



# PASCO COUNTY, FLORIDA

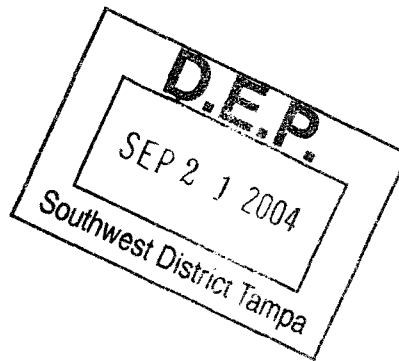
DADE CITY  
LAND O' LAKES  
NEW PORT RICHEY

(352) 511-4274  
(813) 996-7341  
(727) 847-8145

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

20 September 2004

Mr. John Morris  
Waste Management Section  
Florida Department of  
Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619



RE: West Pasco Class III Landfill  
Leachate Monitoring  
Semester II, 2004

Dear Mr. Morris:

Enclosed please find the analytical results for the parameters listed in 62-701(8)(c) Florida Administrative Code conducted on the two leachate tanks at the West Pasco Class III Landfill. These results are submitted for the second semester sampling period (Jul-Dec).

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

Sincerely,

Candia E. Mulhern  
Laboratory Manager

*Approved  
[Signature]  
provided*

Enc.: 1

cc: MS 4565-Solid Waste Section, Florida Department of Environmental Protection, 2600 Blair Stone Road,  
Tallahassee, FL 32399-2400  
Bruce E. Kennedy, Acting Assistant County Administrator (Utilities Services)  
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director  
John Power, Solid Waste Facility Manager

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 08/24/04 @ 1010

Test Site ID #: NA

Report Period: 2004 / Quarter III  
(year/quarter)

Well Name: Tank #1

Well Purged (Y/N): YES

Classification of Groundwater: N/A

Well Type: ( ) Background  
( ) Intermediate  
( ) Compliance  
( ) Other

Groundwater Elevation (NGVD): \_\_\_\_\_

or (MSL): \_\_\_\_\_

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results / Units	Detection Limits / Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	SM 4500N0 <sub>3</sub> F	08/27/04 0800	<0.03 mg/L	0.11 mg/L
000940	Chloride	"	"	SM 4500C1-B	08/25/04 1000	54.8 mg/L	0.15 mg/L
000400	pH-Field	"	"	SM 4500H+B	08/24/04 1010	6.44 Std. Units	0.01 Std. Units
070300	Total Dis. Solids	"	"	SM 2540C	08/26/04 1645	720 mg/L	1 mg/L
000344	Dissolved Oxygen	"	"	SM 4500 O G	08/24/04 1010	0.09 mg/L	0.01 mg/L
000410	Bicarbonate	"	"	SM 2320B	08/31/04 1500	290 mg/L	1 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	08/24/04 1010	1,147 µmhos/cm	0.00 µmhos/cm
000010	Temperature (Field)	"	"	SM 2550B	08/24/04 1010	28.50 °C	0 °C
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B	09/01/04 0730	309 mg/L	0.03 mg/L
900216	Color	"	"	SN 2120B	08/24/04 1010	Tan PCU	0.0 PCU
001045	Iron	"	"	SM 3113B	08/26/04 1230	0.34 mg/L	0.001 mg/L
000929	Sodium	"	"	SM 3111B	08/27/04 0950	65.7 mg/L	0.01 mg/L
071900	Mercury	"	"	SM 3112B	08/31/04 1000	<0.0005 mg/L	0.0002 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		mg/L	0.02 mg/L

\*Attach Laboratory Reports

### Analytical Report

CLIENT: Pasco County Environmental Laboratory  
 Lab Order: F04080884  
 Project: West Pasco Class III Landfill  
 Lab ID: F04080884-002

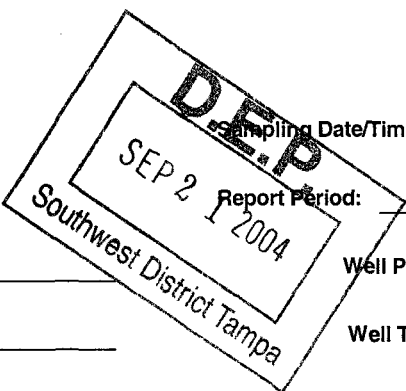
Client Sample ID: Tank-1  
 Collection Date: 8/24/2004 10:10:00 AM  
 Sample Description:  
 Matrix: Groundwater

Analyses	Result	Qual	MDL	RL	Units	DF	Date Analyzed	Batch ID
<b>ANTIMONY BY GFAA</b>								
			<b>SW7041</b>				PrepDate: 8/27/2004 10:44:00	Analyst: JCO
Antimony	0.00038	I	0.00035	0.0030	mg/L	1	08/31/04	21726
<b>CP METALS</b>								
			<b>SW6010</b>				PrepDate: 8/27/2004 11:21:00	Analyst: JCO
Arsenic	0.048		0.0020	0.010	mg/L	1	09/08/04 01:17	21728
Barium	0.039		0.000074	0.010	mg/L	1	09/08/04 01:17	21728
Beryllium	0.00022	I	0.00012	0.0010	mg/L	1	09/08/04 01:17	21728
Cadmium	0.00024	U	0.00024	0.0010	mg/L	1	09/08/04 01:17	21728
Chromium	0.021		0.00060	0.0050	mg/L	1	09/08/04 01:17	21728
Cobalt	0.0015	U	0.0015	0.010	mg/L	1	09/08/04 01:17	21728
Copper	0.00058	U	0.00058	0.0050	mg/L	1	09/08/04 01:17	21728
Lead	0.0018	U	0.0018	0.010	mg/L	1	09/08/04 01:17	21728
Nickel	0.0020	I	0.0020	0.0050	mg/L	1	09/08/04 01:17	21728
Selenium	0.0040	U	0.0040	0.015	mg/L	1	09/08/04 01:17	21728
Silver	0.0014	U	0.0014	0.0050	mg/L	1	09/09/04 16:23	21728
Vanadium	0.0019	I	0.00040	0.010	mg/L	1	09/08/04 01:17	21728
Zinc	0.0053	I	0.0023	0.020	mg/L	1	09/09/04 16:23	21728
<b>THALLIUM BY GFAA</b>								
			<b>SW7841</b>				PrepDate: 8/27/2004 10:44:00	Analyst: JCO
Thallium	0.00025	U	0.00025	0.0010	mg/L	1	08/31/04 20:50	21726
<b>3011: EDB AND DBCP</b>								
			<b>SW8011</b>				PrepDate: 8/30/2004 2:30:00 P	Analyst: EM
1,2-Dibromo-3-chloropropane	0.0041	U	0.0041	0.020	µg/L	1	08/31/04	21746
Ethylene Dibromide	0.0038	U	0.0038	0.010	µg/L	1	08/31/04	21746
Surr: 4-Bromofluorobenzene	117		0		%REC	1	08/31/04	21746

Data Qualifier Code Key: \* Value exceeds Maximum Contaminant Level I Analyte detected below quantitation limits  
 U Not Detected Above the MDL

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035 Sampling Date/Time: 08/24/04 @ 1100  
 Test Site ID #: NA Report Period: 2004 / Quarter III  
 (year/quarter)  
 Well Name: Tank #2 Well Purged (Y/N): YES  
 Classification of Groundwater: NA Well Type: ( ) Background  
 ( ) Intermediate  
 Groundwater Elevation (NGVD): \_\_\_\_\_ ( ) Compliance  
 ( ) Other  
 or (MSL): \_\_\_\_\_



Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results / Units	Detection Limits / Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	SM 4500N0 <sub>3</sub> F	08/27/04 0800	1.28 mg/L	0.11 mg/L
000940	Chloride	"	"	SM 4500C1-B	08/26/04 1000	368 mg/L	0.15 mg/L
000400	pH-Field	"	"	SM 4500H+B	08/24/04 1100	6.92 Std. Units	0.01 Std. Units
070300	Total Dis. Solids	"	"	SM 2540C	08/26/04 1645	2,120 mg/L	1 mg/L
000344	Dissolved Oxygen	"	"	SM 4500 O G	08/24/04 1100	0.80 mg/L	0.01 mg/L
000410	Bicarbonate	"	"	SM 2320B	08/31/04 1500	556 mg/L	1 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	08/24/04 1100	3,810 µmhos/cm	0.00 µmhos/cm
000010	Temperature (Field)	"	"	SM 2550B	08/24/04 1100	28.10 °C	0 °C
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B	09/01/04 0730	3.91 mg/L	0.03 mg/L
900216	Color	"	"	SN 2120B	08/24/04 1100	Tan PCU	0.0 PCU
001045	Iron	"	"	SM 3113B	08/26/04 1230	9.71 mg/L	0.001 mg/L
000929	Sodium	"	"	SM 3111B	08/27/04 0950	582 mg/L	0.01 mg/L
071900	Mercury	"	"	SM 3112B	08/31/04 1000	<0.0005 mg/L	0.0002 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		mg/L	0.02 mg/L

\*Attach Laboratory Reports

### Analytical Report

CLIENT: Pasco County Environmental Laboratory  
 Lab Order: F04080884  
 Project: West Pasco Class III Landfill  
 Lab ID: F04080884-003

Client Sample ID: Tank-2  
 Collection Date: 8/24/2004 11:00:00 AM  
 Sample Description:  
 Matrix: Groundwater

Analyses	Result	Qual	MDL	RL	Units	DF	Date Analyzed	Batch ID
<b>ANTIMONY BY GFAA</b>								
			<b>SW7041</b>				PrepDate: 8/27/2004 10:44:00	Analyst: JCO
Antimony	0.0074	*	0.00035	0.0030	mg/L	1	08/31/04	21726
<b>HEAVY METALS</b>								
			<b>SW6010</b>				PrepDate: 8/27/2004 11:21:00	Analyst: JCO
Arsenic	0.030		0.0020	0.010	mg/L	1	09/08/04 01:20	21728
Barium	0.024		0.000074	0.010	mg/L	1	09/08/04 01:20	21728
Beryllium	0.00022	I	0.00012	0.0010	mg/L	1	09/08/04 01:20	21728
Cadmium	0.00024	U	0.00024	0.0010	mg/L	1	09/08/04 01:20	21728
Chromium	0.012		0.00060	0.0050	mg/L	1	09/08/04 01:20	21728
Cobalt	0.0065	I	0.0015	0.010	mg/L	1	09/08/04 01:20	21728
Copper	0.00058	U	0.00058	0.0050	mg/L	1	09/08/04 01:20	21728
Lead	0.0018	U	0.0018	0.010	mg/L	1	09/08/04 01:20	21728
Nickel	0.013		0.0020	0.0050	mg/L	1	09/08/04 01:20	21728
Selenium	0.0040	U	0.0040	0.015	mg/L	1	09/08/04 01:20	21728
Silver	0.0014	U	0.0014	0.0050	mg/L	1	09/09/04 16:32	21728
Vanadium	0.0085	I	0.00040	0.010	mg/L	1	09/08/04 01:20	21728
Zinc	0.0061	I	0.0023	0.020	mg/L	1	09/09/04 16:32	21728
<b>THALLIUM BY GFAA</b>								
			<b>SW7841</b>				PrepDate: 8/27/2004 10:44:00	Analyst: JCO
Thallium	0.00025	U	0.00025	0.0010	mg/L	1	08/31/04 20:50	21726
<b>011: EDB AND DBCP</b>								
			<b>SW8011</b>				PrepDate: 8/30/2004 2:30:00 P	Analyst: EM
1,2-Dibromo-3-chloropropane	0.0041	U	0.0041	0.020	µg/L	1	08/31/04	21746
Ethylene Dibromide	0.0038	U	0.0038	0.010	µg/L	1	08/31/04	21746
Surr: 4-Bromofluorobenzene	123		0		%REC	1	08/31/04	21746

Data Qualifier Code Key: \* Value exceeds Maximum Contaminant Level  
 U Not Detected Above the MDL  
 I Analyte detected below quantitation limits

CLIENT: Pasco County Environmental Laboratory  
 Work Order: F04080884  
 Project: West Pasco Class III Landfill

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8011\_W

Sample ID:	MB-21746	SampType:	MBLK	TestCode:	8011_W	Units:	µg/L	Prep Date:	8/30/2004	RunNo:	29094
Client ID:	MB-21746	Batch ID:	21746	TestNo:	SW8011	SW8011	SW8011	Analysis Date:	8/31/2004	SeqNo:	609208
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
1,2-Dibromo-3-chloropropane	0.0041	U	0.0041								
Ethylene Dibromide	0.0038	U	0.0038								
Surr: 4-Bromofluorobenzene	16			14	0	110	60	140			

Sample ID:	LCS-21746	SampType:	LCS	TestCode:	8011_W	Units:	µg/L	Prep Date:	8/30/2004	RunNo:	29094
Client ID:	LCS-21746	Batch ID:	21746	TestNo:	SW8011	SW8011	SW8011	Analysis Date:	8/31/2004	SeqNo:	609209
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
1,2-Dibromo-3-chloropropane	0.25		0.0041	0.25	0	98.8	60	140			
Ethylene Dibromide	0.22		0.0038	0.25	0	89.6	60	140			
Surr: 4-Bromofluorobenzene	17			14	0	120	60	140			

Sample ID:	LCSD-21746	SampType:	LCSD	TestCode:	8011_W	Units:	µg/L	Prep Date:	8/30/2004	RunNo:	29094
Client ID:	LCSD-21746	Batch ID:	21746	TestNo:	SW8011	SW8011	SW8011	Analysis Date:	8/31/2004	SeqNo:	609231
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
1,2-Dibromo-3-chloropropane	0.25		0.0041	0.25	0	100	60	140	0.25	1.58	40
Ethylene Dibromide	0.23		0.0038	0.25	0	93.6	60	140	0.22	4.34	40
Surr: 4-Bromofluorobenzene	18			14	0	126	60	140	17	0	0

Sample ID:	F04080993-001AMS	SampType:	MS	TestCode:	8011_W	Units:	µg/L	Prep Date:	8/30/2004	RunNo:	29094
Client ID:	F04080993-001AMS	Batch ID:	21746	TestNo:	SW8011	SW8011	SW8011	Analysis Date:	8/31/2004	SeqNo:	609229
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
1,2-Dibromo-3-chloropropane	0.24		0.0041	0.25	0	97.7	60	140			
Ethylene Dibromide	0.24		0.0038	0.25	0	96.5	60	140			

Data Qualifier Code Key: I Analyte detected below quantitation limits S Spike Recovery outside accepted recovery limits  
 U Not Detected Above the MDL

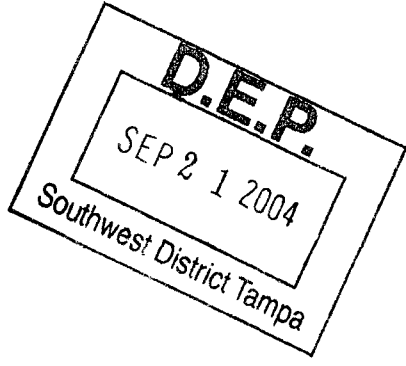
# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Pasco County Environmental Laboratory  
**Work Order:** F04080884  
**Project:** West Pasco Class III Landfill

**TestCode:** 8011\_W

Sample ID: F04080993-001AMS	SampType: MS	TestCode: 8011_W	Prep Date: 8/30/2004	RunNo: 29094
Batch ID: 21746	TestNo: SW8011	Units: µg/L	Analysis Date: 8/31/2004	SeqNo: 609229
	MDL	SPK value	%REC	%RPD
	17	14	122	0
			LowLimit	HighLimit
			60	140
			RPD Ref Val	RPDLimit

Sample ID: F04080993-001AMSD	SampType: MSD	TestCode: 8011_W	Prep Date: 8/30/2004	RunNo: 29094
Batch ID: 21746	TestNo: SW8011	Units: µg/L	Analysis Date: 8/31/2004	SeqNo: 609230
	MDL	SPK value	%REC	%RPD
	0.0041	0.25	98.9	1.22
	0.0038	0.25	101	4.46
	18	14	127	0
			LowLimit	HighLimit
			60	140
			RPD Ref Val	RPDLimit
			0.24	0
			0.24	40
			17	0



**Data** I Analyte detected below quantitation limits S Spike Recovery outside accepted recovery limits  
**Qualifier** U Not Detected Above the MDL  
**Code Key:**

CLIENT: Pasco County Environmental Laboratory  
 Work Order: F04080884  
 Project: West Pasco Class III Landfill

# ANALYTICAL QC SUMMARY REPORT

TestCode: AA-SB7041\_W

Sample ID: MB-21726	SampleType: MBLK	TestCode: AA-SB7041_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29060						
Client ID: MB-21726	Batch ID: 21726	TestNo: SW7041	SW3020A	Analysis Date: 8/31/2004	SeqNo: 607807						
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	0.35	U	0.35								

Sample ID: LCS-21726	SampleType: LCS	TestCode: AA-SB7041_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29060						
Client ID: LCS-21726	Batch ID: 21726	TestNo: SW7041	SW3020A	Analysis Date: 8/31/2004	SeqNo: 607808						
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	20		0.35	20	0	99.2	90	110			

Sample ID: F04080892-010CMS	SampleType: MS	TestCode: AA-SB7041_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29060						
Batch ID: 21726		TestNo: SW7041	SW3020A	Analysis Date: 8/31/2004	SeqNo: 607828						
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	11		0.35	10	1.1	101	85	115			

Sample ID: F04080892-010CMSD	SampleType: MSD	TestCode: AA-SB7041_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29060						
Batch ID: 21726		TestNo: SW7041	SW3020A	Analysis Date: 8/31/2004	SeqNo: 607829						
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	11		0.35	10	1.1	94.7	85	115	11	5.63	20

Data Qualifier Code Key: I Analyte detected below quantitation limits U Not Detected Above the MDL S Spike Recovery outside accepted recovery limits



# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Pasco County Environmental Laboratory  
**Work Order:** F04080884  
**Project:** West Pasco Class III Landfill

**TestCode:** AA-TL7841\_W

Sample ID: MB-21726	SampType: MBLK	TestCode: AA-TL7841_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29081
Client ID: MB-21726	Batch ID: 21726	TestNo: SW7841	SW3020A	Analysis Date: 8/31/2004	SeqNo: 608858
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val
	0.25	U	0.25		
				%REC	LowLimit
				HighLimit	RPD Ref Val
					%RPD
					RPDLimit

Sample ID: LCS-21726	SampType: LCS	TestCode: AA-TL7841_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29081
Client ID: LCS-21726	Batch ID: 21726	TestNo: SW7841	SW3020A	Analysis Date: 8/31/2004	SeqNo: 608859
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val
	22	S	0.25	20	0
				110	90
				110	110
					%RPD
					RPDLimit

Sample ID: F04080842-001JMS	SampType: MS	TestCode: AA-TL7841_	Units: µg/L	Prep Date:	RunNo: 29081
	Batch ID: 21726	TestNo: SW7841	SW3020A	Analysis Date: 8/31/2004	SeqNo: 608861
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val
	8.0	S	0.25	10	0
				80.3	85
					115
					%RPD
					RPDLimit

Sample ID: F04080892-010CMS	SampType: MS	TestCode: AA-TL7841_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29081
	Batch ID: 21726	TestNo: SW7841	SW3020A	Analysis Date: 8/31/2004	SeqNo: 608879
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val
	13	S	0.25	10	0
				132	85
					115
					%RPD
					RPDLimit

Sample ID: F04080842-001JMSD	SampType: MSD	TestCode: AA-TL7841_	Units: µg/L	Prep Date:	RunNo: 29081
	Batch ID: 21726	TestNo: SW7841	SW3020A	Analysis Date: 8/31/2004	SeqNo: 608862
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val
	7.9	S	0.25	10	0
				79.3	85
					115
					%RPD
					RPDLimit

**Date**                    I    Analyte detected below quantitation limits                    S    Spike Recovery outside accepted recovery limits  
**Qualifier**            U    Not Detected Above the MDL  
**Code Key:**

CLIENT: Pasco County Environmental Laboratory  
 Work Order: F04080884  
 Project: West Pasco Class III Landfill

# ANALYTICAL QC SUMMARY REPORT

TestCode: AA-TL7841\_W

Sample ID: F04080892-010CM	MSD	TestCode: AA-TL7841_	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29081						
Batch ID: 21726		TestNo: SW7841	SW3020A	Analysis Date: 8/31/2004	SeqNo: 608880						
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Thallium	13	S	0.25	10	0	132	85	115	13	0.227	20

Data Qualifier Code Key: I Analyte detected below quantitation limits S Spike Recovery outside accepted recovery limits  
 U Not Detected Above the MDL

CLIENT: Pasco County Environmental Laboratory  
 Work Order: F04080884  
 Project: West Pasco Class III Landfill

# ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6010\_W

Sample ID: MB-21728	SampType: MBLK	TestCode: ICP-6010_W	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29201						
Client ID: MB-21728	Batch ID: 21728	TestNo: SW6010	SW3005A	Analysis Date: 9/7/2004	SeqNo: 611722						
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Arsenic	2.0	U	2.0								
Barium	0.074	U	0.074								
Beryllium	0.12	U	0.12								
Cadmium	0.24	U	0.24								
Chromium	0.60	U	0.60								
Cobalt	1.5	U	1.5								
Copper	0.58	U	0.58								
Lead	1.8	U	1.8								
Nickel	2.0	U	2.0								
Selenium	4.0	U	4.0								
Silver	1.4	U	1.4								
Vanadium	0.40	U	0.40								
Zinc	2.3	U	2.3								

Sample ID: LCS-21728	SampType: LCS	TestCode: ICP-6010_W	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29201						
Client ID: LCS-21728	Batch ID: 21728	TestNo: SW6010	SW3005A	Analysis Date: 9/7/2004	SeqNo: 611725						
Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Arsenic	1000		2.0	1000	0	102	90	110			
Barium	970		0.074	1000	0	97.3	90	110			
Beryllium	100		0.12	100	0	101	90	110			
Cadmium	100		0.24	100	0	102	90	110			
Chromium	500		0.60	500	0	100	90	110			
Cobalt	1000		1.5	1000	0	101	90	110			
Copper	500		0.58	500	0	99.2	90	110			
Lead	1000		1.8	1000	0	102	90	110			
Nickel	510		2.0	500	0	101	90	110			
Selenium	1500		4.0	1500	0	101	90	110			

Data I Analyte detected below quantitation limits  
 Qualifier U Not Detected Above the MDL  
 Code Key: S Spike Recovery outside accepted recovery limits

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Pasco County Environmental Laboratory  
**Work Order:** F04080884  
**Project:** West Pasco Class III Landfill

**TestCode:** ICP-6010\_W

Sample ID: LCS-21728	SampType: LCS	TestCode: ICP-6010_W	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29201						
Client ID: LCS-21728	Batch ID: 21728	TestNo: SW6010	SW3005A	Analysis Date: 9/7/2004	SeqNo: 611725						
Analyte	Result	Qual	MDL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit
Silver	510		1.4	500	0	101	90	110			
Vanadium	1000		0.40	1000	0	102	90	110			
Zinc	1900		2.3	2000	0	95.5	90	110			

Sample ID: F04080892-001CMS	SampType: MS	TestCode: ICP-6010_W	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29201						
Batch ID: 21728		TestNo: SW6010	SW3005A	Analysis Date: 9/7/2004	SeqNo: 611730						
Analyte	Result	Qual	MDL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit
Arsenic	1000		2.0	1000	2.3	103	75	125			
Barium	980		0.074	1000	0	97.6	75	125			
Beryllium	100		0.12	100	0	102	75	125			
Cadmium	100		0.24	100	0	102	75	125			
Chromium	500		0.60	500	0	100	75	125			
Cobalt	1000		1.5	1000	0	102	75	125			
Copper	500		0.58	500	0	99.0	75	125			
Lead	1000		1.8	1000	0	102	75	125			
Nickel	510		2.0	500	0	103	75	125			
Selenium	1500		4.0	1500	0	101	75	125			
Silver	500		1.4	500	0	99.6	75	125			
Vanadium	1000		0.40	1000	0	103	75	125			
Zinc	2000		2.3	2000	0	97.5	75	125			

Sample ID: F04080892-001CMS	SampType: MSD	TestCode: ICP-6010_W	Units: µg/L	Prep Date: 8/27/2004	RunNo: 29201						
Batch ID: 21728		TestNo: SW6010	SW3005A	Analysis Date: 9/7/2004	SeqNo: 611731						
Analyte	Result	Qual	MDL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit
Arsenic	1000		2.0	1000	2.3	105	75	125	1000	1.92	20
Barium	990		0.074	1000	0	98.8	75	125	980	1.22	20

**Data Qualifier Code Key:**  
 I Analyte detected below quantitation limits  
 U Not Detected Above the MDL  
 S Spike Recovery outside accepted recovery limits

CLIENT: Pasco County Environmental Laboratory  
 Work Order: F04080884  
 Project: West Pasco Class III Landfill

# ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6010\_W

Sample ID: F04080892-001CMSD SampType: MSD Batch ID: 21728 TestCode: ICP-6010\_W Units: µg/L Prep Date: 8/27/2004 RunNo: 29201  
 TestNo: SW6010 SW3005A Analysis Date: 9/7/2004 SeqNo: 611731

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Beryllium	100		0.12	100	0	103	75	125	100	0.976	20
Cadmium	100		0.24	100	0	104	75	125	100	1.94	20
Chromium	510		0.60	500	0	102	75	125	500	1.38	20
Cobalt	1000		1.5	1000	0	104	75	125	1000	1.94	20
Copper	500		0.58	500	0	100	75	125	500	1.40	20
Lead	1000		1.8	1000	0	104	75	125	1000	1.94	20
Nickel	520		2.0	500	0	104	75	125	510	1.16	20
Selenium	1600		4.0	1500	0	103	75	125	1500	1.95	20
Silver	500		1.4	500	0	101	75	125	500	1.40	20
Vanadium	1000		0.40	1000	0	105	75	125	1000	1.92	20
Zinc	2000		2.3	2000	0	101	75	125	2000	3.03	20

Data Qualifier Code Key: I Analyte detected below quantitation limits U Not Detected Above the MDL S Spike Recovery outside accepted recovery limits



# PASCO COUNTY, FLORIDA

**ENVIRONMENTAL LABORATORY**  
**8864 GOVERNMENT DRIVE**  
**NEW PORT RICHEY, FL 34654**  
**PHONE 727-847-8902**

**DHRS E44123**  
**CONTACTS:**  
**GLORIA KRUEGER**  
**BILL WARGO**

## REPORT OF ANALYSES

West Pasco  
Class III Landfill  
Hays Road  
Shady Hills, Fl  
John Power

Date: 9/9/04

SAMPLE NUMBER AA38860  
DATE SAMPLED 8/24/04  
DATE RECEIVED 8/24/04  
TIME RECEIVED 16:00

SAMPLE ID TANK 1 @ WP CLASS III  
SAMPLER CSC  
DELIVERED BY CSC

SAMPLE MATRIX Leac  
TIME SAMPLED 10:10  
RECEIVED BY GK  
SAMPLE TYPE  
Pumped

ANALYSIS	ANALYSIS						UNIT	DET. LIMIT
	METHOD	DATE	TIME	BY	RESULT	QUAL.		
Color by Observation	Observation	8/24/04	10:10	CSC	TAN			
Conductivity Field	SM2510B	8/24/04	10:10	CSC	1147	umhos/		
Dissolved Oxygen Field	SM4500OG	8/24/04	10:10	CSC	0.09	mg/L	0.00	
pH Field	SM4500HB	8/24/04	10:10	CSC	6.44	std unit		
Temperature Field	SM2550B	8/24/04	10:10	CSC	28.50	deg C		
Iron, Total, Flame	SM3111B	8/26/04	12:30	TER	0.34	mg/L	0.03	
Mercury, Total, CVAA	SM3112B	8/31/04	10:00	TER	<0.0005	U	0.0005	
Sodium, Total, Flame	SM3111B	8/27/04	9:50	TER	65.7	mg/L	0.10	
Ammonia	SM4500NH3	9/1/04	7:30	IF	309	mg/L	0.08	
Nitrate	SM4500NO3	8/27/04	8:00	IF	<0.03	U	0.03	
Total Dissolved Solids	SM2540C	8/26/04	16:45	JK	720	mg/L	17.3	
Bicarbonate Alkalinity	SM2320B	8/31/04	15:00	JK	290	mgCaC	3.51	

ANALYSIS COMMENTS:

LABORATORY DIRECTOR

THIS DOCUMENT MEETS NELAC STANDARDS

NELAC Certification # E44123



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## REPORT OF ANALYSES

West Pasco  
Class III Landfill  
Hays Road  
Shady Hills, FL  
John Power

Date: 9/9/04

SAMPLE NUMBER AA38860  
DATE SAMPLED 8/24/04  
DATE RECEIVED 8/24/04  
TIME RECEIVED 16:00

SAMPLE ID TANK 1 @ WP CLASS III  
SAMPLER CSC  
DELIVERED BY CSC

SAMPLE MATRIX Leac  
TIME SAMPLED 10:10  
RECEIVED BY GK  
SAMPLE TYPE  
Pumped

ANALYSIS	ANALYSIS				RESULT	QUAL.	UNIT	DET. LIMIT
	METHOD	DATE	TIME	BY				
Chloride	SM4500CLE	8/25/04	10:00	JK	54.8		mg/L	0.47

ANALYSIS COMMENTS:

LABORATORY DIRECTOR

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**BILL WARGO**

## REPORT OF ANALYSES

West Pasco  
Class III Landfill  
Hays Road  
Shady Hills, Fl  
John Power

Date: 9/9/04

SAMPLE NUMBER AA38861  
DATE SAMPLED 8/24/04  
DATE RECEIVED 8/24/04  
TIME RECEIVED 16:00

SAMPLE ID TANK 2 @ WP CLASS III  
SAMPLER CSC  
DELIVERED BY CSC

SAMPLE MATRIX Leac  
TIME SAMPLED 11:00  
RECEIVED BY GK  
SAMPLE TYPE  
Pumped

ANALYSIS	ANALYSIS						UNIT	DET. LIMIT
	METHOD	DATE	TIME	BY	RESULT	QUAL.		
Color by Observation	Observation	8/24/04	11:00	CSC	TAN			
Conductivity Field	SM2510B	8/24/04	11:00	CSC	3810	umhos/		
Dissolved Oxygen Field	SM4500OG	8/24/04	11:00	CSC	0.80	mg/L	0.00	
pH Field	SM4500HB	8/24/04	11:00	CSC	6.92	std unit		
Temperature Field	SM2550B	8/24/04	11:00	CSC	28.10	deg C		
Iron, Total, Flame	SM3111B	8/26/04	12:30	TER	9.71	mg/L	0.03	
Mercury, Total, CVAA	SM3112B	8/31/04	10:00	TER	<0.0005	U	0.0005	
Sodium, Total, Flame	SM3111B	8/27/04	9:50	TER	582	mg/L	0.10	
Ammonia	SM4500NH3	9/1/04	7:30	IF	3.91	mg/L	0.08	
Nitrate	SM4500NO3	8/27/04	8:00	IF	1.28	mg/L	0.03	
Total Dissolved Solids	SM2540C	8/26/04	16:45	JK	2120	mg/L	17.3	
Bicarbonate Alkalinity	SM2320B	8/31/04	15:00	JK	556	mgCaC	3.51	

ANALYSIS COMMENTS:

LABORATORY DIRECTOR

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## REPORT OF ANALYSES

West Pasco  
Class III Landfill  
Hays Road  
Shady Hills, Fl  
John Power

Date: 9/9/04

SAMPLE NUMBER AA38861  
DATE SAMPLED 8/24/04  
DATE RECEIVED 8/24/04  
TIME RECEIVED 16:00

SAMPLE ID TANK 2 @ WP CLASS III  
SAMPLER CSC  
DELIVERED BY CSC

SAMPLE MATRIX Leac  
TIME SAMPLED 11:00  
RECEIVED BY GK  
SAMPLE TYPE  
Pumped

### ANALYSIS

Chloride

### ANALYSIS

METHOD	DATE	TIME	BY	RESULT	QUAL.	UNIT	DET. LIMIT
SM4500CLE	8/25/04	10:00	JK	368		mg/L	0.47

ANALYSIS COMMENTS:

LABORATORY DIRECTOR

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