

# APPENDIX A

**APPENDIX A**

**SOLIDS CONTENTS**

**MADRID ENGINEERING GROUP, INC.**

P.O. Box 2506  
 Bartow, FL 33831  
 863/533-9007 FAX 863/533-8997

**MOISTURE CONTENT / PERCENT -200 SIEVE**

Client: Polk County Natural Resources  
 MEG Project No.: 4261  
 MEG Project Name: Lake Hancock Sediment Samples

Tested By: AL  
 Date Tested: 09-Feb-05

**Extreme Top and Bottom**

Sample Number		W <sub>C</sub> + S <sub>W</sub> (grams)	W <sub>C</sub> + S <sub>D</sub> (grams)	W <sub>C</sub> (grams)	Solids Content (percent)	Moisture Content (percent)	W <sub>C</sub> + S <sub>D</sub> (grams)	-#200 (percent)	Average	Range
BORING 5	T	272.01	16.07	8.20	3.0%	3252.1%	16.00	0.9%	15.6%	1.4 - 78.0
BORING 9	T	295.43	12.26	8.20	1.4%	6974.6%	12.24	0.5%		
BORING 11	T	219.21	26.39	8.30	8.6%	1065.9%	26.31	0.4%		
BORING 13	T	286.56	33.73	8.42	9.1%	998.9%	33.39	1.3%		
BORING 15	T	277.83	33.68	8.25	9.4%	960.1%	32.22	5.7%		
BORING 17	T	310.38	22.88	8.23	4.8%	1962.5%	20.49	16.3%		
BORING 19	T	327.15	17.30	8.05	2.9%	3349.7%	16.14	12.5%		
BORING 21	T	302.39	15.78	6.82	3.0%	3198.8%	14.09	18.9%		
BORING 23	T	323.47	16.41	8.21	2.6%	3744.6%	15.12	15.7%		
BORING 30	T	187.65	12.41	6.66	3.2%	3047.7%	8.13	74.4%		
BORING 45	T	201.28	14.42	6.69	4.0%	2417.3%	8.99	70.2%		
BORING 54	T	232.24	14.61	6.69	3.5%	2747.9%	8.67	75.0%		
BORING 62	T	215.57	14.75	6.69	3.9%	2491.6%	9.44	65.9%		
BORING 78	T	189.01	16.60	6.73	5.4%	1746.8%	10.65	60.3%		
BORING 86	T	225.96	15.53	6.71	4.0%	2385.8%	9.74	65.6%		
BORING 90	T	167.42	29.15	6.72	14.0%	616.5%	16.17	57.9%		
BORING 93	T	217.29	17.66	6.70	5.2%	1821.4%	10.68	63.7%		
BORING 108	T	206.47	19.35	6.70	6.3%	1479.2%	10.95	66.4%		
BORING 115	T	331.46	31.38	6.72	7.6%	1216.9%	16.74	59.4%		
BORING 123	T	234.79	15.77	6.78	3.9%	2436.3%	9.99	64.3%		
BORING 144	T	392.61	25.76	6.74	4.9%	1928.8%	13.01	67.0%		
BORING 153	T	248.88	175.12	6.69	69.5%	43.8%	164.29	6.4%		
BORING 159	T	395.15	309.54	6.68	78.0%	28.3%	242.60	22.1%		
BORING 166	T	410.20	248.83	6.74	60.0%	66.7%	213.50	14.6%		
BORING 170	T	233.15	27.11	6.66	9.0%	1007.5%	9.74	84.9%		
BORING 177	T	214.56	67.95	6.72	29.5%	239.4%	33.43	56.4%		
BORING 173	T	340.94	219.63	9.62	63.4%	57.8%	203.57	7.6%		
BORING 5	M	291.21	58.82	9.36	17.5%	469.9%	56.64	4.4%	16.6%	3.7 - 41.9
BORING 9	M	309.39	67.13	8.16	19.6%	410.8%	67.07	0.1%		
BORING 11	M	312.91	133.11	9.30	40.8%	145.2%	128.69	3.6%		
BORING 13	M	348.10	51.14	8.30	12.6%	693.2%	50.77	0.9%		
BORING 15	M	329.83	129.68	8.20	37.8%	164.8%	126.74	2.4%		
BORING 17	M	388.90	102.81	8.11	24.9%	302.1%	98.46	4.6%		
BORING 19	M	336.24	46.94	8.11	11.8%	745.0%	37.70	23.8%		
BORING 21	M	388.03	44.15	6.86	9.8%	922.2%	27.43	44.8%		
BORING 23	M	296.00	31.03	6.84	8.4%	1095.4%	22.23	36.4%		
BORING 30	M	314.53	47.28	6.67	13.2%	658.1%	25.45	53.8%		
BORING 45	M	292.48	39.71	6.71	11.5%	766.0%	24.89	44.9%		
BORING 54	M	339.67	35.59	6.71	8.7%	1052.9%	22.59	45.0%		
BORING 78	M	287.14	31.65	6.73	8.9%	1025.2%	20.77	43.7%		
BORING 86	M	318.20	44.03	6.67	12.0%	733.9%	31.58	33.3%		
BORING 93	M	192.41	21.98	6.69	8.2%	1114.7%	13.43	55.9%		
BORING 108	M	302.06	42.40	6.66	12.1%	726.5%	26.67	44.0%		
BORING 115	M	315.47	44.02	6.72	12.1%	727.7%	21.91	59.3%		
BORING 123	M	233.99	32.77	6.83	11.4%	775.7%	15.41	66.9%		
BORING 140	M	306.00	59.36	6.72	17.6%	468.5%	29.68	56.4%		
BORING 144	M	379.69	20.36	6.68	3.7%	2626.7%	10.35	73.2%		
BORING 170	M	193.61	45.11	6.71	20.5%	386.7%	23.55	56.1%		
BORING 177	M	143.93	65.74	9.29	41.9%	138.5%	33.69	56.8%		
BORING 173	M	257.48	49.08	8.96	16.1%	519.4%	28.87	50.4%		

**MADRID ENGINEERING GROUP, INC.**

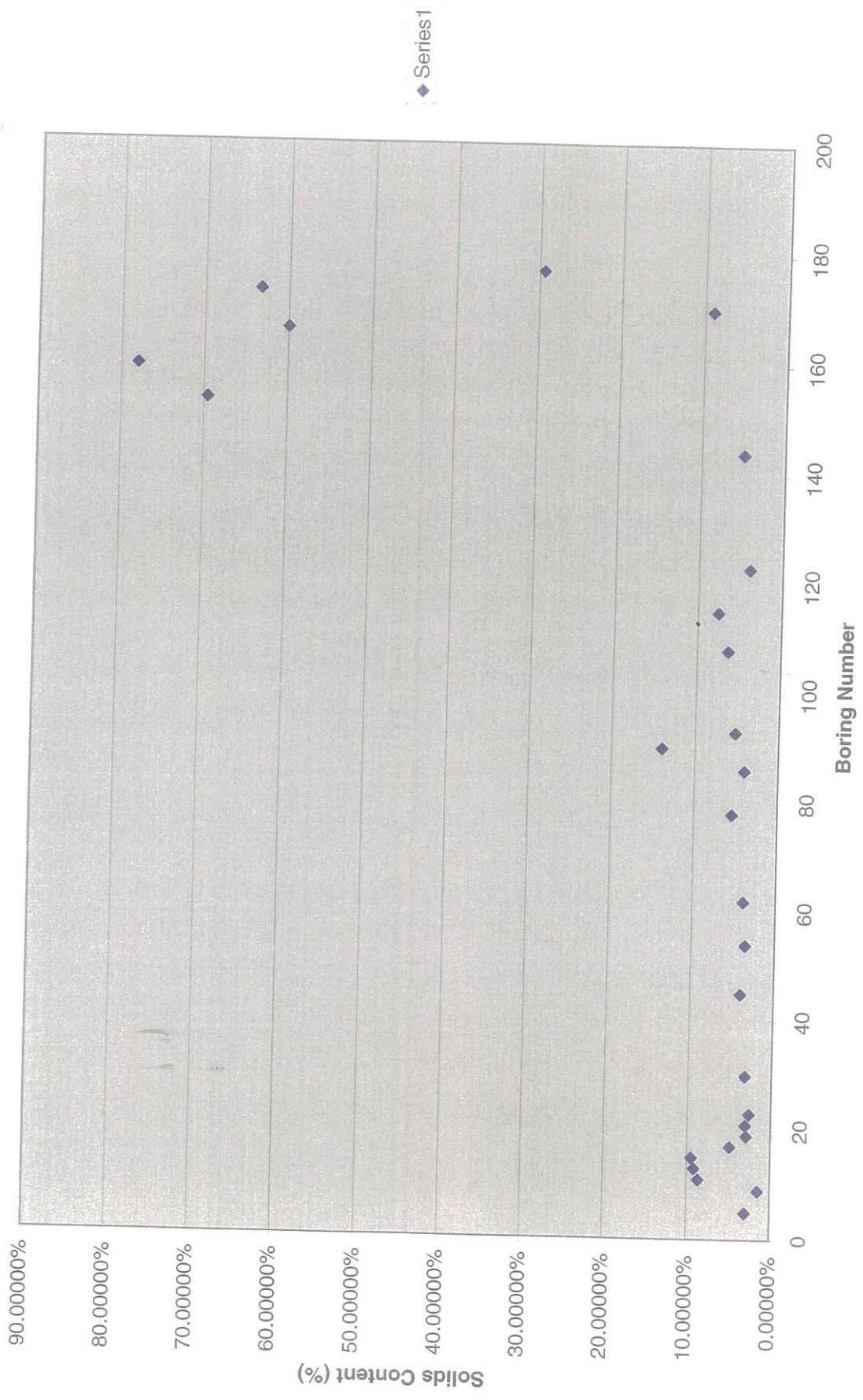
P.O. Box 2506  
 Bartow, FL 33831  
 863/533-9007 FAX 863/533-8997

**MOISTURE CONTENT / PERCENT -200 SIEVE**

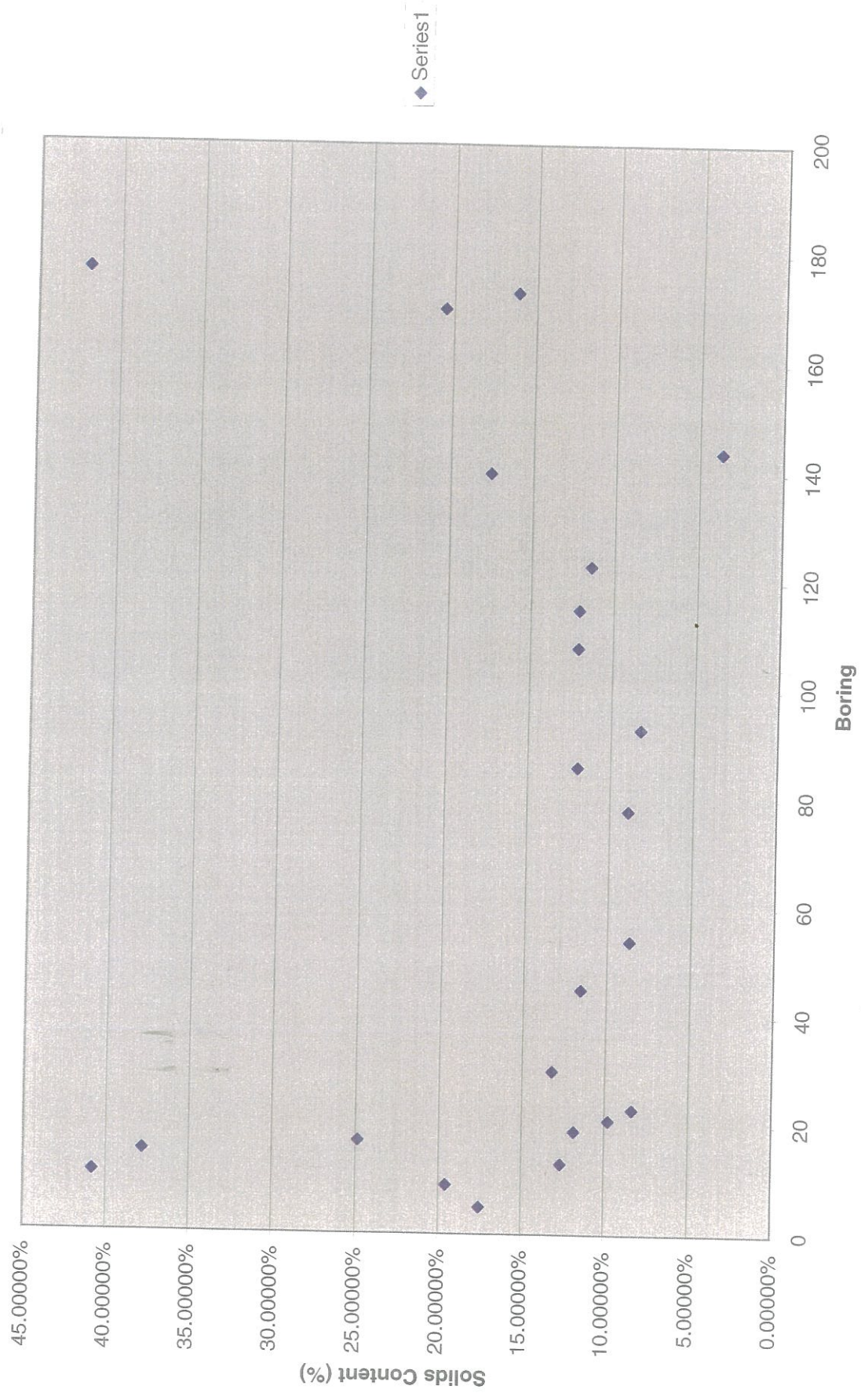
Sample Number		W <sub>C</sub> + S <sub>W</sub> (grams)	W <sub>C</sub> + S <sub>D</sub> (grams)	W <sub>C</sub> (grams)	Solids Content (percent)	Moisture Content (percent)	W <sub>C</sub> + S <sub>D</sub> (grams)	-#200 (percent)
BORING 9	B	350.47	187.05	8.80	52.2%	91.7%	115.12	40.4%
BORING 3	B	347.62	243.44	8.14	69.3%	44.3%	242.84	0.3%
BORING 5	B	205.66	86.63	8.34	39.7%	152.0%	48.49	48.7%
BORING 11	B	354.18	76.08	8.51	19.5%	411.6%	75.50	0.9%
BORING 13	B	313.27	140.12	8.42	43.2%	131.5%	108.43	24.1%
BORING 15	B	309.45	121.58	8.51	37.6%	166.2%	90.44	27.5%
BORING 17	B	246.75	145.45	6.78	57.8%	73.1%	120.69	17.9%
BORING 19	B	348.79	164.17	8.26	45.8%	118.4%	156.92	4.7%
BORING 21	B	437.80	183.63	6.80	41.0%	143.7%	146.04	21.3%
BORING 23	B	233.56	117.08	6.76	48.6%	105.6%	104.70	11.2%
BORING 30	B	477.40	317.50	6.67	66.0%	51.4%	252.07	21.1%
BORING 45	B	350.16	190.96	6.66	53.7%	86.4%	105.11	46.6%
BORING 54	B	416.90	207.69	6.68	49.0%	104.1%	117.25	45.0%
BORING 78	B	317.64	50.33	6.66	14.0%	612.1%	33.80	37.9%
BORING 86	B	349.94	160.11	6.71	44.7%	123.7%	93.33	43.5%
BORING 90	B	311.36	174.28	6.68	55.0%	81.8%	60.74	67.7%
BORING 93	B	257.54	70.38	6.76	25.4%	294.2%	40.94	46.3%
BORING 108	B	280.78	163.15	6.68	57.1%	75.2%	51.18	71.6%
BORING 115	B	241.22	30.15	6.72	10.0%	900.9%	14.61	66.3%
BORING 123	B	271.12	48.06	6.78	15.6%	540.4%	28.82	46.6%
BORING 144	B	356.49	179.14	6.68	49.3%	102.8%	88.90*	52.3%
BORING 170	B	156.05	47.20	6.74	27.1%	269.0%	33.29	34.4%
BORING 173	B	288.43	98.35	8.85	32.0%	212.4%	65.72	36.5%

BTM  
 41.5% 10.0 - 69.3

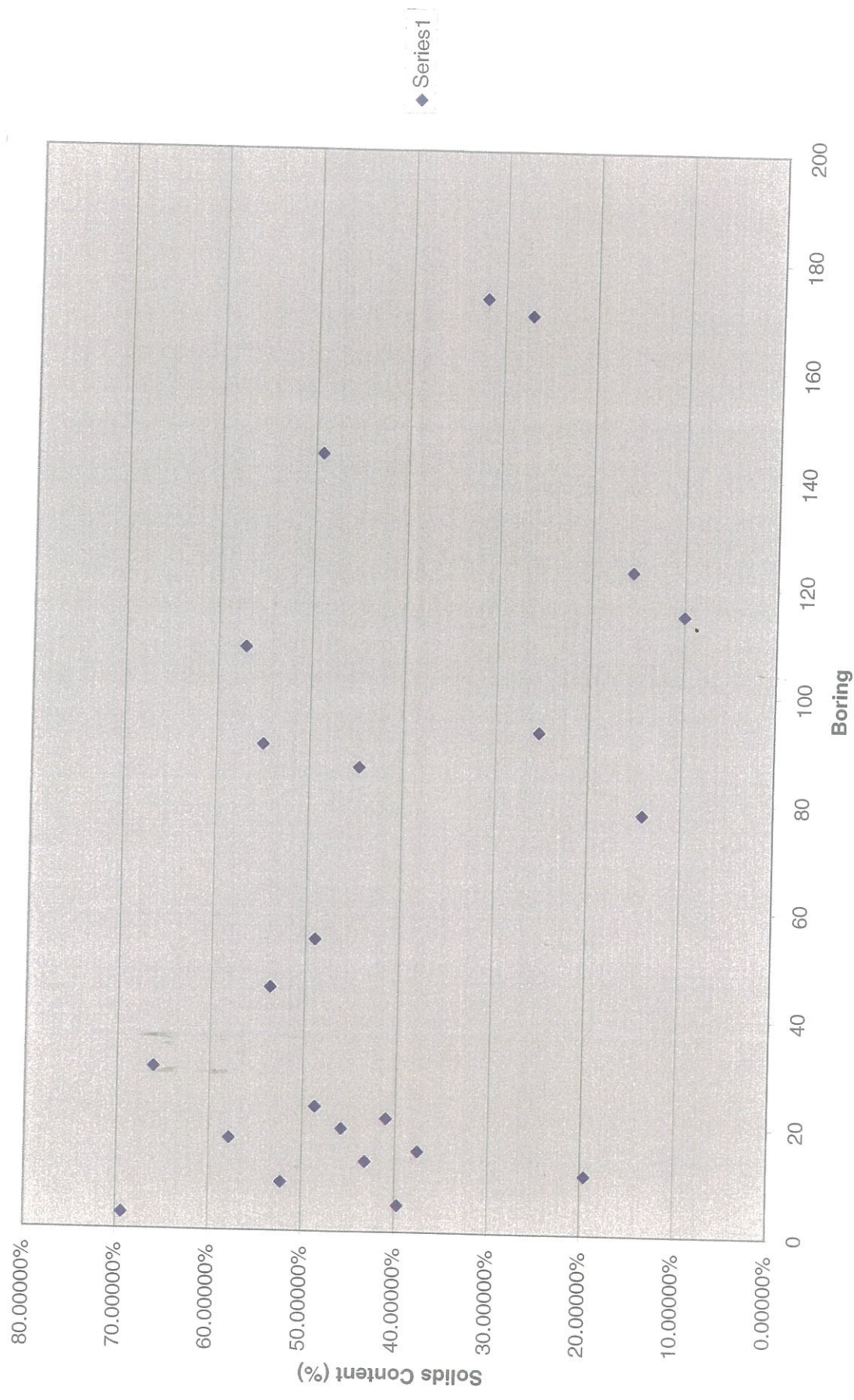
# Top Solids Content



# Middle Solids Content



# Bottom Solids Content



**MADRID ENGINEERING GROUP, INC.**

P.O. Box 2506  
 Bartow, FL 33831  
 863/533-9007 FAX 863/533-8997

**MOISTURE CONTENT / PERCENT -200 SIEVE**

Client: Polk County Natural Resources Tested By: AL  
 MEG Project No.: 4261 Date Tested: 09-Feb-05  
 MEG Project Name: Lake Hancock Sediment Samples

**Ideal Top & Bottom (6 - in. from Extreme)**

SAMPLE NUMBER/ CONTAINER ID		W <sub>C</sub> + S <sub>W</sub> (grams)	W <sub>C</sub> + S <sub>D</sub> (grams)	W <sub>C</sub> (grams)	Solids Content (percent)	Moisture Content (percent)	W <sub>C</sub> + S <sub>D</sub> (grams)	#200 (percent)	Average TOP	Range
8-31	T	330.58	59.87	6.86	16.4%	510.7%	19.26	76.6%	11.6%	3.2 - 38.5
8-33	T	315.18	54.70	6.86	15.5%	544.5%	7.55	98.6%		
8-36	T	295.85	26.39	6.75	6.8%	1372.0%	13.39	66.2%		
8-38	T	244.41	24.61	6.80	7.5%	1234.1%	10.72	78.0%		
8-40	T	229.98	35.99	6.78	13.1%	664.1%	24.89	38.0%		
8-75	T	313.82	26.37	6.76	6.4%	1465.8%	14.43	60.9%		
8-66	T	299.91	29.17	6.74	7.7%	1207.0%	8.74	91.1%		
8-69	T	176.21	12.18	6.74	3.2%	3015.3%	8.96	59.2%		
8-72	T	324.09	26.58	6.74	6.3%	1499.5%	16.28	51.9%		
8-75	T	313.82	26.37	6.76	6.4%	1465.8%	14.43	60.9%		
8-104	T	369.63	42.57	6.75	9.9%	913.1%	25.32	48.2%		
8-107	T	203.13	17.96	6.77	5.7%	1654.8%	13.53	39.6%		
8-110	T	287.82	63.27	6.76	20.1%	397.4%	9.28	95.5%		
8-113	T	285.16	114.09	6.83	38.5%	159.5%	57.12	53.1%		
8-138	T	352.72	102.14	8.51	27.2%	267.6%	83.48	19.9%		
8-141	T	313.52	39.83	8.49	10.3%	873.3%	11.26	91.2%		
8-143	T	285.67	26.40	6.73	7.1%	1318.1%	15.67	54.6%		
8-145	T	198.24	31.64	8.29	12.3%	713.5%	26.31	22.8%		
8-165	T	331.99	22.99	6.72	5.0%	1899.2%	17.37	34.5%		
8-160	T	256.71	25.12	6.77	7.3%	1262.1%	18.23	37.5%		
8-163	T	300.92	21.37	6.84	4.9%	1924.0%	11.13	70.5%		
8-0001	T	206.24	41.44	6.80	17.4%	475.8%	34.10	21.2%		
8-31	B	202.76	58.55	6.76	26.4%	278.5%	46.87	22.6%	14.4%	7.5 - 63.2
8-33	B	225.13	29.05	6.78	10.2%	880.5%	12.12	76.0%		
8-36	B	295.45	52.59	6.71	15.9%	529.3%	29.68	49.9%		
8-38	B	321.39	69.82	6.81	20.0%	399.3%	56.84	20.6%		
8-40	B	384.62	99.84	6.83	24.6%	306.2%	81.03	20.2%		
8-75	B	322.22	30.57	6.77	7.5%	1225.4%	21.52	38.0%		
8-66	B	278.43	34.77	6.71	10.3%	868.4%	22.13	45.0%		
8-69	B	289.24	52.31	6.77	16.1%	520.3%	21.44	67.8%		
8-72	B	323.78	50.36	6.68	13.8%	626.0%	33.97	37.5%		
8-75	B	322.22	30.57	6.77	7.5%	1225.4%	21.52	38.0%		
8-104	B	284.24	53.50	6.81	16.8%	494.2%	48.30	11.1%		
8-107	B	243.88	50.40	6.78	18.4%	443.6%	43.06	16.8%		
8-110	B	215.49	33.98	6.75	13.0%	666.6%	10.18	87.4%		
8-113	B	292.61	82.44	8.39	26.1%	283.8%	50.18	43.6%		
8-138	B	363.89	103.14	8.20	26.7%	274.6%	84.21	19.9%		
8-141	B	260.71	43.04	6.83	14.3%	601.1%	16.43	73.5%		
8-143	B	356.37	33.68	6.75	7.7%	1198.3%	20.98	47.2%		
8-145	B	401.60	256.90	8.82	63.2%	58.3%	254.54	1.0%		
8-165	B	234.59	40.72	6.84	14.9%	572.2%	29.18	34.1%		
8-160	B	246.23	136.10	8.14	53.7%	86.1%	132.09	3.1%		
8-163	B	268.97	69.22	8.23	23.4%	327.5%	53.59	25.6%		
8-0001	B	226.93	38.49	6.86	14.4%	595.8%	29.14	29.6%		

**Minus 200 Average**  
 Top: 57.7%  
 Bottom: 36.8%



# **APPENDIX A**

## **ORGANIC TESTING**

**MADRID ENGINEERING GROUP, INC.**

P.O. Box 2506  
 Bartow, FL 33831  
 863/533-9007 FAX 863/533-8997

**MOISTURE CONTENT / PERCENT ORGANIC CONTENT**

Client: Polk County Natural Resources  
 MEG Project No.: 4261

Tested By: AL

Date Tested: 02/05 - 03/05

Sample Number	C ID	SOLIDS/MOISTURE CONTENT					ORGANIC CONTENT						
		W <sub>C</sub> (grams)	W <sub>C</sub> + SW (grams)	W <sub>C</sub> + SD (grams)	S <sub>D</sub> (grams)	Solids Content (percent)	Moisture Content (percent)	IC ID	W <sub>IC</sub> (grams)	W <sub>IC</sub> + S <sub>D</sub> (grams)	W <sub>IC</sub> + S <sub>FD</sub> (grams)	Organic Loss (grams)	Organic Content (percent)
BORING 7 TOP	C8	6.83	300.66	31.66	24.8	8.5%	1083.4%	1	50.78	65.43	62.55	2.9	19.66
BORING 7 BOTTOM	C12	7.02	348.53	214.41	207.39	60.7%	64.7%	4	50.64	85.86	84.80	1.1	3.01
BORING 38 TOP	P7	8.13	250.87	18.64	10.51	4.3%	2209.6%	3	52.94	63.50	59.25	4.3	40.25
BORING 38 MIDDLE	C9	6.86	367.99	51.31	44.45	12.3%	712.4%	1	50.78	74.29	65.71	8.6	36.50
BORING 38 BOTTOM	P17	8.12	243.73	125.92	117.80	50.0%	100.0%	4	50.65	66.94	66.58	0.4	2.21
BORING 70 TOP	C15	6.85	233.10	17.21	10.36	4.6%	2083.9%	3	52.94	64.80	59.74	5.1	42.66
BORING 70 MIDDLE	C4	6.85	317.19	53.34	46.49	15.0%	567.5%	4	50.63	73.90	69.78	4.1	17.71
BORING 99 TOP	P20	8.15	207.04	16.77	8.62	4.3%	2207.3%	3	52.94	61.35	58.21	3.1	37.34
BORING 99 BTM	P12	8.31	382.93	182.16	173.85	46.4%	115.5%	2	52.26	104.33	99.84	4.5	8.62
BORING 131 TOP	P13	8.14	288.04	23.60	15.46	5.5%	1710.5%	3	52.95	70.77	62.93	7.8	44.00
BORING 131 MIDDLE	P15	8.18	284.66	83.31	75.13	27.2%	268.0%	1	50.77	71.17	68.13	3.0	14.90
BORING 131 BOTTOM	P3	8.09	415.21	165.35	157.26	38.6%	158.9%	4	50.65	105.74	100.13	5.6	10.18

W= Weight C= Container S= Soil W=Wet D=Dry f= furnace

Average Organic Content: 23.09

Range of Organic Content: 2.21 - 44.00

**MADRID ENGINEERING GROUP, INC.**

P. O. BOX 2506  
 BARTOW, FL 33831  
 941/533-9007 FAX 533-8997

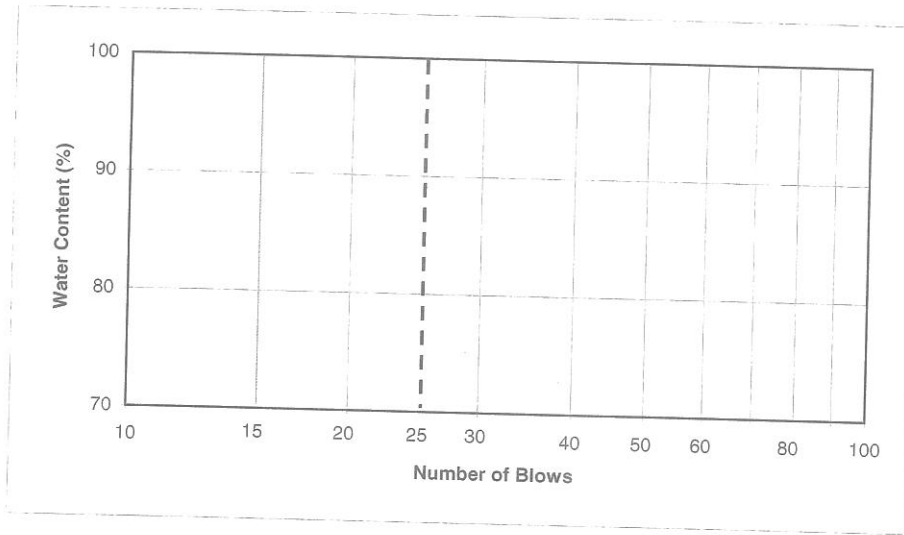
**Atterberg Limits Determination**

Project Description: Lake Hancock  
 Location of Project: Polk County, Florida  
 Description of Soil: Very dark brown to black, slightly sandy muck  
 Depth of Sample: 1 to 5 feet  
**Sample is Non-Plastic (NP)**

MEG Project No.: 4261  
 Boring No: BS# 001  
 Tested By: AM/PE  
 Date: 03/31/05

*Liquid Limit Determination*

Container Number					
Wt. Container + Wet Soil					
Wt. Container + Dry Soil					
Wt. Container					
Wt. Dry Soil					
Wt. of Moisture					
Number of Blows					
Moisture Content (%)					



Liquid Limit =  
 Plastic Limit =  
 Plasticity Index =

*Plastic Limit Determination*

Container Number			
Wt. Container + Wet Soil			
Wt. Container + Dry Soil			
Wt. Container			
Wt. Dry Soil			
Wt. of Moisture			
Moisture Content (%)			

# **APPENDIX A**

## **COLUMN SETTLING TEST**

**MADRID ENGINEERING GROUP, INC.**

P.O. Box 2506  
 Bartow, FL 33831  
 863/533-9007 FAX 863/533-8997

**COLUMN SETTLING TEST**

Client: Polk Co. Natural Resources  
 MEG Project No.: 4261.00  
 MEG Project Name: Lake Hancock

Tested By: AL  
 Date Tested: 17-Mar-05

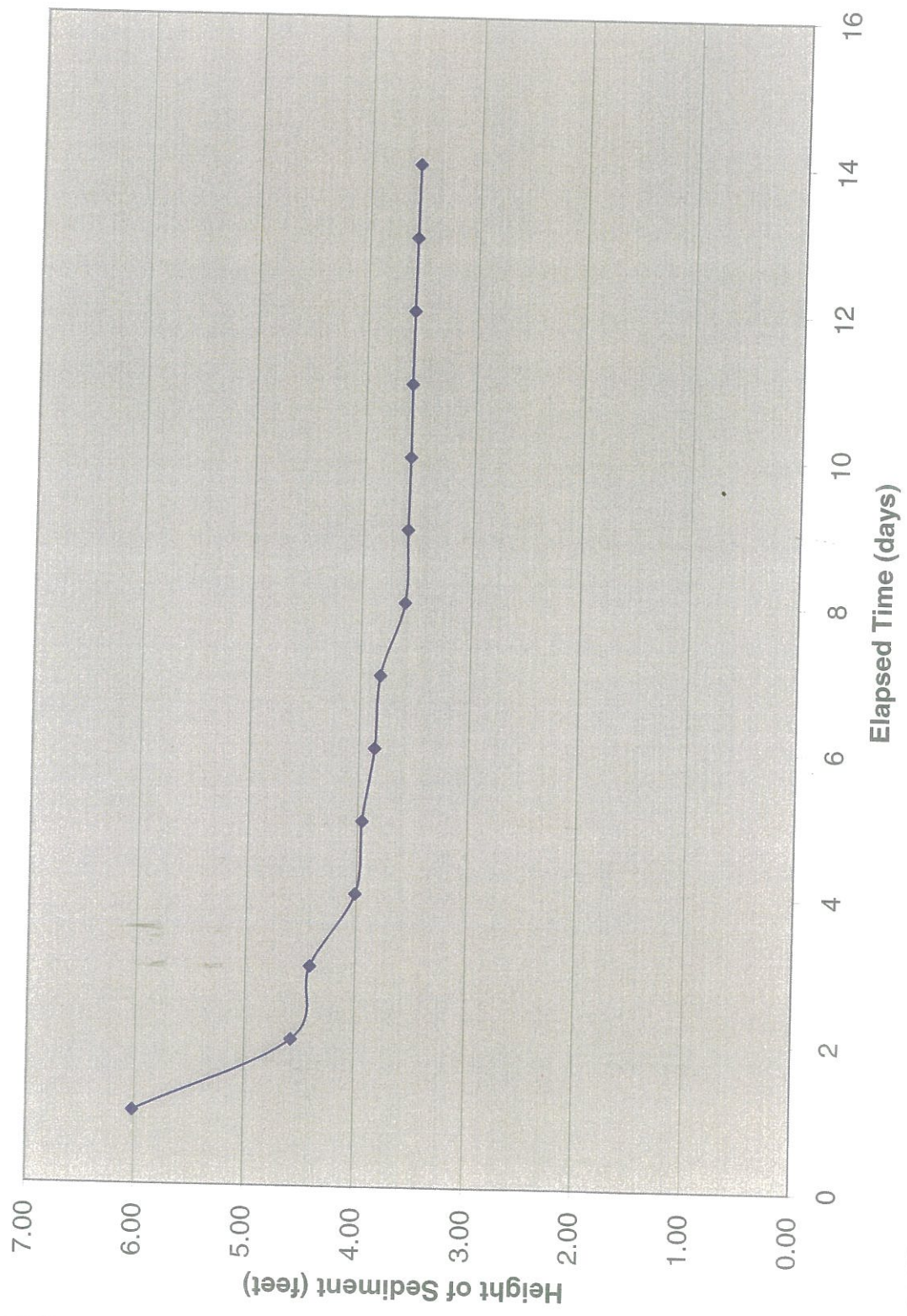
Bulk Sample # 001 - N. Central Lk. Hancock - Mixed						
Sample Number		W <sub>C</sub> + S <sub>w</sub> (grams)	W <sub>C</sub> + S <sub>D</sub> (grams)	W <sub>C</sub> (grams)	Solids Content (percent)	Moisture Content (percent)
#1	T1	494.10	64.83	6.69	11.9%	10.2%
#2	T2	510.70	70.14	6.67	12.6%	694.1%
#3	T3	493.80	65.28	6.69	12.0%	731.4%
AVERAGE					12.2%	

Column Settling Test - Solids Content						
4 ft. (30 hrs)		264.44	20.25	8.76	4.5%	43.1%
3 ft. (30 hrs)		294.10	26.79	6.82	7.0%	25.3%
2 ft. (30 hrs)		370.20	37.20	8.77	7.9%	23.4%
1 ft. (30 hrs)		322.35	38.57	9.15	9.4%	23.5%
3 ft. (11 days)		370.56	29.91	8.16	6.0%	27.1%
2 ft. (11 days)		431.60	50.41	8.11	10.0%	15.9%
1 ft. (11 days)		464.50	55.04	6.82	10.5%	12.2%

**Column Settling Test**

Date - Read By	Time	Elapsed Time (d)	Top of Sediment		Comments
			Feet/Inches	Decimal Ft	
3/21/2005 - LM	11:00AM	0	6' 0" 1/8"	6.01	Start of Test, uniform
3/22/2005 - RW	7:20AM	0.85	4' 6" 7/8"	4.57	None
3/22/2005 - RW	4:19PM	1.2	4' 4" 7/8"	4.41	Removed water from 5'
					Removed Sediment from 4', 3', 2', 1'
					Change in elevation from 6' 0" 1/8" to 5' 7" 3/8" and resumed testing
3/23/2005 - RW	8:10AM	1.9	4' 0" 1/8"	4.01	
3/23/2005 - RW	5:10PM	2.3	3' 11" 1/2"	3.96	
3/24/2005 - RW	8:07AM	2.9	3' 10" 3/8"	3.86	
3/24/2005 - RW	5:25PM	3.3	3' 9" 7/8"	3.82	
3/28/2005 - RW	8:10AM	6.9	3' 7" 3/8"	3.61	
3/28/2005 - RW	5:30PM	7.3	3' 7" 1/4"	3.60	
3/29/2005 - RW	7:45AM	7.9	3' 7" 1/8"	3.59	
3/29/2005 - RW	4:50PM	8.3	3' 7" 1/16"	3.59	
3/30/2005 - RW	8:00AM	8.9	3' 7" 0/16"	3.58	
3/31/2005 - RW	8:10AM	9.9	3' 6" 7/8"	3.57	
4/1/2005 - RW	10:00AM	10.9	3' 6" 3/4"	3.56	

# Column Settling Test



Series 1

# PEMBROKE LABORATORIES

an Envirodyne, Inc. company

FDOH # E84088  
NELAC Certified

528 Gooch Road  
Fort Meade, Florida 33841  
pembrokelab@earthlink.net

Ph (863) 285-8145  
Fax (863) 285-7030

## CERTIFICATE OF ANALYSIS

W63002

MADRID ENGINEERING GROUP, INC.  
175 E. Summerlin St.  
Bartow, FL 33831  
Attn: Ron Wilson  
Phone (863) 533-9007 Fax (863) 533-8997


Date Received: 3/29/2005  
Time Received: 1610  
Date Reported: 3/25/2005

### CORRECTED REPORT

Parameter	Unit	Result	Code	Method	Analysis Date	Time	Analyst
TSS	mg/l	75		EPA 160.2	3/25/2005	1115	RC
<del>Turb</del>	<del>mg/l</del>	<del>46.6</del>		<del>EPA 180.1</del>	<del>3/25/2005</del>	<del>930</del>	<del>RC</del>
Turb	NTU	46.6		EPA 180.1	3/25/05	0930	RC

Data Qualifier Code : U - Compound was analyzed for but not detected at the MDL

Certified by:

  
Project Manager  
863-285-8145

# PEMBROKE LABORATORIES

an Envirodyne, Inc. company

528 Gooch Road

Fort Meade, Florida 33841

pembrokelab@earthlink.net

FDOH #E84088

NELAC Certified

Ph (863) 285-8145

Fax (863) 285-7030

## CHAIN OF CUSTODY

Company Madrid Engineering Group

Date 3/24/05

Address Summerlin Blvd  
Bartow FL

Phone (863) 533-9007

Fax (863) 533-8997

Report to Attention: Ron Wilson

Date required \_\_\_\_\_

63002

Lab number	Sample Description	Collection Date/Time	Analysis requested
4261	Water at 30hrs.	3/22/05 @ 5:00 pm	Total Suspended Solids
4261	Water at 30hrs.	3/22/05 @ 5:00 pm	Turbidity
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	
		/ / @ :	

Sample Collected by Ron Wilson Date 3/22/05 Time@ 5:00 pm

Sample Transported by Todd Ives Date 3/24/05 Time@ 4:10 pm

Sample Accepted by R. G. Date 3/24/05 Time@ 4:10

Representing Lab Name Pembroke LAB



**PEMBROKE LABORATORIES**  
an Envirodyne, Inc. company

FDOH # E84088  
NELAC Certified

528 Gooch Road  
Fort Meade, Florida 33841  
pembrokelab@earthlink.net

Ph (863) 285-8145  
Fax (863) 285-7030

**CERTIFICATE OF ANALYSIS**

W63137

MADRID ENGINEERING GROUP, INC.  
175 E. Summerlin St.  
Bartow, FL 33831  
Attn: Ron Wilson  
Phone (863) 533-9007 Fax (863) 533-8997

Date Received: 4/5/2005  
Time Received: 1215  
Date Reported: 4/6/2005

**CORRECTED COPY**

Corrected Date 4/14/2005

Parameter	Unit	Result	Code	Method	Analysis Date	Time	Analyst
TSS	mg/l	10		EPA 160.2	4/5/05	1300	ES
<del>Turb</del>	<del>mg/l</del>	<del>7.85</del>		<del>EPA 180.1</del>	<del>4/6/05</del>	<del>0910</del>	<del>RC</del>
Turb	NTU	7.85		EPA 180.1	4/6/05	0910	RC



Project Manager  
863-285-8145

**RECEIVED**  
4/18/05

# PEMBROKE LABORATORIES

an Envirodyne, Inc. company

528 Gooch Road

Fort Meade, Florida 33841

pembrokelab@earthlink.net

FDOH #E84088  
NELAC Certified

Ph (863) 285-8145

Fax (863) 285-7030

## CHAIN OF CUSTODY

Company Madrid Engineering Group

Date 4/5/05

Address \_\_\_\_\_

Phone 533-9007

Fax 533-8997

Report to Attention: Ren Wilson

Date required \_\_\_\_\_

Lab number	Sample Description	Collection Date/Time	Analysis requested
<u>63137</u>	<u>10.9 days</u> <small>Job # 4261</small>	<u>4/1/05 @ 8:00</u>	<u>TSS, Turb</u>
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____
_____	_____	___/___/___ @ ___:	_____

Sample Collected by Ren Wilson

Date 4/5/05 Time @ 8:00

Sample Transported by Todd Ives

Date 4/5/05 Time @ 12:15

Sample Accepted by E Ito

Date 4/5/05 Time @ 12:15

Representing Lab Name Pembroke

# **APPENDIX B**

## **APPENDIX B**

**SEDIMENT CHEMISTRY @ 32**

# Chain of Custody Record

LAB USE ONLY

J.E.L. Log # 513151

P.O. # \_\_\_\_\_

Quote# \_\_\_\_\_

## Jupiter Environmental Laboratories

Company Name Madridd Engineering Group, Inc.  
 Address 175 E. Summerlin St.  
 City Barton State FL Zip 33830  
 Sampling Site Address Lake Hancock  
 Attn: Larry Madridd Fax/Email 863.533.8997  
 Project Name Lake Hancock Project # 4264  
 Sampler Name/Signature Ronald D. Wilson (Ronald D. Wilson)

### LAB ANALYSIS

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Parameters										Field Filtered (Y/N)	Integrity OK (Y/N)	Comments
						Total Nitrogen	Total P	TCLP Metals										
1	32 TOP	3/22/05	10:30am	S	1	X	X	X	X	X	X	X	X	X	X			
2	32 TOP				1	X	X	X	X	X	X	X	X	X	X			
3	32 TOP				1	X	X	X	X	X	X	X	X	X	X			
4	32 MID				1	X	X	X	X	X	X	X	X	X	X			
5	32 MID				1	X	X	X	X	X	X	X	X	X	X			
6	32 MID				1	X	X	X	X	X	X	X	X	X	X			
7	32 BOTTOM				1	X	X	X	X	X	X	X	X	X	X			
8	32 BOTTOM				1	X	X	X	X	X	X	X	X	X	X			
9	32 BOTTOM				1	X	X	X	X	X	X	X	X	X	X			
0	32 Composite				2	X	X	X	X	X	X	X	X	X	X			

Received by [Signature] Date 3/23 Time 8:30

Relinquished by \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Temp Control: \_\_\_\_\_

QA/QC level with report  
 None 1 2 3 See price guide for applicable fees

T.A.T. Request \_\_\_\_\_ FDEP \_\_\_\_\_  
 Standard \_\_\_\_\_ SFWMMD \_\_\_\_\_  
 Rush \_\_\_\_\_ Date Required \_\_\_\_\_

ORIGINAL



Jupiter Environmental Laboratories, Inc.  
150 S. Old Dixie Highway  
Jupiter, FL 33458  
Phone: (561)575-0030  
Fax: (561)575-4118

Wednesday, April 13, 2005

Larry Madrid  
Madrid Engineering Group, Inc  
175 E. Summerlin St.  
Bartow, FL 33830

RE: Project: 513151  
Project ID: 4161

Dear Larry Madrid:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 23, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archieving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Glynda Russell".

Glynda Russell for  
Edward Dabrea  
edabrea@jupiterlabs.com

Enclosures

Page 1 of 7

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.

**SAMPLE SUMMARY**

Project: 513151

Project ID: 4161

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513151001	32 TOP	Soil / Sediment	3/22/2005 10:30	3/23/2005 08:30
513151002	32 MID	Soil / Sediment	3/22/2005 10:30	3/23/2005 08:30
513151003	32 BOTT	Soil / Sediment	3/22/2005 10:30	3/23/2005 08:30
513151004	32(COMP)	Soil / Sediment	3/22/2005 10:30	3/23/2005 08:30

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.

### SAMPLE ANALYTE COUNT

Project: 513151

Project ID: 4161

---

Lab ID	Sample ID	Method	Analytes Reported
513151001	32 TOP	Calculation	1
513151002	32 MID	SW-846 9056	2
		Calculation	1
513151003	32 BOTT	SW-846 9056	2
		Calculation	1
513151004	32(COMP)	SW-846 9056	2
		EPA 6020 (TCLP)	8

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.



**ANALYTICAL RESULTS**

Project: 513151

Project ID: 4161

Solid results are reported on a dry weight basis.

---

Lab ID: 513151001      Date Collected: 3/22/2005 10:30      Matrix: Soil / Sediment  
Sample ID: 32 TOP      Date Received: 3/23/2005 08:30

---

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

---

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	110	mg/Kg	14	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	50	mg/Kg	35	10			3/24/2005	ESC			
-----------------	----	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	14000	mg/Kg	3500	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 4 of 7

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

### ANALYTICAL RESULTS

Project: 513151

Project ID: 4161

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513151002	Date Collected: 3/22/2005 10:30	Matrix: Soil / Sediment
<b>Sample ID:</b> 32 MID	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	110	mg/Kg	11	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	38	mg/Kg	28	10			3/24/2005	ESC			
-----------------	----	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	3200	mg/Kg	550	1			3/31/2005	ESC	7727-37-9(T)		
----------------	------	-------	-----	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 5 of 7

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

## ANALYTICAL RESULTS

Project: 513151

Project ID: 4161

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513151003	Date Collected: 3/22/2005 10:30	Matrix: Soil / Sediment
<b>Sample ID:</b> 32 BOTT	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	19 mg/Kg	6.9	1				3/25/2005	ESC	7723-14-0		
------------	----------	-----	---	--	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	U mg/Kg	17	10				3/24/2005	ESC			
-----------------	---------	----	----	--	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	U mg/Kg	340	1				3/31/2005	ESC	7727-37-9(T)		
----------------	---------	-----	---	--	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 6 of 7

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

**ANALYTICAL RESULTS**

Project: 513151

Project ID: 4161

Solid results are reported on a dry weight basis.

---

<b>Lab ID:</b> 513151004	Date Collected: 3/22/2005 10:30	Matrix: Soil / Sediment
<b>Sample ID:</b> 32(COMP)	Date Received: 3/23/2005 08:30	

---

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

---

**Metals**

**EPA 6020 Metals SCAN by ICP/MS (TCLP) List**

Chromium		U mg/L	0.0010	1			3/24/2005	ZS	7440-47-3		
Arsenic		U mg/L	0.0028	1			3/24/2005	ZS	7440-38-2		
Selenium		U mg/L	0.0010	1			3/24/2005	ZS	7782-49-2		
Silver		U mg/L	0.0010	1			3/24/2005	ZS	7440-22-4		
Cadmium		U mg/L	0.00020	1			3/24/2005	ZS	7440-43-9		
Barium	0.034	mg/L	0.00010	1			3/24/2005	ZS	7440-39-3		
Mercury		U mg/L	0.0010	1			3/24/2005	ZS	7439-97-6		
Lead		U mg/L	0.0010	1			3/24/2005	ZS	7439-92-1		

Date: 04/13/2005

Page 7 of 7

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

**APPENDIX B**

**SEDIMENT CHEMISTRY @ 38**

# Chain of Custody Record

LAB USE ONLY

J.E.L. Log # 513155  
 P.O. # \_\_\_\_\_  
 Quote# \_\_\_\_\_

## Jupiter Environmental Laboratories

Company Name Madrid Engineering Group, Inc.  
 Address 175 E. Summerlin St.  
 City Burton State FL Zip 33830  
 Sampling Site Address Lake Hancock  
 Atr: Larry Madrid Fax/Email 863.533.8997  
 Project Name Lake Hancock Project # 4261  
 Sampler Name/Signature Ronald D. Hill (Ronald D. Wilson)

### LAB ANALYSIS

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Relinquished by		Received by		Date	Time	Date	Time	Comments	
						Matrix Codes**	Pres Codes**	Date	Time						Date
1	38 Top	3/23	10:45 AM	S	3										
2	38 Mid				3										
3	38 Bottom				3										
4	38 Composite				2										
5															
6															
7															
8															
9															
0															



Parameters

Field Filtered (Y/N)  
 Integrity OK (Y/N)

Total Nitrogen  
 Total Phosphorus  
 TCLP Metals

Matrix Codes\*  
 S Soil/Solid Sediment SW Surface Water  
 GW Ground Water SL Sludge  
 WW Waste Water O Other (Please Specify)  
 DW Drinking Water

Pres Codes\*\*  
 A- none I- Ice  
 B- HNO<sub>3</sub> O- Other  
 C- H<sub>2</sub>SO<sub>4</sub> M- MeOH  
 D- NaOH  
 E- HCl

QA/QC level with report  
 None 1 2 3 See price guide for applicable fees

T.A.T. Request \_\_\_\_\_ FDEP \_\_\_\_\_  
 Standard \_\_\_\_\_ SFWMD \_\_\_\_\_  
 Rush \_\_\_\_\_ Date Required \_\_\_\_\_ °C

Jupiter Environmental Laboratories, Inc.  
 150 Old Dixie Highway, Jupiter, FL 33458

ORIGINAL



Jupiter Environmental Laboratories, Inc.  
150 S. Old Dixie Highway  
Jupiter, FL 33458  
Phone: (561)575-0030  
Fax: (561)575-4118

Wednesday, April 13, 2005

Larry Madrid  
Madrid Engineering Group, Inc  
175 E. Summerlin St.  
Bartow, FL 33830

RE: Project: 513155  
Project ID: 4261

Dear Larry Madrid:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 23, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archiving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Glynda Russell".

Glynda Russell for  
Edward Dabrea  
edabrea@jupiterlabs.com

Enclosures

Page 1 of 7

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.

### SAMPLE SUMMARY

Project: 513155

Project ID: 4261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513155001	38 TOP	Soil / Sediment	3/22/2005 10:45	3/23/2005 08:30
513155002	38 MID	Soil / Sediment	3/22/2005 10:45	3/23/2005 08:30
513155003	38 BOTTOM	Soil / Sediment	3/22/2005 10:45	3/23/2005 08:30
513155004	38(COMP)	Soil / Sediment	3/22/2005 10:45	3/23/2005 08:30

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.



### SAMPLE ANALYTE COUNT

Project: 513155

Project ID: 4261

---

Lab ID	Sample ID	Method	Analytes Reported
513155001	38 TOP	Calculation	1
		SW-846 9056	2
513155002	38 MID	Calculation	1
		SW-846 9056	2
513155003	38 BOTTOM	Calculation	1
		SW-846 9056	2
513155004	38(COMP)	EPA 6020 (TCLP)	8

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.

### ANALYTICAL RESULTS

Project: 513155

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513155001	Date Collected: 3/22/2005 10:45	Matrix: Soil / Sediment
<b>Sample ID:</b> 38 TOP	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

#### General Chemistry

##### Phosphorus by SW-846 9056 [REF] (S) List

Phosphorus	140	mg/Kg	17	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

##### Ortho Phosphate, SW-846 9056 [REF] (S) List

Ortho Phosphate	80	mg/Kg	42	10			3/24/2005	ESC			
-----------------	----	-------	----	----	--	--	-----------	-----	--	--	--

##### Total Nitrogen [REF](S) List

Total Nitrogen	18000	mg/Kg	8300	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 4 of 7

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

### ANALYTICAL RESULTS

Project: 513155

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513155002	Date Collected:	3/22/2005 10:45	Matrix:	Soil / Sediment
<b>Sample ID:</b> 38 MID	Date Received:	3/23/2005 08:30		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

#### General Chemistry

##### Phosphorus by SW-846 9056 [REF] (S) List

Phosphorus	140	mg/Kg	13	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

##### Ortho Phosphate, SW-846 9056 [REF] (S) List

Ortho Phosphate		U mg/Kg	33	10			3/24/2005	ESC			
-----------------	--	---------	----	----	--	--	-----------	-----	--	--	--

##### Total Nitrogen [REF](S) List

Total Nitrogen	17000	mg/Kg	6700	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 5 of 7

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

### ANALYTICAL RESULTS

Project: 513155

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513155003	Date Collected:	3/22/2005 10:45	Matrix:	Soil / Sediment
<b>Sample ID:</b> 38 BOTTOM	Date Received:	3/23/2005 08:30		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

#### General Chemistry

##### Phosphorus by SW-846 9056 [REF] (S) List

Phosphorus	25	mg/Kg	9.2	1			3/25/2005	ESC	7723-14-0		
------------	----	-------	-----	---	--	--	-----------	-----	-----------	--	--

##### Ortho Phosphate, SW-846 9056 [REF] (S) List

Ortho Phosphate		U mg/Kg	23	10			3/24/2005	ESC			
-----------------	--	---------	----	----	--	--	-----------	-----	--	--	--

##### Total Nitrogen [REF](S) List

Total Nitrogen	13000	mg/Kg	4600	1			4/6/2005 00:00	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	----------------	-----	--------------	--	--

Date: 04/13/2005

Page 6 of 7

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

### ANALYTICAL RESULTS

Project: 513155

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513155004	Date Collected: 3/22/2005 10:45	Matrix: Soil / Sediment
<b>Sample ID:</b> 38(COMP)	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**Metals**

**EPA 6020 Metals SCAN by ICP/MS (TCLP) List**

Chromium		U mg/L	0.0010	1			3/24/2005	ZS	7440-47-3		
Arsenic		U mg/L	0.0028	1			3/24/2005	ZS	7440-38-2		
Selenium		U mg/L	0.0010	1			3/24/2005	ZS	7782-49-2		
Silver		U mg/L	0.0010	1			3/24/2005	ZS	7440-22-4		
Cadmium		U mg/L	0.00020	1			3/24/2005	ZS	7440-43-9		
Barium	0.035	mg/L	0.00010	1			3/24/2005	ZS	7440-39-3		
Mercury		U mg/L	0.0010	1			3/24/2005	ZS	7439-97-6		
Lead		U mg/L	0.0010	1			3/24/2005	ZS	7439-92-1		

Date: 04/13/2005

Page 7 of 7

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

## **APPENDIX B**

### **SEDIMENT CHEMISTRY 97 & 99**





Jupiter Environmental Laboratories, Inc.  
150 S. Old Dixie Highway  
Jupiter, FL 33458  
Phone: (561)575-0030  
Fax: (561)575-4118

Wednesday, April 13, 2005

Larry Madrid  
Madrid Engineering Group, Inc  
175 E. Summerlin St.  
Bartow, FL 33830

RE: Project: 513153  
Project ID: 4261

Dear Larry Madrid:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 23, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archiving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Glynda Russell".

Glynda Russell for  
Edward Dabrea  
edabrea@jupiterlabs.com

Enclosures

Page 1 of 10

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.



### SAMPLE SUMMARY

Project: 513153

Project ID: 4261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513153001	97 TOP	Soil / Sediment	3/22/2005 09:30	3/23/2005 08:30
513153002	97 MID	Soil / Sediment	3/22/2005 09:30	3/23/2005 08:30
513153003	97 BOTTOM	Soil / Sediment	3/22/2005 09:30	3/23/2005 08:30
513153004	97(COMP)	Soil / Sediment	3/22/2005 09:30	3/23/2005 08:30
513153005	99 TOP	Soil / Sediment	3/22/2005 09:15	3/23/2005 08:30
513153006	99 MID	Soil / Sediment	3/22/2005 09:15	3/23/2005 08:30
513153007	99 BOTTOM	Soil / Sediment	3/22/2005 09:15	3/23/2005 08:30

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.

**SAMPLE ANALYTE COUNT**

Project: 513153  
Project ID: 4261

Lab ID	Sample ID	Method	Analytes Reported
513153001	97 TOP	Calculation	1
513153002	97 MID	SW-846 9056	2
		Calculation	1
513153003	97 BOTTOM	SW-846 9056	2
		Calculation	1
513153004	97(COMP)	SW-846 9056	2
513153005	99 TOP	EPA 6020 (TCLP)	8
		Calculation	1
513153006	99 MID	SW-846 9056	2
		Calculation	1
513153007	99 BOTTOM	SW-846 9056	2
		Calculation	1
		SW-846 9056	2

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc.

**ANALYTICAL RESULTS**

Project: 513153

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513153001	Date Collected: 3/22/2005 09:30	Matrix: Soil / Sediment
<b>Sample ID:</b> 97 TOP	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	160 mg/Kg		18	1			3/25/2005	ESC	7723-14-0		
------------	-----------	--	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	120 mg/Kg		44	10			3/24/2005	ESC			
-----------------	-----------	--	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	U mg/Kg		880	1			3/31/2005	ESC	7727-37-9(T)		
----------------	---------	--	-----	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 4 of 10

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

### ANALYTICAL RESULTS

Project: 513153

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513153002	Date Collected:	3/22/2005 09:30	Matrix:	Soil / Sediment
<b>Sample ID:</b> 97 MID	Date Received:	3/23/2005 08:30		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	20	mg/Kg	8.6	1			3/25/2005	ESC	7723-14-0		
------------	----	-------	-----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate		U mg/Kg	22	10			3/24/2005	ESC			
-----------------	--	---------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	9500	mg/Kg	4300	1			3/31/2005	ESC	7727-37-9(T)		
----------------	------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 5 of 10

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

**ANALYTICAL RESULTS**

Project: 513153

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513153003	Date Collected:	3/22/2005 09:30	Matrix:	Soil / Sediment
<b>Sample ID:</b> 97 BOTTOM	Date Received:	3/23/2005 08:30		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	7.3	mg/Kg	6.7	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	-----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	U	mg/Kg	17	10			3/24/2005	ESC			
-----------------	---	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	9300	mg/Kg	3300	1			3/31/2004	ESC	7727-37-9(T)		
----------------	------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 6 of 10

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

**ANALYTICAL RESULTS**

Project: 513153

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513153004	Date Collected: 3/22/2005 09:30	Matrix: Soil / Sediment
<b>Sample ID:</b> 97(COMP)	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**Metals**

**EPA 6020 Metals SCAN by ICP/MS (TCLP) List**

Chromium		U mg/L	0.0010	1			3/24/2005	ZS	7440-47-3		
Arsenic		U mg/L	0.0028	1			3/24/2005	ZS	7440-38-2		
Selenium		U mg/L	0.0010	1			3/24/2005	ZS	7782-49-2		
Silver		U mg/L	0.0010	1			3/24/2005	ZS	7440-22-4		
Cadmium		U mg/L	0.00020	1			3/24/2005	ZS	7440-43-9		
Barium	0.037	mg/L	0.00010	1			3/24/2005	ZS	7440-39-3		
Mercury		U mg/L	0.0010	1			3/24/2005	ZS	7439-97-6		
Lead		U mg/L	0.0010	1			3/24/2005	ZS	7439-92-1		

Date: 04/13/2005

Page 7 of 10

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

### ANALYTICAL RESULTS

Project: 513153

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513153005	Date Collected: 3/22/2005 09:15	Matrix: Soil / Sediment
<b>Sample ID:</b> 99 TOP	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	92	mg/Kg	20	1			3/25/2005	ESC	7723-14-0		
------------	----	-------	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	90	mg/Kg	49	10			3/24/2005	ESC			
-----------------	----	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	20000	mg/Kg	9900	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 8 of 10

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..

**ANALYTICAL RESULTS**

Project: 513153

Project ID: 4261

Solid results are reported on a dry weight basis.

Lab ID: 513153006	Date Collected: 3/22/2005 09:15	Matrix: Soil / Sediment
Sample ID: 99 MID	Date Received: 3/23/2005 08:30	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	110 mg/Kg		17	1			3/25/2005	ESC	7723-14-0		
------------	-----------	--	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	100 mg/Kg		43	10			3/24/2005	ESC			
-----------------	-----------	--	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	21000 mg/Kg		8600	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------------	--	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 9 of 10

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..



### ANALYTICAL RESULTS

Project: 513153

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513153007	Date Collected:	3/22/2005 09:15	Matrix:	Soil / Sediment
<b>Sample ID:</b> 99 BOTTOM	Date Received:	3/23/2005 08:30		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	13	mg/Kg	8.1	1			3/25/2005	ESC	7723-14-0		
------------	----	-------	-----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	U	mg/Kg	20	10			3/24/2005	ESC			
-----------------	---	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	2600	mg/Kg	400	1			3/31/2005	ESC	7727-37-9(T)		
----------------	------	-------	-----	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

Page 10 of 10

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Jupiter Environmental Laboratories, Inc..