03/10/99	ND	0.91	ug/L
Bromodichloromethane	03/10/99	ND	0.80	ug/L
Bromoform	03/10/99	ND	1.5	ug/L
Bromomethane	03/10/99	ND	0.44	ug/L
Carbon disulfide	03/10/99	ND	0.63	ug/L
Carbon tetrachloride	03/10/99	ND	0.35	ug/L
Chlorobenzene	03/10/99	ND	0.54	ug/L
Chloroethane	03/10/99	ND	0.63	ug/L
Chloroform	03/10/99	ND	0.66	ug/L
Chloromethane	03/10/99	ND	0.65	ug/L
Dibromochloromethane	03/10/99	ND	0.86	ug/L
Dibromomethane	03/10/99	ND	1.0	ug/L
1,2-Dichlorobenzene	03/10/99	ND	1.1	ug/L
1,4-Dichlorobenzene	03/10/99	ND	1.0	ug/L
1,1-Dichloroethane	03/10/99	ND	1.1	ug/L
1,2-Dichloroethane	03/10/99	ND	1.7	ug/L
1,1-Dichloroethene	03/10/99	ND	0.51	ug/L
cis-1,2-Dichloroethene	03/10/99	ND	1.1	ug/L

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Method Blank [104241] (continued)

Run Instrument: Finnigan Incos XL FN2655 GCMS

Parameter	Analyzed	Result	RDL	Units
trans-1,2-Dichloroethene	03/10/99	ND	0.47	ug/L
Methylene chloride	03/10/99	ND	1.2	ug/L
1,2-Dichloropropane	03/10/99	ND	0.59	ug/L
cis-1,3-Dichloropropene	03/10/99	ND	0.32	ug/L
trans-1,3-Dichloropropene	03/10/99	ND	0.46	ug/L
Ethylbenzene	03/10/99	ND	0.48	ug/L
2-Hexanone	03/10/99	ND	0.43	ug/L
2-Butanone	03/10/99	ND	0.75	ug/L
Methyl iodide	03/10/99	ND	1.6	ug/L
4-Methyl-2-pentanone	03/10/99	ND	0.79	ug/L
Styrene	03/10/99	ND	0.67	ug/L
Tetrachloroethene	03/10/99	ND	0.90	ug/L
1,1,1,2-Tetrachloroethane	03/10/99	ND	0.59	ug/L
1,1,2,2-Tetrachloroethane	03/10/99	ND	1.0	ug/L
Toluene	03/10/99	ND	0.40	ug/L
1,1,1-Trichloroethane	03/10/99	ND	1.1	ug/L
1,1,2-Trichloroethane	03/10/99	ND	0.58	ug/L
Trichloroethene	03/10/99	ND	0.66	ug/L
Trichlorofluoromethane	03/10/99	ND	0.86	ug/L
1,2,3-Trichloropropane	03/10/99	ND	1.6	ug/L
Vinyl chloride	03/10/99	ND	0.27	ug/L
o-Xylene	03/10/99	ND	1.3	ug/L
m-Xylene and p-Xylene	03/10/99	ND	0.83	ug/L
Total Xylenes	03/10/99	ND	1.5	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)

Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Method Blank [104241] (continued)

Run Instrument: Finnigan Incos XL FN2655 GCMS

Parameter	Analyzed	Result	RDL	Units
trans-1,4-Dichloro-2-butene	03/10/99	ND	0.79	ug/L
Vinyl acetate	03/10/99	ND	1.4	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
 Workorder Resource Recovery

QC Batch VOC 1463 (49363)
 Original 9001904004
 Matrix Environmental Water

Analysis Method SW-846 8260

QC results affect the following production samples:

9002151001

QC results for Matrix Spike [104242] - Matrix Spike Duplicate [104243]

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD RPD	Spiked Limits Amount	Analyzed	Instru ID
Acetone	MS	ND	24	120	24-203		20ug/L	03/10/99	FN2655
	MSD		23	114		5.1	0-44 20ug/L	03/10/99	FN2655
Acrylonitrile	MS	ND	100	126	60-140		80ug/L	03/10/99	FN2655
	MSD		100	130		3.1	0-40 80ug/L	03/10/99	FN2655
Benzene	MS	ND	23	117	70-130		20ug/L	03/10/99	FN2655
	MSD		24	118		.85	0-30 20ug/L	03/10/99	FN2655
Bromochloromethane	MS	ND	26	128	67.5-135.3		20ug/L	03/10/99	FN2655
	MSD		25	125		2.4	0-30 20ug/L	03/10/99	FN2655
Bromodichloromethane	MS	ND	25	124	64-135		20ug/L	03/10/99	FN2655
	MSD		23	117		5.8	0-32 20ug/L	03/10/99	FN2655
Bromoform	MS	ND	21	107	66.4-135.9		20ug/L	03/10/99	FN2655
	MSD		21	106		.94	0-30 20ug/L	03/10/99	FN2655
Bromomethane	MS	ND	18	88	50-150		20ug/L	03/10/99	FN2655
	MSD		21	103		16	0-38 20ug/L	03/10/99	FN2655
Carbon disulfide	MS	ND	19	97	46-162		20ug/L	03/10/99	FN2655
	MSD		19	93		4.2	0-37 20ug/L	03/10/99	FN2655
Carbon tetrachloride	MS	ND	20	102	69.6-130.7		20ug/L	03/10/99	FN2655
	MSD		21	103		.98	0-35 20ug/L	03/10/99	FN2655
Chlorobenzene	MS	ND	21	105	70-130		20ug/L	03/10/99	FN2655
	MSD		21	106		.95	0-30 20ug/L	03/10/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)
Original 9001904004
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Matrix Spike [104242] - Matrix Spike Duplicate [104243] (continued)

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Chloroethane	MS	ND	18	88	44.3-152.8			20ug/L	03/10/99	FN2655
	MSD		16	79		11	0-32	20ug/L	03/10/99	FN2655
Chloroform	MS	ND	25	124	66.9-132.4			20ug/L	03/10/99	FN2655
	MSD		25	124		0	0-30	20ug/L	03/10/99	FN2655
Chloromethane	MS	ND	19	93	37.6-149.1			20ug/L	03/10/99	FN2655
	MSD		19	94		1.1	0-50	20ug/L	03/10/99	FN2655
Dibromochloromethane	MS	ND	23	115	70-130			20ug/L	03/10/99	FN2655
	MSD		23	114		.87	0-30	20ug/L	03/10/99	FN2655
Dibromomethane	MS	ND	23	117	70-130			20ug/L	03/10/99	FN2655
	MSD		22	112		4.4	0-37	20ug/L	03/10/99	FN2655
1,2-Dichlorobenzene	MS	ND	19	97	70-130			20ug/L	03/10/99	FN2655
	MSD		19	95		2.1	0-35	20ug/L	03/10/99	FN2655
1,4-Dichlorobenzene	MS	ND	21	106	70-130			20ug/L	03/10/99	FN2655
	MSD		22	110		3.7	0-30	20ug/L	03/10/99	FN2655
1,1-Dichloroethane	MS	ND	21	107	68.9-133.6			20ug/L	03/10/99	FN2655
	MSD		17	87		21	0-30	20ug/L	03/10/99	FN2655
1,2-Dichloroethane	MS	ND	21	105	70-130			20ug/L	03/10/99	FN2655
	MSD		20	100		4.9	0-38	20ug/L	03/10/99	FN2655
1,1-Dichloroethene	MS	ND	21	106	50.8-137.7			20ug/L	03/10/99	FN2655
	MSD		22	110		3.7	0-37	20ug/L	03/10/99	FN2655
cis-1,2-Dichloroethene	MS	ND	25	125	70-130			20ug/L	03/10/99	FN2655
	MSD		26	129		3.1	0-34	20ug/L	03/10/99	FN2655
trans-1,2-Dichloroethene	MS	ND	22	109	64.6-130.9			20ug/L	03/10/99	FN2655
	MSD		22	111		1.8	0-35	20ug/L	03/10/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)
Original 9001904004
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Matrix Spike [104242] - Matrix Spike Duplicate [104243] (continued)

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Methylene chloride	MS	ND	22	109	53-156.8			20ug/L	03/10/99	FN2655
	MSD		20	101		7.6	0-31	20ug/L	03/10/99	FN2655
1,2-Dichloropropane	MS	ND	23	113	70-130			20ug/L	03/10/99	FN2655
	MSD		24	118		4.3	0-31	20ug/L	03/10/99	FN2655
cis-1,3-Dichloropropene	MS	ND	23	116	47-148			20ug/L	03/10/99	FN2655
	MSD		25	123		5.9	0-30	20ug/L	03/10/99	FN2655
trans-1,3-Dichloropropene	MS	ND	25	125	47-149			20ug/L	03/10/99	FN2655
	MSD		25	124		.8	0-30	20ug/L	03/10/99	FN2655
Ethylbenzene	MS	ND	22	108	70-130			20ug/L	03/10/99	FN2655
	MSD		22	112		3.6	0-30	20ug/L	03/10/99	FN2655
2-Hexanone	MS	ND	26	132	53-146			20ug/L	03/10/99	FN2655
	MSD		25	124		6.3	0-30	20ug/L	03/10/99	FN2655
2-Butanone	MS	ND	21	104	56-156			20ug/L	03/10/99	FN2655
	MSD		22	111		6.5	0-30	20ug/L	03/10/99	FN2655
Methyl iodide	MS	ND	27	137	50-150			20ug/L	03/10/99	FN2655
	MSD		27	133		3	0-40	20ug/L	03/10/99	FN2655
4-Methyl-2-pentanone	MS	ND	27	136	63-141			20ug/L	03/10/99	FN2655
	MSD		26	131		3.7	0-30	20ug/L	03/10/99	FN2655
Styrene	MS	ND	23	115	70-130			20ug/L	03/10/99	FN2655
	MSD		23	116		.87	0-30	20ug/L	03/10/99	FN2655
Tetrachloroethene	MS	ND	18	88	64.2-125.2			20ug/L	03/10/99	FN2655
	MSD		18	92		4.4	0-30	20ug/L	03/10/99	FN2655
1,1,1,2-Tetrachloroethane	MS	ND	22	109	70-130			20ug/L	03/10/99	FN2655
	MSD		22	109		0	0-30	20ug/L	03/10/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
 Workorder Resource Recovery

QC Batch VOC 1463 (49363)
 Original 9001904004
 Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Matrix Spike [104242] - Matrix Spike Duplicate [104243] (continued)

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
1,1,2,2-Tetrachloroethane	MS	ND	23	115	70-130		20ug/L	03/10/99	FN2655
	MSD		22	108		6.3	0-30 20ug/L	03/10/99	FN2655
Toluene	MS	ND	22	108	70-130		20ug/L	03/10/99	FN2655
	MSD		21	107		.93	0-30 20ug/L	03/10/99	FN2655
1,1,1-Trichloroethane	MS	ND	24	120	69.5-134.1		20ug/L	03/10/99	FN2655
	MSD		25	126		4.9	0-30 20ug/L	03/10/99	FN2655
1,1,2-Trichloroethane	MS	ND	25	126	70-130		20ug/L	03/10/99	FN2655
	MSD		25	123		2.4	0-37 20ug/L	03/10/99	FN2655
Trichloroethene	MS	ND	23	116	70-130		20ug/L	03/10/99	FN2655
	MSD		23	117		.86	0-33 20ug/L	03/10/99	FN2655
Trichlorofluoromethane	MS	ND	19	93	59.2-131.5		20ug/L	03/10/99	FN2655
	MSD		20	100		7.3	0-30 20ug/L	03/10/99	FN2655
1,2,3-Trichloropropane	MS	ND	23	116	70-130		20ug/L	03/10/99	FN2655
	MSD		22	112		3.5	0-30 20ug/L	03/10/99	FN2655
Vinyl chloride	MS	ND	20	101	43.4-148.5		20ug/L	03/10/99	FN2655
	MSD		20	100		1	0-31 20ug/L	03/10/99	FN2655
o-Xylene	MS	ND	22	112	70-130		20ug/L	03/10/99	FN2655
	MSD		22	112		0	0-30 20ug/L	03/10/99	FN2655
m-Xylene and p-Xylene	MS	ND	44	110	70-130		40ug/L	03/10/99	FN2655
	MSD		44	111		.9	0-30 40ug/L	03/10/99	FN2655
trans-1,4-Dichloro-2-butene	MS	ND	26	130	40-130		20ug/L	03/10/99	FN2655
	MSD		25	123		5.5	0-40 20ug/L	03/10/99	FN2655
Vinyl acetate	MS	ND	25	123	50-150		20ug/L	03/10/99	FN2655
	MSD		24	118		4.1	0-40 20ug/L	03/10/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results affect the following production samples:

9002151001

QC results for Lab Control Sample [104244]

Parameter	QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Acetone	LCS	20	101	24-203		20ug/L	03/10/99	FN2655
Acrylonitrile	LCS	100	125	60-140		80ug/L	03/10/99	FN2655
Benzene	LCS	23	115	59-127		20ug/L	03/10/99	FN2655
Bromochloromethane	LCS	25	126	67-131		20ug/L	03/10/99	FN2655
Bromodichloromethane	LCS	22	112	54-142		20ug/L	03/10/99	FN2655
Bromoform	LCS	21	107	70-130		20ug/L	03/10/99	FN2655
Bromomethane	LCS	21	105	50-150		20ug/L	03/10/99	FN2655
Carbon disulfide	LCS	19	96	46-162		20ug/L	03/10/99	FN2655
Carbon tetrachloride	LCS	21	105	56-140		20ug/L	03/10/99	FN2655
Chlorobenzene	LCS	21	104	70-130		20ug/L	03/10/99	FN2655
Chloroethane	LCS	16	79	34-195		20ug/L	03/10/99	FN2655
Chloroform	LCS	24	122	70-130		20ug/L	03/10/99	FN2655
Chloromethane	LCS	17	84	1-200		20ug/L	03/10/99	FN2655
Dibromochloromethane	LCS	22	111	70-130		20ug/L	03/10/99	FN2655
Dibromomethane	LCS	23	116	61-140		20ug/L	03/10/99	FN2655
1,2-Dichlorobenzene	LCS	20	99	71-131		20ug/L	03/10/99	FN2655
1,4-Dichlorobenzene	LCS	23	113	65-142		20ug/L	03/10/99	FN2655
1,1-Dichloroethane	LCS	21	107	70-135		20ug/L	03/10/99	FN2655
1,2-Dichloroethane	LCS	20	99	40-156		20ug/L	03/10/99	FN2655
1,1-Dichloroethene	LCS	22	112	31-183		20ug/L	03/10/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Lab Control Sample [104244] (continued)

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
cis-1,2-Dichloroethene	LCS	25	124	61-150			20ug/L	03/10/99	FN2655
trans-1,2-Dichloroethene	LCS	22	111	53-137			20ug/L	03/10/99	FN2655
Methylene chloride	LCS	22	108	60-168			20ug/L	03/10/99	FN2655
1,2-Dichloropropane	LCS	22	111	63-137			20ug/L	03/10/99	FN2655
cis-1,3-Dichloropropene	LCS	24	118	47-148			20ug/L	03/10/99	FN2655
trans-1,3-Dichloropropene	LCS	23	113	47-149			20ug/L	03/10/99	FN2655
Ethylbenzene	LCS	22	108	70-130			20ug/L	03/10/99	FN2655
2-Hexanone	LCS	25	125	53-146			20ug/L	03/10/99	FN2655
2-Butanone	LCS	18	92	56-156			20ug/L	03/10/99	FN2655
Methyl iodide	LCS	25	126	50-150			20ug/L	03/10/99	FN2655
4-Methyl-2-pentanone	LCS	26	130	63-141			20ug/L	03/10/99	FN2655
Styrene	LCS	23	114	70-130			20ug/L	03/10/99	FN2655
Tetrachloroethene	LCS	18	88	64-138			20ug/L	03/10/99	FN2655
1,1,1,2-Tetrachloroethane	LCS	21	104	70-130			20ug/L	03/10/99	FN2655
1,1,2,2-Tetrachloroethane	LCS	23	117	70-130			20ug/L	03/10/99	FN2655
Toluene	LCS	21	107	70-130			20ug/L	03/10/99	FN2655
1,1,1-Trichloroethane	LCS	25	124	70-130			20ug/L	03/10/99	FN2655
1,1,2-Trichloroethane	LCS	24	120	65-141			20ug/L	03/10/99	FN2655
Trichloroethene	LCS	23	115	72-132			20ug/L	03/10/99	FN2655
Trichlorofluoromethane	LCS	19	95	66-139			20ug/L	03/10/99	FN2655
1,2,3-Trichloropropane	LCS	24	119	70-130			20ug/L	03/10/99	FN2655
Vinyl chloride	LCS	21	104	48-179			20ug/L	03/10/99	FN2655
o-Xylene	LCS	23	116	70-137			20ug/L	03/10/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch VOC 1463 (49363)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Lab Control Sample [104244] (continued)

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
m-Xylene and p-Xylene	LCS	44	110	44-146			40ug/L	03/10/99	FN2655
trans-1,4-Dichloro-2-butene	LCS	25	124	50-150			20ug/L	03/10/99	FN2655
Vinyl acetate	LCS	25	123	50-150			20ug/L	03/10/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch MDIG 2641 (49546)
Original
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/17/99 14:34
Analysis Method SW-846 6010

QC results affect the following production samples:

9002151001

QC results for Method Blank [104556]

Run Instrument: ThermoJarrellAsh 61E Trace ICP

Parameter	Analyzed	Result	RDL	Units
Antimony	03/18/99	ND	0.0040	mg/L
Arsenic	03/18/99	ND	0.0032	mg/L
Barium	03/18/99	ND	0.0018	mg/L
Beryllium	03/18/99	ND	0.0010	mg/L
Cadmium	03/18/99	ND	0.00070	mg/L
Chromium	03/18/99	ND	0.0018	mg/L
Cobalt	03/18/99	ND	0.0010	mg/L
Copper	03/18/99	ND	0.0014	mg/L
Lead	03/18/99	ND	0.0030	mg/L
Nickel	03/18/99	ND	0.0020	mg/L
Selenium	03/18/99	ND	0.0021	mg/L
Silver	03/18/99	ND	0.0010	mg/L
Vanadium	03/18/99	ND	0.00040	mg/L
Zinc	03/18/99	ND	0.10	mg/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch MDIG 2641 (49546)
Original
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/17/99 14:34
Analysis Method SW-846 6010

QC results affect the following production samples:

9002151001

QC results for Lab Control Sample [104557]

Parameter	QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Antimony	LCS 0.21	86	80-120			.25mg/L	03/18/99	TJA1CP
Arsenic	LCS 0.23	93	80-120			.25mg/L	03/18/99	TJA1CP
Barium	LCS 0.22	87	80-120			.25mg/L	03/18/99	TJA1CP
Beryllium	LCS 0.043	87	80-120			.05mg/L	03/18/99	TJA1CP
Cadmium	LCS 0.085	85	80-120			.1mg/L	03/18/99	TJA1CP
Chromium	LCS 0.22	86	80-120			.25mg/L	03/18/99	TJA1CP
Cobalt	LCS 0.087	87	80-120			.1mg/L	03/18/99	TJA1CP
Copper	LCS 0.22	86	80-120			.25mg/L	03/18/99	TJA1CP
Lead	LCS 0.22	89	80-120			.25mg/L	03/18/99	TJA1CP
Nickel	LCS 0.23	90	80-120			.25mg/L	03/18/99	TJA1CP
Selenium	LCS 0.23	92	80-120			.25mg/L	03/18/99	TJA1CP
Silver	LCS 0.022	87	80-120			.025mg/L	03/18/99	TJA1CP
Vanadium	LCS 0.086	86	80-120			.1mg/L	03/18/99	TJA1CP
Zinc	LCS 0.25	98	80-120			.25mg/L	03/18/99	TJA1CP

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
 Workorder Resource Recovery

QC Batch MDIG 2641 (49546)
 Original 9002036003
 Matrix Environmental Water

Prep Method SW-846 Digestion 3005
 Prep Date 03/17/99 14:34
 Analysis Method SW-846 6010

QC results affect the following production samples:

9002151001

QC results for Matrix Spike [104558] - Matrix Spike Duplicate [104559]

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
Antimony	MS	ND	0.24	95	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.24	97		2.1 0-20	.25mg/L	03/18/99	TJAICP
Arsenic	MS	ND	0.25	101	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.26	104		2.9 0-20	.25mg/L	03/18/99	TJAICP
Barium	MS	ND	0.25	102	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.26	104		1.9 0-20	.25mg/L	03/18/99	TJAICP
Beryllium	MS	ND	0.047	95	80-120		.05mg/L	03/18/99	TJAICP
	MSD		0.049	98		3.1 0-20	.05mg/L	03/18/99	TJAICP
Cadmium	MS	ND	0.094	94	80-120		.1mg/L	03/18/99	TJAICP
	MSD		0.096	96		2.1 0-20	.1mg/L	03/18/99	TJAICP
Chromium	MS	ND	0.24	97	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.25	99		2 0-20	.25mg/L	03/18/99	TJAICP
Cobalt	MS	ND	0.097	97	80-120		.1mg/L	03/18/99	TJAICP
	MSD		0.1	100		3 0-20	.1mg/L	03/18/99	TJAICP
Copper	MS	ND	0.25	99	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.26	102		3 0-20	.25mg/L	03/18/99	TJAICP
Lead	MS	ND	0.25	99	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.25	101		2 0-20	.25mg/L	03/18/99	TJAICP
Nickel	MS	ND	0.24	97	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.25	99		2 0-20	.25mg/L	03/18/99	TJAICP

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Resource Recovery

QC Batch MDIG 2641 (49546)
Original 9002036003
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/17/99 14:34
Analysis Method SW-846 6010

QC results for Matrix Spike [104558] - Matrix Spike Duplicate [104559] (continued)

Parameter		Original		Pct	MS/MSD	RPD	Spiked	Analyzed	Instru
		Result	QC Result	Recov	Limits	RPD	Limits		
Selenium	MS	ND	0.24	98	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.25	99		1	0-20 .25mg/L	03/18/99	TJAICP
Silver	MS	ND	0.025	99	80-120		.025mg/L	03/18/99	TJAICP
	MSD		0.025	101		2	0-20 .025mg/L	03/18/99	TJAICP
Vanadium	MS	ND	0.098	98	80-120		.1mg/L	03/18/99	TJAICP
	MSD		0.1	101		3	0-20 .1mg/L	03/18/99	TJAICP
Zinc	MS	ND	0.28	112	80-120		.25mg/L	03/18/99	TJAICP
	MSD		0.29	115		2.6	0-20 .25mg/L	03/18/99	TJAICP



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(727) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: ASH CELL RUNOFF
DATE: 06/16/99

SAMPLE NUMBER- 76724 SAMPLE ID- LMF ASH CELL RAINWATER RUNOFF SAMPLE MATRIX- OT
DATE SAMPLED- 03/03/99 TIME SAMPLED- 1426
DATE RECEIVED- 03/03/99 SAMPLER- MICHAEL JONES RECEIVED BY- CEM
TIME RECEIVED- 1534 DELIVERED BY- S VAN DUNK TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS	DQ
TOT.ORGANIC CARBON	SM 5310			03/12/99	1150	IF	10.9	mg/L	
BIOCHEM.OXY.DEMAND	SM5210B			03/05/99	1345	DN	4	mg/L	
CHEMICAL OXYGEN DEMAND	SM5220B			03/12/99	1600	TER	51.6	mg/L	
CHLOROPHYLL A	SM 10200H	03/08/99	TER	03/03/99	1415	JK	1.17	mg/M3	
TOTAL HARDNESS AS CaCO3	SM 2340 C			03/15/99	0930	TER	51	mg/L CaCO3	
UN-IONIZED AMMONIA N	DEP SOP			03/22/99	1100	CEM	<0.02	mg/L	
NITRATE	SM4500NO3F			03/04/99	1600	IF	0.32	mg/L	
TOTAL NITROGEN	CALC.			03/22/99	1100	CEM	18.5	MG/L	
TOTAL PHOSPHOROUS	SM4500P B			03/11/99	1100	TER	1.52	mgP/L	
TOTAL DISS.SOLIDS	SM2540C			03/04/99	0845	JK	71	mg/L	
TOTAL SUSP. SOLIDS	SM2540D			03/04/99	1430	DN	10	mg/L	
COPPER,TOTAL	SM3113B	03/05/99	TER	03/15/99	1140	TER	<0.02	mg/L	
IRON,TOTAL	SM 3111B	03/05/99	TER	03/12/99	1145	TER	0.06	mg/L	
MERCURY,TOTAL	SM3112B			03/23/99	1640	TER	0.0005	mg/L	
ZINC,TOTAL	SM3111B	03/05/99	TER	03/12/99	1200	TER	0.02	mg/L	

LABORATORY DIRECTOR

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN 18 1999

SOUTHWEST DISTRICT
TAMPA

April 09, 1999

Candia Mulhern
Pasco County
8864 Government Dr.
New Port Richey, FL 34654

Client:	Pasco County
Project [Reference]:	Res Rec Rain Water Runoff [9002445]
Date Received:	March 16, 1999

Analytical results presented in this report have been reviewed for compliance with the laboratory quality assurance plan and applicable quality control criteria. The quality control parameters evaluated have met all method and compliance criteria unless otherwise noted on a Quality Control Summary Page immediately following this cover sheet.

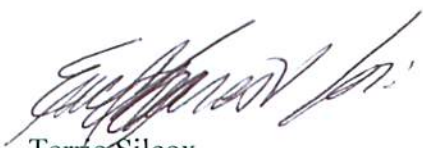
FDOH (HRS) Drinking Water Certification Number: 96230, 83486, 82500, 85512, 84526

FDOH (HRS) Environmental Certification Number: E96080, E83509, E82417, E85370, E84418

FDEP CompQAP Approval Number: 870174

NOTE: This report is not to be copied, except in full, without the express written consent of the Harbor Branch Environmental Laboratory.

If you have any questions regarding this report, or if we can be of further assistance, please feel free to call (561) 465-2400 ext. 285 and ask to speak with a project manager.


Terrie Silcox
Project Manager

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

Pasco County

FDEP QAP 870174



PARAMETER MONITORING REPORT
(Rule 62-522.600(11))

GMS #
Test Site #
Test Site Name

Sample Date/Lab ID 03/15/99 09:00 (9002445001)

Site Type ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☐ Other: Leachate

Sample Method Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limit	Filtered/Unfiltered	Preservative Added
077651	1,2-Dibromoethane	SW-846 8011	03/29/99	ND	ug/L	0.0025	U	None
038437	1,2-Dibromo-3-chloropropane	SW-846 8011	03/29/99	ND	ug/L	0.0023	U	None
001097	Antimony	SW-846 6010	03/18/99	ND	ug/L	4.0	U	None
001002	Arsenic	SW-846 6010	03/18/99	4.1	ug/L	3.2	U	None
001007	Barium	SW-846 6010	03/18/99	1.8	ug/L	1.8	U	None
001012	Beryllium	SW-846 6010	03/18/99	ND	ug/L	1.0	U	None
001027	Cadmium	SW-846 6010	03/18/99	ND	ug/L	0.70	U	None
001034	Chromium	SW-846 6010	03/18/99	ND	ug/L	1.8	U	None
001037	Cobalt	SW-846 6010	03/18/99	ND	ug/L	1.0	U	None
001042	Copper	SW-846 6010	03/18/99	2.0	ug/L	1.4	U	None
001051	Lead	SW-846 6010	03/18/99	3.9	ug/L	3.0	U	None
001067	Nickel	SW-846 6010	03/18/99	ND	ug/L	2.0	U	None
001147	Selenium	SW-846 6010	03/18/99	ND	ug/L	2.1	U	None
001077	Silver	SW-846 6010	03/18/99	ND	ug/L	1.0	U	None
001087	Vanadium	SW-846 6010	03/18/99	1.5	ug/L	0.40	U	None
001092	Zinc	SW-846 6010	03/18/99	ND	ug/L	100	U	None
001059	Thallium	SW-846 7841	03/24/99	ND	ug/L	1.2	U	None
081552	Acetone	SW-846 8260	03/18/99	3.1	ug/L	0.91	U	None
034215	Acrylonitrile	SW-846 8260	03/18/99	ND	ug/L	2.4	U	None
034030	Benzene	SW-846 8260	03/18/99	ND	ug/L	0.34	U	None
077297	Bromochloromethane	SW-846 8260	03/18/99	ND	ug/L	0.91	U	None
032101	Bromodichloromethane	SW-846 8260	03/18/99	ND	ug/L	0.80	U	None
032104	Bromoform	SW-846 8260	03/18/99	ND	ug/L	1.5	U	None
034413	Bromomethane	SW-846 8260	03/18/99	ND	ug/L	0.44	U	None
077041	Carbon disulfide	SW-846 8260	03/18/99	ND	ug/L	0.63	U	None
032102	Carbon tetrachloride	SW-846 8260	03/18/99	ND	ug/L	0.35	U	None
034301	Chlorobenzene	SW-846 8260	03/18/99	ND	ug/L	0.54	U	None
034311	Chloroethane	SW-846 8260	03/18/99	ND	ug/L	0.63	U	None
032106	Chloroform	SW-846 8260	03/18/99	ND	ug/L	0.66	U	None
034418	Chloromethane	SW-846 8260	03/18/99	ND	ug/L	0.65	U	None

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 17-1.216(2)

Effective January 1, 1983

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418



PARAMETER MONITORING REPORT
 (Rule 62-522.600(11))

GMS #
 Test Site #
 Test Site Name

Sample Date/Lab ID 03/15/99 09:00 (9002445001)
 Site Type ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☐ Other: Leachate

Sample Method Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limit	Filtered/Unfiltered	Preservative Added
081521	Dibromochloromethane	SW-846 8260	03/18/99	ND	ug/L	0.86	U	None
081522	Dibromomethane	SW-846 8260	03/18/99	ND	ug/L	1.0	U	None
034536	1,2-Dichlorobenzene	SW-846 8260	03/18/99	ND	ug/L	1.1	U	None
034571	1,4-Dichlorobenzene	SW-846 8260	03/18/99	ND	ug/L	1.0	U	None
034496	1,1-Dichloroethane	SW-846 8260	03/18/99	ND	ug/L	1.1	U	None
034531	1,2-Dichloroethane	SW-846 8260	03/18/99	ND	ug/L	1.7	U	None
034501	1,1-Dichloroethene	SW-846 8260	03/18/99	ND	ug/L	0.51	U	None
077093	cis-1,2-Dichloroethene	SW-846 8260	03/18/99	ND	ug/L	1.1	U	None
034546	trans-1,2-Dichloroethene	SW-846 8260	03/18/99	ND	ug/L	0.47	U	None
034423	Methylene chloride	SW-846 8260	03/18/99	ND	ug/L	1.2	U	None
034541	1,2-Dichloropropane	SW-846 8260	03/18/99	ND	ug/L	0.59	U	None
034704	cis-1,3-Dichloropropene	SW-846 8260	03/18/99	ND	ug/L	0.32	U	None
034699	trans-1,3-Dichloropropene	SW-846 8260	03/18/99	ND	ug/L	0.46	U	None
034371	Ethylbenzene	SW-846 8260	03/18/99	ND	ug/L	0.48	U	None
077103	2-Hexanone	SW-846 8260	03/18/99	ND	ug/L	0.43	U	None
081595	2-Butanone	SW-846 8260	03/18/99	ND	ug/L	0.75	U	None
077424	Methyl iodide	SW-846 8260	03/18/99	ND	ug/L	1.6	U	None
081596	4-Methyl-2-pentanone	SW-846 8260	03/18/99	ND	ug/L	0.79	U	None
077128	Styrene	SW-846 8260	03/18/99	ND	ug/L	0.67	U	None
034475	Tetrachloroethene	SW-846 8260	03/18/99	ND	ug/L	0.90	U	None
077562	1,1,1,2-Tetrachloroethane	SW-846 8260	03/18/99	ND	ug/L	0.59	U	None
034516	1,1,2,2-Tetrachloroethane	SW-846 8260	03/18/99	ND	ug/L	1.0	U	None
034010	Toluene	SW-846 8260	03/18/99	ND	ug/L	0.40	U	None
034506	1,1,1-Trichloroethane	SW-846 8260	03/18/99	ND	ug/L	1.1	U	None
034511	1,1,2-Trichloroethane	SW-846 8260	03/18/99	ND	ug/L	0.58	U	None
039180	Trichloroethene	SW-846 8260	03/18/99	ND	ug/L	0.66	U	None
034488	Trichlorofluoromethane	SW-846 8260	03/18/99	ND	ug/L	0.86	U	None
077443	1,2,3-Trichloropropane	SW-846 8260	03/18/99	ND	ug/L	1.6	U	None
039175	Vinyl chloride	SW-846 8260	03/18/99	ND	ug/L	0.27	U	None
	o-Xylene	SW-846 8260	03/18/99	ND	ug/L	1.3	U	None

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 17-1.216(2)

Effective January 1,1983

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

Pasco County

FDEP QAP 870174

**PARAMETER MONITORING REPORT**
(Rule 62-522.600(11))

GMS #
Test Site #
Test Site Name

Sample Date/Lab ID 03/15/99 09:00 (9002445001)

Site Type ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☐ Other: Leachate

Sample Method Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limit	Filtered/Unfiltered	Preservative Added
081551	m-Xylene and p-Xylene	SW-846 8260	03/18/99	ND	ug/L	0.83	U	None
073547	Total Xylenes	SW-846 8260	03/18/99	ND	ug/L	1.5	U	None
077057	trans-1,4-Dichloro-2-butene	SW-846 8260	03/18/99	ND	ug/L	0.79	U	None
	Vinyl acetate	SW-846 8260	03/18/99	ND	ug/L	1.4	U	None

* Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 17-1.216(2)

Effective January 1, 1983

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch MDIG 2641 (49546)
Original
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/17/99 14:34
Analysis Method SW-846 6010

QC results affect the following production samples:

9002445001

QC results for Method Blank [104556]

Run Instrument: ThermoJarrellAsh 61E Trace ICP

Parameter	Analyzed	Result	RDL	Units
Antimony	03/18/99	ND	0.0040	mg/L
Arsenic	03/18/99	ND	0.0032	mg/L
Barium	03/18/99	ND	0.0018	mg/L
Beryllium	03/18/99	ND	0.0010	mg/L
Cadmium	03/18/99	ND	0.00070	mg/L
Chromium	03/18/99	ND	0.0018	mg/L
Cobalt	03/18/99	ND	0.0010	mg/L
Copper	03/18/99	ND	0.0014	mg/L
Lead	03/18/99	ND	0.0030	mg/L
Nickel	03/18/99	ND	0.0020	mg/L
Selenium	03/18/99	ND	0.0021	mg/L
Silver	03/18/99	ND	0.0010	mg/L
Vanadium	03/18/99	ND	0.00040	mg/L
Zinc	03/18/99	ND	0.10	mg/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch MDIG 2641 (49546)
Original
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/17/99 14:34
Analysis Method SW-846 6010

QC results affect the following production samples:

9002445001

QC results for Lab Control Sample [104557]

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
Antimony	LCS	0.21	86	80-120		.25mg/L	03/18/99	TJA1CP
Arsenic	LCS	0.23	93	80-120		.25mg/L	03/18/99	TJA1CP
Barium	LCS	0.22	87	80-120		.25mg/L	03/18/99	TJA1CP
Beryllium	LCS	0.043	87	80-120		.05mg/L	03/18/99	TJA1CP
Cadmium	LCS	0.085	85	80-120		.1mg/L	03/18/99	TJA1CP
Chromium	LCS	0.22	86	80-120		.25mg/L	03/18/99	TJA1CP
Cobalt	LCS	0.087	87	80-120		.1mg/L	03/18/99	TJA1CP
Copper	LCS	0.22	86	80-120		.25mg/L	03/18/99	TJA1CP
Lead	LCS	0.22	89	80-120		.25mg/L	03/18/99	TJA1CP
Nickel	LCS	0.23	90	80-120		.25mg/L	03/18/99	TJA1CP
Selenium	LCS	0.23	92	80-120		.25mg/L	03/18/99	TJA1CP
Silver	LCS	0.022	87	80-120		.025mg/L	03/18/99	TJA1CP
Vanadium	LCS	0.086	86	80-120		.1mg/L	03/18/99	TJA1CP
Zinc	LCS	0.25	98	80-120		.25mg/L	03/18/99	TJA1CP

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch MDIG 2641 (49546)
Original 9002036003
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/17/99 14:34
Analysis Method SW-846 6010

QC results affect the following production samples:

9002445001

QC results for Matrix Spike [104558] - Matrix Spike Duplicate [104559]

Parameter		Original		Pct		MS/MSD	RPD		Spiked	Analyzed	Instru
		Result	QC Result	Recov	Limits		RPD	Limits			
Antimony	MS	ND	0.24	95	80-120				.25mg/L	03/18/99	TJAICP
	MSD		0.24	97			2.1	0-20	.25mg/L	03/18/99	TJAICP
Arsenic	MS	ND	0.25	101	80-120				.25mg/L	03/18/99	TJAICP
	MSD		0.26	104			2.9	0-20	.25mg/L	03/18/99	TJAICP
Barium	MS	ND	0.25	102	80-120				.25mg/L	03/18/99	TJAICP
	MSD		0.26	104			1.9	0-20	.25mg/L	03/18/99	TJAICP
Beryllium	MS	ND	0.047	95	80-120				.05mg/L	03/18/99	TJAICP
	MSD		0.049	98			3.1	0-20	.05mg/L	03/18/99	TJAICP
Cadmium	MS	ND	0.094	94	80-120				.1mg/L	03/18/99	TJAICP
	MSD		0.096	96			2.1	0-20	.1mg/L	03/18/99	TJAICP
Chromium	MS	ND	0.24	97	80-120				.25mg/L	03/18/99	TJAICP
	MSD		0.25	99			2	0-20	.25mg/L	03/18/99	TJAICP
Cobalt	MS	ND	0.097	97	80-120				.1mg/L	03/18/99	TJAICP
	MSD		0.1	100			3	0-20	.1mg/L	03/18/99	TJAICP
Copper	MS	ND	0.25	99	80-120				.25mg/L	03/18/99	TJAICP
	MSD		0.26	102			3	0-20	.25mg/L	03/18/99	TJAICP
Lead	MS	ND	0.25	99	80-120				.25mg/L	03/18/99	TJAICP
	MSD		0.25	101			2	0-20	.25mg/L	03/18/99	TJAICP
Nickel	MS	ND	0.24	97	80-120				.25mg/L	03/18/99	TJAICP
	MSD		0.25	99			2	0-20	.25mg/L	03/18/99	TJAICP

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch MDIG 2641 (49546)
Original 9002036003
Matrix Environmental Water

Prep Method SW-846 Digestion 3005
Prep Date 03/17/99 14:34
Analysis Method SW-846 6010

QC results for Matrix Spike [104558] - Matrix Spike Duplicate [104559] (continued)

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Selenium	MS	ND	0.24	98	80-120			.25mg/L	03/18/99	TJAICP
	MSD		0.25	99		1	0-20	.25mg/L	03/18/99	TJAICP
Silver	MS	ND	0.025	99	80-120			.025mg/L	03/18/99	TJAICP
	MSD		0.025	101		2	0-20	.025mg/L	03/18/99	TJAICP
Vanadium	MS	ND	0.098	98	80-120			.1mg/L	03/18/99	TJAICP
	MSD		0.1	101		3	0-20	.1mg/L	03/18/99	TJAICP
Zinc	MS	ND	0.28	112	80-120			.25mg/L	03/18/99	TJAICP
	MSD		0.29	115		2.6	0-20	.25mg/L	03/18/99	TJAICP

HARBOR BRANCH ENVIRONMENTAL LABORATORY5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174

**Client** Pasco County
Workorder Res Rec Rain H2O Runoff**QC Batch** VOC 1468 (49662)
Original 9002197001
Matrix Environmental Water**Analysis Method** SW-846 8260

QC results affect the following production samples:

9002445001

QC results for Matrix Spike [104779] - Matrix Spike Duplicate [104780]

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Acetone	MS	9.6	16	32	24-203			20ug/L	03/23/99	FN2655
	MSD		16	30		6.5	0-44	20ug/L	03/23/99	FN2655
Acrylonitrile	MS	ND	88	110	60-140			80ug/L	03/23/99	FN2655
	MSD		100	129		16	0-40	80ug/L	03/23/99	FN2655
Benzene	MS	ND	19	95	70-130			20ug/L	03/23/99	FN2655
	MSD		20	100		5.1	0-30	20ug/L	03/23/99	FN2655
Bromochloromethane	MS	ND	20	99	67.5-135.3			20ug/L	03/23/99	FN2655
	MSD		21	104		4.9	0-30	20ug/L	03/23/99	FN2655
Bromodichloromethane	MS	ND	20	102	64-135			20ug/L	03/23/99	FN2655
	MSD		21	103		.98	0-32	20ug/L	03/23/99	FN2655
Bromoform	MS	ND	23	113	66.4-135.9			20ug/L	03/23/99	FN2655
	MSD		23	116		2.6	0-30	20ug/L	03/23/99	FN2655
Bromomethane	MS	ND	19	94	50-150			20ug/L	03/23/99	FN2655
	MSD		21	104		10	0-38	20ug/L	03/23/99	FN2655
Carbon disulfide	MS	ND	13	64	46-162			20ug/L	03/23/99	FN2655
	MSD		14	68		6.1	0-37	20ug/L	03/23/99	FN2655
Carbon tetrachloride	MS	ND	19	97	69.6-130.7			20ug/L	03/23/99	FN2655
	MSD		20	101		4	0-35	20ug/L	03/23/99	FN2655
Chlorobenzene	MS	ND	20	102	70-130			20ug/L	03/23/99	FN2655
	MSD		21	103		.98	0-30	20ug/L	03/23/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
 Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
 Original 9002197001
 Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Matrix Spike [104779] - Matrix Spike Duplicate [104780] (continued)

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
Chloroethane	MS	ND	16	82	44.3-152.8		20ug/L	03/23/99	FN2655
	MSD		19	97		17	0-32 20ug/L	03/23/99	FN2655
Chloroform	MS	ND	19	95	66.9-132.4		20ug/L	03/23/99	FN2655
	MSD		20	102		7.1	0-30 20ug/L	03/23/99	FN2655
Chloromethane	MS	ND	14	68	37.6-149.1		20ug/L	03/23/99	FN2655
	MSD		15	74		8.5	0-50 20ug/L	03/23/99	FN2655
Dibromochloromethane	MS	ND	20	102	70-130		20ug/L	03/23/99	FN2655
	MSD		21	104		1.9	0-30 20ug/L	03/23/99	FN2655
Dibromomethane	MS	ND	20	100	70-130		20ug/L	03/23/99	FN2655
	MSD		22	110		9.5	0-37 20ug/L	03/23/99	FN2655
1,2-Dichlorobenzene	MS	ND	20	101	70-130		20ug/L	03/23/99	FN2655
	MSD		21	107		5.8	0-35 20ug/L	03/23/99	FN2655
1,4-Dichlorobenzene	MS	ND	20	98	70-130		20ug/L	03/23/99	FN2655
	MSD		21	104		5.9	0-30 20ug/L	03/23/99	FN2655
1,1-Dichloroethane	MS	ND	19	94	68.9-133.6		20ug/L	03/23/99	FN2655
	MSD		21	104		10	0-30 20ug/L	03/23/99	FN2655
1,2-Dichloroethane	MS	ND	18	90	70-130		20ug/L	03/23/99	FN2655
	MSD		19	96		6.5	0-38 20ug/L	03/23/99	FN2655
1,1-Dichloroethene	MS	ND	18	89	50.8-137.7		20ug/L	03/23/99	FN2655
	MSD		20	100		12	0-37 20ug/L	03/23/99	FN2655
cis-1,2-Dichloroethene	MS	ND	20	98	70-130		20ug/L	03/23/99	FN2655
	MSD		20	102		4	0-34 20ug/L	03/23/99	FN2655
trans-1,2-Dichloroethene	MS	ND	18	92	64.6-130.9		20ug/L	03/23/99	FN2655
	MSD		20	101		9.3	0-35 20ug/L	03/23/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
Original 9002197001
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Matrix Spike [104779] - Matrix Spike Duplicate [104780] (continued)

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
Methylene chloride	MS	ND	18	90	53-156.8		20ug/L	03/23/99	FN2655
	MSD		20	101		12	0-31 20ug/L	03/23/99	FN2655
1,2-Dichloropropane	MS	ND	20	99	70-130		20ug/L	03/23/99	FN2655
	MSD		21	105		5.9	0-31 20ug/L	03/23/99	FN2655
cis-1,3-Dichloropropene	MS	ND	20	98	47-148		20ug/L	03/23/99	FN2655
	MSD		20	101		3	0-30 20ug/L	03/23/99	FN2655
trans-1,3-Dichloropropene	MS	ND	21	106	47-149		20ug/L	03/23/99	FN2655
	MSD		22	108		1.9	0-30 20ug/L	03/23/99	FN2655
Ethylbenzene	MS	ND	21	104	70-130		20ug/L	03/23/99	FN2655
	MSD		21	107		2.8	0-30 20ug/L	03/23/99	FN2655
2-Hexanone	MS	ND	23	117	53-146		20ug/L	03/23/99	FN2655
	MSD		25	124		5.8	0-30 20ug/L	03/23/99	FN2655
2-Butanone	MS	2.8	17	71	56-156		20ug/L	03/23/99	FN2655
	MSD		20	85		18	0-30 20ug/L	03/23/99	FN2655
Methyl iodide	MS	ND	21	105	50-150		20ug/L	03/23/99	FN2655
	MSD		23	115		9.1	0-40 20ug/L	03/23/99	FN2655
4-Methyl-2-pentanone	MS	ND	24	120	63-141		20ug/L	03/23/99	FN2655
	MSD		26	131		8.8	0-30 20ug/L	03/23/99	FN2655
Styrene	MS	ND	20	101	70-130		20ug/L	03/23/99	FN2655
	MSD		21	105		3.9	0-30 20ug/L	03/23/99	FN2655
Tetrachloroethene	MS	ND	21	104	64.2-125.2		20ug/L	03/23/99	FN2655
	MSD		22	108		3.8	0-30 20ug/L	03/23/99	FN2655
1,1,1,2-Tetrachloroethane	MS	ND	21	103	70-130		20ug/L	03/23/99	FN2655
	MSD		21	105		1.9	0-30 20ug/L	03/23/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
 Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
 Original 9002197001
 Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Matrix Spike [104779] - Matrix Spike Duplicate [104780] (continued)

Parameter		Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
1,1,2,2-Tetrachloroethane	MS	ND	23	116	70-130		20ug/L	03/23/99	FN2655
	MSD		24	120		3.4	0-30 20ug/L	03/23/99	FN2655
Toluene	MS	ND	20	99	70-130		20ug/L	03/23/99	FN2655
	MSD		20	101		2	0-30 20ug/L	03/23/99	FN2655
1,1,1-Trichloroethane	MS	ND	19	96	69.5-134.1		20ug/L	03/23/99	FN2655
	MSD		20	101		5.1	0-30 20ug/L	03/23/99	FN2655
1,1,2-Trichloroethane	MS	ND	21	104	70-130		20ug/L	03/23/99	FN2655
	MSD		22	108		3.8	0-37 20ug/L	03/23/99	FN2655
Trichloroethene	MS	ND	20	98	70-130		20ug/L	03/23/99	FN2655
	MSD		21	103		5	0-33 20ug/L	03/23/99	FN2655
Trichlorofluoromethane	MS	ND	18	89	59.2-131.5		20ug/L	03/23/99	FN2655
	MSD		20	100		12	0-30 20ug/L	03/23/99	FN2655
1,2,3-Trichloropropane	MS	ND	23	115	70-130		20ug/L	03/23/99	FN2655
	MSD		25	123		6.7	0-30 20ug/L	03/23/99	FN2655
Vinyl chloride	MS	ND	18	90	43.4-148.5		20ug/L	03/23/99	FN2655
	MSD		21	103		13	0-31 20ug/L	03/23/99	FN2655
o-Xylene	MS	ND	20	102	70-130		20ug/L	03/23/99	FN2655
	MSD		21	106		3.8	0-30 20ug/L	03/23/99	FN2655
m-Xylene and p-Xylene	MS	ND	41	103	70-130		40ug/L	03/23/99	FN2655
	MSD		43	107		3.8	0-30 40ug/L	03/23/99	FN2655
trans-1,4-Dichloro-2-butene	MS	ND	22	108	40-130		20ug/L	03/23/99	FN2655
	MSD		24	119		9.7	0-40 20ug/L	03/23/99	FN2655
Vinyl acetate	MS	ND	21	104	50-150		20ug/L	03/23/99	FN2655
	MSD		24	122		16	0-40 20ug/L	03/23/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results affect the following production samples:

9002445001

QC results for Method Blank [105561]

Run Instrument: Finnigan Incos XL FN2655 GCMS

Parameter	Analyzed	Result	RDL	Units
Acetone	03/18/99	ND	0.91	ug/L
Acrylonitrile	03/18/99	ND	2.4	ug/L
Benzene	03/18/99	ND	0.34	ug/L
Bromochloromethane	03/18/99	ND	0.91	ug/L
Bromodichloromethane	03/18/99	ND	0.80	ug/L
Bromoform	03/18/99	ND	1.5	ug/L
Bromomethane	03/18/99	ND	0.44	ug/L
Carbon disulfide	03/18/99	ND	0.63	ug/L
Carbon tetrachloride	03/18/99	ND	0.35	ug/L
Chlorobenzene	03/18/99	ND	0.54	ug/L
Chloroethane	03/18/99	ND	0.63	ug/L
Chloroform	03/18/99	ND	0.66	ug/L
Chloromethane	03/18/99	ND	0.65	ug/L
Dibromochloromethane	03/18/99	ND	0.86	ug/L
Dibromomethane	03/18/99	ND	1.0	ug/L
1,2-Dichlorobenzene	03/18/99	ND	1.1	ug/L
1,4-Dichlorobenzene	03/18/99	ND	1.0	ug/L
1,1-Dichloroethane	03/18/99	ND	1.1	ug/L
1,2-Dichloroethane	03/18/99	ND	1.7	ug/L
1,1-Dichloroethene	03/18/99	ND	0.51	ug/L
cis-1,2-Dichloroethene	03/18/99	ND	1.1	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)

Original

Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Method Blank [105561] (continued)

Run Instrument: Finnigan Incos XL FN2655 GCMS

Parameter	Analyzed	Result	RD L	Units
trans-1,2-Dichloroethene	03/18/99	ND	0.47	ug/L
Methylene chloride	03/18/99	ND	1.2	ug/L
1,2-Dichloropropane	03/18/99	ND	0.59	ug/L
cis-1,3-Dichloropropene	03/18/99	ND	0.32	ug/L
trans-1,3-Dichloropropene	03/18/99	ND	0.46	ug/L
Ethylbenzene	03/18/99	ND	0.48	ug/L
2-Hexanone	03/18/99	ND	0.43	ug/L
2-Butanone	03/18/99	ND	0.75	ug/L
Methyl iodide	03/18/99	ND	1.6	ug/L
4-Methyl-2-pentanone	03/18/99	ND	0.79	ug/L
Styrene	03/18/99	ND	0.67	ug/L
Tetrachloroethene	03/18/99	ND	0.90	ug/L
1,1,1,2-Tetrachloroethane	03/18/99	ND	0.59	ug/L
1,1,2,2-Tetrachloroethane	03/18/99	ND	1.0	ug/L
Toluene	03/18/99	ND	0.40	ug/L
1,1,1-Trichloroethane	03/18/99	ND	1.1	ug/L
1,1,2-Trichloroethane	03/18/99	ND	0.58	ug/L
Trichloroethene	03/18/99	ND	0.66	ug/L
Trichlorofluoromethane	03/18/99	ND	0.86	ug/L
1,2,3-Trichloropropane	03/18/99	ND	1.6	ug/L
Vinyl chloride	03/18/99	ND	0.27	ug/L
o-Xylene	03/18/99	ND	1.3	ug/L
m-Xylene and p-Xylene	03/18/99	ND	0.83	ug/L
Total Xylenes	03/18/99	ND	1.5	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Method Blank [105561] (continued)

Run Instrument: Finnigan Incos XL FN2655 GCMS

Parameter	Analyzed	Result	RDL	Units
trans-1,4-Dichloro-2-butene	03/18/99	ND	0.79	ug/L
Vinyl acetate	03/18/99	ND	1.4	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
 Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
 Original
 Matrix Environmental Water

Analysis Method SW-846 8260

QC results affect the following production samples:

9002445001

QC results for Lab Control Sample [105562]

Parameter	QC Result	Pet Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Acetone	LCS	22	111	24-203		20ug/L	03/18/99	FN2655
Acrylonitrile	LCS	90	113	60-140		80ug/L	03/18/99	FN2655
Benzene	LCS	21	103	59-127		20ug/L	03/18/99	FN2655
Bromochloromethane	LCS	21	105	67-131		20ug/L	03/18/99	FN2655
Bromodichloromethane	LCS	20	100	54-142		20ug/L	03/18/99	FN2655
Bromoform	LCS	22	110	70-130		20ug/L	03/18/99	FN2655
Bromomethane	LCS	15	73	50-150		20ug/L	03/18/99	FN2655
Carbon disulfide	LCS	20	99	46-162		20ug/L	03/18/99	FN2655
Carbon tetrachloride	LCS	20	100	56-140		20ug/L	03/18/99	FN2655
Chlorobenzene	LCS	21	104	70-130		20ug/L	03/18/99	FN2655
Chloroethane	LCS	19	93	34-195		20ug/L	03/18/99	FN2655
Chloroform	LCS	22	109	70-130		20ug/L	03/18/99	FN2655
Chloromethane	LCS	18	89	1-200		20ug/L	03/18/99	FN2655
Dibromochloromethane	LCS	20	98	70-130		20ug/L	03/18/99	FN2655
Dibromomethane	LCS	21	104	61-140		20ug/L	03/18/99	FN2655
1,2-Dichlorobenzene	LCS	20	98	71-131		20ug/L	03/18/99	FN2655
1,4-Dichlorobenzene	LCS	21	105	65-142		20ug/L	03/18/99	FN2655
1,1-Dichloroethane	LCS	22	108	70-135		20ug/L	03/18/99	FN2655
1,2-Dichloroethane	LCS	21	105	40-156		20ug/L	03/18/99	FN2655
1,1-Dichloroethene	LCS	21	106	31-183		20ug/L	03/18/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Lab Control Sample [105562] (continued)

Parameter	QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
cis-1,2-Dichloroethene	LCS	22	111	61-150		20ug/L	03/18/99	FN2655
trans-1,2-Dichloroethene	LCS	21	105	53-137		20ug/L	03/18/99	FN2655
Methylene chloride	LCS	20	100	60-168		20ug/L	03/18/99	FN2655
1,2-Dichloropropane	LCS	20	102	63-137		20ug/L	03/18/99	FN2655
cis-1,3-Dichloropropene	LCS	22	109	47-148		20ug/L	03/18/99	FN2655
trans-1,3-Dichloropropene	LCS	20	102	47-149		20ug/L	03/18/99	FN2655
Ethylbenzene	LCS	23	113	70-130		20ug/L	03/18/99	FN2655
2-Hexanone	LCS	21	103	53-146		20ug/L	03/18/99	FN2655
2-Butanone	LCS	22	110	56-156		20ug/L	03/18/99	FN2655
Methyl iodide	LCS	21	104	50-150		20ug/L	03/18/99	FN2655
4-Methyl-2-pentanone	LCS	20	101	63-141		20ug/L	03/18/99	FN2655
Styrene	LCS	22	108	70-130		20ug/L	03/18/99	FN2655
Tetrachloroethene	LCS	20	99	64-138		20ug/L	03/18/99	FN2655
1,1,1,2-Tetrachloroethane	LCS	21	103	70-130		20ug/L	03/18/99	FN2655
1,1,2,2-Tetrachloroethane	LCS	23	116	70-130		20ug/L	03/18/99	FN2655
Toluene	LCS	21	103	70-130		20ug/L	03/18/99	FN2655
1,1,1-Trichloroethane	LCS	20	102	70-130		20ug/L	03/18/99	FN2655
1,1,2-Trichloroethane	LCS	20	100	65-141		20ug/L	03/18/99	FN2655
Trichloroethene	LCS	22	109	72-132		20ug/L	03/18/99	FN2655
Trichlorofluoromethane	LCS	19	95	66-139		20ug/L	03/18/99	FN2655
1,2,3-Trichloropropane	LCS	24	118	70-130		20ug/L	03/18/99	FN2655
Vinyl chloride	LCS	18	90	48-179		20ug/L	03/18/99	FN2655
o-Xylene	LCS	21	107	70-137		20ug/L	03/18/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch VOC 1468 (49662)
Original
Matrix Environmental Water

Analysis Method SW-846 8260

QC results for Lab Control Sample [105562] (continued)

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
m-Xylene and p-Xylene	LCS	42	106	44-146			40ug/L	03/18/99	FN2655
trans-1,4-Dichloro-2-butene	LCS	25	124	50-150			20ug/L	03/18/99	FN2655
Vinyl acetate	LCS	21	107	50-150			20ug/L	03/18/99	FN2655

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch MDIG 2647 (49772)
Original
Matrix Environmental Water

Prep Date 03/22/99 13:36
Analysis Method Thallium-Furnace-Water

QC results affect the following production samples:

9002445001

QC results for Method Blank [105005]

Run Instrument: Perkin Elmer 4100 ZL

Parameter	Analyzed	Result	RDL	Units
Thallium	03/24/99	ND	0.0012	mg/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch MDIG 2647 (49772)
Original
Matrix Environmental Water

Prep Date 03/22/99 13:36
Analysis Method Thallium-Furnace-Water

QC results affect the following production samples:

9002445001

QC results for Lab Control Sample [105006]

Parameter	QC Result	Pet Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Thallium	LCS	0.026	104	69-136		.025mg/L	03/24/99	PEGFAA

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch MDIG 2647 (49772)
Original 9002151001
Matrix Environmental Water

Prep Date 03/22/99 13:36
Analysis Method Thallium-Furnace-Water

QC results affect the following production samples:

9002445001

QC results for Matrix Spike [105007] - Matrix Spike Duplicate [105008]

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD Limits	Spiked Amount	Analyzed	Instru ID
Thallium	MS	ND	0.026	106	45-140		.025mg/L	03/24/99	PEGFAA
	MSD		0.026	104		1.9	0-20 .025mg/L	03/24/99	PEGFAA

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch EXTR 3252 (50042)
Original
Matrix Environmental Water

Prep Date 04/01/99 08:57
Analysis Method EDB's

QC results affect the following production samples:

9002445001

QC results for Method Blank [105515]

Run Instrument: P-E AutoGC Dual ECD

Parameter	Analyzed	Result	RDL	Units
1,2-Dibromoethane	03/29/99	ND	0.0025	ug/L
1,2-Dibromo-3-chloropropane	03/29/99	ND	0.0023	ug/L

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch EXTR 3252 (50042)
Original
Matrix Environmental Water

Prep Date 03/31/99 09:14
Analysis Method EDB's

QC results affect the following production samples:

9002445001

QC results for Lab Control Sample [105516] - Lab Control Sample Duplicate [105519]

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
1,2-Dibromoethane	LCS	0.092	92	60-140			.1ug/L	03/29/99	AUTOE_
	LCSD	0.098	98		6.3	0-20	.1ug/L	03/29/99	AUTOE_
1,2-Dibromo-3-chloropropane	LCS	0.1	103	60-140			.1ug/L	03/29/99	AUTOE_
	LCSD	0.11	109		5.7	0-20	.1ug/L	03/29/99	AUTOE_

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Client Pasco County
Workorder Res Rec Rain H2O Runoff

QC Batch EXTR 3252 (50042)
Original 9002605001
Matrix Environmental Water

Prep Date 04/01/99 08:57
Analysis Method EDB's

QC results affect the following production samples:

9002445001

QC results for Matrix Spike [105517] - Matrix Spike Duplicate [105518]

Parameter		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
1,2-Dibromoethane	MS	ND	0.084	87	60-140			.096ug/L	03/29/99	AUTOE_
	MSD		0.078	82		5.9	0-20	.096ug/L	03/29/99	AUTOE_
1,2-Dibromo-3-chloropropane	MS	ND	0.087	90	60-140			.096ug/L	03/29/99	AUTOE_
	MSD		0.09	95		5.4	0-20	.096ug/L	03/29/99	AUTOE_

End of Report



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(727) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: A1-A2 RUNOFF
DATE: 06/16/99

SAMPLE NUMBER- 77073 SAMPLE ID- LMF A-1 A-2 RAINWATER RUNOFF SAMPLE MATRIX- OT
DATE SAMPLED- 03/15/99 TIME SAMPLED- 0900
DATE RECEIVED- 03/15/99 SAMPLER- R BOERSTLER RECEIVED BY- MAS
TIME RECEIVED- 1115 DELIVERED BY- S VAN DUNK TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS	DQ
TOT.ORGANIC CARBON	SM 5310			04/06/99	1400	IF	2.78	mg/L	
BIOCHEM.OXY.DEMAND	SM5210B			03/17/99	1530	DN	<1	mg/L	
CHEMICAL OXYGEN DEMAND	SM5220B			03/31/99	1600	TER	17.3	mg/L	
FECAL COLIFORM MF	SM9222D			03/15/99	1416	AS	<1	MF/100 ml	
TOTAL HARDNESS AS CaCO ₃	SM 2340 C			03/24/99	1500	TER	40.0	mg/L CaCO ₃	
UN-IONIZED AMMONIA N	DEP SOP			03/22/99	1100	CEM	<0.02	mg/L	
NITRATE	SM4500NO3F			03/17/99	1530	IF	0.17	mg/L	
TOTAL NITROGEN	CALC.			03/22/99	1100	CEM	0.41	MG/L	
TOTAL PHOSPHOROUS	SM4500P B			03/18/99	1300	DN	0.03	mgP/L	
TOTAL DISS.SOLIDS	SM2540C			03/18/99	1630	DN	68	mg/L	
TOTAL SUSP. SOLIDS	SM2540D			03/16/99	1630	DN	2	mg/L	
COPPER,TOTAL	SM3113B	03/22/99	TER	03/23/99	1115	TER	<0.02	mg/L	
IRON,TOTAL	SM3113B	03/22/99	TER	03/29/99	1000	TER	0.05	mg/L	
MERCURY,TOTAL	SM3112B			03/23/99	1640	TER	0.0005	mg/L	
ZINC,TOTAL	SM3111B	03/22/99	TER	03/29/99	1020	TER	0.05	mg/L	

LABORATORY DIRECTOR