



**Enviro-Audit & Compliance, Inc.**  
*Providing Environmental Compliance Solutions Since 1987*

September 30, 2003

Mr. Rob Wright  
Sarasota County  
Air & Water Quality Protection Division  
2817 Cattlemen Road  
Sarasota, Florida 34232

**FILE COPY**

RE: Lakewood Ranch Corporate Park F/K/A University Place  
Wet Season Water Quality Monitoring Report

Dear Mr. Wright:

Enviro-Audit & Compliance, Inc. (EAC) has completed the semi-annual Water Quality Monitoring the Wet Season event at the Lakewood Ranch Corporate Park Development to meet the requirements as defined in the University Place Development Order (UPDO).

Please do not hesitate to contact me if you have any questions regarding the report or if you require any additional information.

Respectfully,

Joe K. Buerhop, P.G.  
Division Manager

Enclosure

cc: Tim Martin, SMR Communities, Inc. w/enclosure  
John Ormando, City of Bradenton Public Works Department w/enclosure  
Diane Chadwick, WilsonMiller w/enclosure

H:\SMR\Corporate Park\Wet Season\2003\Transmittal ltr to County.doc

**WATER QUALITY MONITORING  
LAKEWOOD RANCH CORPORATE PARK  
SARASOTA, FLORIDA**

**2003 WET SEASON MONITORING EVENT**

**Prepared for:**

**SMR Communities**

**Prepared by:**

*Enviro-Audit & Compliance, Inc.  
429 10<sup>th</sup> Avenue West  
Palmetto, Florida 34221  
(941) 722-0367*



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**Lakewood Ranch Corporate Park Development  
Water Quality Monitoring  
2003 Wet Season Monitoring Event**

**1.0 INTRODUCTION**

On August 26, 27 & 28, 2003, Enviro-Audit & Compliance, Inc. (EAC) performed semi-annual water quality monitoring at Lakewood Ranch Corporate Park Development in order to meet the requirements as defined in the University Place Development Order (UPDO) for the construction and post-construction phases of development. This report represents the Wet Season Monitoring Event performed during the construction activities.

**1.1 MONITORING STATION-LOCATIONS**

The surface water and surficial groundwater monitoring stations (monitoring wells) for the water quality monitoring program are identified in Figure 1. A total of six monitoring well stations and seven surface water stations are shown in Figure 1. However, monitor well MW-3 was removed on January 22, 2001 as the result of construction activities; therefore, only five groundwater locations were sampled.

**1.2 WATER QUALITY SAMPLING / ANALYTICAL METHODS**

The groundwater and surface water quality samples were collected by EAC. Field measurements were also performed by EAC. Laboratory analyses of the samples were performed by US Biosystems, Inc., in Boca Raton, Florida.

**2.0 GROUNDWATER SAMPLING EVENTS**

On August 27 & 28, 2003, EAC collected groundwater samples at five monitoring well locations, shown in Figure 1. The wells were purged, via peristaltic pump, of five volumes and samples collected in laboratory-supplied containers, preserved on ice, and transferred to a US Biosystems courier under chain of custody. An equipment blank was also collected for quality assurance/quality control (QA/QC) purposes.

Field measurements of temperature, turbidity, dissolved oxygen, conductivity, and pH were recorded during the sample collection events.

## **2.1 GROUNDWATER ANALYTICAL RESULTS**

A summary table of the field and laboratory analytical results for the groundwater samples is presented in Table 1, Appendix A. Copies of US Biosystems, Inc. analytical reports for the five monitoring well locations are provided in Appendix B.

No regulatory groundwater standards were exceeded.

## **3.0 SURFACE WATER SAMPLING EVENTS**

On August 26 & 27, 2003, EAC collected six surface water samples from stations SW-1, SW-2, SW-3, SW-5, SW-6, and SW-7. An equipment blank was also collected for quality assurance/quality control (QA/QC) purposes. The remaining surface water station, SW-4, was not sampled due to no flow, low water conditions.

Field measurements of temperature, turbidity, dissolved oxygen, pH, and conductivity were recorded during the collection events. Immediately upon collection, the sample containers for laboratory analyses were preserved on ice and transferred to a US Biosystems courier under chain of custody.

### **3.1 SURFACE WATER FIELD AND LABORATORY ANALYTICAL RESULTS**

A summary table of the surface water field and laboratory analytical results is included in Table 2, in Appendix A. Copies of US Biosystems, Inc. surface water analytical reports are provided in Appendix B.

The laboratory results for SW-6 indicate that the Class III surface water quality standard for total coliform was exceeded with a result of 4,600 colonies per 100 milliliters. No other Class III surface water quality standards were exceeded.

## **4.0 WATER LEVEL & FLOW MEASUREMENTS**

Prior to sample collection, water level measurements were recorded at each monitoring well. A hand-held chalked tape was used to record below top of casing groundwater levels. The measurements were subtracted from the top of casing (TOC) elevations to calculate the groundwater elevations. The results are summarized in Table 3, in Appendix A.

Staff gauge measurements were recorded at SW-1, SW-2, SW-3, SW-5, and SW-7 and are shown in Table 3. Staff gauge readings were not recorded at SW-4 due to

heavy vegetative overgrowth and at SW-6 due to damage to the gauge. Flow measurements were not taken at any station due to flow conditions being below instrument detection limits.

## 5.0 WATER QUALITY DATA REVIEW & CONCLUSIONS

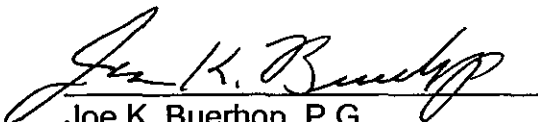
The results of the wet season groundwater quality monitoring show that the groundwater monitoring stations did not exceed any groundwater quality standards.

The result of the wet season surface water quality results show that the surface water conditions at the monitoring stations did not exceed any surface water quality standards except for total coliform at monitoring station SW-6.

The semi-annual, dry season sampling event is scheduled to be performed in December 2003.

Prepared by:

Sept. 30, 2003  
Date

  
Joe K. Buerhop, P.G.  
Division Manager

APPENDIX A

*Figures & Tables*



**Summary Table 1**  
**Lakewood Ranch Corporate Park**  
**Groundwater Results**  
**Wet Season Semi-Annual Water Quality Monitoring**  
**Date Collected - August 2003**

Parameters	MW-1	MW-2	MW-4	MW-5	MW-6	Standards
Turbidity (NTU)	68.1	148	238	96	139	-
Dissolved Oxygen (mg/L)	3.4	2.9	4.1	3.1	3.8	-
Temperature (C)	28.5	27.8	30.1	28.2	27.8	-
pH (standard units)	6.9	7.1	7.1	7.1	5.1	-
Conductivity (umhos/cm)	604	715	478	471	422	-
Total Dissolved Solids (mg/L)	420	460	340	77	91	500
Nitrogen, Total (TKN+NO <sub>2</sub> +3-N) (mg/L)	1.1	1.9	1.3	<0.50	2.4	-
Nitrate & Nitrate - N (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	10
Arsenic (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	50
Chromium (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	0.0057	100
Lead (mg/L)	<0.0050	<0.0050	0.0054	<0.0050	<0.0050	15
Total Kjeldahl Nitrogen (mg/L)	1.1	1.9	1.3	<0.40	2.4	-
Total Ammonia, as N (mg/L)	0.24	1.0	0.20	<0.020	0.26	-
Orthophosphate, as P (mg/L)	<0.25	<0.25	<0.25	<0.25	<0.25	-
Total Phosphorus as P (mg/L)	0.067	0.89	0.24	0.096	0.17	-
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0	<4.0	-

NOTES:

**Summary Table 2**  
**Lakewood Ranch Corporate Park**  
**Surface Water Results**  
**Wet Season Semi-Annual Water Quality Monitoring**  
**Date Collected - August 2003**

Parameters	SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	Standard
Turbidity (NTU)	9.6	11.4	11.6	NF	2.6	2.8	3.7	<29
Dissolved Oxygen (mg/L)	5.6	5.1	4.2	NF	4.9	4.5	5.4	>5
Temperature (C)	29.6	29.4	28.7	NF	29.1	29.2	31.6	-
pH (standard units)	7.7	7.6	7.9	NF	7.8	8	7.9	6.0-8.5
Conductivity (umhos/cm)	585	602	603	NF	471	446	90.6	<1275
BOD, 5- Day (mg/L)	2.9 <sup>C4</sup>	<2.0	<2.0	NF	2.8 <sup>C4</sup>	3.4 <sup>C4</sup>	2.7	*
Total Suspended Solids (mg/L)	5	7	4.7	NF	<4.0	24	<4.0	<1000
Fecal Coliform (col/100mL)	100	220	260	NF	10	8	1.0	<800
Total Coliform (col/100mL)	1600	300	1400	NF	410	4600	150	<2400
Nitrogen, Total (TKN+N02+3-N) (mg/L)	1.161	1.251	1.2	NF	0.72	0.84	0.69	-
Nitrate (mg/L)	0.061	<0.050	<0.050	NF	<0.050	<0.050	<0.050	-
Nitrite (mg/L)	<0.050	0.051	<0.050	NF	<0.050	<0.050	<0.050	-
Hardness (mg/L)	160	130	140	NF	150	140	24	-
Nitrate & Nitrite - N (mg/L)	<0.10	0.1	<0.10	NF	<0.10	<0.10	<0.10	-
Total Kjeldahl Nitrogen (mg/L)	1.1	1.2	1.2	NF	0.72	0.84	0.69	-
Total Ammonia, as N (mg/L)	0.054	0.021	0.031	NF	<0.020	<0.020	<0.020	-
Orthophosphate, as P (mg/L)	<0.25	0.36	0.27	NF	<0.25	<0.25	<0.25	-
Total Phosphorus, as P (mg/L)	0.54	0.68	0.71	NF	0.33	0.16	<0.010	5
Oil & Grease (mg/L)	<4.0	<4.3	<4.0	NF	<4.0	<4.0	<4.0	<5
Copper (mg/L)	<0.0029	<0.0029	<0.0029	NF	<0.0029	<0.0029	<0.0029	**
Zinc (mg/L)	0.033	<0.020	0.072	NF	0.03	0.09	<0.020	**

NOTES:

\*\* - Dependant upon hardness

NF - No Flow

\* - Refer to rule (Chptr 62-302) for special conditions

<sup>C4</sup> - Laboratory Code-Matrix Interference

**Summary Table 3  
Lakewood Ranch Corporate Park  
Water Elevation and Flow Measurements  
Wet Season Semi-Annual Water Quality Monitoring  
Date Collected - August 2003**

<i>Station ID Number</i>	<i>Top of Casing</i>	<i>Water Level Measurements</i>	<i>Net Elevations</i>	<i>Flow Measurements (MGD)</i>
SG-1		-	24.27	BDL
SG-2		-	25.42	BDL
SG-3		-	26.38	BDL
SG-4		-	N/A	NF
SG-5		-	25.80	BDL
SG-6		-	N/A	BDL
SG-7		-	30.16	BDL
MW-1	30.50	4.06	26.44	
MW-2	31.12	5.33	25.79	
MW-4	32.59	3.69	28.90	
MW-5	32.93	3.84	29.09	
MW-6	34.05	5.71	28.34	

**NOTES:**

- All elevations are National Geodetic Vertical Datum of 1929 (N.G.V.D. 1929)
- All measurements are in feet, unless otherwise noted
- BDL - Below instrument recording limit.
- NF - No Flow
- N/A - Not Available
- MGD - Million Gallons per Day
- \* Lake Osprey, No Flow.

APPENDIX B

*Laboratory Reports &  
Field Data Sheets*

RECEIVED

SEP 10 2003

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 09/05/2003  
 Log #: L80393-1

**Sample Description:**

Lakewood Ranch Corporate Park

**Analytical Report: SW-1**

Date Sampled: 08/27/03  
 Time Sampled: 11:00  
 Date Received: 08/27/03 14:25  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.0029	08/29 12:25	09/03 13:46	LL
Calcium Hardness	120	mg/l	SM2340B	0.18	08/29 12:25	09/03 13:46	LL
Magnesium Hardness	42	mg/l	SM2340B	0.40	08/29 12:25	09/03 13:46	LL
Total Hardness	160	mg/l	SM2340B	0.58	08/29 12:25	09/03 13:46	LL
Zinc	0.033	mg/l	3010/6010	0.020	08/29 12:25	09/03 13:46	LL
<b>Bacteriological</b>							
Fecal Coliform	100	cfu/100ml	SM9222D	1	08/27 16:30	08/28 16:30	SUB
Total Coliform	1600	cfu/100ml	SM9222B	1	08/27 16:20	08/28 16:20	SUB
<b>Inorganics/Other</b>							
BOD	2.9 C4	mg/L	405.1	2.0	08/28 18:30	09/02 14:00	MA
<b>General Chemistry</b>							
Ammonia as N	0.054	mg/l	350.1	0.020	09/03 14:59	09/03 14:59	MG
NO3 as N	0.061	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/28 10:50	08/28 10:50	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/28 10:50	08/28 10:50	MG
Oil/Grease	BDL	mg/l	1664	4.0	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	0.54	mg/l	365.1	0.010	09/03 17:00	09/04 16:23	EF
Total Kjeldahl Nitrogen as Nitrogen, Total as N	1.1	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
	1.161	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH
Total Suspended Solids	5.0	mg/l	160.2	4.0	09/02 10:00	09/02 10:00	VP

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 09/05/2003  
Log #: L80393-1

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-1  
Date Sampled: 08/27/03  
Time Sampled: 11:00  
Date Received: 08/27/03 14:25  
Collected By: Client

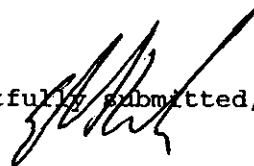
Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

Analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
DEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
DEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
DEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

DP# 980126	DOH# E86240	NC CERT# 444
ADH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
CERT# 96031001	TN CERT# 02985	
ACE	GA CERT# 917	
CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,



Steve Walton  
Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 09/05/2003  
 Log #: L80393-2

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-5  
 Date Sampled: 08/27/03  
 Time Sampled: 10:30  
 Date Received: 08/27/03 14:25  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.0029	08/29 12:25	09/03 13:50	LL
Calcium Hardness	130	mg/l	SM2340B	0.18	08/29 12:25	09/03 13:50	LL
Magnesium Hardness	21	mg/l	SM2340B	0.40	08/29 12:25	09/03 13:50	LL
Total Hardness	150	mg/l	SM2340B	0.58	08/29 12:25	09/03 13:50	LL
Zinc	0.030	mg/l	3010/6010	0.020	08/29 12:25	09/03 13:50	LL
<b>Bacteriological</b>							
Fecal Coliform	10	cfu/100ml	SM9222D	1	08/27 16:30	08/28 16:30	SUB
Total Coliform	410	cfu/100ml	SM9222B	1	08/27 16:20	08/28 16:20	SUB
<b>Inorganics/Other</b>							
BOD	2.8 C4	mg/L	405.1	2.0	08/28 18:30	09/02 14:00	MA
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	09/03 14:59	09/03 14:59	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/28 10:50	08/28 10:50	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/28 10:50	08/28 10:50	MG
Oil/Grease	BDL	mg/l	1664	4.0	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	0.33	mg/l	365.1	0.010	09/03 17:00	09/04 16:23	EF
Total Kjeldahl Nitrogen as	0.72	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
Nitrogen, Total as N	0.72	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH
Total Suspended Solids	BDL	mg/l	160.2	4.0	09/02 10:00	09/02 10:00	VP

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-5

Date Sampled: 08/27/03

Time Sampled: 10:30

Date Received: 08/27/03 14:25

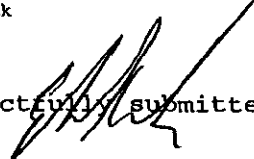
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

1 analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 ags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 ags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 DEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 DEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 DEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

P# 980126	DOH# E86240	NC CERT# 444
B DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
CERT# 96031001	TN CERT# 02985	
FACE	GA CERT# 917	
CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,  
  
 Steve Walton  
 Client Technical Svcs. Manager



Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 09/05/2003  
 Log #: L80393-3

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-6

Date Sampled: 08/27/03  
 Time Sampled: 11:30  
 Date Received: 08/27/03 14:25  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.0029	08/29 12:25	09/03 13:54	LL
Calcium Hardness	120	mg/l	SM2340B	0.18	08/29 12:25	09/03 13:54	LL
Magnesium Hardness	20	mg/l	SM2340B	0.40	08/29 12:25	09/03 13:54	LL
Total Hardness	140	mg/l	SM2340B	0.58	08/29 12:25	09/03 13:54	LL
Zinc	0.090	mg/l	3010/6010	0.020	08/29 12:25	09/03 13:54	LL
<b>Bacteriological</b>							
Fecal Coliform	8.0	cfu/100ml	SM9222D	1	08/27 16:30	08/28 16:30	SUB
Total Coliform	4600	cfu/100ml	SM9222B	1	08/27 16:20	08/28 16:20	SUB
<b>Inorganics/Other</b>							
BOD	3.4 C4	mg/L	405.1	2.0	08/28 18:30	09/02 14:00	MA
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	09/03 14:59	09/03 14:59	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/28 10:50	08/28 10:50	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/28 10:50	08/28 10:50	MG
Oil/Grease	BDL	mg/l	1664	4.0	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	0.16	mg/l	365.1	0.010	09/03 17:00	09/04 16:23	EF
Total Kjeldahl Nitrogen as Nitrogen, Total as N	0.84	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
	0.84	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH
Total Suspended Solids	24	mg/l	160.2	4.0	09/02 10:00	09/02 10:00	VP

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 2 of 2  
 Date: 09/05/2003  
 Log #: L80393-3

Sample Description:  
 Lakewood Ranch Corporate Park

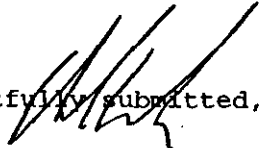
Analytical Report: SW-6  
 Date Sampled: 08/27/03  
 Time Sampled: 11:30  
 Date Received: 08/27/03 14:25  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 S: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 N: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 P Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 Q Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 R Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

NC 980126	DOH# E86240	NC CERT# 444
DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
CERT# 96031001	TN CERT# 02985	
CE	GA CERT# 917	
CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,  
  
 Steve Walton  
 Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 09/05/2003  
 Log #: L80393-4

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: Equipment Blank  
 Date Sampled: 08/27/03  
 Time Sampled: 12:00  
 Date Received: 08/27/03 14:25  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84569		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.0029	08/29 00:00	09/03 00:00	LL/
Calcium Hardness	BDL	mg/l	SM2340B	0.18	08/29 00:00	09/03 00:00	LL/
Magnesium Hardness	BDL	mg/l	SM2340B	0.40	08/29 00:00	09/03 00:00	LL/
Total Hardness	BDL	mg/l	SM2340B	0.58	08/29 00:00	09/03 00:00	LL/
Zinc	BDL	mg/l	3010/6010	0.020	08/29 00:00	09/03 00:00	LL/
<b>Bacteriological</b>							
Fecal Coliform	BDL	cfu/100ml	SM9222D	1	08/27 16:30	08/28 16:30	SUB
Total Coliform	BDL	cfu/100ml	SM9222B	1	08/27 16:20	08/28 16:20	SUB
<b>Inorganics/Other</b>							
BOD	BDL C4	mg/L	405.1	2.0	08/28 18:30	09/02 14:00	MA
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	09/03 14:59	09/03 14:59	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/28 10:50	08/28 10:50	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/28 10:50	08/28 10:50	MG
Oil/Grease	BDL	mg/l	1664	4.0	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	BDL	mg/l	365.1	0.010	09/03 17:00	09/04 16:23	EF
Total Kjeldahl Nitrogen as	BDL	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
Nitrogen, Total as N	BDL	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH
Total Suspended Solids	BDL	mg/l	160.2	4.0	09/02 10:00	09/02 10:00	VP

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 09/05/2003  
Log #: L80393-4

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: Equipment Blank

Date Sampled: 08/27/03

Time Sampled: 12:00

Date Received: 08/27/03 14:25

Collected By: Client

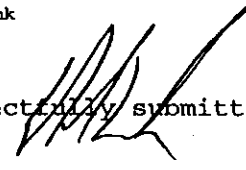
Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
DEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
DEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
DEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

AP# 980126	DOH# E86240	NC CERT# 444
AB DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
CERT# 96031001	TN CERT# 02985	
FACE	GA CERT# 917	
CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,

  
Steve Walton  
Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 09/05/2003  
 Log #: L80393-5

Sample Description:  
 Oakwood Ranch Corporate Park

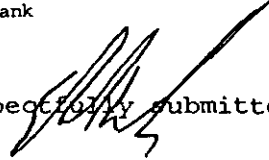
Analytical Report: MW-5  
 Date Sampled: 08/27/03  
 Time Sampled: 12:30  
 Date Received: 08/27/03 14:25  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Trace Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	08/29 12:25	09/03 13:59	LL
Chromium	BDL	mg/l	3010/6010	0.0050	08/29 12:25	09/03 13:59	LL
Lead	BDL	mg/l	3010/6010	0.0050	08/29 12:25	09/03 13:59	LL
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	09/03 14:59	09/03 14:59	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/28 10:50	08/28 10:50	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/28 10:50	08/28 10:50	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/28 10:50	08/28 10:50	MG
Oil/Grease	BDL	mg/l	1664	4.0	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	0.096	mg/l	365.1	0.010	09/03 17:00	09/04 16:23	EF
Total Dissolved Solids	77	mg/l	160.1	10	08/29 14:00	08/29 14:00	BG
Total Kjeldahl Nitrogen as	BDL	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
Nitrogen, Total as N	BDL	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH

Analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 EP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 EP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 EP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

# 980126 DOH# E86240 NC CERT# 444  
 DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020  
 CERT# 96031001 TN CERT# 02985  
 CE GA CERT# 917  
 CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,



Steve Walton  
 Client Technical Svcs. Manager

# USBIO SYSTEMS

Log # 80393/TNS

Quote: SHORT NOTICE

ON WET ICE? Temp   
 PROPER PRESERVATIVES indicated?   
 Received WITHIN HOLDING TIME?   
 CUSTODY SEALS INTACT?   
 VOLATILES rec'd W/OUT HEADSPACE?   
 PROPER CONTAINERS used?

Company Name ESC PALMETTO PO# 261048  
 Address PO BOX 337  
 City PALMETTO State FL Zip 34220  
 Attn: JOE BURKHOP Fax# 722-2948  
 Project Name LAKWOOD RANCH CORPORATE PARK  
 Sampler Name/Signature Alan Lai Hoip Phone# 722-0367

1	1	1	1	1	1	1	1	1	1	1
7			2	2	7	→	2	2	2	7
AF	SI	SI	CI	CI	AF	AF	CI	BI	CI	AF
BOD-5, TSS	COLORIM TOTAL	FECHL COLORIM	NUMEROUS (P2, P20) (TRK)	NH3	NITRATE	NITRITE	PHOSPHOROUS	HARDNESS Ca/Zn	OHG	DIBIPHENYLAMINE

### Matrix Codes\*

SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H <sub>2</sub> O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SU Surface Water	O Other

(Please Specify)

### Pres/Codes

A. None	G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
B. HNO <sub>3</sub>	H. NaHSO <sub>4</sub>
C. H <sub>2</sub> SO <sub>4</sub>	I. ICE
D. NaOH	J. MCAA
E. HCL	O. Other
F. MeOH	

②

### REMARKS

SELECT H<sub>2</sub>O ④ 1600 ① 300 ② 300  
 OAL  
 COLORIM = 6 H<sub>2</sub>O  
 DIBIPHENYL = 2 H<sub>2</sub>O  
 BOD = 48 H<sub>2</sub>O  
 NITRATE, NITRITE = 48 H<sub>2</sub>O

SURFACE WATER

Matrix	Code*	Sample #	Date	Time	Sampler	Notes
		01	8/27/03	1100	SU	8 VARIOUS
		02	1030			
		03	1130			
		04	1200			
		5				
		6				
		7				
		8				
		9				
		0				

STANDARD \_\_\_\_\_ SILICON \_\_\_\_\_ REPORT LEVEL: None  1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ OTHER Y N 113  
 Date required: X \_\_\_\_\_ N \_\_\_\_\_

Coolers #s	Item	Relinquished by	Date	Time	Signature	Date	Time
	1-4	Alan Lai Hoip	8/27/03	1425	M. Madern	8/27/03	1425
	1-4	M. Madern	8/27/03	1700	VE	8/27/03	1700
Bailers #					Kaayte Br	8/28/03	1250

3231 N.W. 7th Avenue  
 Boca Raton, FL 33431  
 888-862-LABS  
 561-447-7373  
 888-456-4846 Fax  
 561-447-6136 Fax  
 C.O.C. # 63352

Received ON WET ICE? Temp \_\_\_\_\_  
 PROPER PRESERVATIVES indicated? \_\_\_\_\_  
 Received WITHIN HOLDING TIME? \_\_\_\_\_  
 CUSTODY SEALS INTACT? \_\_\_\_\_  
 VOLATILES rec'd W/OUT HEADSPACE? \_\_\_\_\_  
 PROPER CONTAINERS used? \_\_\_\_\_

Company Name EAC PALMETTO PO# \_\_\_\_\_  
 Address PO BOX 337  
 City PALMETTO State FL Zip 34220  
 Attn: JOE BUEHLER Fax# \_\_\_\_\_  
 Project Name LAKEWOOD RANCH CORPORATE PARK Proj# \_\_\_\_\_  
 Sampler Name/Signature Alan L. Higgins Phone# 722-0367

**Matrix Codes\***

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H <sub>2</sub> O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SU	Surface Water	O	Other

(Please Specify)

**Pres/Codes**

A. None	G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
B. HNO <sub>3</sub>	H. NaHSO <sub>4</sub>
C. H <sub>2</sub> SO <sub>4</sub>	I. ICE
D. NaOH	J. MCAA
E. HCL	O. Other
F. MeOH	

NITRATES (NO <sub>3</sub> ) (TKN)	NH <sub>3</sub>	NITRATE	NITRITE	TKN	TDS	As, Cr, Pb	PHOSPHORUS	DIPHOSPHATE	OTHER
X	X	X	X	X	X	X	X	X	X

15  
8/27/03

Sample Label	Collect Date	Collect Time	Matrix	Sample Container
<u>MW-5</u>	<u>8/27/03</u>	<u>1230</u>	<u>GW</u>	<u>5</u>
<u>12</u>				
<u>13</u>				
<u>14</u>				
<u>15</u>				
<u>16</u>				
<u>17</u>				
<u>18</u>				
<u>19</u>				
<u>20</u>				

**REMARKS**

③ 16P ① 8P ① AC

STANDARD: Y RUSH: \_\_\_\_\_ DATE REQUIRED: Y X N \_\_\_\_\_ QA/QC Report Level: None  1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ Other: Y N 1WB Specific state certification required: \_\_\_\_\_

Coolers #'s	Item	Initials	Date	Time	Signature	Date	Time
	<u>1</u>	<u>Alan L. Higgins</u>	<u>8/27/03</u>	<u>1430</u>	<u>M. Madern</u>	<u>8/27/03</u>	<u>1430</u>
	<u>1</u>	<u>M. Madern</u>	<u>8/27/03</u>	<u>1700</u>	<u>VE</u>	<u>8/27/03</u>	<u>1700</u>
Bailers					<u>Kayt Ben</u>	<u>8/28/03</u>	<u>1250</u>

3231 N.W. 7th Avenue  
 Boca Raton, FL 33431  
 888-862-LABS  
 561-447-7373  
 888-456-4846 Fax  
 561-447-6136 Fax  
 C.O.C. # 63062

RECEIVED  
SEP 11 2003

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 1 of 2  
Date: 09/02/2003  
Log #: L80345-1

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-2

Date Sampled: 08/26/03

Time Sampled: 10:45

Date Received: 08/26/03 12:33

Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.0029	08/28 10:30	09/02 15:53	IG
Calcium Hardness	100	mg/l	SM2340B	0.18	08/28 10:30	09/02 15:53	IG
Magnesium Hardness	34	mg/l	SM2340B	0.40	08/28 10:30	09/02 15:53	IG
Total Hardness	130	mg/l	SM2340B	0.58	08/28 10:30	09/02 15:53	IG
Zinc	BDL	mg/l	3010/6010	0.020	08/28 10:30	09/02 15:53	IG
<b>Bacteriological</b>							
Fecal Coliform	220	cfu/100ml	SM9222D	1	08/26 15:30	08/27 15:30	SUB
Total Coliform	300	cfu/100ml	SM9222B	1	08/26 15:30	08/27 15:30	SUB
<b>Inorganics/Other</b>							
BOD	BDL	mg/L	405.1	2.0	08/27 13:20	09/01 12:00	MS
<b>General Chemistry</b>							
Ammonia as N	0.021	mg/l	350.1	0.020	08/27 15:37	08/27 15:37	MG
NO3 as N	0.051	mg/l	300.0	0.050	08/27 16:31	08/27 16:31	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/27 16:31	08/27 16:31	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/27 16:31	08/27 16:31	MG
Orthophosphate as P	0.36	mg/l	300.0	0.25	08/27 16:31	08/27 16:31	MG
Oil/Grease	BDL	mg/l	1664	4.3	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	0.68	mg/l	365.1	0.010	08/27 17:00	08/28 13:25	EF
Total Kjeldahl Nitrogen as	1.2	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
Nitrogen, Total as N	1.251	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH
Total Suspended Solids	7.0	mg/l	160.2	4.0	08/28 11:00	08/28 11:00	BG



Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 09/02/2003  
Log #: L80345-1

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-2  
Date Sampled: 08/26/03  
Time Sampled: 10:45  
Date Received: 08/26/03 12:33  
Collected By: Client

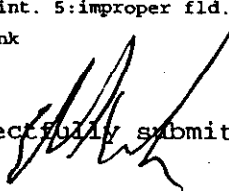
Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
DEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
DEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
DEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

DOH# 980126	DOH# E86240	NC CERT# 444
DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
CERT# 96031001	TN CERT# 02985	
GA CERT# 917		
USDA Soil Permit# S-35240		

Respectfully submitted,

  
Steve Walton  
Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 09/02/2003  
 Log #: L80345-2

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-3

Date Sampled: 08/26/03  
 Time Sampled: 11:00  
 Date Received: 08/26/03 12:33  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.0029	08/28 10:30	09/02 15:56	IG
Calcium Hardness	99	mg/l	SM2340B	0.18	08/28 10:30	09/02 15:56	IG
Magnesium Hardness	38	mg/l	SM2340B	0.40	08/28 10:30	09/02 15:56	IG
Total Hardness	140	mg/l	SM2340B	0.58	08/28 10:30	09/02 15:56	IG
Zinc	0.072	mg/l	3010/6010	0.020	08/28 10:30	09/02 15:56	IG
<b>Bacteriological</b>							
Fecal Coliform	260	cfu/100ml	SM9222D	1	08/26 15:30	08/27 15:30	SUB
Total Coliform	1400	cfu/100ml	SM9222B	1	08/26 15:30	08/27 15:30	SUB
<b>Inorganics/Other</b>							
BOD	BDL	mg/L	405.1	2.0	08/27 13:20	09/01 12:00	MS
<b>General Chemistry</b>							
Ammonia as N	0.031	mg/l	350.1	0.020	08/27 15:37	08/27 15:37	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/27 16:31	08/27 16:31	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/27 16:31	08/27 16:31	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/27 16:31	08/27 16:31	MG
Orthophosphate as P	0.27	mg/l	300.0	0.25	08/27 16:31	08/27 16:31	MG
Oil/Grease	BDL	mg/l	1664	4.0	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	0.71	mg/l	365.1	0.010	08/28 09:00	08/28 13:25	EF
Total Kjeldahl Nitrogen as Nitrogen, Total as N	1.2	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
	1.2	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH
Total Suspended Solids	4.7	mg/l	160.2	4.0	08/28 11:00	08/28 11:00	BG

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 09/02/2003  
Log #: L80345-2

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-3  
Date Sampled: 08/26/03  
Time Sampled: 11:00  
Date Received: 08/26/03 12:33  
Collected By: Client

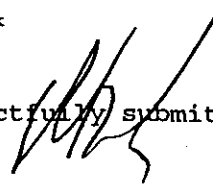
Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

Analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
EP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
EP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
EP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

# 980126	DOH# E86240	NC CERT# 444
DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
CERT# 96031001	TN CERT# 02985	
GA	GA CERT# 917	
CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,

  
Steve Walton  
Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 09/02/2003  
 Log #: L80345-3

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-7  
 Date Sampled: 08/26/03  
 Time Sampled: 11:30  
 Date Received: 08/26/03 12:33  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.0029	08/28 10:30	09/02 16:01	IG
Calcium Hardness	18	mg/l	SM2340B	0.18	08/28 10:30	09/02 16:01	IG
Magnesium Hardness	5.7	mg/l	SM2340B	0.40	08/28 10:30	09/02 16:01	IG
Total Hardness	24	mg/l	SM2340B	0.58	08/28 10:30	09/02 16:01	IG
Zinc	BDL	mg/l	3010/6010	0.020	08/28 10:30	09/02 16:01	IG
<b>Bacteriological</b>							
Fecal Coliform	1.0	cfu/100ml	SM9222D	1	08/26 15:30	08/27 15:30	SUB
Total Coliform	150	cfu/100ml	SM9222B	1	08/26 15:30	08/27 15:30	SUB
<b>Inorganics/Other</b>							
BOD	2.7	mg/L	405.1	2.0	08/27 13:20	09/01 12:00	MS
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	08/27 15:37	08/27 15:37	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/27 16:31	08/27 16:31	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/27 16:31	08/27 16:31	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/27 16:31	08/27 16:31	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/27 16:31	08/27 16:31	MG
Oil/Grease	BDL	mg/l	1664	4.0	08/28 10:30	08/28 10:30	VP
Total Phosphorus as P	BDL	mg/l	365.1	0.010	08/28 09:00	08/28 13:25	EF
Total Kjeldahl Nitrogen as	0.69	mg/l	351.2	0.40	08/29 08:00	08/29 13:20	EF
Nitrogen, Total as N	0.69	mg/l	Calc	0.50	09/02 13:41	09/02 13:41	HH
Total Suspended Solids	BDL	mg/l	160.2	4.0	08/28 11:00	08/28 11:00	BG

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 09/02/2003  
Log #: L80345-3

Sample Description:

Lakewood Ranch Corporate Park

Analytical Report: SW-7  
Date Sampled: 08/26/03  
Time Sampled: 11:30  
Date Received: 08/26/03 12:33  
Collected By: Client

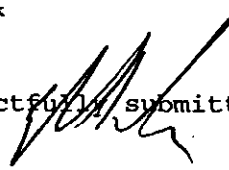
Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

Analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
EP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
EP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
EP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

# 980126	DOH# E86240	NC CERT# 444
DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
CERT# 96031001	TN CERT# 02985	
ICE	GA CERT# 917	
CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,

  
Steve Walton  
Client Technical Svcs. Manager

# USBIO SYSTEMS

Log # 80345/TN3

Quote: \_\_\_\_\_

## SHORT HOLD

Seals INTACT upon arrival?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
Received ON WET ICE? Temp _____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
PROPER PRESERVATIVES indicated?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
RECEIVED WITHIN HOLDING TIME?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
CUSTODY SEALS INTACT?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
PROPER CONTAINERS used?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>

Company Name EAC Palmetto PO# 261038  
 Address P.O. Box 337  
 City Palmetto State FL Zip 34220  
 Attn: Joe Bueshop Fax 941-722-2946  
 Project Name LaBrewer Ranch Corporate Park  
 Sampler Name/Signature Alan Lee Hipp Phone 941-722-0367

	1		1	1	1		1	1	1		
	7		2	2	7	→	2	2	2	7	
	AI	CI	CI	CI	AI	AI	CI	BI	CI	AI	
	BOD-5 TSS	Coliform Total	Fecal Coliforms	Nitrogen (Nitro)	NH <sub>3</sub>	Nitrate	Nitrite	Phosphorus	Hardness, Ca, Zn	DTG	Orthophosphorus
	X	X	X	X	X	X	X	X	X	X	X

**Matrix Codes\***

SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H <sub>2</sub> O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SU Surface Water	O Other

(Please Specify)

**Pres/Codes**

A. None	G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
B. HNO <sub>3</sub>	H. NaHSO <sub>4</sub>
C. H <sub>2</sub> SO <sub>4</sub>	I. Ice
D. NaOH	J. MCAA
E. HCL	O. Other
F. MeOH	

Q#	SW	Date	ID	Matrix	Code*
Q1	SW-2	8/26/03	1045	SW	B
Q2	SW-3	↓	1100	↓	↓
Q3	SW-7	↓	1130	↓	↓
Q4					
Q5					
Q6					
Q7					
Q8					
Q9					
Q10					

**REMARKS**

Short Hold @ 16:00  
 Coliform = 6 Hours  
 Orthophos = 24 Hours  
 BOD = 48 Hours  
 Nitrate, Nitrite = 48 Hours

Del. to Lab

STANDARD \_\_\_\_\_ Date required Y  X N  None  1  2  3  Other  (Y) N 113

Collector	Date	Time	Collector	Date	Time
<u>Alan Lee Hipp</u>	<u>8/26/03</u>	<u>1233</u>	<u>Conny Jung</u>	<u>8/26/03</u>	<u>1233</u>
<u>Conny Jung</u>	<u>8/26/03</u>	<u>1700</u>	<u>VE</u>	<u>8/26/03</u>	<u>1700</u>
<u>VE</u>	<u>8/27/03</u>		<u>Kayla B...</u>	<u>8/27/03</u>	<u>1020</u>

3231 N.W. 7th Avenue  
 Boca Raton, FL 33431  
 888-862-LABS  
 561-447-7373  
 888-456-4846 Fax  
 561-447-6136 Fax  
 C.O.C. # 62908

RECEIVED

SEP 12 2003

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 09/08/2003  
 Log #: L80511-1

Sample Description:

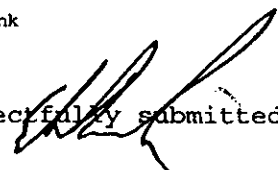
Lakewood Ranch Corporate Park

Analytical Report: MW-1  
 Date Sampled: 08/28/2003  
 Time Sampled: 12:00  
 Date Received: 08/28/2003  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Extr.		Anly.		Analyst
				Limit	Date	Date		
<b>Trace Metals</b>								
Asenic	BDL	mg/l	3010/6010	0.010	09/02	09/04	SB	
Chromium	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB	
Cad	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB	
<b>General Chemistry</b>								
Ammonia as N	0.24	mg/l	350.1	0.020	09/03	09/03	MG	
Ammonia as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG	
Nitrate as N	BDL	mg/l	300.0	0.10	08/29	08/29	MG	
Nitrite as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG	
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/29	08/29	MG	
Oil/Grease	BDL	mg/l	1664	4.0	09/03	09/03	VP	
Total Phosphorus as P	0.067	mg/l	365.1	0.010	09/03	09/04	EF	
Total Dissolved Solids	420	mg/l	160.1	10	09/03	09/03	VP	
Total Kjeldahl Nitrogen as N	1.1	mg/l	351.2	0.40	09/04	09/05	EF	
Total Nitrogen, Total as N	1.1	mg/l	Calc	0.50	09/08	09/08	HH	

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 EP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 EP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 EP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

# 980126 DOH# E86240 NC CERT# 444  
 DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020  
 CERT# 96031001 TN CERT# 02985  
 CE GA CERT# 917  
 CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,  
  
 Steve Walton  
 Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 09/08/2003  
 Log #: L80511-2

Sample Description:

Analytical Report: MW-2

Lakewood Ranch Corporate Park

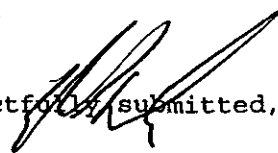
Date Sampled: 08/28/2003  
 Time Sampled: 10:00  
 Date Received: 08/28/2003  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Ammonia as N	BDL	mg/l	3010/6010	0.010	09/02	09/04	SB
Ammonium	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB
Ammonia	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB
<b>General Chemistry</b>							
Ammonia as N	1.0	mg/l	350.1	0.10	09/03	09/03	MG
Ammonia as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
Ammonia+NO3 as N	BDL	mg/l	300.0	0.10	08/29	08/29	MG
Ammonia as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/29	08/29	MG
Oil/Grease	BDL	mg/l	1664	4.0	09/03	09/03	VP
Total Phosphorus as P	0.89	mg/l	365.1	0.010	09/03	09/04	EF
Total Dissolved Solids	460	mg/l	160.1	10	09/03	09/03	VP
Total Kjeldahl Nitrogen as N	1.9	mg/l	351.2	0.40	09/04	09/05	EF
Total Nitrogen, Total as N	1.9	mg/l	Calc	0.50	09/08	09/08	HH

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 EP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 EP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 EP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

# 980126 DOH# E86240 NC CERT# 444  
 DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020  
 CERT# 96031001 TN CERT# 02985  
 CE GA CERT# 917  
 CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,



Steve Walton  
 Client Technical Svcs. Manager



Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 09/08/2003  
 Log #: L80511-3

Sample Description:  
 Lakewood Ranch Corporate Park

Analytical Report: MW-4  
 Date Sampled: 08/28/2003  
 Time Sampled: 13:30  
 Date Received: 08/28/2003  
 Collected By: Client

Parameter	Results	Units	Method	Reportable	Extr.	Anly.	Analyst
				Limit	Date	Date	
<b>Trace Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	09/02	09/04	SB
Chromium	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB
Cadmium	0.0054	mg/l	3010/6010	0.0050	09/02	09/04	SB
<b>Inorganic Chemistry</b>							
Ammonia as N	0.20	mg/l	350.1	0.10	09/03	09/03	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/29	08/29	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/29	08/29	MG
Oil/Grease	BDL	mg/l	1664	4.0	09/03	09/03	VP
Total Phosphorus as P	0.24	mg/l	365.1	0.010	09/03	09/04	EF
Total Dissolved Solids	340	mg/l	160.1	10	09/03	09/03	VP
Total Kjeldahl Nitrogen as N	1.3	mg/l	351.2	0.40	09/04	09/05	EF
Nitrogen, Total as N	1.3	mg/l	Calc	0.50	09/08	09/08	HH

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 DEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 DEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 DEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

PF# 980126                      DOH# E86240                      NC CERT# 444  
 B DOH# 86122,86109,E86048      ADEM ID# 40850                      IL CERT# 200020  
 CERT# 96031001                      TN CERT# 02985  
 ACE                                      GA CERT# 917  
 CERT# 00395                              USDA Soil Permit# S-35240

Respectfully submitted,

Steve Walton  
 Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 09/08/2003  
 Log #: L80511-4

Sample Description:

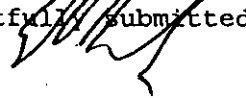
Lakewood Ranch Corporate Park

Analytical Report: MW-6  
 Date Sampled: 08/28/2003  
 Time Sampled: 11:30  
 Date Received: 08/28/2003  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
<b>Trace Metals</b>							
As	BDL	mg/l	3010/6010	0.010	09/02	09/04	SB
Chromium	0.0057	mg/l	3010/6010	0.0050	09/02	09/04	SB
Cd	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB
<b>General Chemistry</b>							
Ammonia as N	0.26	mg/l	350.1	0.10	09/03	09/03	MG
B as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
2+NO3 as N	BDL	mg/l	300.0	0.10	08/29	08/29	MG
2 as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/29	08/29	MG
Oil/Grease	BDL	mg/l	1664	4.0	09/03	09/03	VP
Total Phosphorus as P	0.17	mg/l	365.1	0.10	09/03	09/04	EF
Total Dissolved Solids	91	mg/l	160.1	10	09/03	09/03	VP
Total Kjeldahl Nitrogen as N	2.4	mg/l	351.2	0.40	09/04	09/05	EF
Nitrogen, Total as N	2.4	mg/l	Calc	0.50	09/08	09/08	HH

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 EP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 EP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 EP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

# 980126 DOH# E86240 NC CERT# 444  
 DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020  
 CERT# 96031001 TN CERT# 02985  
 GA CERT# 917  
 USDA Soil Permit# S-35240

Respectfully submitted,  
  
 Steve Walton  
 Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 09/08/2003  
 Log #: L80511-5

Sample Description:  
 Lakewood Ranch Corporate Park

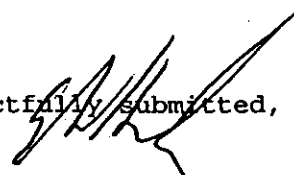
Analytical Report: Equipment Blank  
 Date Sampled: 08/28/2003  
 Time Sampled: 14:00  
 Date Received: 08/28/2003  
 Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
<b>Trace Metals</b>							
Asenic	BDL	mg/l	3010/6010	0.010	09/02	09/04	SB
Chromium	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB
Cad	BDL	mg/l	3010/6010	0.0050	09/02	09/04	SB
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	09/03	09/03	MG
NO3 as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	08/29	08/29	MG
NO2 as N	BDL	mg/l	300.0	0.050	08/29	08/29	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	08/29	08/29	MG
Oil/Grease	BDL	mg/l	1664	4.0	09/03	09/03	VP
Total Phosphorus as P	BDL	mg/l	365.1	0.010	09/03	09/04	EF
Total Dissolved Solids	BDL	mg/l	160.1	10	09/03	09/03	VP
Total Kjeldahl Nitrogen as N	BDL	mg/l	351.2	0.40	09/04	09/05	EF
Nitrogen, Total as N	BDL	mg/l	Calc	0.50	09/08	09/08	HH

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 DEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 DEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 DEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

P# 980126 DOH# E86240 NC CERT# 444  
 B DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020  
 CERT# 96031001 TN CERT# 02985  
 ACE GA CERT# 917  
 CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,



Steve Walton  
 Client Technical Svcs. Manager

Company Name **EAC** PO#  
 Address **P.O. Box 337**  
 City **Palmetto** State **FL** Zip **34220**  
 Attn: **Joe Buerhop** Fax# **941-722-2948**  
 Project Name **Lakewood Ranch Corporate Park**  
 Sampler Name/Signature **Alan Lai Hopp** Phone **941-722-0367**

CUSTOMER SEALS INTACT?   
 VOLATILES rec'd W/OUT HEADSPACE?   
 PROPER CONTAINERS used?   
**Matrix Codes\***  
 SD Solid Waste OL Oil  
 GW Ground Water SL Sludge  
 EFF Effluent SO Soil Sediment  
 AFW Analyte Free H<sub>2</sub>O AQ Aqueous  
 WW Waste Water NA Nonaqueous  
 DW Drinking Water PE Petroleum  
 SU Surface Water O Other  
 (Please Specify)

#	Sample Label (Client ID)	Matrix	Code	Size
01	MW-1	GW	5	Various
02	MW-2	GW		
03	MW-4	GW		
04	MW-6	GW		
05	EQ BLK	AFW		
16				
17				
18				
19				
20				

Parameters	1	1	1	1	1	1
T-N (NO <sub>2</sub> +NO <sub>3</sub> )	2	7	2	2	2	7
NH <sub>3</sub>	CI	CI	AI	BI	CI	CI
TDS						
As, Cr, Pb						
Phosphorus						
C+G						
Orthophosphate						

Field Filtered   
 Integrity OK

**Pres/Codes**  
 A. None G. Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
 B. HNO<sub>3</sub> H. NaHSO<sub>4</sub>  
 C. H<sub>2</sub>SO<sub>4</sub> I. ICE  
 D. NaOH J. MCAA  
 E. HCL O. Other  
 F. MeOH

3

**REMARKS**

SHORT HOLD  
 ORTHOPHOSPHATE

Del. to Lab

None  1 \_\_\_ 2 \_\_\_ 3 \_\_\_ Other \_\_\_  N **WB**

#	Date required	Y	N	None	1	2	3	Other	Date	Time
1-5	Alan Lai Hopp	8/28/03	1900	Melinda	8/28/03	1500				
1-5	M/Moderna	8/28/03	1700	UE	8/28/03	1700				
	UE	8/29/03	1700	Kamz Ben	8/29/03	1330				

3231 N.W. 7th Avenue  
 Boca Raton, FL 33431  
 888-862-LABS  
 561-447-7373  
 888-456-4846 Fax  
 561-447-6136 Fax

C.O.C. # 62907



**FILE COPY**

**Environmental Affairs  
Consultants, Inc.**

*Providing Natural Resource Management Consulting since 1977*

January 16, 2004

Mr. Tim Martin  
**SMR Communities**  
6225 Lorraine Road  
Bradenton, FL 34202

**RE: Monitoring Report #6  
Lakewood Ranch Corporate Park  
SMR Communities, Sarasota County  
Permit No. 4413551.09**

Mr. Martin,

Please find enclosed two original copies of the January 16, 2004 monitoring reports for the Lakewood Ranch Corporate Park Unit 4 mitigation area. A copy of report #6 is provided for **Sarasota County Government Resource Protection Services**. Please review the reports to be sure they meet with your approval, and mail a copy of the report in the self-addressed envelope to the County. The other copy of the report is enclosed for your files.

Please note that the area has met success criteria with SWFWMD and has been released by the District. We are currently asking Sarasota County to release the mitigation area. Please call Mike Burton or me if you have any questions.

Sincerely,

Melissa J. Zirhut  
Environmental Scientist

enclosure

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**FILE COPY**

**Environmental Affairs  
Consultants, Inc.**

*Providing Natural Resource Management Consulting since 1977*

January 16, 2004

Sarasota County Government  
Resource Protection Services  
P.O. Box 8  
Sarasota, FL 34230

**RE: Monitoring Report #6  
Lakewood Ranch Corporate Park  
SMR Communities, Sarasota County  
Permit No. 4413551.09**

Please find enclosed a copy of the sixth monitoring report for Mitigation Area CP-1 associated with **Lakewood Ranch Corporate Park, Unit 4**. The area has met success criteria continually for over a year; therefore we respectfully request this mitigation area be released from further monitoring.

If you have any questions regarding this project or would like to schedule a site inspection, please do not hesitate to contact me.

Sincerely,

Melissa J. Zirhut  
Environmental Scientist

Enclosure

**Lakewood Ranch Corporate Park**  
**Wetland Compensation Monitoring Report**

**Permit No. 4413551.09**

**JANUARY 16, 2004**

**SUBMITTED BY:**



***ENVIRONMENTAL AFFAIRS CONSULTANTS, INC.***

***P.O. Box 337***

***Palmetto, FL 34220***

***(941) 722-0367 fax: (941) 722-2948***

**SECTION I.**

**PROJECT NAME** Lakewood Ranch Corporate Park      **REPORT NO.** 5  
Unit 4

**PERMIT NO.**      4413551.09      **REPORT DATE** 01/16/04

**PERMITTEE**      SMR Communities, Inc.      **SAMPLING DATE** 01/16/04  
6215 Lorraine Road  
Bradenton, FL 34202

**MONITORING ENTITY**      Environmental Affairs Consultants, Inc.      **CONTACT** Melissa Zirhut  
P.O. Box 337      or Mike Burton  
Palmetto, FL 34220  
(941) 722-0367

**SECTION II.**

**Compensation Sampling Methodology:** Quadrats (of one square meter) were placed at locations randomly selected throughout the mitigation area. Quadrat locations were determined utilizing a grid system with points within a block selected randomly. Plant species within each quadrat were listed and the individual species' percent cover visually estimated. A framework of PVC pipe with graduations was used to assist in the accurate estimate of the percent cover of the various species of vegetation. Percent coverage within each quadrat and the aggregate percent coverage for each species were represented by the mean of the percent cover for each species in the individual quadrats. Dominance was determined by relative percent cover, expressed as species' mean percentage cover/total percentage cover.

A color photograph was taken from a fixed photo station.



### SECTION III. SAMPLING DATA

#### PART 1. Wetland Type

A. Observed type: Palustrine Persistent, Emergent Wetland

Target type: Palustrine Persistent, Emergent Wetland

C. Comments regarding deviation from target type: Note that the target type for this wetland mitigation site was intended to be a wet prairie. The mitigation area species composition is almost indistinguishable from the wetland impact area.

#### PART 2. Water Levels

- A. Water level on date monitored (NGVD): N/A  
Maximum water level during monitoring interval (NGVD): N/A
- B. Hydroperiods and duration of water levels: The soils were saturated to the surface throughout the mitigation project boundary.

#### PART 3. Observed Plant Zonation, Dominance, and Subdominance (See following pages)

### SECTION IV. MAINTENANCE

- A. Maintenance activity: None
- B. Maintenance or other corrective action needed: None needed

### SECTION VI. DISCUSSION

During the past year, this area has been observed to have good vegetative diversity, and appropriate hydrology as expected for a wet prairie. It has met continued success during its final year and is now functioning as a healthy wet prairie and has been released by the District from further monitoring. No further monitoring should be required.

Permit No. 4413551.09  
Lakewood Ranch Corporate Park, Unit 4  
SMR Communities  
January 16, 2004

**SECTION V. PHOTOGRAPHIC DOCUMENTATION**



PERMIT NO. 4413551.09  
 Lakewood Ranch Corporate Park  
 Monitoring Report No. 5  
 Aug-03

PART 3. (Continued) Observed Plant Zonation, Dominance and Subdominance

PERCENT COVER: 99%  
 STRATUM:Groundcover

Quadrat	1	2	3	4	5	6	Mean Percent Cover
<b>DOMINANT DESIRABLE SPP.</b>							
<i>Andropogon glomeratus</i>	50	0	50	60	50	0	35
<b>TOTAL DOMINANT AND SUBDOMINANT DESIRABLE SPP.</b>							<b>35</b>
<b>OTHER DESIRABLE SPP.</b>							
<i>Hydrocotyle spp.</i>	5	10	5	10	15	0	8
<i>Centella spp.</i>	5	25	5	5	10	0	8
<i>Luwigia repens</i>	0	5	2	2	2	0	2
<i>Pluchea rosea</i>	0	10	0	0	0	0	2
<i>Rumex spp.</i>	0	10	5	2	2	5	4
<i>Eragrostis spp.</i>	0	10	0	5	2	0	3
<i>Prosepinaca spp.</i>	0	0	15	15	2	0	5
<i>Hypericum spp.</i>	0	0	2	0	0	0	0
<i>Juncus spp.</i>	0	0	5	0	0	0	1
<i>Myrica cerifera</i>	0	0	4	0	0	0	1
<i>Bacopa spp.</i>	0	0	2	5	0	0	1
<i>Pontederia cordata</i>	0	0	0	0	25	5	5
<i>Viola primulifolia</i>	0	0	0	0	0	1	0
<i>Bidens mitus</i>	0	0	0	0	0	2	0
<i>Xyris spp.</i>	0	0	0	0	0	5	1
<i>Lachnocaulon spp.</i>	0	0	0	0	0	25	4
<i>Polygonum spp.</i>	0	0	0	0	0	2	0
<i>Hydrochloa caroliniensis</i>	15	0	0	0	0	0	3
<i>Micranthemum spp.</i>	10	5	0	0	0	0	3
<i>Mikania spp.</i>	5	0	0	0	0	0	1
<i>Panicum hemitomom</i>	0	0	0	0	0	45	8
<i>Juncus polycephalos</i>	0	0	5	0	0	0	1
<i>Baccharis halimifolia</i>	15	20	0	0	0	0	6
<b>TOTAL DOMINANT + OTHER DESIRABLE SPP.</b>							<b>100</b>
<b>NUISANCE AND EXOTIC SPP.</b>							
NONE							
<b>TOTAL NUISANCE AND EXOTIC SPP.</b>							<b>0</b>
<b>UPLAND SPP.</b>							
NONE							
<b>TOTAL UPLAND SPP.</b>							<b>0</b>

**ATTACHMENT A  
WETLAND COMPENSATION SUCCESS CRITERIA**

Compensation shall be deemed successful when the following criteria have been met continuously for a period of at least one (1) year without intervention, including but not limited to irrigation, removal of undesirable vegetation, or replanting of desirable vegetation.

Successful wetland mitigation provided as a requirement of this construction permit shall be preserved in perpetuity and maintained as part of the surface water management system.

A. The mitigation area is classified as- Palustrine-Persistent-Emergent Wetland according to the United States Fish and Wildlife Service's Classification of Wetlands and Deepwater Habitats of the United States.

B. Soil conditions, topography, water depth, and water level fluctuations in the mitigation area are similar to conditions in the permitted wetlands impact area, producing proportional habitat zonation.

C. The dominant and sub-dominant species of desirable wetland plants and associated coverage comprising each vegetation zone and stratum of each mitigation area shall be as follows:

STRATUM	PERCENT COVER	DOMINANT SPECIES	SUBDOMINANT SPECIES
Ground cover	90	<i>Juncus polycephalus</i>	<i>Andropogon glomeratus</i>
		<i>Xyris spp.</i>	<i>Hypericum fasciculatum</i>

D. Species composition of recruiting wetland vegetation are indicative of Palustrine, Persistent, Emergent wetlands.

E. Coverage by nuisance or exotic species shall not exceed 1 percent



**FILE COPY**

**Environmental Affairs  
Consultants, Inc.**

*Providing Natural Resource Management Consulting since 1977*

September 4, 2003

Mr. Tim Martin  
SMR Communities  
6225 Lorraine Road  
Bradenton, FL 34202

**RE: Monitoring Report #5  
Lakewood Ranch Corporate Park  
SMR Communities, Sarasota County  
Permit No. 4413551.09**

Mr. Martin,

Please find enclosed two original copies of the July 2003 monitoring reports for the Lakewood Ranch Corporate Park Unit 4 mitigation area. A copy of report #5 is provided for **Sarasota County Government Resource Protection Services**. Please review the reports to be sure they meet with your approval, and mail a copy of the report in the self-addressed envelope to the County. The other copy of the report is enclosed for your files.

Please note that the area has met success criteria with SWFWMD and has been released by the District. We are currently asking Sarasota County to release the mitigation area. Please call Mike Burton or me if you have any questions.

Sincerely,

Ian Rashid  
Environmental Specialist

enclosure

G:\Affairs\SMRLR Corp Park\Corp Park Unit Four\Mitigation\TMartin transmittal letter 011703.doc



## **Environmental Affairs Consultants, Inc.**

*Providing Natural Resource Management Consulting since 1977*

September 4, 2003

Sarasota County Government  
Resource Protection Services  
P.O. Box 8  
Sarasota, FL 34230

**RE: Monitoring Report #5  
Lakewood Ranch Corporate Park  
SMR Communities, Sarasota County  
Permit No. 4413551.09**

Please find enclosed a copy of the fifth monitoring report for Mitigation Area CP-1 associated with **Lakewood Ranch Corporate Park, Unit 4**. The area has met success criteria continually for over a year; therefore we respectfully request this mitigation area be released from further monitoring.

If you have any questions regarding this project or would like to schedule a site inspection, please do not hesitate to contact me.

Sincerely,

Ian Rashid  
Environmental Specialist

Enclosure

**Lakewood Ranch Corporate Park**  
**Wetland Compensation Monitoring Report**  
**Permit No. 4413551.09**

SEPTEMBER 2003

SUBMITTED BY:



***ENVIRONMENTAL AFFAIRS CONSULTANTS, INC.***  
*P.O. Box 337*  
*Palmetto, FL 34220*  
*(941) 722-0367 fax: (941) 722-2948*

**SECTION I.**

**PROJECT NAME** Lakewood Ranch Corporate Park      **REPORT NO.** 5  
Unit 4

**PERMIT NO.**      4413551.09      **REPORT DATE** 09/04/03

**PERMITTEE**      SMR Communities, Inc.      **SAMPLING DATE** 08/21/03  
6215 Lorraine Road  
Bradenton, FL 34202

**MONITORING ENTITY**      Environmental Affairs Consultants, Inc.      **CONTACT.** Ian Rashid or  
P.O. Box 337      Mike Burton  
Palmetto, FL 34220  
(941) 722-0367

**SECTION II.**

**Compensation Sampling Methodology:** Quadrats (of one square meter) were placed at locations randomly selected throughout the mitigation area. Quadrat locations were determined utilizing a grid system with points within a block selected randomly. Plant species within each quadrat were listed and the individual species' percent cover visually estimated. A framework of PVC pipe with graduations was used to assist in the accurate estimate of the percent cover of the various species of vegetation. Percent coverage within each quadrat and the aggregate percent coverage for each species were represented by the mean of the percent cover for each species in the individual quadrats. Dominance was determined by relative percent cover, expressed as species' mean percentage cover/total percentage cover.

A color photograph was taken from a fixed photo station.



### SECTION III. SAMPLING DATA

#### PART 1. Wetland Type

A. Observed type: Palustrine Persistent, Emergent Wetland

Target type: Palustrine Persistent, Emergent Wetland

C. Comments regarding deviation from target type: Note that the target type for this wetland mitigation site was intended to be a wet prairie. The mitigation area species composition is almost indistinguishable from the wetland impact area.

#### PART 2. Water Levels

A. Water level on date monitored (NGVD): N/A

Maximum water level during monitoring interval (NGVD): N/A

B. Hydroperiods and duration of water levels: There was approximately 1 foot of standing water through out the mitigation area due to very heavy rains this season.

#### PART 3. Observed Plant Zonation, Dominance, and Subdominance (See following pages)

### SECTION IV. MAINTENANCE

A. Maintenance activity: None

B. Maintenance or other corrective action needed: None needed

### SECTION VI. DISCUSSION

During the past year, this area has been observed to have good vegetative diversity, and appropriate hydrology as expected for a wet prairie. It has met continued success during its final year and is now functioning as a healthy wet prairie and has been released by the District from further monitoring. No further monitoring should be required.

Permit No. 4413551.09  
Lakewood Ranch Corporate Park, Unit 4  
SMR Communities  
August 2003

**SECTION V. PHOTOGRAPHIC DOCUMENTATION**



PART 3. (Continued) Observed Plant Zonation, Dominance and Subdominance

PERCENT COVER: 99%  
 STRATUM: Groundcover

Quadrat	1	2	3	4	5	6	Mean Percent Cover
<b><u>DOMINANT DESIRABLE SPP.</u></b>							
<i>Andropogon glomeratus</i>	15	30	25	20	15	20	21
<b><u>SUBDOMINANT DESIRABLE SPP.</u></b>							
<i>Baccharis halimifolia</i>	35	10	15	10	0	0	12
<i>Juncus polycephalos</i>	0	15	10	10	15	20	12
<b>TOTAL DOMINANT AND SUBDOMINANT DESIRABLE SPP.</b>							<b>44</b>
<b><u>OTHER DESIRABLE SPP.</u></b>							
<i>Hydrocotyle umbellata</i>	10	15	10	5	15	10	11
<i>Myrica cerifera</i>	15	10	15	10	5	0	9
<i>Pontederia cordata</i>	0	0	0	20	10	20	8
<i>Spartina spp.</i>	0	10	10	0	20	10	8
<i>Eragrostis spp.</i>	15	0	5	15	0	5	7
<i>Lachnocaulon spp.</i>	10	0	0	5	15	0	5
<i>Lythrum spp.</i>	0	10	10	0	0	0	3
<i>Xyris spp.</i>	0	0	5	0	5	10	3
<b>TOTAL DOMINANT + OTHER DESIRABLE SPP.</b>							<b>99</b>
<b><u>NUISANCE AND EXOTIC SPP.</u></b>							
NONE							
<b>TOTAL NUISANCE AND EXOTIC SPP.</b>							<b>0</b>
<b><u>UPLAND SPP.</u></b>							
NONE							
<b>TOTAL UPLAND SPP.</b>							<b>0</b>

**ATTACHMENT A  
 WETLAND COMPENSATION SUCCESS CRITERIA**

Compensation shall be deemed successful when the following criteria have been met continuously for a period of at least one (1) year without intervention, including but not limited to irrigation, removal of undesirable vegetation, or replanting of desirable vegetation.

Successful wetland mitigation provided as a requirement of this construction permit shall be preserved in perpetuity and maintained as part of the surface water management system.

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B. Soil conditions, topography, water depth, and water level fluctuations in the mitigation area are similar to conditions in the permitted wetlands impact area, producing proportional habitat zonation.

C. The dominant and sub-dominant species of desirable wetland plants and associated coverage comprising each vegetation zone and stratum of each mitigation area shall be as follows:

STRATUM	PERCENT COVER	DOMINANT SPECIES	SUBDOMINANT SPECIES
Ground cover	90	<i>Juncus polycephalus</i>	<i>Andropogon glomeratus</i>
		<i>Xyris spp.</i>	<i>Hypericum fasciculatum</i>

D. Species composition of recruiting wetland vegetation are indicative of Palustrine, Persistent, Emergent wetlands.

E. Coverage by nuisance or exotic species shall not exceed 1 percent

**WATER QUALITY MONITORING  
LAKEWOOD RANCH CORPORATE PARK  
SARASOTA, FLORIDA**

**2004 DRY SEASON MONITORING EVENT**

**Prepared for:**

**Tim Martin  
SMR Communities**

**Prepared by:**

*Enviro-Audit & Compliance, Inc.  
429 10<sup>th</sup> Avenue West  
Palmetto, Florida 34221  
(941) 722-0367*



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*APPENDIX C – Laboratory Reports & Field Data Sheets – Surface Water*

## **1.0 INTRODUCTION**

On February 2, 3 & 11, 2004, Enviro-Audit & Compliance, Inc. (EAC) performed semi-annual water quality monitoring at Lakewood Ranch Corporate Park Development in order to meet the requirements as defined in the University Place Development Order (UPDO) for the construction and post construction phases of development. This report represents the Dry Season Monitoring Event performed during the construction phase.

### **1.1 *Monitoring Station Locations***

The surface water and surficial groundwater monitoring stations (monitoring wells) for the water quality monitoring program are identified on Figure 1. A total of six monitoring well stations and seven surface water stations are shown on Figure 1. MW-3 was removed on January 22, 2001 as the result of construction activities; therefore, only five groundwater locations were sampled.

### **1.2 *Water Quality Sampling / Analytical Methods***

The groundwater and surface water samples were collected by EAC. Field measurements were also performed by EAC. Laboratory analyses of the samples were performed by US Biosystems, Inc.; in Boca Raton, Florida.

## **2.0 GROUNDWATER SAMPLING**

On February 3, 2004, EAC collected groundwater samples at five monitoring well locations, shown on Figure 1. An equipment blank was collected for quality assurance/quality control (QA/QC) purposes.

Field measurements of temperature, turbidity, conductivity, dissolved oxygen and pH were collected. The sample containers for laboratory analysis were preserved on ice and transported to U.S. Biosystems, Inc.

### **2.1 *Groundwater Analytical Results***

A summary table of the field and laboratory analytical results for the groundwater samples is provided as Table 1, in Appendix A. Copies of U.S. Biosystems, Inc. analytical reports for the five monitoring well locations are provided as Appendix B.

Upon review of all data collected during the monitoring events described above, there were no exceedances in regulatory groundwater standards with the exception of pH, which measured slightly below the secondary drinking water standard (6.5) at MW-5 (measured at 5.5) and at MW-6 (measured at 5.3).



### **3.0 SURFACE WATER SAMPLING**

On February 2, 2004 and February 11, 2004, EAC collected surface water samples at five, SW-1, SW-2, SW-5, SW-6 and SW-7, of the seven surface water locations. The remaining two surface water stations SW-3 and SW-4 were either dry or had no flow due to low water conditions.

Field measurements of temperature, turbidity, conductivity, dissolved oxygen and pH were recorded during the collection event. Immediately upon collection, the sample containers for laboratory analysis were preserved on ice and transported to U.S. Biosystems, Inc. for analysis.

#### **3.1 *Surface Water Analytical Results***

A summary table of the surface water field and laboratory analytical results is included as Table 2, in Appendix A. Copies of U.S. Biosystems, Inc. surface water analytical reports are provided as Appendix C.

The laboratory results for SW-5 and SW-6 show that there were no exceedances of Class III surface water quality standards (where established). There were exceedances of total coliform standards (<2400 col/100mL) at SW-1 (reported at 3400 col/100mL), SW-2 (reported at 3700 col/100mL) and SW-7 (reported at 3900 col/100mL). Also, the standard for fecal coliform (<800 col/100mL) was exceeded at SW-2 (reported at 2100 col/100mL).

#### 4.0 WATER LEVEL & FLOW MEASUREMENTS

Prior to sample collection, water level measurements were recorded at each monitoring well. An electronic water level indicator was used to record below top of casing groundwater levels. The measurements were subtracted from the top of casing (TOC) elevations to calculate the groundwater elevations. The results are summarized on Table 3, in Appendix A.

Staff gauge (SG) readings measured at the SW-1, SW-2, SW-3 and SW-7 stations were recorded and are shown on Table 3. Staff gauges readings were unable to be collected at stations SW-4, SW-5 and SW-6. Flow measurements were not taken at any station due to flow conditions being below instrument detection limits.

#### 5.0 WATER QUALITY DATA REVIEW & CONCLUSIONS

Upon review of the dry season, groundwater water quality data, it appears there were no exceedances of standards caused from artificial sources or construction activities noted at any of the groundwater monitoring stations.

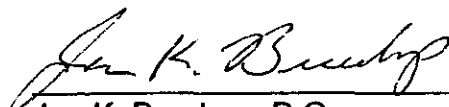
Upon review of the dry season surface water quality data, there were exceedances of total coliform standards at SW-1, SW-2 and SW-7. Also, the standard for fecal coliform was exceeded at SW-2. No other exceedances for any other parameters were reported.

It appears that the reported total and fecal coliform exceedances are most likely a result of a natural variation in bacteria levels and not from artificial sources or construction activities.

The semi-annual, wet season sampling event is scheduled to be performed in August 2004.

Prepared by:

March 5, 2004  
Date

  
\_\_\_\_\_  
Joe K. Buerhop, P.G.  
Division Manager

## APPENDIX A

### *Figures & Tables*

**Summary Table 1**  
**Lakewood Ranch Corporate Park**  
**Groundwater Results**  
**Dry Season Quarterly Water Quality Monitoring**  
**Date Collected - January 2004**

<i>Parameters</i>	<i>MW-1</i>	<i>MW-2</i>	<i>MW-4</i>	<i>MW-5</i>	<i>MW-6</i>	<i>Standards</i>
Turbidity (NTU)	7.1	9.9	6.3	1.2	15.9	-
Dissolved Oxygen (mg/L)	0.3	0.3	0.4	0.7	0.6	-
Temperature (C)	20.3	23.0	20.9	20.4	19.5	-
pH (standard units)	7.6	7.2	7.2	5.5	5.3	6.5 - 8.5
Conductivity (umhos/cm)	622	616	693	140.1	140.1	-
Total Suspended Solids (mg/L)	4.4	9.8	<4.4	<4.4	35	<500
Nitrogen, Total (TKN+NO <sub>2</sub> +3-N) (mg/L)	0.49	1.7	1.0	<0.50	2.0	-
Nitrate & Nitrate - N (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	10
Arsenic (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	0.050
Chromium (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	0.0068	0.100
Lead (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.015
Total Kjeldahl Nitrogen (mg/L)	0.49	1.7	1.0	0.40	2.0	-
Total Ammonia, as N (mg/L)	0.15	0.48	0.20	<0.020	0.25	-
Orthophosphate, as P (mg/L)	<0.25	<0.25	<0.25	<0.25	<0.25	-
Total Phosphorus as P (mg/L)	0.040	0.88	0.074	0.015	0.20	-
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0	<4.0	-

**Summary Table 2**  
**Lakewood Ranch Corporate Park**  
**Surface Water Results**  
**Dry Season Quarterly Water Quality Monitoring**  
**Date Collected - January 2004**

<i>Parameters</i>	<i>SW-1</i>	<i>SW-2</i>	<i>SW-3</i>	<i>SW-4</i>	<i>SW - 5</i>	<i>SW-6</i>	<i>SW - 7</i>	<i>Standard</i>
Turbidity (NTU)	11.6	17.6	NF	NF	2.7	3.6	2.0	<29
Dissolved Oxygen (mg/L)	6.6	8.7	NF	NF	5.1	6.7	10.1	>5
Temperature (C)	20.6	24.1	NF	NF	16.9	18.2	18.4	-
pH (standard units)	8.0	8.4	NF	NF	8.2	8.2	8.5	6.0-8.5
Conductivity (umhos/cm)	685	669	NF	NF	529	566	74.0	<1275
BOD, 5- Day (mg/L)	<2.0	2.4	NF	NF	<2.0	2.3	2.5	*
Total Dissolved Solids (mg/L)	560	560	NF	NF	410	520	52	<1000
Fecal Coliform (col/100mL)	620	2100	NF	NF	140	310	160	<800
Total Coliform (col/100mL)	3400	3700	NF	NF	530	1400	3900	<2400
Nitrogen, Total (TKN+N02+3-N) (mg/L)	1.0	1.0	NF	NF	1.5	1.2	0.57	-
Hardness (mg/L)	330	357	NF	NF	250	350	28	-
Nitrate & Nitrite - N (mg/L)	<0.10	<0.10	NF	NF	<0.10	<0.10	<0.10	-
Total Kjeldahl Nitrogen (mg/L)	1.0	1.0	NF	NF	1.5	1.2	0.57	-
Total Ammonia, as N (mg/L)	<0.020	<0.020	NF	NF	<0.020	0.049	<0.020	-
Orthophosphate, as P (mg/L)	<0.25	<0.25	NF	NF	<0.25	<0.25	<0.25	-
Total Phosphorus, as P (mg/L)	0.13	0.23	NF	NF	0.19	0.12	0.029	5
Oil & Grease (mg/L)	<4.3	<4.0	NF	NF	<4.4	<4.0	<4.0	<5
Copper (mg/L)	<0.010	<0.010	NF	NF	<0.010	<0.010	<0.010	**
Zinc (mg/L)	<0.020	<0.020	NF	NF	<0.020	<0.020	<0.020	**

**NOTES:**

\*\* - Dependant upon hardness

NF - No Flow

\* - Refer to rule (Chptr 62-302) for special conditions

**Summary Table 3**  
**Lakewood Ranch Corporate Park**  
**Water Elevation and Flow Measurements**  
**Dry Season Quarterly Water Quality Monitoring**  
**Date Collected - February 2004**

<i>Station ID Number</i>	<i>Top of Casing</i>	<i>Water Level Measurements</i>	<i>Net Elevations</i>	<i>Flow Measurements (MGD)</i>
SG-1		-	23.0	BDL
SG-2		-	24.79	BDL
SG-3		-	25.64	NF
SG-4		-	NR	NF
SG-5		-	Below Gauge	BDL
SG-6		-	21.24	BDL
SG-7		-	29.15	*
MW-1	30.50	4.47	26.03	
MW-2	31.12	5.71	25.41	
MW-4	32.59	4.59	28.00	
MW-5	32.93	5.38	27.55	
MW-6	34.05	6.32	27.73	

**NOTES:**

All elevations are National Geodetic Vertical Datum of 1929 (N.G.V.D. 1929)

All measurements are in feet, unless otherwise noted

BDL - Below instrument recording limit.

NF - No Flow

NR- Not Readable

MGD - Million Gallons per Day

\* Lake Osprey, No Flow.

APPENDIX B

*Groundwater Laboratory Reports  
&  
Field Data Sheets*

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 02/09/2004  
 Log #: L86571-1

**Sample Description:**

Lakewood Ranch - Corporate Park

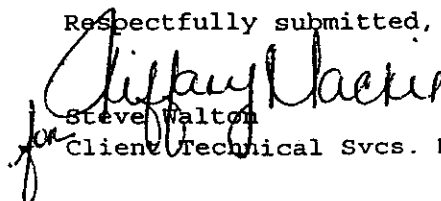
**Analytical Report: MW-1**

Date Sampled: 02/03/04  
 Time Sampled: 14:00  
 Date Received: 02/03/04  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	02/06 10:30	02/07 21:46	SB
Chromium	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 21:46	SB
Lead	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 21:46	SB
<b>General Chemistry</b>							
Ammonia as N	0.15	mg/l	350.1	0.020	02/04 17:09	02/04 17:09	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/05 08:25	02/05 08:25	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/05 08:25	02/05 08:25	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.040	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Kjeldahl Nitrogen as	0.49	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
Nitrogen, Total as N	0.49	mg/l	Calc	0.50	02/09 13:00	02/09 13:00	TW
Total Suspended Solids	4.4	mg/l	160.2	4.4	02/05 15:00	02/05 15:00	SR

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail 4:R or RPD; 4:matrix int. 5:improper fld. protocol  
 FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126                      DOH# E86240                      NC CERT# 444  
 SUB DOH# 86122,86109,E86048      ADEM ID# 40850                      IL CERT# 200020  
 SC CERT# 96031001                  TN CERT# 02985  
 USACE                                  GA CERT# 917  
 VA CERT# 00395                      USDA Soil Permit# S-35240

Respectfully submitted,  
  
 Steve Walton  
 Client Technical Svcs. Manager



Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 02/09/2004  
 Log #: L86571-2

Sample Description:

Lakewood Ranch - Corporate Park

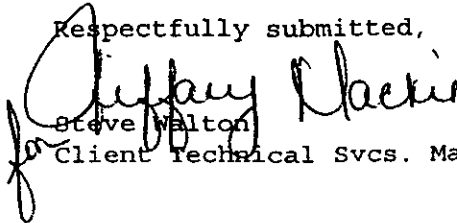
Analytical Report: MW-2

Date Sampled: 02/03/04  
 Time Sampled: 13:00  
 Date Received: 02/03/04  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	02/06 10:30	02/07 22:05	SB
Chromium	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:05	SB
Lead	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:05	SB
<b>General Chemistry</b>							
Ammonia as N	0.48	mg/l	350.1	0.020	02/04 17:09	02/04 17:09	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/05 08:25	02/05 08:25	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/05 08:25	02/05 08:25	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.88	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Kjeldahl Nitrogen as	1.7	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
Nitrogen, Total as N	1.7	mg/l	Calc	0.50	02/09 13:00	02/09 13:00	TW
Total Suspended Solids	9.8	mg/l	160.2	4.4	02/05 15:00	02/05 15:00	SR

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126                      DOH# E86240                      NC CERT# 444  
 SUB DOH# 86122,86109,E86048      ADEM ID# 40850                      IL CERT# 200020  
 SC CERT# 96031001                      TN CERT# 02985  
 USACE                                      GA CERT# 917  
 VA CERT# 00395                      USDA Soil Permit# S-35240

Respectfully submitted,  
  
 Steve Walton  
 Client Technical Svcs. Manager

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 1  
 Date: 02/09/2004  
 Log #: L86571-3

Sample Description:

Lakewood Ranch - Corporate Park

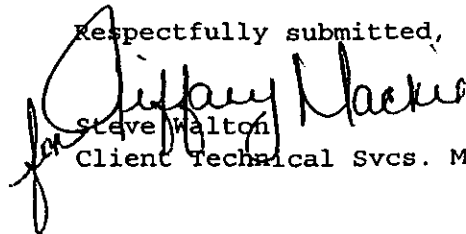
Analytical Report: MW-4

Date Sampled: 02/03/04  
 Time Sampled: 12:00  
 Date Received: 02/03/04  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	02/06 10:30	02/07 22:10	SB
Chromium	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:10	SB
Lead	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:10	SB
<b>General Chemistry</b>							
Ammonia as N	0.20	mg/l	350.1	0.020	02/04 17:09	02/04 17:09	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/05 08:25	02/05 08:25	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/05 08:25	02/05 08:25	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.074	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Kjeldahl Nitrogen as Nitrogen, Total as N	1.0	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
Total Suspended Solids	BDL	mg/l	160.2	4.4	02/05 15:00	02/05 15:00	SR

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126                      DOH# E86240                      NC CERT# 444  
 SUB DOH# 86122,86109,E86048      ADEM ID# 40850                      IL CERT# 200020  
 SC CERT# 96031001                  TN CERT# 02985  
 USACE                                  GA CERT# 917  
 VA CERT# 00395                      USDA Soil Permit# S-35240

Respectfully submitted,  
  
 Steve Walton  
 Client Technical Svcs. Manager

04-50

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 1 of 1  
Date: 02/09/2004  
Log #: L86571-4

Sample Description:

Lakewood Ranch - Corporate Park

Analytical Report: MW-5

Date Sampled: 02/03/04  
Time Sampled: 10:00  
Date Received: 02/03/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	02/06 10:30	02/07 22:14	SB
Chromium	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:14	SB
Lead	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:14	SB
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	02/04 17:09	02/04 17:09	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/05 08:25	02/05 08:25	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/05 08:25	02/05 08:25	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.015	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Kjeldahl Nitrogen as	BDL	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
Nitrogen, Total as N	BDL	mg/l	Calc	0.50	02/09 13:00	02/09 13:00	TW
Total Suspended Solids	BDL	mg/l	160.2	4.4	02/05 15:00	02/05 15:00	SR

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126 DOH# E86240 NC CERT# 444  
SUB DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020  
SC CERT# 96031001 TN CERT# 02985  
USACE GA CERT# 917  
VA CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,  
*Tiffany Mackie*  
Steve Walton  
Client Technical Svcs. Manager

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 1 of 1  
Date: 02/09/2004  
Log #: L86571-5

Sample Description:

Lakewood Ranch - Corporate Park

Analytical Report: MW-6  
Date Sampled: 02/03/04  
Time Sampled: 11:00  
Date Received: 02/03/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	02/06 10:30	02/07 22:18	SB
Chromium	0.0068	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:18	SB
Lead	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 22:18	SB
<b>General Chemistry</b>							
Ammonia as N	0.25	mg/l	350.1	0.020	02/04 17:09	02/04 17:09	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/05 08:25	02/05 08:25	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/05 08:25	02/05 08:25	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.20	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Kjeldahl Nitrogen as	2.0	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
Nitrogen, Total as N	2.0	mg/l	Calc	0.50	02/09 13:00	02/09 13:00	TW
Total Suspended Solids	35	mg/l	160.2	4.6	02/05 15:00	02/05 15:00	SR

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect(RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126                      DOH# E86240                      NC CERT# 444  
SUB DOH# 86122,86109,E86048      ADEM ID# 40850                      IL CERT# 200020  
SC CERT# 96031001                  TN CERT# 02985  
USACE                                  GA CERT# 917  
VA CERT# 00395                      USDA Soil Permit# S-35240

Respectfully submitted,  
*Steve Walton*  
Steve Walton  
Client Technical Svcs. Manager

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 1 of 1  
Date: 02/09/2004  
Log #: L86571-6

Sample Description:

Lakewood Ranch - Corporate Park

Analytical Report: Equipment Blank

Date Sampled: 02/03/04  
Time Sampled: 09:00  
Date Received: 02/03/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Arsenic	BDL	mg/l	3010/6010	0.010	02/06 10:30	02/07 20:35	SB
Chromium	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 20:35	SB
Lead	BDL	mg/l	3010/6010	0.0050	02/06 10:30	02/07 20:35	SB
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	02/04 17:09	02/04 17:09	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/05 08:25	02/05 08:25	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/05 08:25	02/05 08:25	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	BDL	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Kjeldahl Nitrogen as	BDL	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
Nitrogen, Total as N	BDL	mg/l	Calc	0.50	02/09 13:00	02/09 13:00	TW
Total Suspended Solids	BDL	mg/l	160.2	4.4	02/05 15:00	02/05 15:00	SR

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126 DOH# E86240 NC CERT# 444  
SUB DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020  
SC CERT# 96031001 TN CERT# 02985  
USACE GA CERT# 917  
VA CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,  
*Steve Walton*  
Steve Walton  
Client Technical Svcs. Manager

# US BIOSYSTEMS

Log # 86571

T#S 6

Quote: \_\_\_\_\_

Page     of    

Samples INTACT upon arrival?  YES  NO  N/A  
 Received ON WET ICE? Temp 4  
 PROPER PRESERVATIVES indicated?  YES  NO  N/A  
 Received WITHIN HOLDING TIME?  YES  NO  N/A  
 CUSTODY SEALS INTACT?  YES  NO  N/A  
 OL CONTAINERS rec'd W/OUT HEADSPACE?  YES  NO  N/A  
 ROVER CONTAINERS used?  YES  NO  N/A

Company Name EAC-Palmetto PO# \_\_\_\_\_  
 Address P.O. Box 337  
 City Palmetto State FL Zip 34220  
 Attn: Joe Bweehoy Phone 941-722-2948  
 Project Name Lakewood Ranch Corporate Park  
 Sampler Name/Signature Alan Lai Hing Phone 941-722-0367

Matrix	Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
T-N,TKN	CT	X	X	X	X	X	X														
NH <sub>3</sub> , T-P	JT	X	X	X	X	X	X														
TSS	ATN	X	X	X	X	X	X														
As, Cr, Pb	BRP	X	X	X	X	X	X														
Orthophosphate	ALN	X	X	X	X	X	X														
O+6	CRP	X	X	X	X	X	X														

**Matrix Codes\***

SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H <sub>2</sub> O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SU Surface Water	O Other
ML Misc. Liquid	(Please Specify)

**Pres/Codes**

A. None	G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
B. HNO <sub>3</sub>	H. NaHSO <sub>4</sub>
C. H <sub>2</sub> SO <sub>4</sub>	I. ICE
D. NaOH	J. MCAA
E. HCL	K. Zn Acetate
F. MeOH	O. Other

**46**

ID	Location	Date	Time	Matrix	Depth	Notes
01	MW-1	2/3/04	1400	GW	5	Various
02	MW-2	2/3/04	1300			
03	MW-4	2/3/04	1200			
04	MW-5	2/3/04	1000			
05	MW-6	2/3/04	1100			
06	EQ. BLK	2/3/04	900			
07						
08						
09						
0						

**REMARKS**

①AL ②32P ③8P

Y/N \_\_\_\_\_ Date required \_\_\_\_\_ Y X None \_\_\_\_\_ 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ Other (Y) N 4P

ID	Location	Date	Time	Sampler	Date	Time
---	16x	2/26/04	1700	Alan Lai Hing	2/26/04	1700
---		2/3/04	1547	Marty Walker	2/3/04	1547
---		2/3/04	1200	IVE	2/3/04	1700
#		2/14/04	1105	Joe Bweehoy		

3231 N.W. 7th Avenue  
 Boca Raton, FL 33431  
 888-862-LABS  
 561-447-7373  
 888-456-4846 Fax  
 561-447-6136 Fax  
 C.O.C. #7946



Enviro-Audit & Compliance, Inc.  
 P.O. Box 337 • 429 10<sup>th</sup> Avenue West • Palmetto, Florida 34220  
 Telephone (941) 722-0367 • Fax (941) 722-2948  
 website: eac-inc.com

## GROUNDWATER SAMPLING WORKSHEET

SAMPLE LOG: 04-47

Client: SMR Location: CORPORATE PARK  
 Well No. MD-1 Date: 2/3/04 Time: 1400 Sampler: Acft

### EQUIPMENT CALIBRATION

PH 7.0/4.0 7.00 = 4.00 TIME \_\_\_\_\_ CONDUCTIVITY \_\_\_\_\_ REDLINE TIME \_\_\_\_\_  
 1413 \_\_\_\_\_ 276 \_\_\_\_\_

DEPTH OF WELL: 15 WELL DIAMETER: 2" PERMANENT:  TEMPORARY: \_\_\_\_\_

Water Level: \_\_\_\_\_ = 4.47  
 Held - Wet = Depth To Water (Feet Below Top of Casing)

$$15 - 4.47 = 10.53 \times 0.16 = 1.7$$

$$1.7 \times 5 = 8.5 \text{ gal}$$

2-inch diameter well: Gallons of water in well = (Depth of well - Depth to water) X 0.1632

Volume	CUMULATIVE VOLUME	TEMPERATURE (Degrees Celsius)	CONDUCTIVITY	pH	NTU/D.O
1	1	20.5	611	7.7	10.6/0.4
2	2	20.5	621	7.6	10.3/0.3
3	5	20.2	625	7.6	8.2/0.3
4	6.5	20.3	625	7.6	7.9/0.3
5	8.5	20.3	622	7.6	7.1/0.3

DUPLICATE VOLUME #

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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 website: eac-inc.com

## GROUNDWATER SAMPLING WORKSHEET

SAMPLE LOG: 03-

Client: SMR Location: CORPORATE PARK

Well No. NW-2 Date: 2/3/04 Time: 1300 Sampler: ACH

### EQUIPMENT CALIBRATION

PH 4-7.0 7.00 = 4.00 TIME \_\_\_\_\_ CONDUCTIVITY \_\_\_\_\_ REDLINE TIME \_\_\_\_\_  
 1413 \_\_\_\_\_ 276 \_\_\_\_\_

DEPTH OF WELL: 15 WELL DIAMETER: 2" PERMANENT:  TEMPORARY: \_\_\_\_\_

Water Level: \_\_\_\_\_ - \_\_\_\_\_ = 5.71  
 Held - Wet = Depth To Water (Feet Below Top of Casing)

$$15 - 5.71 = 9.29 \times 0.16 = 1.5 \text{ gal}$$

$$1.5 \times 5 = 7.5 \text{ gal}$$

2-inch diameter well: Gallons of water in well = (Depth of well - Depth to water) X 0.1632

Volume	CUMULATIVE VOLUME	TEMPERATURE (Degrees Celsius)	CONDUCTIVITY	pH	NTU / D.O
1	1	22.9	661	7.1	39 / 0.3
2	2	22.9	669	7.2	15.1 / 0.3
3	4.5	23.0	679	7.1	12.7 / 0.3
4	6	23.0	680	7.1	10.9 / 0.3
5	7.5	23.0	676	7.2	9.9 / 0.3
DUPLICATE VOLUME #					

NOTES:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





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## GROUNDWATER SAMPLING WORKSHEET

SAMPLE LOG: 03-

Client: SMR Location: CORPORATE PARK  
 Well No. MW-14 Date: 2/3/04 Time: 1200 Sampler: SCU

### EQUIPMENT CALIBRATION

PH 7.0/4.0 7.00 = 4.00 TIME \_\_\_\_\_ CONDUCTIVITY \_\_\_\_\_ REDLINE TIME \_\_\_\_\_  
 1413 \_\_\_\_\_ 276 \_\_\_\_\_

DEPTH OF WELL: 15 WELL DIAMETER: 2" PERMANENT:  TEMPORARY: \_\_\_\_\_

Water Level: \_\_\_\_\_ = 4.59  
 Held - Wet = Depth To Water (Feet Below Top of Casing)

$$15 - 4.59 = 10.51 \times 0.16 = 1.6 \text{ gal}$$

$$1.6 \times 5 = 8 \text{ gal}$$

2-inch diameter well: Gallons of water in well = (Depth of well - Depth to water) X 0.1632

Volume	CUMULATIVE VOLUME	TEMPERATURE (Degrees Celsius)	CONDUCTIVITY	pH	NTU / D.O.
1	1	20.8	667	7.1	8.5 / 0.4
2	2	20.7	658	7.2	7.1 / 0.4
3	4	20.9	657	7.2	7.0 / 0.3
4	6	20.8	661	7.2	7.1 / 0.4
5	8	20.7	693	7.2	6.3 / 0.4
DUPLICATE VOLUME #					

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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## GROUNDWATER SAMPLING WORKSHEET

SAMPLE LOG: 03-

Client: SMR Location: CORPORATE PARK  
 Well No. MW-5 Date: 2/3/04 Time: 1000 Sampler: ACH

### EQUIPMENT CALIBRATION

PH 7.0/4.0 7.00 = 4.00 TIME \_\_\_\_\_ CONDUCTIVITY \_\_\_\_\_ REDLINE TIME \_\_\_\_\_  
 1413 \_\_\_\_\_ 276 \_\_\_\_\_

DEPTH OF WELL: 15 WELL DIAMETER: 2" PERMANENT: X TEMPORARY: \_\_\_\_\_

Water Level: \_\_\_\_\_ = 6.32  
 Held - Wet = Depth To Water (Feet Below Top of Casing)

$15 - 6.32 = 1.4 \text{ gallons} \times 5 = 7 \text{ gallons}$

2-inch diameter well: Gallons of water in well = (Depth of well - Depth to water) X 0.1632

Volume	CUMULATIVE VOLUME	TEMPERATURE (Degrees Celsius)	CONDUCTIVITY	pH	NTU/ D.O
1	1	20.3	80.3	6.7	2.0 / 0.9
2	2.5	20.4	78.5	6.1	2.1 / 0.8
3	3.5	20.3	80.9	5.9	1.9 / 0.7
4	5.5	20.3	79.8	5.6	1.6 / 0.7
5	7	20.4	79.6	5.5	1.2 / 0.7
DUPLICATE VOLUME #					

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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 website: eac-inc.com

## GROUNDWATER SAMPLING WORKSHEET

SAMPLE LOG: 03-

Client: SME Location: CORPORATE PARK  
 Well No. MW-6 Date: 2/3/04 Time: 1100 Sampler: Act/

### EQUIPMENT CALIBRATION

PH 7.0/4.0 7.00 = 4.00 TIME \_\_\_\_\_ CONDUCTIVITY \_\_\_\_\_ REDLINE TIME \_\_\_\_\_  
 1413 \_\_\_\_\_ 276 \_\_\_\_\_

DEPTH OF WELL: 15 WELL DIAMETER: 2" PERMANENT:  TEMPORARY: \_\_\_\_\_

Water Level: \_\_\_\_\_ = 5.38  
 Held \_\_\_\_\_ Wet \_\_\_\_\_ = Depth To Water (Feet Below Top of Casing)

$$15 - 5.38 = 9.62 \times 0.16 = 1.5 \text{ gal} \times 5 = 7.5 \text{ gal}$$

2-inch diameter well: Gallons of water in well = (Depth of well - Depth to water) X 0.1632

Volume	CUMULATIVE VOLUME	TEMPERATURE (Degrees Celsius)	CONDUCTIVITY	pH	NTU / D.O.
1	1.5	19.2	135.4	5.5	37.2 / 0.4
2	3.0	19.3	130.7	5.3	29.1 / 0.5
3	4.0	19.6	131.1	5.1	26.8 / 0.6
4	5.5	19.6	128.9	5.2	26.2 / 0.6
5	7.5	19.5	140.1	5.3	25.9 / 0.6
DUPLICATE VOLUME #					

NOTES: This well is consistently turbid, regardless of how much is purged.

APPENDIX C

*Surface Water Laboratory Reports  
&  
Field Data Sheets*

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 02/10/2004  
 Log #: L86498-1

**Sample Description:**

Lakewood Ranch - Corporate Park

**Analytical Report: SW-5**

Date Sampled: 02/02/04  
 Time Sampled: 11:30  
 Date Received: 02/02/04  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.010	02/05 11:00	02/06 17:29	SB
Calcium Hardness	210	mg/l	SM2340B	0.18	02/05 11:00	02/06 17:29	SB
Magnesium Hardness	43	mg/l	SM2340B	0.40	02/05 11:00	02/06 17:29	SB
Total Hardness	250	mg/l	SM2340B	0.58	02/05 11:00	02/06 17:29	SB
Zinc	BDL	mg/l	3010/6010	0.020	02/05 11:00	02/06 17:29	SB
<b>Bacteriological</b>							
Fecal Coliform	140	cfu/100ml	SM9222D	1	02/02 15:20	02/03 15:20	SUB
Total Coliform	530	cfu/100ml	SM9222B	10	02/02 15:20	02/03 15:20	SUB
<b>Inorganics/Other</b>							
BOD	BDL	mg/L	405.1	2.0	02/03 12:30	02/08 11:00	MA
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	02/04 10:24	02/04 10:24	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/03 15:44	02/03 15:44	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/03 15:44	02/03 15:44	MG
Oil/Grease	BDL	mg/l	1664	4.4	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.19	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Dissolved Solids	410	mg/l	160.1	10	02/05 11:45	02/05 11:45	SR
Total Kjeldahl Nitrogen as	1.5	mg/l	351.2	0.40	02/04 12:00	02/06 10:21	EF
Nitrogen, Total as N	1.5	mg/l	Calc	0.50	02/09 00:00	02/09 00:00	PC

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 02/10/2004  
Log #: L86498-1

Sample Description:

Lakewood Ranch - Corporate Park

Analytical Report: SW-5

Date Sampled: 02/02/04

Time Sampled: 11:30

Date Received: 02/02/04

Collected By: Client

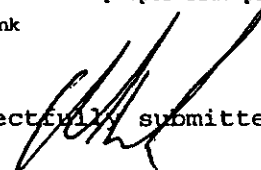
Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
-----------	---------	-------	--------	-----------------	---------------	------------------	---------

General Chemistry (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126	DOH# E86240	NC CERT# 444
SUB DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
SC CERT# 96031001	TN CERT# 02985	
USACE	GA CERT# 917	
VA CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,

  
Steve Walton  
Client Technical Svcs. Manager

04-45  
**RECEIVED**

FEB 1 / 2004

Client #: TAM-93-120319  
 Address: Enviro Audit and Compliance, Inc.  
 PO Box 337  
 Palmetto, FL 34220  
 Attn: Joe Buerhop

Page: Page 1 of 2  
 Date: 02/10/2004  
 Log #: L86498-2

**Sample Description:**

Lakewood Ranch - Corporate Park

**Analytical Report: SW-6**  
 Date Sampled: 02/02/04  
 Time Sampled: 12:00  
 Date Received: 02/02/04  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.010	02/05 11:00	02/06 17:32	SB
Calcium Hardness	290	mg/l	SM2340B	0.36	02/05 11:00	02/06 19:28	SB
Magnesium Hardness	57	mg/l	SM2340B	0.80	02/05 11:00	02/06 19:28	SB
Total Hardness	350	mg/l	SM2340B	1.2	02/05 11:00	02/06 19:28	SB
Zinc	BDL	mg/l	3010/6010	0.020	02/05 11:00	02/06 17:32	SB
<b>Bacteriological</b>							
Fecal Coliform	310	cfu/100ml	SM9222D	1	02/02 15:20	02/03 15:20	SUB
Total Coliform	1400	cfu/100ml	SM9222B	10	02/02 15:20	02/03 15:20	SUB
<b>Inorganics/Other</b>							
BOD	2.3	mg/L	405.1	2.0	02/03 12:30	02/08 11:00	MA
<b>General Chemistry</b>							
Ammonia as N	0.049	mg/l	350.1	0.020	02/04 10:24	02/04 10:24	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/03 15:44	02/03 15:44	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/03 15:44	02/03 15:44	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.12	mg/l	365.1	0.010	02/04 17:00	02/05 10:47	EF
Total Dissolved Solids	520	mg/l	160.1	10	02/05 11:45	02/05 11:45	SR
Total Kjeldahl Nitrogen as Nitrogen, Total as N	1.2	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
	1.2	mg/l	Calc	0.50	02/09 13:00	02/09 13:00	TW

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 02/10/2004  
Log #: L86498-2

Sample Description:

Lakewood Ranch - Corporate Park

Analytical Report: SW-6  
Date Sampled: 02/02/04  
Time Sampled: 12:00  
Date Received: 02/02/04  
Collected By: Client

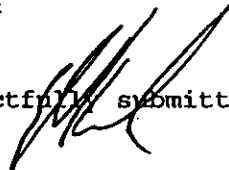
Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
-----------	---------	-------	--------	-----------------	---------------	------------------	---------

General Chemistry (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126	DOH# E86240	NC CERT# 444
SUB DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
SC CERT# 96031001	TN CERT# 02985	
USACE	GA CERT# 917	
VA CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,

  
Steve Walton  
Client Technical Svcs. Manager



RECEIVED

FEB 17 2004

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 1 of 2  
Date: 02/10/2004  
Log #: L86498-3

Sample Description:

Lakewood Ranch - Corporate Park

Analytical Report: SW-7  
Date Sampled: 02/02/04  
Time Sampled: 17:00  
Date Received: 02/02/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Subcontracted Services</b>							
Subcontract Lab 1	E84589		9222D/B				SUB
<b>Metals</b>							
Copper	BDL	mg/l	3010/6010	0.010	02/05 11:00	02/06 17:02	SB
Calcium Hardness	21	mg/l	SM2340B	0.18	02/05 11:00	02/06 17:02	SB
Magnesium Hardness	7.1	mg/l	SM2340B	0.40	02/05 11:00	02/06 17:02	SB
Total Hardness	28	mg/l	SM2340B	0.58	02/05 11:00	02/06 17:02	SB
Zinc	BDL	mg/l	3010/6010	0.020	02/05 11:00	02/06 17:02	SB
<b>Bacteriological</b>							
Fecal Coliform	160	cfu/100ml	SM9222D	1	02/02 15:20	02/03 15:20	SUB
Total Coliform	3900	cfu/100ml	SM9222B	100	02/02 15:20	02/03 15:20	SUB
<b>Inorganics/Other</b>							
BOD	2.5	mg/L	405.1	2.0	02/03 12:30	02/08 11:00	MA
<b>General Chemistry</b>							
Ammonia as N	BDL	mg/l	350.1	0.020	02/04 10:24	02/04 10:24	MG
NO2+NO3 as N	BDL	mg/l	300.0	0.10	02/03 15:44	02/03 15:44	MG
Orthophosphate as P	BDL	mg/l	300.0	0.25	02/03 15:44	02/03 15:44	MG
Oil/Grease	BDL	mg/l	1664	4.0	02/05 12:00	02/05 12:00	TM
Total Phosphorus as P	0.029	mg/l	365.1	0.010	02/04 17:00	02/05 18:47	EF
Total Dissolved Solids	52	mg/l	160.1	10	02/05 11:45	02/05 11:45	SR
Total Kjeldahl Nitrogen as Nitrogen, Total as N	0.57	mg/l	351.2	0.40	02/05 16:00	02/06 12:47	EF
	0.57	mg/l	Calc	0.50	02/09 13:00	02/09 13:00	TW

Client #: TAM-93-120319  
Address: Enviro Audit and Compliance, Inc.  
PO Box 337  
Palmetto, FL 34220  
Attn: Joe Buerhop

Page: Page 2 of 2  
Date: 02/10/2004  
Log #: L86498-3

Sample Description:

Lakewood Ranch - Corporate Park

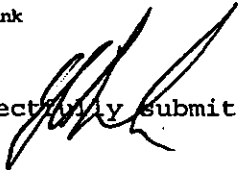
Analytical Report: SW-7  
Date Sampled: 02/02/04  
Time Sampled: 17:00  
Date Received: 02/02/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
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General Chemistry (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126	DOH# E86240	NC CERT# 444
SUB DOH# 86122,86109,E86048	ADEM ID# 40850	IL CERT# 200020
SC CERT# 96031001	TN CERT# 02985	
USACE	GA CERT# 917	
VA CERT# 00395	USDA Soil Permit# S-35240	

Respectfully submitted,  
  
Steve Walton  
Client Technical Svcs. Manager

Received ON WET ICE? Temp \_\_\_\_\_  
 PROPER PRESERVATIVES indicated?  
 Received WITHIN HOLDING TIME?  
 CUSTODY SEALS INTACT?  
 VOLATILES rec'd W/OUT HEADSPACE?  
 PROPER CONTAINERS used?

Company Name EAC-Palmetto PO# \_\_\_\_\_  
 Address PO Box 337  
 City Palmetto State FL Zip 34220  
 Attn: Joe Buerkopf Phone 941-722-2948  
 Project Name Lakewood Ranch - Corporate Park  
 Sampler Name/Signature \_\_\_\_\_ Phone 941-722-0367

1	7	1	1	1	1	1	1	1		
BOD-5	AT	Total Coliform	Fecal Coliform	T-NIT-NH3	TKN	Mercury, Cu, Zn	O+G	Orthophosphate		
	cit/total	CF	CF	CF	CF	CF	CF	CF		
X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X

**Matrix Codes\***

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H <sub>2</sub> O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SU	Surface Water	O	Other
ML	Misc. Liquid		(Please Specify)

**Pres/Codes**

A. None	G. Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
B. HNO <sub>3</sub>	H. NaHSO <sub>4</sub>
C. H <sub>2</sub> SO <sub>4</sub>	I. ICE
D. NaOH	J. MCAA
E. HCL	K. Zn Acetate
F. MeOH	O. Other

Sample ID	Matrix	Date	Time	Code*	Remarks
01	SW-5	2/2/04	11:30	SW 7	Unusual
02	SW-6	2/2/04	12:00	↓	↓
03	SW-7	2/2/04	12:00	↓	↓
04					
05					
06					
07					
08					
09					
00					

**REMARKS**

Del. blobs

Y  N Date required Y  N  None  1  2  3  Other  Y  N NP

Kit	M. Maderna	1/22/04	1208	Alan L. Hays	1/22/04	1208
1-3	Alan L. Hays	2/2/04	1315	M. Maderna	2/2/04	1315
1-3	M. Maderna	2/2/04	1208	LE	2/2/04	1208
#				Kenneth B.	3/3/04	1123

3231 N.W. 7th Avenue  
 Boca Raton, FL 33431  
 888-862-LABS  
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 C.O.C. # 71947



Enviro-Audit & Compliance, Inc.  
 P.O. Box 337, Palmetto, Florida 34220  
 (941) 722-0367  
 Fax: (941) 722-2948  
 eac-inc.com

Sampler: A-LAN HIPP  
 Signature: [Signature]  
 Date: 2/2/04

Parameters

Project: SME  
 Location: CORPORATE PARK

Field Log No.	Depth Sample Taken	Time	Well or Station ID						NTU	Dissolved Oxygen	Temperature (C)	pH	Conductivity	Notes
04-44		1130	SW-5						2.7	5.1	16.9	8.2	529	below gauge
04-45		1200	SW-6						3.6	6.7	18.2	8.2	566	S.G. Destroyed
04-46		1100	SW-7						2.0	10.1	18.4	8.5	74.0	<del>36</del> 29.15'

Turbidity (Calibration) Time: <u>900</u> Expected: <u>20.0</u> Reading: <u>19.9</u> Corrected: <u>0.1</u>	Dissolved Oxygen (Calibration) Time: <u>900</u> Reading: <u>7.24</u>	Temperature (C) Time: <u>900</u> Reading: <u>25.1</u>	pH (Calibration) Time: <u>900</u> pH 4: <u>4.0</u> pH 7: <u>7.1</u>	Conductivity (Calibration) Time: <u>900</u> Standard: <u>417</u> Reading: <u>439</u> Redline (x) _____	Notes: _____ _____ _____ _____ _____
---	--	---	--	--	---

Environmental Site Conditions:  
 Temperature: 75    Wind Speed: 5    Wind Direction: N    % Cloud Cover: 10    Tide: -



**EAC**  
ENVIRONMENTAL  
AFFAIRS  
CONSULTANTS  
INCORPORATED

SEP 25 2004

August 27, 2004

*Innovative Environmental Solutions Since 1977*

Ms. Diane Chadwick  
**WilsonMiller, Inc.**  
Suite 400N  
1101 Channelside Drive  
Tampa, FL 33602

**RE: Lakewood Ranch Corporate Park- f/k/a University Place  
Open Use Conservation Area  
Annual Habitat Monitoring  
Report #3**

In accordance with the Wildlife Management Plan for the Lakewood Ranch Corporate Park Development of Regional Impact (DRI), SMR Communities submits the following monitoring report. This is the third monitoring report for the upland and wetland habitat areas contained within the Open Use Conservation Area (OUC). Sampling occurred on August 6<sup>th</sup>, 10<sup>th</sup> & 23<sup>rd</sup> 2004. Please note that the Long Swamp Restoration Areas that are contained within the OUC are not included with this monitoring report, and are being monitored separately as part of the Long Swamp Restoration Project.

### **1.0 Upland Habitat Monitoring**

In order to determine the overall condition of the upland preserve area contained within the OUC, all portions of upland habitat were surveyed. Vegetation within the upland preserve area was surveyed for species composition, presence of nuisance species, and maintenance effectiveness.

Species composition within the pine flatwoods portions of the OUC appears to be near ideal. The dominant species observed consisted of: saw palmetto (*Serenoa repens*), slash pine (*Pinus elliottii*), gallberry (*Ilex glabra*), and wiregrass (*Aristida stricta*). Other species observed included rusty lyonia (*Lyonia ferruginea*), wax myrtle (*Myrica cerifera*), and winged sumac (*Rhus copallina*).

The mesic hammock portions of the OUC also appear to be in good condition, with good coverage by desirable species and very few nuisance species. Dominant species observed within the mesic hammock areas consisted of live oak (*Quercus virginiana*), laurel oak (*Quercus laurifolia*), saw palmetto, wax myrtle, and cabbage palm (*Sabal palmetto*). Other species observed included beauty-berry (*Callicarpa americana*), green briar (*Smilax spp.*), and grapevine (*Vitis spp.*)

---

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Lakewood Ranch Corporate Park- f/k/a University Place  
Open Use Conservation Area  
Annual Habitat Monitoring  
Report #3  
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Some nuisance species, including Brazilian pepper (*Schinus terebinthifolius*), and Chinese tallow (*Sapium sebiferum*) were observed within the OUC. Ongoing maintenance of nuisance species through mechanical and chemical treatment appears to have been effective throughout a large part of the OUC, however, some of the existing populations of the above listed nuisance species may begin to proliferate if left unchecked. Specifically, a stand of Chinese tallow trees in the southern portion of the property and Brazilian pepper growing within existing ditches and along existing fence lines may need treatment in order to avoid potential problems.

No wildlife was witnessed utilizing the upland habitats in the OUC, although some evidence of feral hog rutting activities was observed within the western portion of the site.

The last controlled burn that was performed within the OUC, in winter of 2004, appears to have been effective in maintaining a low population of hardwoods in the flatwoods areas, without affecting the existing pine populations. Manual and chemical treatment of observed nuisance species is ongoing, and occurs whenever necessary.

## 2.0 Wetland Habitat Monitoring

The wetland areas contained within the OUC were individually visited in order to evaluate them for species composition, nuisance species, and wildlife utilization. Overall, all of the wetlands contained within the OUC appear to be in very good condition, with very good species composition, and few observed nuisance species populations. Generally, all observed nuisance species comprised 5% or less of total vegetative cover within each wetland. Exceptions to this include wetlands #21 & #52, which are in fair condition, displaying 10% nuisance coverage and wetlands # 9, #20, #46 & #53/54 which are in poor condition, displaying 15% nuisance coverage. Nuisance species were typically found in the buffer zones and included such species as: Brazilian pepper (*Schinus terebinthifolius*), Primrose willow (*Ludwigia peruviana*), cattails (*Typha* spp.) and Chinese tallow tree (*Sapium sebiferum*). Additional maintenance has been scheduled for these wetland buffers. Please see the attached Table 1, listing the results of the survey of each individual wetland.

Many wading birds were witnessed utilizing the wetlands in the OUC including: snowy egrets (*Egretta thula*), great egrets (*Ardea alba*), little blue herons (*Egretta caerulea*), anhingas (*Anhinga anhinga*), and tri-colored herons (*Egretta tricolor*). A red-shouldered hawk (*Buteo lineatus*) was also seen perched in wetland #9.

**Lakewood Ranch Corporate Park- f/k/a University Place  
Open Use Conservation Area  
Annual Habitat Monitoring  
Report #3  
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**3.0 Conclusions**

It appears that both the upland and wetland habitat areas contained within the OUC are in good condition, with all areas exhibiting good desirable species composition, very few nuisance species, and good wildlife utilization. Additionally, the maintenance activities that are being performed within the OUC to control nuisance species and maintain habitat characteristics have been effective. The maintenance of the OUC conservation areas is ongoing, with very close attention being paid to any observed problems. Continued nuisance species control and eradication methods should be implemented, however, to ensure the long-term success of these areas and maintain existing habitat characteristics.

If you have any questions concerning this report or the data herein, please do not hesitate to contact our office.

Sincerely,



Sara Mapes  
Environmental Specialist

Attachments: Table 1

cc: Mr. Roger Hill, Schroeder-Manatee, Inc.  
Ms. Diane Chadwick, WilsonMiller, Inc.  
Mr. Jim Beaver, FWC

Lakewood Ranch Corporate Park  
OUC Wetland Habitat Monitoring  
Table 1: Species Composition

Wetland #1- Excellent condition, nuisance 1%>, water level 2"+

Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Muscadine grape (*Vitis rotundifolia*)
- Saw palmetto (*Serenoa repens*)
- Saltbush (*Baccharis halimifolia*)
- Gallberry (*Ilex glabra*)
- Broom Sedge (*Andropogon* spp.)
- Goldenrod (*Solidago* spp.)

(Interior)

- Pickerelweed (*Pontederia cordata*)
- Rushes (*Juncus* spp.)
- Broom Sedge (*Andropogon* spp.)
- Maidencane (*Panicum hemitomon*)
- Red root (*Lachnanthes caroliniana*)
- Wax myrtle (*Myrica cerifera*)
- Pipewort (*Eriocaulon* spp.)
- Coinwort (*Centella asiatica*)

Wetland #2- Good condition, nuisance 5%, water level 6"+

Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Carolina willow (*Salix caroliniana*)
- Peruvian primrose (*Ludwigia peruviana*)
- Cattail (*Typha* spp.)
- Sand cord grass (*Spartina bakeri*)

(Interior)

- St. John's wort (*Hypericum fasciculatum*)
- Maidencane (*Panicum hemitomon*)
- Smartweed (*Polygonum punctatum*)
- Pickerelweed (*Pontederia cordata*)
- Rushes (*Juncus* spp.)

Wetland #3/4- Good condition, nuisance 5%>, water level 4"+

Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)
- Cattail (*Typha* spp.)
- Peruvian primrose (*Ludwigia peruviana*)
- Chain fern (*Woodwardia* spp.)
- Brazilian pepper (*Schinus terebinthifolius*)
- Dog fennel (*Eupatorium* spp.)

(Interior)

- Pickerelweed (*Pontederia cordata*)
- St. John's wort (*Hypericum fasciculatum*)
- Maidencane (*Panicum hemitomon*)
- Duck potato (*Sagittaria* spp.)
- Beakrush (*Rhynchospora* spp.)
- Water lily (*Nymphaea* spp.)



Lakewood Ranch Corporate Park  
OUC Wetland Habitat Monitoring  
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Wetland #5/6- Excellent condition, nuisance 1%>, water level 5"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Caric sedges (*Carex* spp.)
- St. John's wort (*Hypericum fasciculatum*)
- Saltbush (*Baccharis halimifolia*)
- Maidencane (*Panicum hemitomon*)

(Interior)

- Pickerelweed (*Pontederia cordata*)
- Arrowhead (*Sagittaria lancifolia*)
- Beakrush (*Rhynchospora* spp.)
- Sand cord grass (*Spartina bakeri*)
- Buttonbush (*Cephalanthus occidentalis*)

Wetland #7- Excellent condition, nuisance 1%>, water level 1"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)
- Musky mint (*Hyptis alata*)
- Saltbush (*Baccharis halimifolia*)
- Gallberry (*Ilex glabra*)

(Interior)

- St. John's wort (*Hypericum fasciculatum*)
- Maidencane (*Panicum hemitomon*)
- Pickerelweed (*Pontederia cordata*)
- Beakrush (*Rhynchospora* spp.)
- Broom Sedge (*Andropogon* spp.)

Wetland #8- Excellent condition, nuisance 1%>, water level 1"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)
- Slash pine (*Pinus elliottii*)
- Winged sumac (*Rhus copallinum*)

(Interior)

- St. John's wort (*Hypericum fasciculatum*)
- Maidencane (*Panicum hemitomon*)
- Pickerelweed (*Pontederia cordata*)
- Beakrush (*Rhynchospora* spp.)
- Broom Sedge (*Andropogon* spp.)

Wetland #9- Poor condition, nuisance 15%, water level 1"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)
- Slash pine (*Pinus elliottii*)
- Winged sumac (*Rhus copallinum*)
- Saltbush (*Baccharis halimifolia*)
- Brazilian pepper (*Schinus terebinthifolius*)

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- Peruvian primrose (*Ludwigia peruviana*)
- (Interior)
- Maidencane (*Panicum hemitomon*)
  - Red root (*Lachnanthes caroliana*)
  - Broom Sedge (*Andropogon spp.*)
  - Red ludwigia (*Ludwigia repens*)
  - Primrose willow (*Ludwigia peruviana*)
  - Musky mint (*Hyptis alata*)
  - Pipewort (*Eriocaulon spp.*)
  - Hemp vine (*Mikania scandens*)
  - Wax myrtle (*Myrica cerifera*)

Wetland #10- Excellent condition, nuisance 1%>, water level 4"+

Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Slash pine (*Pinus elliotii*)
  - Muscadine grape (*Vitis rotundifolia*)
- (Interior)
- Pickerelweed (*Pontederia cordata*)
  - Maidencane (*Panicum hemitomon*)
  - St. John's wort (*Hypericum fasciculatum*)
  - Beakrush (*Rhynchospora spp.*)
  - Pipewort (*Eriocaulon spp.*)

Wetland #11/12- Good condition, nuisance 5%>, soils saturated to the surface

Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Slash pine (*Pinus elliotii*)
  - Carolina willow (*Salix carolinana*)
  - Brazilian pepper (*Schinus terebinthifolius*)
  - Peruvian primrose (*Ludwigia peruviana*)
  - Broom Sedge (*Andropogon spp.*)
- (Interior)
- Broom Sedge (*Andropogon spp.*)
  - St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Bristly foxtail (*Setaria spp.*)
  - Tickseeds (*Coreopsis spp.*)
  - Pickerelweed (*Pontederia cordata*)
  - Wax myrtle (*Myrica cerifera*)

Wetland #13- Excellent condition, nuisance 1%>, water level 2"+

Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Rushes (*Juncus spp.*)
  - Broom sedge (*Andropogon spp.*)
  - Goldenrod (*Solidago spp.*)
  - Saltbush (*Baccharis halimifolia*)

Lakewood Ranch Corporate Park  
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- Pipewort (*Eriocaulon* spp.)
- (Interior)
- Pickerelweed (*Pontederia cordata*)
  - St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Broom sedge (*Andropogon* spp.)
  - Beakrush (*Rhynchospora* spp.)

Wetland #14- Excellent condition, nuisance 1%>, water level 1"+  
Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Slash pine (*Pinus elliotii*)
  - Maidencane (*Panicum hemitomon*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Pickerelweed (*Pontederia cordata*)
  - Beakrush (*Rhynchospora* spp.)
  - Maidencane (*Panicum hemitomon*)

Wetland #15- Good condition, nuisance 5%>, water level 4"+  
Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Slash pine (*Pinus elliotii*)
  - Chain fern (*Woodwardia* spp.)
  - Peruvian primrose (*Ludwigia peruviana*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Red root (*Lachnanthes caroliniana*)
  - Maidencane (*Panicum hemitomon*)
  - Beakrush (*Rhynchospora* spp.)
  - Cattail (*Typha* spp.)

Wetland #16- Excellent condition, nuisance 1%>, water level 1"+  
Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Gallberry (*Ilex glabra*)
- (Interior)
- Beakrush (*Rhynchospora* spp.)
  - St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Pickerelweed (*Pontederia cordata*)
  - Broom sedge (*Andropogon* spp.)

Wetland #17- Good condition, nuisance 5%>, water level 2"+  
Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)

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- Saw palmetto (*Serenoa repens*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Pickerelweed (*Pontederia cordata*)
  - Broom sedge (*Andropogon spp.*)

Wetland #18- Good condition, nuisance 5%, water level 4"+  
Observed plant species:

- (Buffer)
- Laurel oak (*Quercus laurifolia*)
  - Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Muscadine grape (*Vitis rotundifolia*)
- (Interior)
- Black gum (*Nyssa sylvatica*)
  - Peruvian primrose (*Ludwigia peruviana*)
  - Buttonbush (*Cephalanthus occidentalis*)
  - Maidencane (*Panicum hemitomon*)
  - Pickerelweed (*Pontederia cordata*)
  - Carolina willow (*Salix caroliniana*)

Wetland #19- Excellent condition, nuisance 1%>, water level 4"+  
Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Live oak (*Quercus virginiana*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Pickerelweed (*Pontederia cordata*)
  - Cordgrass (*Spartina bakeri*)
  - Buttonbush (*Cephalanthus occidentalis*)

Wetland #20- Poor condition, nuisance 15%, water level 4"+  
Observed plant species:

- (Buffer)
- Wax myrtle (*Myrica cerifera*)
  - Saw palmetto (*Serenoa repens*)
  - Red maple (*Acer rubrum*)
  - Peruvian primrose (*Ludwigia peruviana*)
  - Brazilian pepper (*Schinus terebinthifolius*)
  - Chinese tallow tree (*Sapium sebiferum*)
- (Interior)
- Maidencane (*Panicum hemitomon*)
  - St. John's wort (*Hypericum fasciculatum*)
  - Buttonbush (*Cephalanthus occidentalis*)
  - Hemp vine (*Mikania scandens*)
  - Peruvian primrose (*Ludwigia peruviana*)
  - Water-hyssops (*Bacopa spp.*)

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Wetland #21- Fair condition, nuisance 10%, water level 2"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)
- Cabbage palm (*Sabal palmetto*)
- Winged sumac (*Rhus copallinum*)
- Carolina willow (*Salix caroliniana*)
- Brazilian pepper (*Schinus terebinthifolius*)
- Cattail (*Typha* spp.)
- Chinese tallow tree (*Sapium sebiferum*)

(Interior)

- Maidencane (*Panicum hemitomon*)
- Pickerelweed (*Pontederia cordata*)
- Musky mint (*Hyptis alata*)

Wetland #23- Good condition, nuisance 5%>, water level 4"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)
- Slash pine (*Pinus elliottii*)
- Saltbush (*Baccharis halimifolia*)
- Cattail (*Typha* spp.)

(Interior)

- Maidencane (*Panicum hemitomon*)
- St. John's wort (*Hypericum fasciculatum*)
- Broom sedge (*Andropogon* spp.)
- Pickerelweed (*Pontederia cordata*)

Wetland #25- Good condition, nuisance 5%>, water level 2"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)

(Interior)

- Maidencane (*Panicum hemitomon*)
- St. John's wort (*Hypericum fasciculatum*)
- Broom sedge (*Andropogon* spp.)
- Pickerelweed (*Pontederia cordata*)
- Alligator flag (*Thalia geniculata*)

Wetland #26- Good condition, nuisance 5%>, water level 2"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)

(Interior)

- Maidencane (*Panicum hemitomon*)
- St. John's wort (*Hypericum fasciculatum*)
- Broom sedge (*Andropogon* spp.)
- Alligator flag (*Thalia geniculata*)
- Primrose willow (*Ludwigia peruviana*)

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Wetland #27- Excellent condition, nuisance 1%>, water level 1"+

Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Saw palmetto (*Serenoa repens*)
- Slash pine (*Pinus elliotii*)
- Goldenrod (*Solidago* spp.)

(Interior)

- Maidencane (*Panicum hemitomon*)
- St. John's wort (*Hypericum fasciculatum*)
- Beakrush (*Rhynchospora* spp.)
- Pipewort (*Eriocaulon* spp.)

Wetland #28/29- Excellent condition, nuisance 1%>, water level 2"+

Observed plant species:

(Buffer)

- Slash pine (*Pinus elliotii*)
- Carolina willow (*Salix caroliniana*)
- Saw palmetto (*Serenoa repens*)
- Brazilian pepper (*Schinus terebinthifolius*)
- Wax myrtle (*Myrica cerifera*)
- Yellow-eyed grass (*Xyris* spp.)

(Interior)

- Maidencane (*Panicum hemitomon*)
- St. John's wort (*Hypericum fasciculatum*)
- Pickerelweed (*Pontederia cordata*)
- Sand cord grass (*Spartina bakeri*)
- Beakrush (*Rhynchospora* spp.)
- Pipewort (*Eriocaulon* spp.)

Wetland #30/31- Good condition, nuisance 5%, water level 2"+

Observed plant species:

(Buffer)

- Saw palmetto (*Serenoa repens*)
- Wax myrtle (*Myrica cerifera*)
- Winged sumac (*Rhus copallinum*)
- Slash pine (*Pinus elliotii*)

(Interior)

- St. John's wort (*Hypericum fasciculatum*)
- Maidencane (*Panicum hemitomon*)
- Pickerelweed (*Pontederia cordata*)
- Beakrush (*Rhynchospora* spp.)
- Cattail (*Typha* spp.)

Wetland #35- Good condition, nuisance 5%, water level 2"+

Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Slash pine (*Pinus elliotii*)
- Brazilian pepper (*Schinus terebinthifolius*)
- Peruvian primrose (*Ludwigia peruviana*)

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(Interior)

- St. John's wort (*Hypericum fasciculatum*)
- Maidencane (*Panicum hemitomon*)
- Pickerelweed (*Pontederia cordata*)

Wetland #37- Excellent condition, nuisance 1%>, water level 2"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Slash pine (*Pinus elliotii*)

(Interior)

- Sand cord grass (*Spartina bakeri*)
- Maidencane (*Panicum hemitomon*)
- Duck potato (*Sagittaria* spp.)

Wetland #38- Good condition, nuisance 5%>, water level 2"+  
Observed plant species:

(Buffer)

- Slash pine (*Pinus elliotii*)
- Carolina willow (*Salix caroliniana*)
- Wax myrtle (*Myrica cerifera*)
- Saltbush (*Baccharis halimifolia*)

(Interior)

- St. John's wort (*Hypericum fasciculatum*)
- Maidencane (*Panicum hemitomon*)
- Beakrush (*Rhynchospora* spp.)
- Pickerelweed (*Pontederia cordata*)
- Duck potato (*Sagittaria* spp.)
- Pipewort (*Eriocaulon* spp.)
- Bristly foxtail (*Setaria* spp.)

Wetland #40/41- Good condition, nuisance 5%, water level 2"+  
Observed plant species:

(Buffer)

- Wax myrtle (*Myrica cerifera*)
- Slash pine (*Pinus elliotii*)
- Saw palmetto (*Serenoa repens*)
- Chain fern (*Woodwardia* spp.)
- Brazilian pepper (*Schinus terebinthifolius*)
- Peruvian primrose (*Ludwigia peruviana*)
- Cattail (*Typha* spp.)

(Interior)

- Buttonbush (*Cephalanthus occidentalis*)
- Maidencane (*Panicum hemitomon*)
- Broom sedge (*Andropogon* spp.)
- Beakrush (*Rhynchospora* spp.)
- Pickerelweed (*Pontederia cordata*)
- Musky mint (*Hyptis alata*)

Wetland #43/44- Good condition, nuisance 5%, water level 2"+  
Observed plant species:

(Buffer)

- Slash pine (*Pinus elliotii*)

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OUC Wetland Habitat Monitoring  
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- Saw palmetto (*Serenoa repens*)
  - Chain fern (*Woodwardia* spp.)
  - Peruvian primrose (*Ludwigia peruviana*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Pickerelweed (*Pontederia cordata*)
  - Cattail (*Typha* spp.)
  - Wax myrtle (*Myrica cerifera*)
  - Duck potato (*Sagittaria* spp.)
  - Bristly foxtail (*Setaria* spp.)

Wetland #45- Good condition, nuisance 5%, water level 2"+  
Observed plant species:

- (Buffer)
- Slash pine (*Pinus elliottii*)
  - Saw palmetto (*Serenoa repens*)
  - Wax myrtle (*Myrica cerifera*)
  - Red maple (*Acer rubrum*)
  - Laurel oak (*Quercus laurifolia*)
  - Peruvian primrose (*Ludwigia peruviana*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Broom sedge (*Andropogon* spp.)
  - Pickerelweed (*Pontederia cordata*)
  - Sand cord grass (*Spartina bakeri*)

Wetland #46- Poor condition, nuisance 15%, water level 2"+  
Observed plant species:

- (Buffer)
- Slash pine (*Pinus elliottii*)
  - Saw palmetto (*Serenoa repens*)
  - Wax myrtle (*Myrica cerifera*)
  - Cabbage palm (*Sabal palmetto*)
  - Muscadine grape (*Vitis rotundifolia*)
  - Peruvian primrose (*Ludwigia peruviana*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Broom sedge (*Andropogon* spp.)
  - Pickerelweed (*Pontederia cordata*)
  - Cattail (*Typha* spp.)

Wetland #47- Good condition, nuisance 5%, water level 2"+  
Observed plant species:

- (Buffer)
- Slash pine (*Pinus elliottii*)
  - Saw palmetto (*Serenoa repens*)
  - Wax myrtle (*Myrica cerifera*)
  - Brazilian pepper (*Schinus terebinthifolius*)
  - Peruvian primrose (*Ludwigia peruviana*)
  - Cattail (*Typha* spp.)



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- Saltbush (*Baccharis halimifolia*)
- (Interior)
- Alligator flag (*Thalia* spp.)
  - Pickerelweed (*Pontederia cordata*)
  - Beakrush (*Rhynchospora* spp.)
  - Maidencane (*Panicum hemitomon*)

Wetland #50- Excellent condition, nuisance 1%>, water level 2"+  
Observed plant species:

- (Buffer)
- Slash pine (*Pinus elliottii*)
  - Saw palmetto (*Serenoa repens*)
  - Wax myrtle (*Myrica cerifera*)
  - Saltbush (*Baccharis halimifolia*)
- (Interior)
- Sand cord grass (*Spartina bakeri*)
  - Broom sedge (*Andropogon* spp.)
  - Pickerelweed (*Pontederia cordata*)
  - Alligator flag (*Thalia* spp.)
  - St. John's wort (*Hypericum fasciculatum*)
  - Duck potato (*Sagittaria* spp.)
  - Caric sedges (*Carex* spp.)

Wetland #51- Excellent condition, nuisance 1%>, water level 2"+  
Observed plant species:

- (Buffer)
- Slash pine (*Pinus elliottii*)
  - Saw palmetto (*Serenoa repens*)
  - Wax myrtle (*Myrica cerifera*)
  - Saltbush (*Baccharis halimifolia*)
- (Interior)
- St. John's wort (*Hypericum fasciculatum*)
  - Maidencane (*Panicum hemitomon*)
  - Buttonbush (*Cephalanthus occidentalis*)
  - Yellow-eyed grass (*Xyris* spp.)
  - Pickerelweed (*Pontederia cordata*)
  - Broom sedge (*Andropogon* spp.)
  - Hair grass (*Eleocharis* spp.)

Wetland #52- Fair condition, nuisance 5-10%, water level 4"+  
Observed plant species:

- (Buffer)
- Brazilian pepper (*Schinus terebinthifolius*)
  - Primrose willow (*Ludwigia peruviana*)
  - Caesar weed (*Urena lobata*)
  - Dog fennel (*Eupatorium* spp.)
  - Aster (*Aster* spp.)
- (Interior)
- Laurel oak (*Quercus laurifolia*)
  - Cabbage palm (*Sabal palmetto*)
  - Brazilian pepper (*Schinus terebinthifolius*)
  - Peruvian primrose (*Ludwigia peruviana*)
  - Wax myrtle (*Myrica cerifera*)

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- Primrose willow (*Ludwigia peruviana*)
- Chain fern (*Woodwardia* spp.)
- Muscadine grape (*Vitis rotundifolia*)

Wetland #53/54- Poor condition, nuisance 15%, water level 2"+  
Observed plant species:

(Buffer)

- Brazilian pepper (*Schinus terebinthifolius*)
- Primrose willow (*Ludwigia peruviana*)
- Cattail (*Typha* spp.)
- Carolina willow (*Salix caroliniana*)
- Slash pine (*Pinus elliotii*)
- Wax myrtle (*Myrica cerifera*)
- Winged sumac (*Rhus copallinum*)

(Interior)

- Maidencane (*Panicum hemitomon*)
- Chain fern (*Woodwardia* spp.)
- Primrose willow (*Ludwigia peruviana*)
- St. John's wort (*Hypericum fasciculatum*)
- Saw-grass (*Cladium jamaicense*)
- Buttonbush (*Cephalanthus occidentalis*)
- Cattail (*Typha* spp.)



An Equal Opportunity Employer

# Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899  
(352) 796-7211 or 1-800-423-1476 (FL only)  
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)  
On the Internet at: WaterMatters.org

**Tampa Service Office**  
7601 Highway 301 North  
Tampa, Florida 33637-6759  
(813) 985-7481 or  
1-800-836-0797 (FL only)  
SUNCOM 578-2070

**Bartow Service Office**  
170 Century Boulevard  
Bartow, Florida 33830-7700  
(863) 534-1448 or  
1-800-492-7862 (FL only)  
SUNCOM 572-6200

**Sarasota Service Office**  
6750 Fruitville Road  
Sarasota, Florida 34240-9711  
(941) 377-3722 or  
1-800-320-3503 (FL only)  
SUNCOM 531-6900

**Lecanto Service Office**  
3600 West Sovereign Path  
Suite 226  
Lecanto, Florida 34461-8070  
(352) 527-8131  
SUNCOM 667-3271

January 27, 2003

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- Janet D. Kovach**  
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- John K. Renke, III**  
Pasco

Mr. Tim Martin  
SMR Communities  
6215 Lorraine Road  
Bradenton, Florida 34202

**Subject: Wetland Compensation Monitoring Termination**

<b>Project Name:</b>	Lakewood Ranch Corporate Park Unit 4
<b>Permit No.:</b>	44013551.009/CT106170
<b>Sec/Twp/Rge:</b>	5,6/36S/19E
<b>County:</b>	Sarasota

Dear Mr. Martin:

The Southwest Florida Water Management District (the District) received a wetland monitoring report for the referenced project on September 19, 2002. District representatives conducted a review of the subject property on January 8, 2003, in response to a request to release the project from further monitoring requirements. The results of our review indicate that the wetland compensation area meets or exceeds the success criteria listed in your permit. Based on these favorable results, the submittal of monitoring reports to the District for this area is terminated.

Please be aware that the wetland/mitigation areas located within the project area are still considered part of the overall surface water management system. Any direct or indirect activity that adversely impacts these areas will be considered to be in noncompliance with 40D-4, Florida Administrative Code, and the terms and conditions of the permit and will be subject to enforcement action by the District. The exclusion of nuisance and exotic vegetation (i.e., cattails, mykania, primrose willow, torpedo grass, Brazilian Pepper, etc.) within these areas to the percent coverage required in the permit is to be maintained in perpetuity.

Thank you for your efforts and cooperation in meeting District permitting requirements. If you have any questions, or need further assistance, please contact me at (941) 377-3722.

Sincerely,

Max Dromgoole, P.W.S.  
Environmental Scientist  
Sarasota Regulation Department

WXD:lpr

cc: File of Record  
Ms. Sarah R. Blanton, Environmental Affairs Consultants, Inc.

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