



# PASCO COUNTY, FLORIDA

DADE CITY (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

92303

JRM  
7/2/02

02 Nov 2001

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

**D.E.P.**  
**NOV 07 2001**  
**Southwest District Tampa**

RE: West Pasco Class III Landfill  
Groundwater Monitoring  
Semester II, 2001

Dear Mr. Morris:

Enclosed please find the groundwater monitoring analyses from monitoring wells 2MW3A, 2MW7, 2MW8, 2MW9, 2MW10, 4MW3A, 4MW7, 4MW8, and 4MW9 at the West Pasco Class III landfill for the second semester (Jul-Dec) sampling period. These wells were analyzed for the parameters listed in 62-701(8)(a) Florida Administrative Code. All associated Quality Assurance/Quality Control data is also included for all analyses.

No groundwater exceedence summary table is included since none of the wells exceeded any MCL's for regulated analytes. A groundwater contour map for this site is included with this submittal.

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

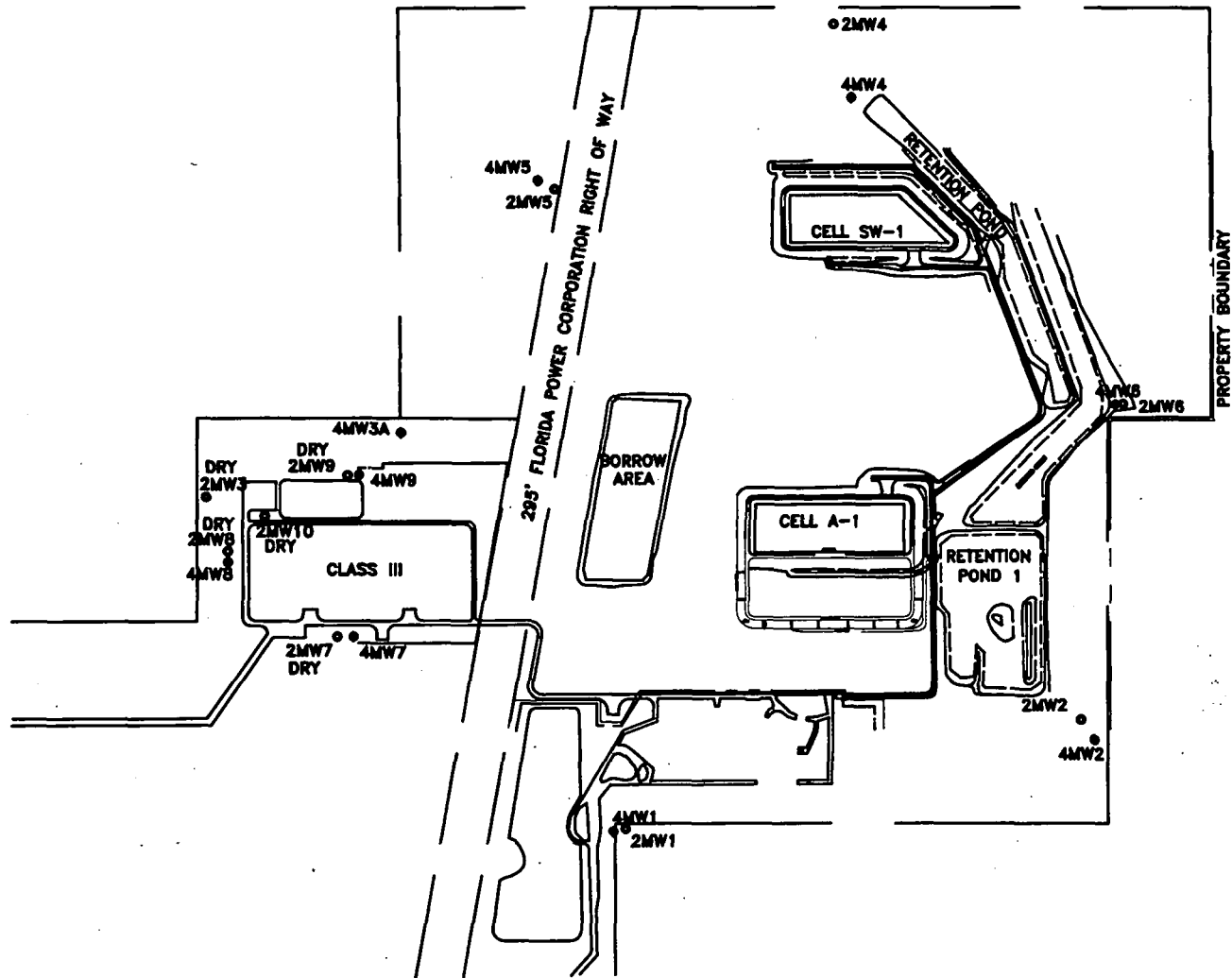
Sincerely,

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  
John Power, Solid Waste Facility Manager

*Handwritten signature and date: 11/10/01*



**EXPLANATION**

- 4MW2 ● FLORIDAN AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION
- 2MW2 ● SURFICIAL AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION

**NOTE:**

(4MW)=4" PVC FLORIDAN AQUIFER WELL  
 (2MW)=2" PVC SURFICIAL AQUIFER WELL



Scale In Feet  
 Prepared/Date: JT 11/01/01  
 Checked/Date: *[Signature]*

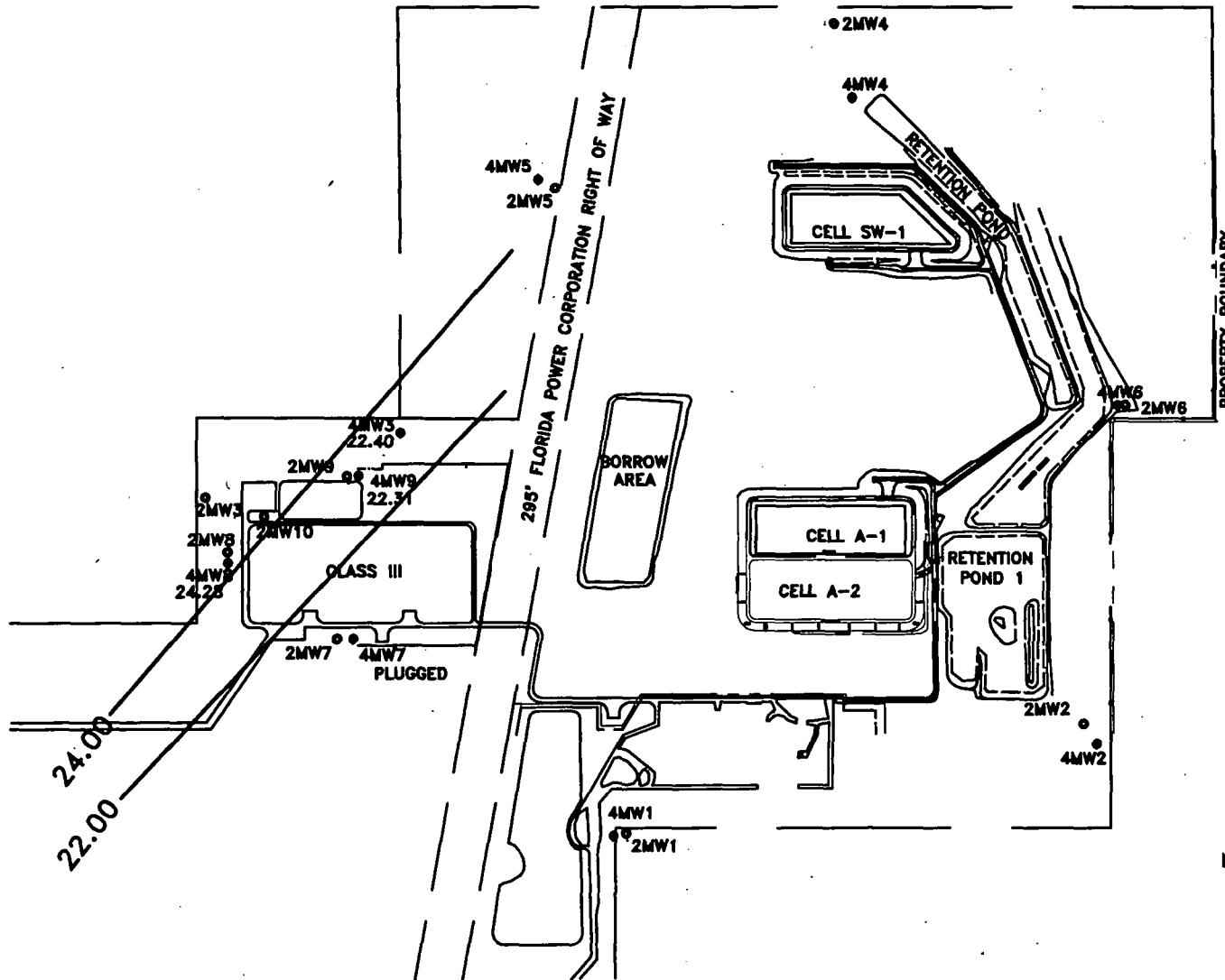
West Pasco Class III Landfill  
 Pasco County  
 Board of County Commissioners  
 Utility Services Branch  
 Pasco County, Florida



**Ground-Water Monitoring**

Surficial Aquifer Water Table Map  
 JULY 2001

*Handwritten signatures and stamps:*  
 STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 11/14/01



**EXPLANATION**

- 4MW2 ● FLORIDAN AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION
- 2MW2 ● SURFICIAL AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION
- \* - UNABLE TO SAMPLE DUE TO OBSTRUCTION

**NOTE:**

(4MW)=4" PVC FLORIDAN AQUIFER WELL  
 (2MW)=2" PVC SURFICIAL AQUIFER WELL



Scale in Feet  
 Prepared/Date: JT 11/01/01  
 Checked/Date: *EWG 11/14/01*

NOTE: BASED ON THE DISCUSSION WITH THE SAMPLER, 4MW7 WAS PLUGGED.

West Pasco Class III Landfill  
 Pasco County  
 Board of County Commissioners  
 Utility Services Branch  
 Pasco County, Florida



**Ground-Water Monitoring**

Floridan Aquifer Potentiometric Surface Map  
 JULY 2001

Project #40141-8-0451\_6

Figure 2

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 7/17/01 @ 1310

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III  
(year/quarter)

Well Name: 2MW-3A

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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 4500NO <sub>3</sub> F		T.L.T.S. mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B		T.L.T.S. mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		T.L.T.S. NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		T.L.T.S. mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		T.L.T.S. mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B		T.L.T.S. Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B		T.L.T.S. mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B		T.L.T.S. mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4		T.L.T.S. mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B		T.L.T.S. mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP		T.L.T.S. mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		T.L.T.S. °C	0 °C
000680	TOC	"	"	SM 5310B		T.L.T.S. mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		T.L.T.S. µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B		T.L.T.S. mg/L	1 mg/L
072020	Water Level (MSL)	"	"			T.L.T.S. Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 7/17/01 @ 1300

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III  
(year/quarter)

Well Name: 4MW-3A

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

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

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

or (MSL): 22.40

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 4500N <sub>3</sub> F	07/18/01 1100	<0.11 mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B	08/03/01 1000	5.83 mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B	07/17/01 1300	1.7 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500CI-B	07/30/01 1100	17.5 mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	07/18/01 1500	220 mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B	07/17/01 1300	7.31 Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B	08/02/01 0935	0.21 mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B	08/01/01 1035	<0.0005 mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4	07/24/01 1100	<1 mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B	07/27/01 1100	0.95 mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP	09/14/01 1000	<0.02 mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B	07/17/01 1300	24.67 °C	0 °C
000680	TOC	"	"	SM 5310B	07/18/01 1100	2.09 mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/17/01 1300	351 µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B	07/19/01 1700	153 mg/L	1 mg/L
072020	Water Level (MSL)	"	"		07/17/01 1300	22.40 Feet	Feet

\*Attach Laboratory Reports

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1300

Report Period: \_\_\_\_\_

Well Name: 4MW3A

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13228

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
01077	Silver	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01002	Arsenic	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01007	Barium	G	N	EPA6020	07-24-01	0.00778 mg/L	0.002 mg/L
01012	Beryllium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01027	Cadmium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01037	Cobalt	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01034	Chromium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01042	Copper	G	N	EPA6020	07-24-01	<0.01U mg/L	0.01 mg/L
01067	Nickel	G	N	EPA6020	07-24-01	0.00374 mg/L	0.001 mg/L
01051	Lead	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01097	Antimony	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01147	Selenium	G	N	EPA6020	07-24-01	<0.002U mg/L	0.002 mg/L
01059	Thallium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01087	Vanadium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01092	Zinc	G	N	EPA6020	07-24-01	<0.01U mg/L	0.01 mg/L
	Dilution Factor			EPA5030	07-26-01	1	
081552	Acetone	G	N	EPA8260	07-26-01	<5U ug/L	5 ug/L
034215	Acrylonitrile	G	N	-	-	- ug/L	- ug/L
034030	Benzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081555	Bromobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077297	Bromochloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032101	Bromodichloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032104	Bromoform	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034413	Bromomethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1300

Report Period: \_\_\_\_\_

Well Name: 4MW3A

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13228

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
077342	n-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077350	sec-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077353	tert-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077041	Carbon disulfide	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032102	Carbon tetrachloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034301	Chlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034311	Chloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032105	Chloroform	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034418	Chloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077725	2-chlorotoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077277	4-chlorotoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081521	Dibromochloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
082625	1,2-dibromo-3-chloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077651	1,2-dibromoethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081522	Dibromomethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034536	o-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034566	m-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034571	Para-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034668	Dichlorodifluoromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
073547	t-1,4-dichloro-2-butene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034496	1,1-dichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034531	1,2-dichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034501	1,1-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077093	cis-1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034546	t-1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1300

Report Period: \_\_\_\_\_

Well Name: 4MW3A

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13228

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034531	1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034541	1,2-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034561	1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077170	2,2-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077168	1,1-dichloropropene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034704	cis-1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034699	trans-1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034371	Ethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
039702	Hexachlorobutadiene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077103	2-Hexanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034396	Hexachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077223	Isopropylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077356	4-isopropyltoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034423	Methylene chloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
078032	Methyl-tert-butylether	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081595	2-butanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077424	Methyl_iodide	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081596	4-methyl-2-pentanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034696	Naphthalene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077224	Propylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077128	Styrene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077562	1,1,1,2-tetrachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034516	1,1,2,2-tetrachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034475	Tetrachloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034010	Toluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L



# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1300

Report Period: \_\_\_\_\_

Well Name: 4MW3A

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13228

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
077613	1,2,3-trichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034551	1,2,4-trichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034506	1,1,1-trichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034511	1,1,2-trichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
039180	Trichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034488	Trichlorofluoromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077443	1,2,3-trichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077222	1,2,4-trimethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077226	1,3,5-trimethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077057	Vinyl acetate	G	N	EPA8260	07-26-01	<5U ug/L	5 ug/L
039175	Vinyl chloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081551	Xylene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 7/17/01 @ 1330

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III  
(year/quarter)

Well Name: 2MW-7

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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 4500NO <sub>3</sub> F		T.L.T.S. mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B		T.L.T.S. mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		T.L.T.S. NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		T.L.T.S. mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		T.L.T.S. mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B		T.L.T.S. Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B		T.L.T.S. mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B		T.L.T.S. mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4		T.L.T.S. mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B		T.L.T.S. mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP		T.L.T.S. mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		T.L.T.S. °C	0 °C
000680	TOC	"	"	SM 5310B		T.L.T.S. mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		T.L.T.S. µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B		T.L.T.S. mg/L	1 mg/L
072020	Water Level (MSL)	"	"			T.L.T.S. Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 07/17/01 @ 1330

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III  
(year/quarter)

Well Name: 4MW-7

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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 4500N <sub>3</sub> F		T.L.T.S. mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B		T.L.T.S. mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		T.L.T.S. NTU	0.01 NTU
000940	Chloride	"	"	SM 4500CI-B		T.L.T.S. mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		T.L.T.S. mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B		T.L.T.S. Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B		T.L.T.S. mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B		T.L.T.S. mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4		T.L.T.S. mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B		T.L.T.S. mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP		T.L.T.S. mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		T.L.T.S. °C	0 °C
000680	TOC	"	"	SM 5310B		T.L.T.S. mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		T.L.T.S. µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B		T.L.T.S. mg/L	1 mg/L
072020	Water Level (MSL)	"	"			T.L.T.S. Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 7/17/01 @ 1500

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III

(year/quarter)

Well Name: 2MW-8

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
 ( ) Intermediate  
 (XXX) 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 4500N <sub>3</sub> F		T.L.T.S. mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B		T.L.T.S. mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		T.L.T.S. NTU	0.01 NTU
000940	Chloride	"	"	SM 4500CI-B		T.L.T.S. mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		T.L.T.S. mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B		T.L.T.S. Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B		T.L.T.S. mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B		T.L.T.S. mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4		T.L.T.S. mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B		T.L.T.S. mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP		T.L.T.S. mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		T.L.T.S. °C	0 °C
000680	TOC	"	"	SM 5310B		T.L.T.S. mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		T.L.T.S. µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B		T.L.T.S. mg/L	1 mg/L
072020	Water Level (MSL)	"	"			T.L.T.S. Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 7/17/01 @ 1500

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III  
(year/quarter)

Well Name: 4MW-8

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

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

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

or (MSL): 24.28

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 4500NO <sub>3</sub> F	07/18/01 1100	<0.11 mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B	08/03/01 1000	3.57 mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B	07/17/01 1500	0.9 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	07/30/01 1100	6.77 mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	07/18/01 1500	194 mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B	07/17/01 1500	7.35 Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B	08/02/01 0935	0.03 mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B	08/01/01 1035	<0.0005 mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4	07/24/01 1100	<1 mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B	07/27/01 1100	0.47 mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP	09/14/01 1000	<0.02 mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B	07/17/01 1500	24.55 °C	0 °C
000680	TOC	"	"	SM 5310B	07/18/01 1100	1.85 mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/17/01 1500	317 µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B	07/19/01 1700	155 mg/L	1 mg/L
072020	Water Level (MSL)	"	"		07/17/01 1500	24.28 Feet	Feet

\*Attach Laboratory Reports

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1500

Report Period: \_\_\_\_\_

Well Name: 4MW8

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13229

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
01077	Silver	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01002	Arsenic	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01007	Barium	G	N	EPA6020	07-24-01	0.00551 mg/L	0.002 mg/L
01012	Beryllium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01027	Cadmium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01037	Cobalt	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01034	Chromium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01042	Copper	G	N	EPA6020	07-24-01	<0.01U mg/L	0.01 mg/L
01067	Nickel	G	N	EPA6020	07-24-01	0.00228 mg/L	0.001 mg/L
01051	Lead	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01097	Antimony	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01147	Selenium	G	N	EPA6020	07-24-01	0.00241 mg/L	0.002 mg/L
01059	Thallium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01087	Vanadium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01092	Zinc	G	N	EPA6020	07-24-01	<0.01U mg/L	0.01 mg/L
	Dilution Factor			EPA5030	07-26-01	1	
081552	Acetone	G	N	EPA8260	07-26-01	<5U ug/L	5 ug/L
034215	Acrylonitrile	G	N	-	-	- ug/L	- ug/L
034030	Benzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081555	Bromobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077297	Bromochloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032101	Bromodichloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032104	Bromoform	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034413	Bromomethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1500

Report Period: \_\_\_\_\_

Well Name: 4MW8

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13229

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
077342	n-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077350	sec-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077353	tert-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077041	Carbon disulfide	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032102	Carbon tetrachloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034301	Chlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034311	Chloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032105	Chloroform	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034418	Chloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077725	2-chlorotoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077277	4-chlorotoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081521	Dibromochloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
082625	1,2-dibromo-3-chloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077651	1,2-dibromoethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081522	Dibromomethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034536	o-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034566	m-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034571	Para-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034668	Dichlorodifluoromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
073547	t-1,4-dichloro-2-butene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034496	1,1-dichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034531	1,2-dichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034501	1,1-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077093	cis-1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034546	t-1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1500

Report Period: \_\_\_\_\_

Well Name: 4MW8

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13229

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034531	1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034541	1,2-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034561	1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077170	2,2-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077168	1,1-dichloropropene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034704	cis-1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034699	trans-1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034371	Ethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
039702	Hexachlorobutadiene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077103	2-Hexanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034396	Hexachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077223	Isopropylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077356	4-isopropyltoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034423	Methylene chloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
078032	Methyl-tert-butylether	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081595	2-butanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077424	Methyl_iodide	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081596	4-methyl-2-pentanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034696	Naphthalene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077224	Propylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077128	Styrene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077562	1,1,1,2-tetrachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034516	1,1,2,2-tetrachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034475	Tetrachloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034010	Toluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L



# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1500

Report Period: \_\_\_\_\_

Well Name: 4MW8

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13229

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
077613	1,2,3-trichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034551	1,2,4-trichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034506	1,1,1-trichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034511	1,1,2-trichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
039180	Trichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034488	Trichlorofluoromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077443	1,2,3-trichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077222	1,2,4-trimethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077226	1,3,5-trimethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077057	Vinyl acetate	G	N	EPA8260	07-26-01	<5U ug/L	5 ug/L
039175	Vinyl chloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081551	Xylene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 7/17/01 @ 1400

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III  
(year/quarter)

Well Name: 2MW-9

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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 4500N <sub>3</sub> F		T.L.T.S. mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B		T.L.T.S. mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		T.L.T.S. NTU	0.01 NTU
000940	Chloride	"	"	SM 4500CI-B		T.L.T.S. mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		T.L.T.S. mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B		T.L.T.S. Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B		T.L.T.S. mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B		T.L.T.S. mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4		T.L.T.S. mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B		T.L.T.S. mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP		T.L.T.S. mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		T.L.T.S. °C	0 °C
000680	TOC	"	"	SM 5310B		T.L.T.S. mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		T.L.T.S. µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B		T.L.T.S. mg/L	1 mg/L
072020	Water Level (MSL)	"	"			T.L.T.S. Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 051M30035

Sampling Date/Time: 7/17/01 @ 1400

Test Site ID #: 4051A16325

Report Period: 2001 / Quarter III  
(year/quarter)

Well Name: 4MW-9

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

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

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

or (MSL): 22.31

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 4500NO <sub>3</sub> F	07/18/01 1100	3.1 mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B	08/03/01 1000	4.95 mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B	07/17/01 1400	2.4 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	07/30/01 1100	11.8 mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	07/18/01 1500	404 mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B	07/17/01 1400	6.96 Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B	08/02/01 0935	0.04 mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B	08/01/01 1035	<0.0005 mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4	07/24/01 1100	<1 mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B	07/27/01 1100	0.75 mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP	09/14/01 1000	<0.02 mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B	07/17/01 1400	24.90 °C	0 °C
000680	TOC	"	"	SM 5310B	07/18/01 1100	3.35 mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/17/01 1400	469 µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B	07/19/01 1700	208 mg/L	1 mg/L
072020	Water Level (MSL)	"	"		07/17/01 1400	22.31 Feet	Feet

\*Attach Laboratory Reports

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Sample Time: 1400

Test Site ID#: \_\_\_\_\_

Report Period: \_\_\_\_\_

Well Name: 4MW9

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13230

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
01077	Silver	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01002	Arsenic	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01007	Barium	G	N	EPA6020	07-24-01	0.0102 mg/L	0.002 mg/L
01012	Beryllium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01027	Cadmium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01037	Cobalt	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01034	Chromium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01042	Copper	G	N	EPA6020	07-24-01	<0.01U mg/L	0.01 mg/L
01067	Nickel	G	N	EPA6020	07-24-01	0.00496 mg/L	0.001 mg/L
01051	Lead	G	N	EPA6020	07-24-01	0.0123 mg/L	0.001 mg/L
01097	Antimony	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01147	Selenium	G	N	EPA6020	07-24-01	<0.002U mg/L	0.002 mg/L
01059	Thallium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01087	Vanadium	G	N	EPA6020	07-24-01	<0.001U mg/L	0.001 mg/L
01092	Zinc	G	N	EPA6020	07-24-01	0.034 mg/L	0.01 mg/L
	Dilution Factor			EPA5030	07-26-01	1	
081552	Acetone	G	N	EPA8260	07-26-01	<5U ug/L	5 ug/L
034215	Acrylonitrile	G	N	-	-	- ug/L	- ug/L
034030	Benzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081555	Bromobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077297	Bromochloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032101	Bromodichloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032104	Bromoform	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034413	Bromomethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1400

Report Period: \_\_\_\_\_

Well Name: 4MW9

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13230

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
077342	n-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077350	sec-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077353	tert-butylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077041	Carbon disulfide	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032102	Carbon tetrachloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034301	Chlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034311	Chloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
032105	Chloroform	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034418	Chloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077725	2-chlorotoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077277	4-chlorotoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081521	Dibromochloromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
082625	1,2-dibromo-3-chloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077651	1,2-dibromoethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081522	Dibromomethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034536	o-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034566	m-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034571	Para-dichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034668	Dichlorodifluoromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
073547	t-1,4-dichloro-2-butene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034496	1,1-dichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034531	1,2-dichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034501	1,1-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077093	cis-1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034546	t-1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Test Site ID#: \_\_\_\_\_

Well Name: 4MW9

FCL Sample ID: 13230

Classification of Groundwater: G-II

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Sample Date: 07-17-01

Sample Time: 1400

Report Period: \_\_\_\_\_

Well Purged (Y/N): \_\_\_\_\_

- Well Type  Background  
 Intermediate  
 Compliance  
 Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
034531	1,2-dichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034541	1,2-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034561	1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077170	2,2-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077168	1,1-dichloropropene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034704	cis-1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034699	trans-1,3-dichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034371	Ethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
039702	Hexachlorobutadiene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077103	2-Hexanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034396	Hexachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077223	Isopropylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077356	4-isopropyltoluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034423	Methylene chloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
078032	Methyl-tert-butylether	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081595	2-butanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077424	Methyl iodide	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081596	4-methyl-2-pentanone	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034696	Naphthalene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077224	Propylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077128	Styrene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077562	1,1,1,2-tetrachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034516	1,1,2,2-tetrachloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034475	Tetrachloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034010	Toluene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

# FLOWERS CHEMICAL LABORATORIES, INC.

P.O. Box 150-597, Altamonte Springs, FL 32715-0597  
 (407) 339-5984

Facility GMS#: \_\_\_\_\_

Sample Date: 07-17-01

Test Site ID#: \_\_\_\_\_

Sample Time: 1400

Report Period: \_\_\_\_\_

Well Name: 4MW9

Well Purged (Y/N): \_\_\_\_\_

FCL Sample ID: 13230

Well Type  Background

Classification of Groundwater: G-II

Intermediate

Compliance

Ground Water Elevation (NGVD) or (MSL): \_\_\_\_\_

Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
077613	1,2,3-trichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034551	1,2,4-trichlorobenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034506	1,1,1-trichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034511	1,1,2-trichloroethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
039180	Trichloroethene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
034488	Trichlorofluoromethane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077443	1,2,3-trichloropropane	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077222	1,2,4-trimethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077226	1,3,5-trimethylbenzene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
077057	Vinyl acetate	G	N	EPA8260	07-26-01	<5U ug/L	5 ug/L
039175	Vinyl chloride	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L
081551	Xylene	G	N	EPA8260	07-26-01	<1U ug/L	1 ug/L

PART III ANALYTICAL RESULTS

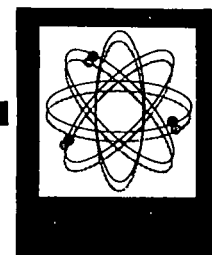
Facility GMS #: 051M30035 Sampling Date/Time: 7/17/01 @ 1410  
 Test Site ID #: 4051A16325 Report Period: 2001 / Quarter III  
 (year/quarter)  
 Well Name: 2MW-10 Well Purged (Y/N): YES  
 Classification of Groundwater: Surficial Well Type: ( ) Background  
 ( ) Intermediate  
 Groundwater Elevation (NGVD): \_\_\_\_\_ (XXX) 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 4500N <sub>3</sub> F		T.L.T.S. mg/L	0.11 mg/L
000929	Sodium	"	"	SM 3111B		T.L.T.S. mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		T.L.T.S. NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		T.L.T.S. mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		T.L.T.S. mg/L	1 mg/L
000400	pH-Field	"	"	SM 4500H+B		T.L.T.S. Std. Units	0.01 Std. Units
001045	Iron	"	"	SM 3113B		T.L.T.S. mg/L	0.001 mg/L
071900	Mercury	"	"	SM 3112B		T.L.T.S. mg/L	0.0002 mg/L
000945	Sulfate	"	"	EPA 375.4		T.L.T.S. mg/L	1 mg/L
000610	Ammonia	"	"	SM 4500NH <sub>3</sub> B		T.L.T.S. mg/L	0.03 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP		T.L.T.S. mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		T.L.T.S. °C	0 °C
000680	TOC	"	"	SM 5310B		T.L.T.S. mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		T.L.T.S. µmhos/cm	0.00 µmhos/cm
000410	Bicarbonate	"	"	SM 2320B		T.L.T.S. mg/L	1 mg/L
072020	Water Level (MSL)	"	"			T.L.T.S. Feet	Feet

\*Attach Laboratory Reports



# FLOWERS



**CHEMICAL  
LABORATORIES**  
INCORPORATED

Received From:  
Pasco Co. Utilities Env. Lab  
8864 Government Dr.  
New Port Richey, FL 34654

RECEIVED

AUG 10 2001

Per.....

Date Reported : Jul30 2001  
Project Number : 14-WP CL-IIILandfi  
PO Number : WPCL III GWM Q III2001  
FLDOH Number : E83018  
NYSDOH Number : 11595  
CTDPH Number : 0173  
NCDEHNR Number : 296  
SCDHEC Number : 96019

For: Appendix I  
Date Received:

Jul19 2001


Lab Numbers: 13226-13230

### REPORT OF ANALYSIS

Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	13226 TANK1	13227 TANK2	13228 4MW3A	13229 4MW8	13230 4MW9
Silver	mg/L	.00100	90.1	.700	<.0010	<.0010	<.0010	<.0010	<.0010
Arsenic	mg/L	.00100	89.3	1.63	<.0010	<.0010	<.0010	<.0010	<.0010
Barium	mg/L	.00200	91.0	1.35	0.0160	.00398	.00778	.00551	0.0102
Beryllium	mg/L	.00100	99.4	8.90	<.0010	<.0010	<.0010	<.0010	<.0010
Cadmium	mg/L	.00100	93.7	.640	<.0010	<.0010	<.0010	<.0010	<.0010
Cobalt	mg/L	.00100	97.2	6.58	.00167	<.0010	<.0010	<.0010	<.0010
Chromium	mg/L	.00100	99.3	1.85	<.0010	<.0010	<.0010	<.0010	<.0010
Copper	mg/L	0.0100	94.8	6.48	<.0100	<.0100	<.0100	<.0100	<.0100
Nickel	mg/L	.00100	92.1	7.10	.00937	.00599	.00374	.00228	.00496
Lead	mg/L	.00100	89.7	8.55	.00301	.00197	<.0010	<.0010	0.0123
Antimony	mg/L	.00100	114.	8.11	<.0010	.00129	<.0010	<.0010	<.0010
Selenium	mg/L	.00200	88.2	2.57	.00257	<.0020	<.0020	.00241	<.0020
Thallium	mg/L	.00100	91.9	10.2	<.0010	<.0010	<.0010	<.0010	<.0010
Vanadium	mg/L	.00100	91.3	9.47	<.0010	<.0010	<.0010	<.0010	<.0010
Zinc	mg/L	0.0100	83.0	.850	0.0463	<.0100	<.0100	<.0100	0.0340
Dilution Factor		-	-	-	1.00	1.00	1.00	1.00	1.00
Acetone	ug/L	5.00	103.	.990	<5.00	<5.00	<5.00	<5.00	<5.00
Benzene	ug/L	1.00	99.4	.390	<1.00	<1.00	<1.00	<1.00	<1.00
Bromobenzene	ug/L	1.00	100.	1.59	<1.00	<1.00	<1.00	<1.00	<1.00
Bromochloromethane	ug/L	1.00	103.	.860	<1.00	<1.00	<1.00	<1.00	<1.00
Bromodichloromethane	ug/L	1.00	103.	1.31	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	ug/L	1.00	102.	.510	<1.00	<1.00	<1.00	<1.00	<1.00
Bromomethane	ug/L	1.00	99.7	.670	<1.00	<1.00	<1.00	<1.00	<1.00
n-butylbenzene	ug/L	1.00	104.	3.25	<1.00	<1.00	<1.00	<1.00	<1.00
sec-butylbenzene	ug/L	1.00	104.	3.74	<1.00	<1.00	<1.00	<1.00	<1.00
tert-butylbenzene	ug/L	1.00	99.8	1.95	<1.00	<1.00	<1.00	<1.00	<1.00

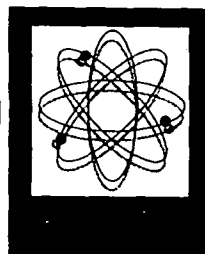
#### Certificate of Results

Sample integrity certified prior to analysis. Test results meet all requirements of the NELAC Standards, except as noted in the QA Report Section 4. This Report may not be reproduced in part, results relate only to items tested.

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

481 NEWBURYPORT AVE.  
ALTAMONTE SPRINGS,  
FLORIDA 32701  
P.O. BOX 150597  
ALTAMONTE SPRINGS,  
FLORIDA 32715-0597  
BUS: (407) 339-5984  
FAX: (407) 260-6110  
WEB: www.flowerslabs.com

Serving Your Analytical and Environmental Needs Since 1957



Received From:  
Pasco Co. Utilities Env. Lab  
8864 Government Dr.  
New Port Richey, FL 34654

Date Reported : Jul30 2001  
Project Number : 14-WP CL-IIILandfi  
PO Number : WPCL III GWM Q III2001  
FLDOH Number : E83018  
NYSDOH Number : 11595  
CTDPH Number : 0173  
NCDEHNR Number : 296  
SCDHEC Number : 96019

For: Appendix I  
Date Received:

Jul19 2001

Lab Numbers: 13226-13230

REPORT OF ANALYSIS

Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	13226 TANK1	13227 TANK2	13228 4MW3A	13229 4MW8	13230 4MW9
Carbon disulfide	ug/L	1.00	118.	.530	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	ug/L	1.00	101.	.060	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzene	ug/L	1.00	103.	.860	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroethane	ug/L	1.00	114.	1.24	<1.00	<1.00	<1.00	<1.00	<1.00
Chloroform	ug/L	1.00	101.	.730	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	1.00	104.	2.78	<1.00	<1.00	<1.00	<1.00	<1.00
2-chlorotoluene	ug/L	1.00	99.4	1.28	<1.00	<1.00	<1.00	<1.00	<1.00
4-chlorotoluene	ug/L	1.00	100.	.950	<1.00	<1.00	<1.00	<1.00	<1.00
Dibromochloromethane	ug/L	1.00	104.	.100	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromo-3-chloro	ug/L	1.00	96.8	.290	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane	ug/L	1.00	106.	2.13	<1.00	<1.00	<1.00	<1.00	<1.00
Dibromomethane	ug/L	1.00	106.	1.43	<1.00	<1.00	<1.00	<1.00	<1.00
o-dichlorobenzene	ug/L	1.00	105.	.870	<1.00	<1.00	<1.00	<1.00	<1.00
m-dichlorobenzene	ug/L	1.00	104.	1.02	<1.00	<1.00	<1.00	<1.00	<1.00
Para-dichlorobenzene	ug/L	1.00	102.	.270	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluorometh	ug/L	1.00	117.	1.60	<1.00	<1.00	<1.00	<1.00	<1.00
t-1,4-dichloro-2-but	ug/L	1.00			<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethane	ug/L	1.00	104.	.440	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethane	ug/L	1.00	100.	.740	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-dichloroethene	ug/L	1.00	104.	.540	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,2-dichloroethe	ug/L	1.00	100.	1.77	<1.00	<1.00	<1.00	<1.00	<1.00
t-1,2-dichloroethene	ug/L	1.00	105.	2.03	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloroethene	ug/L	1.00	102.	1.90	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichloropropane	ug/L	1.00	103.	.710	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-dichloropropane	ug/L	1.00	104.	.780	<1.00	<1.00	<1.00	<1.00	<1.00
2,2-dichloropropane	ug/L	1.00	98.2	.360	<1.00	<1.00	<1.00	<1.00	<1.00

Certificate of Results

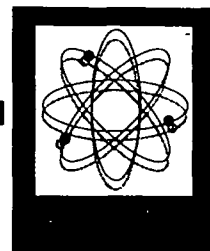
Sample integrity certified prior to analysis. Test results meet all requirements of the NELAC Standards, except as noted in the QA Report Section 4. This Report may not be reproduced in part, results relate only to items tested.

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

481 NEWBURYPORT AVE.  
ALTAMONTE SPRINGS,  
FLORIDA 32701  
P.O. BOX 150597  
ALTAMONTE SPRINGS,  
FLORIDA 32715-0597  
BUS (407) 339-5984  
FAX (407) 260-6110  
WEB www.flowerslabs.com

# FLOWERS

**CHEMICAL  
LABORATORIES**  
INCORPORATED



Received From:  
Pasco Co. Utilities Env. Lab  
8864 Government Dr.  
New Port Richey, FL 34654

Date Reported : Jul30 2001  
Project Number : 14-WP CL-IIILandfi  
PO Number : WPCL III GWM Q III2001  
FLDOH Number : E83018  
NYSDOH Number : 11595  
CTDPH Number : 0173  
NCDEHNR Number : 296  
SCDHEC Number : 96019

For: Appendix I  
Date Received:

Jul19 2001

Lab Numbers: 13226-13230

## REPORT OF ANALYSIS

Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	13226 TANK1	13227 TANK2	13228 4MW3A	13229 4MW8	13230 4MW9
1,1-dichloropropene	ug/L	1.00	102.	.730	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-dichloroprop	ug/L	1.00	104.	.100	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3,-dichlorop	ug/L	1.00	108.	.520	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	ug/L	1.00	103.	.200	<1.00	<1.00	<1.00	<1.00	<1.00
Hexachlorobutadiene	ug/L	1.00	107.	3.79	<1.00	<1.00	<1.00	<1.00	<1.00
2-Hexanone	ug/L	1.00	111.	1.66	<1.00	<1.00	<1.00	<1.00	<1.00
Hexachloroethane	ug/L	1.00			<1.00	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	ug/L	1.00	99.2	1.46	<1.00	<1.00	<1.00	<1.00	<1.00
4-isopropyltoluene	ug/L	1.00	106.	1.66	<1.00	<1.00	<1.00	<1.00	<1.00
Methylene chloride	ug/L	1.00	119.	3.32	<1.00	<1.00	<1.00	<1.00	<1.00
Methyl-tert-butyleth	ug/L	1.00	94.3	3.56	<1.00	<1.00	<1.00	<1.00	<1.00
2-butanone	ug/L	1.00	106.	2.94	<1.00	<1.00	<1.00	<1.00	<1.00
Methyl_iodide	ug/L	1.00	105.	.030	<1.00	<1.00	<1.00	<1.00	<1.00
4-methyl-2-pentanon	ug/L	1.00	105.	2.65	<1.00	<1.00	<1.00	<1.00	<1.00
Naphthalene	ug/L	1.00	84.3	1.22	<1.00	<1.00	<1.00	<1.00	<1.00
propylbenzene	ug/L	1.00	102.	.690	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	ug/L	1.00	108.	.880	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1,2-tetrachloroe	ug/L	1.00	102.	.690	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-tetrachloroe	ug/L	1.00	100.	.420	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	ug/L	1.00	113.	2.50	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	ug/L	1.00	102.	.410	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichlorobenze	ug/L	1.00	92.3	1.61	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4-trichlorobenze	ug/L	1.00	87.7	.480	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-trichloroethan	ug/L	1.00	101.	2.16	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-trichloroethan	ug/L	1.00	105.	.770	<1.00	<1.00	<1.00	<1.00	<1.00
Trichloroethene	ug/L	1.00	102.	.550	<1.00	<1.00	<1.00	<1.00	<1.00

### Certificate of Results

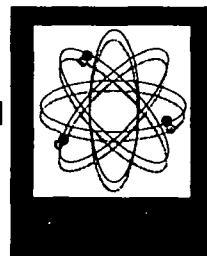
Sample integrity certified prior to analysis. Test results meet all requirements of the NELAC Standards, except as noted in the QA Report Section 4. This Report may not be reproduced in part, results relate only to items tested.

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

Serving Your Analytical and Environmental Needs Since 1957

# FLOWERS

**CHEMICAL  
LABORATORIES**  
INCORPORATED



Received From:  
Pasco Co. Utilities Env. Lab  
8864 Government Dr.  
New Port Richey, FL 34654

Date Reported : Jul30 2001  
Project Number : 14-WP CL-IIIIlandfi  
PO Number : WPCL III GWM Q III2001  
FLDOH Number : E83018  
NYSDOH Number : 11595  
CTDPH Number : 0173  
NCDEHNR Number : 296  
SCDHEC Number : 96019

For: Appendix I  
Date Received:

Jul19 2001

Lab Numbers: 13226-13230

## REPORT OF ANALYSIS

Parameter	Unit	Reportable Detection Limit	%Rec	%RSD	13226 TANK1	13227 TANK2	13228 4MW3A	13229 4MW8	13230 4MW9
Trichlorofluorometha	ug/L	1.00	107.	1.15	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-trichloropropa	ug/L	1.00	132.	.240	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4-trimethylbenze	ug/L	1.00	105.	.810	<1.00	<1.00	<1.00	<1.00	<1.00
1,3,5-trimethylbenze	ug/L	1.00	102.	1.35	<1.00	<1.00	<1.00	<1.00	<1.00
Vinyl acetate	ug/L	5.00			<5.00	<5.00	<5.00	<5.00	<5.00
Vinyl chloride	ug/L	1.00	102.	.790	<1.00	<1.00	<1.00	<1.00	<1.00
Xylene	ug/L	1.00	104.	.920	<1.00	<1.00	<1.00	<1.00	<1.00
Surrogate_Spike1	ug/L	1.00	103.	.320	34.2	35.0	34.4	35.0	35.2
Surrogate_Spike2	ug/L	1.00	102.	.300	32.2	31.9	32.3	31.0	32.8
Surrogate_Spike3	ug/L	1.00	100.	.490	26.7	28.4	27.1	26.8	26.7

### Certificate of Results

Sample integrity certified prior to analysis. Test results meet all requirements of the NELAC Standards, except as noted in the QA Report Section 4. This Report may not be reproduced in part, results relate only to items tested.

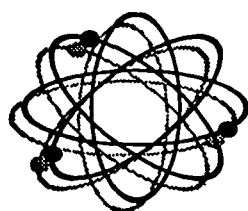
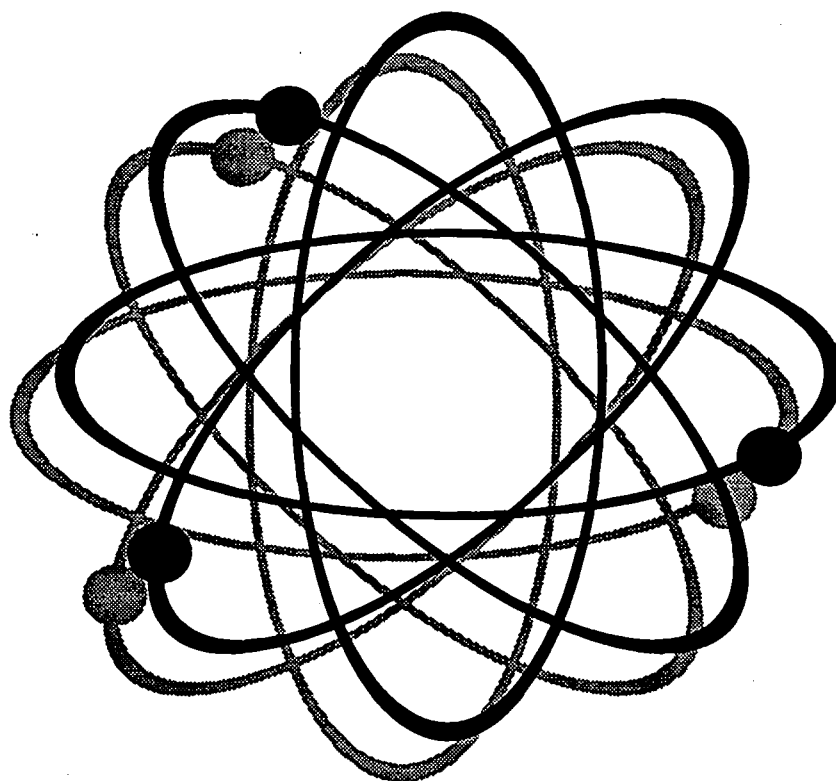
  
\_\_\_\_\_  
Jefferson S. Flowers, Ph.D.  
President/Technical Director

# Quality Assurance Report

---

Prepared for: Pasco Co. Utilities Env. Lab  
Project Number: 14-WP CL-III Landfi  
Lab Numbers: 13226 - 13230

Report date: 30-Jul-01



**FLOWERS  
CHEMICAL  
LABORATORIES**

---

**QA  
SDG Narrative  
Summary**

Client: Pasco Co. Utilities Env. Lab  
Project Number: 14-WP CL-III Landfi  
P.O. Number: WPCL III GWM Q III2001  
Date Sampled: 17-Jul-01  
Lab Numbers: 13226 - 13230

---

**Sample Handling**

Sample handling and holding time criteria were met for all samples.

Samples Collected by Submitter. No unusual events occurred during analysis.

**Surrogate Compound Recoveries:**

The recovery limits were exceeded for 4 samples as shown in section 1. This represents a 73.3% success rate.

Surrogate exceedences are attributed to matrix interferences.

**Accuracy / Precision:**

The recovery limits were met for all compounds in the matrix spike as shown in section 2.

The recovery limits were met for all compounds in the matrix spike duplicate as shown in section 2.

The RSD was met for all compounds as shown in section 2.

**Method Blanks:**

No target compounds were found in the method blank in excess of the method limit as shown in section 3.

**LCS Check Sample:**

The control limits were exceeded for 2 compounds as shown in section 4. This represents a 97.5% success rate.

**Standards Traceability:**

The t-test limits were exceeded for 1 calibration standard as shown in section 5. This represents a 93.3% success rate.

The t-test limits were met for all LCS standards as shown in section 5.

The t-test limits were met for all matrix spike standards as shown in section 5.

The t-test limits were met for all surrogate spike standards as shown in section 5.



# PASCO COUNTY, FLORIDA

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

DHRS # 44237, E44123  
 CompQAP # 870167G

## REPORT OF ANALYSES

CLASS III LANDFILL  
 HAYS ROAD  
 SHADY HILLS, FL 34610-  
 Attn: VINCENT MANNELLA

PROJECT NAME: WP CL-III GWM  
 DATE: 09/17/01

SAMPLE NUMBER- 107134 SAMPLE ID- 4MW-3A SAMPLE MATRIX- WW  
 DATE SAMPLED- 07/17/01 TIME SAMPLED- 1300  
 DATE RECEIVED- 07/17/01 SAMPLER- CHRIS CHILDRESS RECEIVED BY- IF  
 TIME RECEIVED- 1630 DELIVERED BY- CHRIS CHILDRESS TYPE SAMPLE- Pumped

Page 1 of 6

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS			RESULT UNITS	DQ
		DATE	BY	DATE	TIME	BY		
WATER LEVEL	FIELD			07/17/01	1300	CSC	22.40 FEET	
FIELD PH	SM4500-H+B			07/17/01	1300	CSC	7.31 STD. UNITS	
FIELD TEMPERATURE	SM2550B			07/17/01	1300	CSC	24.67 DEGREES C	
FIELD CONDUCTIVITY	SM2510B			07/17/01	1300	CSC	351 umhos/cm	
DISSOLVED OXYGEN, FIELD	SM4500-O G			07/17/01	1300	CSC	0.80 mg/L	
FIELD TURBIDITY	SM 2130 B			07/17/01	1300	CHR	1.7 NTU	
STATIC WATER LEVEL	FIELD			07/17/01	1300	CSC	31.60 FT TO WL	
COLOR BY OBSERVATION	VISUAL			07/17/01	1300	CSC	CLEAR	
SHEENS BY OBSERVATION IN FIELD	OBSERVE			07/17/01	1300	CSC	NONE	
ALKALINITY, BICARB.	SM2320B			07/19/01	1700	JKH	153 mg/l	
TOT. ORGANIC CARBON	SM 5310			07/18/01	1100	IF	2.09 mg/L	
CHLORIDE	SM4500CL E			07/30/01	1100	JKH	17.5 mg/L	
COLOR	SM 2120B			07/17/01	1705	JKH	10 PCU	
FECAL COLIFORM MF	SM9222D			07/17/01	1635	AS	<1 MF/100 ml	
AMMONIA NITROGEN	SM4500NH3H			07/27/01	1100	IF	0.95 mg/L	
UN-IONIZED AMMONIA N	DEP SOP			09/14/01	1000	CEM	<0.02 mg/L	
NITRATE	SM4500NO3F			07/18/01	1100	IF	<0.11 mg/L	
TOTAL DISS. SOLIDS	SM2540C			07/18/01	1500	JKH	220 mg/L	
SULFATE	EPA375.4			07/24/01	1100	JKH	<1 mg/L	
IRON, TOTAL	SM3113B	07/30/01	ter	08/02/01	0935	TER	0.21 mg/L	
MERCURY, TOTAL	SM3112B			08/01/01	1035	TER	<0.0005 mg/L	



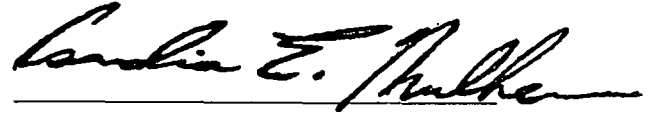
# PASCO COUNTY, FLORIDA

Page 2 of 6

CONTINUATION OF DATA FOR SAMPLE NUMBER 107134

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS			RESULT UNITS	DQ
		DATE	BY	DATE	TIME	BY		
SODIUM, TOTAL	SM3111B	07/30/01	ter	08/03/01	1000	TER	5.83 mg/L	

LABORATORY DIRECTOR







# PASCO COUNTY, FLORIDA

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

DHRS # 44237, E44123  
 CompQAP # 870167G

## REPORT OF ANALYSES

CLASS III LANDFILL  
 HAYS ROAD  
 SHADY HILLS, FL 34610-  
 Attn: VINCENT MANNELLA

PROJECT NAME: WP CL-III GWM  
 DATE: 09/17/01

SAMPLE NUMBER- 107135 SAMPLE ID- 4MW-8 SAMPLE MATRIX- WW  
 DATE SAMPLED- 07/17/01 TIME SAMPLED- 1500  
 DATE RECEIVED- 07/17/01 SAMPLER- CHRIS CHILDRESS RECEIVED BY- IF  
 TIME RECEIVED- 1630 DELIVERED BY- CHRIS CHILDRESS TYPE SAMPLE- Pumped

Page 3 of 6

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS			RESULT UNITS	DQ
		DATE	BY	DATE	TIME	BY		
WATER LEVEL	FIELD			07/17/01	1500	CSC	24.28 FEET	
FIELD PH	SM4500-H+B			07/17/01	1500	CSC	7.35 STD. UNITS	
FIELD TEMPERATURE	SM2550B			07/17/01	1500	CSC	24.55 DEGREES C	
FIELD CONDUCTIVITY	SM2510B			07/17/01	1500	CSC	317 umhos/cm	
DISSOLVED OXYGEN, FIELD	SM4500-O G			07/17/01	1500	CSC	0.90 mg/L	
FIELD TURBIDITY	SM 2130 B			07/17/01	1500	CHR	0.9 NTU	
STATIC WATER LEVEL	FIELD			07/17/01	1500	CSC	27.22 FT TO WL	
COLOR BY OBSERVATION	VISUAL			07/17/01	1500	CSC	CLEAR	
SHEENS BY OBSERVATION IN FIELD	OBSERVE			07/17/01	1500	CSC	NONE	
ALKALINITY, BICARB.	SM2320B			07/19/01	1700	JKH	155 mg/l	
TOT.ORGANIC CARBON	SM 5310			07/18/01	1100	IF	1.85 mg/L	
CHLORIDE	SM4500CL E			07/30/01	1100	JKH	6.77 mg/L	
COLOR	SM 2120B			07/17/01	1705	JKH	10 PCU	
FECAL COLIFORM MF	SM9222D			07/17/01	1635	AS	<1 MF/100 ml	
AMMONIA NITROGEN	SM4500NH3H			07/27/01	1100	IF	0.47 mg/L	
UN-IONIZED AMMONIA N	DEP SOP			09/14/01	1000	CEM	<0.02 mg/L	
NITRATE	SM4500NO3F			07/18/01	1100	IF	<0.11 mg/L	
TOTAL DISS.SOLIDS	SM2540C			07/18/01	1500	JKH	194 mg/L	
SULFATE	EPA375.4			07/24/01	1100	JKH	<1 mg/L	
IRON, TOTAL	SM3113B	07/30/01	ter	08/02/01	0935	TER	0.03 mg/L	
MERCURY, TOTAL	SM3112B			08/01/01	1035	TER	<0.0005 mg/L	



# PASCO COUNTY, FLORIDA

Page 4 of 6

CONTINUATION OF DATA FOR SAMPLE NUMBER 107135

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		RESULT UNITS	DQ
		DATE	BY	DATE	TIME		
SODIUM, TOTAL	SM3111B	07/30/01	ter	08/03/01	1000 TER	3.57 mg/L	

LABORATORY DIRECTOR

A handwritten signature in black ink, which appears to read "Candia E. Pulcher". The signature is written in a cursive style and is positioned above a horizontal line.



# PASCO COUNTY, FLORIDA

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

DHRS # 44237, E44123  
 CompQAP # 870167G

## REPORT OF ANALYSES

CLASS III LANDFILL  
 HAYS ROAD  
 SHADY HILLS, FL 34610-  
 Attn: VINCENT MANNELLA

PROJECT NAME: WP CL-III GWM  
 DATE: 09/17/01

SAMPLE NUMBER- 107136    SAMPLE ID- 4MW-9    SAMPLE MATRIX- WW  
 DATE SAMPLED- 07/17/01    TIME SAMPLED- 1400  
 DATE RECEIVED- 07/17/01    SAMPLER- CHRIS CHILDRESS    RECEIVED BY- IF  
 TIME RECEIVED- 1630    DELIVERED BY- CHRIS CHILDRESS    TYPE SAMPLE- Pumped

Page 5 of 6

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS			RESULT UNITS	DQ
		DATE	BY	DATE	TIME	BY		
WATER LEVEL	FIELD			07/17/01	1400	CSC	22.31 FEET	
FIELD PH	SM4500-H+B			07/17/01	1400	CSC	6.96 STD. UNITS	
FIELD TEMPERATURE	SM2550B			07/17/01	1400	CSC	24.90 DEGREES C	
FIELD CONDUCTIVITY	SM2510B			07/17/01	1400	CSC	469 umhos/cm	
DISSOLVED OXYGEN, FIELD	SM4500-O G			07/17/01	1400	CSC	0.80 mg/L	
FIELD TURBIDITY	SM 2130 B			07/17/01	1400	CHR	2.4 NTU	
STATIC WATER LEVEL	FIELD			07/17/01	1400	CSC	29.57 FT TO WL	
COLOR BY OBSERVATION	VISUAL			07/17/01	1400	CSC	CLEAR	
SHEENS BY OBSERVATION IN FIELD	OBSERVE			07/17/01	1400	CSC	NONE	
ALKALINITY, BICARB.	SM2320B			07/19/01	1700	JKH	208 mg/l	
TOT.ORGANIC CARBON	SM 5310			07/18/01	1100	IF	3.35 mg/L	
CHLORIDE	SM4500CL E			07/30/01	1100	JKH	11.8 mg/L	
COLOR	SM 2120B			07/17/01	1705	JKH	10 PCU	
FECAL COLIFORM MF	SM9222D			07/17/01	1635	AS	<1 MF/100 ml	
AMMONIA NITROGEN	SM4500NH3H			07/27/01	1100	IF	0.75 mg/L	
UN-IONIZED AMMONIA N	DEP SOP			09/14/01	1000	CEM	<0.02 mg/L	
NITRATE	SM4500NO3F			07/18/01	1100	IF	3.21 mg/L	
TOTAL DISS.SOLIDS	SM2540C			07/18/01	1500	JKH	404 mg/L	
SULFATE	EPA375.4			07/24/01	1100	JKH	<1 mg/L	
IRON, TOTAL	SM3113B	07/30/01	ter	08/02/01	0935	TER	0.04 mg/L	
MERCURY, TOTAL	SM3112B			08/01/01	1035	TER	<0.0005 mg/L	



# PASCO COUNTY, FLORIDA

Page 6 of 6

CONTINUATION OF DATA FOR SAMPLE NUMBER 107136

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS			RESULT UNITS	DQ
		DATE	BY	DATE	TIME	BY		
SODIUM, TOTAL	SM3111B	07/30/01	ter	08/03/01	1000	TER	4.95 mg/L	

LABORATORY DIRECTOR



# PASCO COUNTY, FLORIDA

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

DHRS # 44237, E44123  
 CompQAP # 870167G

QC REPORT FOR CLASS III LANDFILL 09/17/2001

QA/QC for SAMPLE Nos: 107134, 107135, 107136,

Page 1

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
ALKALINITY, BICARB. SM2320B mg/l	107138	113	114	1.0	0.88	97.10	STD	100	97	97.60
TOT. ORGANIC CARBON SM 5310 mg/L	-----	-----	-----	-----	-----	-----	TOC STD	10.000	10.090	100.90
CHLORIDE SM4500CL E mg/L	107136 107176 107230 107283	11.8 443	12.2 486	0.40 43	3.33 9.26	----- ----- 101.20 -----	STD STD ----- -----	80.0 80.0	80.8 79.9	101.00 99.80
COLOR SM 2120B PCU	107136	10	10	0	0.00	-----	STD	50	50	100.00
FECAL COLIFORM MF SM9222D MF/100 ml	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
AMMONIA NITROGEN SM4500NH3H mg/L	-----	-----	-----	-----	-----	-----	NH3 STD	1.200	1.163	96.92



# PASCO COUNTY, FLORIDA

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

DHRS # 44237, E44123  
 CompQAP # 870167G

QC REPORT FOR CLASS III LANDFILL 09/17/2001

QA/QC for SAMPLE Nos: 107134, 107135, 107136,

Page 2

Analyte	LAB ID	Precision Data				Accuracy Data		Reference Sample Data		
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
UN-IONIZED AMMONIA N DEP SOP mg/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
NITRATE SM4500NO3F mg/L	106985 107028	6.32	6.28	0.040	0.63	101.25	NO3 STD	4.000	4.170	104.25
TOTAL DISS. SOLIDS SM2540C mg/L	107028	664	692	28	4.13	-----	std	293	290	98.60
SULFATE EPA375.4 mg/L	106992 107023	53.0	53.5	0.50	0.94	----- 98.50	STD	20.0	19.2	96.40
IRON, TOTAL SM3113B mg/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
MERCURY, TOTAL SM3112B mg/L	106653	<0.0005	<0.0005	0.00025	0.00	102.80	-----	-----	-----	-----



# PASCO COUNTY, FLORIDA

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

DHRS # 44237, E44123  
 CompQAP # 870167G

QC REPORT FOR CLASS III LANDFILL 09/17/2001

QA/QC for SAMPLE Nos: 107134, 107135, 107136,

Page 3

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD ‰	‡ Spike Recovery	Reference Sample ID	Target	Found	‡ Recovery
SODIUM, TOTAL SM3111B mg/L	107686	6.15	6.34	0.19	3.04	102.90				