

RECEIVED

APR 09 2009

TOM SIRNA
PBSWA
7501 N. JOG RD.
WEST PALM BEACH, FL 33412

Log #: L265943
Report Period: 2009/Q1

Client Project ID: CENTRAL COUNTY TRANSFER STATION-WELLS
Collected by: Customer Sampled

Laboratory Sample #	Client Sample #
L265943-1	CTMW-II
L265943-2	CTMW-1S
L265943-3	CDFB-032509

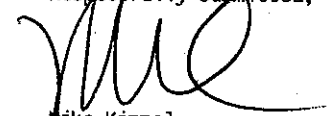
FLDOH/NELAC# E86240
GA CERT# 917
IL/NELAC CERT# 200020
VA CERT# 00395

KS/NELAC# E-10360
ADEM ID# 40850
TN CERT# 02985
USDA Soil Permit# S-35240

NC CERT# 444
SC CERT# 96031001

Genapure 3231 NW 7th Avenue Boca Raton, FL 33431 (888) 862-5227

Respectfully submitted,


Mike Kimmel
Project Manager

Order #: L265943-1
 Client: PBSWA-PALM BEACH SOLID WASTE AUT

Genapure
 Report of Analysis for DEP
 CENTRAL COUNTY TRANS

Diameter (inches): 2.0
 Depth to Water (ft): 14.35
 Total Depth (ft): 69.3
 Top of Casing ('): NA
 Evacuation (gallons) 27

Sheen:
 Color: LtYellow
 Odor: 2.00
 Matrix: Groundwater

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: NA
 Test Site ID #: NA
 Well Name: CTMW-11
 Classification of Groundwater: G-II
 GW Elevation (NGVD): NA
 or (MSL):

Sampling Date/Time: 03/25/09 12:31 PM
 Report Period: 2009/Q1
 Well Purge Vol (gal) Y
 Well Type: C

Storet Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Dilution	Detection Limit/Units
Field Parameters								
00010	TEMPERATURE CENTIGRADE	GRAB	N	170.1	03/25 12:31	24.7 Deg. C	1	0.10 Deg. C
00094	CONDUCTIVITY FIELD	GRAB	N	120.1	03/25 12:31	540 umhos/cm	1	0.10 umhos/cm
00406	PH FIELD	GRAB	N	150.1	03/25 12:31	7.14 units	1	0.10 units
82078	TURBIDITY, FIELD	GRAB	N	180.1	03/25 12:31	1.85 ntu	1	0.10 ntu
Wet Chemistry								
00084	COLOR-LAB	GRAB	N	SM2120B	03/26 12:00	50.0 pcu	1	5.0 pcu
00745	TOTAL SULFIDE AS S	GRAB	N	SM4500S2-E	03/26 18:00	<1.0 mg/l	1	1.0 mg/l
	ODOR	GRAB	N	140.1	03/26 09:30	2.00 TON	1	1.0 TON

Order #: L265943-2
 Client: PBSWA-PALM BEACH SOLID WASTE AUT

Genapure
 Report of Analysis for DEP
 CENTRAL COUNTY TRANS

Diameter (inches): 2.0
 Depth to Water (ft): 14.31
 Total Depth (ft): 36.6
 Top of Casing ('): NA
 Evacuation (gallons) 16

Sheen:
 Color: LtYellow
 Odor: ND
 Matrix: Groundwater

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: NA
 Test Site ID #: NA
 Well Name: CTMW-1S
 Classification of Groundwater: G-II
 GW Elevation (NGVD): NA
 or (MSL): NA

Sampling Date/Time: 03/25/09 01:03 PM
 Report Period: 2009/Q1
 Well Purge Vol (gal) Y
 Well Type: C

Store Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Dilution	Detection Limit/Units
Field Parameters								
00010	TEMPERATURE CENTIGRADE	GRAB	N	170.1	03/25 13:03	25.1 Deg. C	1	0.10 Deg. C
00094	CONDUCTIVITY FIELD	GRAB	N	120.1	03/25 13:03	476 umhos/cm	1	0.10 umhos/cm
00406	PH FIELD	GRAB	N	150.1	03/25 13:03	7.70 units	1	0.10 units
82078	TURBIDITY, FIELD	GRAB	N	180.1	03/25 13:03	2.86 ntu	1	0.10 ntu
Wet Chemistry								
00084	COLOR-LAB	GRAB	N	SM2120B	03/26 12:00	20.0 pcu	1	5.0 pcu
00745	TOTAL SULFIDE AS S	GRAB	N	SM4500S2-E	03/26 18:00	<1.0 mg/l	1	1.0 mg/l
	ODOR	GRAB	N	140.1	03/26 09:30	<1.0 TON	1	1.0 TON

Order #: L265943-3
 Client: PBSWA-PALM BEACH SOLID WASTE AUT

Genapure
 Report of Analysis for DEP
 CENTRAL COUNTY TRANS

Diameter (): NA
 Depth to Water (): NA
 Total Depth (): NA
 Top of Casing (): NA
 Evacuation (): NA

Sheen:
 Color: Clear
 Odor: ND
 Matrix:

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: NA
 Test Site ID #: NA
 Well Name: CDFB-032509
 Classification of Groundwater:
 GW Elevation (NGVD): NA
 or (MSL):

Sampling Date/Time: 03/25/09 12:20 PM
 Report Period: 2009/Q1
 Well Purge Vol (gal)
 Well Type:

Store Code	Parameter Monitored	Samp Meth	Field Filtr	Analysis Method	Analysis Date/Time	Analysis Result/Units	Dilution	Detection Limit/Units
Field Parameters								
	00010 TEMPERATURE CENTIGRADE		N	170.1	03/25 12:20	22.6 Deg. C	1	0.10 Deg. C
	00094 CONDUCTIVITY FIELD		N	120.1	03/25 12:20	1.7 umhos/cm	1	0.10 umhos/cm
	00406 PH FIELD		N	150.1	03/25 12:20	7.80 units	1	0.10 units
	82078 TURBIDITY, FIELD		N	180.1	03/25 12:20	0.47 ntu	1	0.10 ntu
Wet Chemistry								
	00084 COLOR-LAB		N	SM2120B	03/26 12:00	<5.0 pcu	1	5.0 pcu
	00745 TOTAL SULFIDE AS S		N	SM4500S2-E	03/26 18:00	<1.0 mg/l	1	1.0 mg/l
	ODOR		N	140.1	03/26 09:30	<1.0 TON	1	1.0 TON

CENTRAL COUNTY TRANSFER STATION MONITORING WELLS

8 Monitor Wells:

(CTMW-1S, CTMW-1I) (CTMW-2S, CTW-2I) (CTMW-3S, CTMW-3I) (CTMW-4S, CTMW-4I)

1 Field Duplicate (CTSFD-)

1 Field Blank (CTSFB-)* Optional

Parameters (Matrix Groundwater)

A. METALS

Arsenic ✓	Chromium ✓	Lead ✓	Sodium ✓
Barium ✓	Copper ✓	Mercury ✓	Selenium ✓
Cadmium ✓	Iron ✓		

B. INDICATOR PARAMETERS

Ammonia Nitrogen ✓	Foaming Agents (MBAS) ✓	Nitrate N ✓
Total Alkalinity ✓	Hydrogen Sulfide ✓	Odor ✓
C.O.D. ✓	TKN (Total Kjeldahl Nitrogen) ✓	Sulfate ✓
Color ✓	TDS (Total Dissolved Solids) ✓	
Chloride ✓	TRPH (Total Recoverable Petroleum Hydrocarbons) ✓	

C. FIELD PARAMETERS

Conductivity (field)
pH (field)
Temperature (field)
Turbidity (field)

WELL INFORMATION (field)

Well Diameter
Well Depth
Well Casing Elevation
Depth to Water
Water Table Elevation
Volume Evacuated

2 of 2 COC #1
196846

Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#: NA	DATE: 3/25/09
WELL NO: CTMW-1I	Well Type: Compliance	Well Location: North of retention Pond	SITE 1810 Lantana Road, LOCATION: Lantana, Fl

PURGING DATA

Top of Casing Elevation(ft):	Static Depth To Water (ft): 14.35	Water Table Elevation NGVD (ft):	Column Height (ft): 54.95	Total Well Depth (ft): 69.30'					
WELLDIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 9								
WELL CAPACITY (gal/ft): 0.16	= (69.30 - 14.35 = 54.95) X 0.16 = 8.79 GALLONS								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 12:12	PURGE ENDED AT: 12:30	TOTAL VOL. PURGED (gal): 27					
WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	9	9	1.5	15.02	7.12	24.9	557	1.63	11.6
1	9	18	1.5	15.02	7.28	24.9	562	1.92	5.98
1	9	27	1.5	15.02	7.14	24.7	541	1.52	1.85
				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
FINAL FIELD VALUES →					7.14	24.7	541	—	1.85
Color:	Odor:	Sheen:	Comments						
<i>H-yellow</i>	<i>none</i>	<i>none</i>							
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 12:31	SAMPLING ENDED AT: 12:35	Weather: Windy cool sun		
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	
1	HDPE	1-LITER	HNO3		Metals
2	HDPE		H2SO4		Ammonia
					2.0
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)					
SAMPLED BY (PRINT): <i>Brenda Downey</i>			SAMPLER(S) SIGNATURE(S): <i>Brenda Downey</i>		

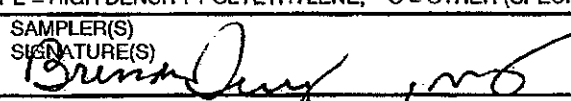
Solid Waste Authority of Palm Beach County GROUNDWATER SAMPLING LOG

SITE NAME: Central County Transfer Station		Facility GMS#:	DATE: 3/25/09
WELL NO: CTMW-1S	Well Type: Compliance	Well Location: North of retention Pond	SITE LOCATION: 1810 Lantana Road, Lantana, FI

PURGING DATA

Top of Casing Elevation (ft):	Static Depth To Water (ft): 14.31	Water Table Elevation NGVD (ft):	Column Height (ft): 22.29	Total Well Depth (ft): 36.60'					
WELL DIAMETER (in): 2" PVC	1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 4								
WELL CAPACITY (gal/ft): 0.16	= (36.60 - 14.31) X 0.16 = 3.57 GALLONS								
PURGE METHOD: Redi-flo		PURGE INITIATED AT: 12:40	PURGE ENDED AT: 13:00	TOTAL VOL PURGED (gal): 16					
WELL VOLS. Purged	Volume Purged (gal)	CUMUL. VOL. Purged (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
1	4	4	.80	14.78	7.67	24.3	466	1.25	7.02
1	4	8	.80	14.78	7.71	25.1	478	.88	4.99
1	4	12	.80	14.78	7.70	28.1	479	.85	4.28
1	4	16	.80	14.78	7.70	25.1	476	.75	2.86
FINAL FIELD VALUES →				ORP	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)
					7.70	25.1	476	—	2.86
Color: lt. yellow	Odor: none	Sheen: none	Comments						
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									

SAMPLING DATA

SAMPLING METHOD(S): Redi-flo Pump	SAMPLING INITIATED AT: 13:03	SAMPLING ENDED AT: 13:05	Weather: windy cool, sunny			
FIELD DECONTAMINATION: No	FIELD-FILTERED: No	DUPLICATE: Y				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)		FINAL pH
1	HDPE	1-LITER	HNO3			Metals
2	HDPE		H2SO4			Ammonia
MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDPE = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)						
SAMPLED BY (PRINT): B. Downey M Ty sm			SAMPLER(S) SIGNATURE(S): 			

SOLID WASTE AUTHORITY

DIVISION OF ENVIRONMENTAL PROGRAMS

FIELD BLANK DATA SHEET

Sample Type: GRAB COMPOSITE
 Site Identification: Central County Transfer Station

Date: 3/25/09

Sample I.D. CTSFB- 032509

Time: 12:20

Notes and Comments
 Windy
 Sunny
 Cool
 PH < 2.0
 in preservative

Field Parameters		Units	Sample Appearance
Temperature	22.6	C	Clear no odor no sheen
Cond: X	ATC 1.7	uMHOS/cm	
PH	7.80	Std Units	
DO		Mg/L	
Other Turb	.47	NPC	

Sample Container Inventory				
Quantity	Size	Type	Preservative	Analysis

Sampled By: Brenda Deery
ms

Method of Shipment: Express

