

SCS ENGINEERS

August 26, 2011
File No. 09207049.08

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Dept. Of Environmental Protection
AUG 31 2011
Southwest District

Subject: Groundwater Monitoring Well Redevelopment for MW-20 and MW-21,
Citrus County Central Landfill, Permit No. 21375-018-SO/01

Dear Mr. Morris:

SCS Engineers (SCS) was retained by Citrus County Solid Waste Management Division (County) to redevelop two monitoring wells (MW-20 and MW-21) located at the Citrus County Central Landfill. A site map showing monitoring well locations is provided in Attachment A (Sheet 1 of 6). This correspondence provides written documentation of the well redevelopment activities.

MONITORING WELL REDEVELOPMENT

Monitoring wells MW-20 and MW-21 were redeveloped with an electric submersible pump. Prior to redevelopment at each location, downhole equipment was decontaminated.

Each well was redeveloped by surging and pumping the groundwater. Approximately 50-gallons of groundwater was pumped out of monitoring well MW-20 and approximately 53-gallons of groundwater was pumped out of monitoring well MW-21. The FDEP Groundwater Sampling Logs and Calibration Logs are included in Attachment B to document the redevelopment field parameter measurements. Redevelopment water was discharged into 55-gallon drums for disposal into the on-site leachate treatment system.

Turbidity measurements from monitoring well MW-20 indicated that the sediments have been sufficiently removed from the monitoring well. Due to limited drum space, Monitoring Well MW-21 was not fully redeveloped; however, improvements were made. Turbidity measurements indicated that sediments are still present within the monitoring well. Elevated turbidity measurements in a monitoring well can cause elevated metal concentrations.

Monitoring wells MW-20 and MW-21 were sampled as part of the routine semi-annual monitoring event after the redevelopment. The results will be discussed under a separate cover letter submitted CDM. For information purposes the results of that monitoring event are included as Attachment C to this report. Based on a review of the summary tables for monitoring wells MW-20 and MW-21, the primary drinking water standard (PDWS) metals do

not appear to be exceeding their respective standards. Laboratory analytical results indicate that the iron concentration were above the secondary drinking water standards (SDWS) for monitoring wells MW-20 and MW-21. However, turbidity during the initial monitoring event was below 20 NTU and iron concentrations were similar. Therefore, it does not appear that the iron concentration is related to turbidity. Based on this information it would appear these wells provide representative groundwater sample.

Please contact us if you have any questions or comments regarding this correspondence.

Very truly yours,



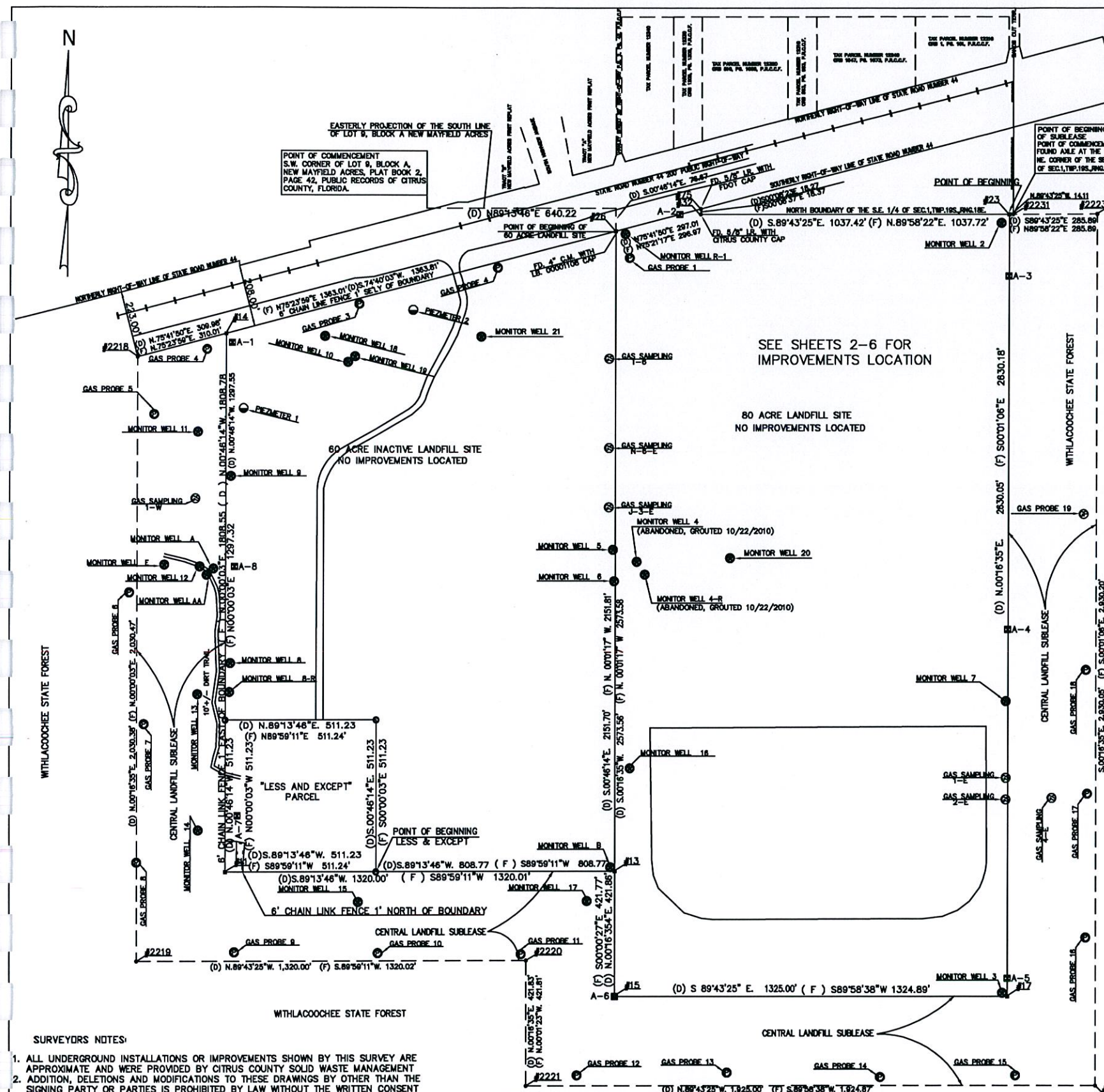
Ken E. Guilbeault, LEP
Project Manager



KEG/RLW: keg
Attachments

ATTACHMENT A

FIGURE



- SURVEYORS NOTES:**
- ALL UNDERGROUND INSTALLATIONS OR IMPROVEMENTS SHOWN BY THIS SURVEY ARE APPROXIMATE AND WERE PROVIDED BY CITRUS COUNTY SOLID WASTE MANAGEMENT.
 - ADDITION, DELETIONS AND MODIFICATIONS TO THESE DRAWINGS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED BY LAW WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
 - ELEVATIONS SHOWN HEREON (IF ANY) ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 UNLESS OTHERWISE INDICATED.
 - THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF A TITLE REPORT OR TITLE ABSTRACT AND THEREFORE MAY NOT NECESSARILY ACHIEVE ALL RIGHTS-OF-WAY, EASEMENTS OR OTHER ENCUMBRANCES OF RECORD.
 - REFERENCE BENCH MARK, FLORIDA DEPARTMENT OF TRANSPORTATION BENCH MARK No.54A ELEVATION 115.36' N.G.V.D. 1929
 - THERE ARE INTERNAL IMPROVEMENTS THAT WERE NOT LOCATED BY THIS SURVEY
 - BEARINGS AS SHOWN HEREON, ARE BASED ON THE NORTH BOUNDARY OF THE SE 1/4 OF SECTION 1, TOWNSHIP 18 SOUTH, RANGE 18 EAST HAVING AN ASSUMED BEARING OF N.89°58'22"E.
 - "X-Y" COORDINATES SHOWN ON TABLES REFLECT FLORIDA STATE PLANE, WEST ZONE, NORTH AMERICAN DATUM OF 1983. THESE COORDINATES TOGETHER WITH ELEVATIONS SHOWN RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 ARE BASED ON NATIONAL GEODETIC SURVEY CONTROL STATIONS "CITRUS 13" AND "CITRUS 14", AND WERE DERIVED USING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEMS, WITH AN ESTIMATED ACCURACY OF ±0.07'.

POINT NUMBER	X COORDINATE	Y COORDINATE
14	514395.1807	1643753.9871
26	515714.1808	1644097.5862
75	516001.5039	1644172.6504
32	516001.5501	1644154.2004
23	517039.2700	1644154.6930
2231	517053.3100	1644154.6790
2233	517339.2700	1644154.8351
17	517040.1105	1644154.5131
2222	517340.2063	1641224.6324
2221	515415.3389	1641223.8669
15	515715.2180	1641523.9862
13	515715.1632	1641845.7506
2220	515415.1689	1641645.6796
2219	515415.1689	1641645.6796
2218	515415.1689	1641645.6796
2217	515415.1689	1641645.6796

AERIAL TARGET NUMBER	X COORDINATE	Y COORDINATE	ELEVATION
A-1	514415.7043	1643723.8932	110.16'
A-2	515930.7731	1644154.1668	116.16'
A-3	517039.1853	1643947.0030	130.79'
A-4	517038.7010	1642758.8531	126.06'
A-5	517039.9417	1641584.9931	119.62'
A-6	515715.2180	1641523.9862	109.09'
A-7	514435.8577	1642134.6139	115.28'
A-8	514425.2393	1642971.9717	109.56'

DESCRIPTION AS FURNISHED

A PORTION OF SECTION 1, TOWNSHIP 18 SOUTH, RANGE 18 EAST, TALLAHASSEE MERIDIAN, CITRUS COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 18, RANGE 18 EAST, TALLAHASSEE MERIDIAN, THENCE N.89°43'25" E. ALONG THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1, A DISTANCE OF 141.11 FEET TO THE POINT OF BEGINNING SAID POINT BEING THE NORTHEAST CORNER OF THOSE LANDS DESCRIBED IN OFFICIAL RECORD BOOK 759, PAGE 886, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA; THENCE S.00°16'35" E., A DISTANCE OF 2,630.05 FEET; THENCE N.89°43'25" E. PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1, A DISTANCE OF 1,320.00 FEET; THENCE N.00°16'35" E., A DISTANCE OF 2,573.56 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF STATE ROAD NO. 44, SAID POINT BEING 150.00 FEET FROM, WHEN MEASURED AT RIGHT ANGLES TO THE CENTERLINE OF SAID STATE ROAD NO. 44; THENCE N.75°41'50" E. ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 287.01 FEET; THENCE DEPARTING SAID SOUTH RIGHT-OF-WAY LINE S.00°07'25" E., A DISTANCE OF 18.77 FEET TO A POINT ON THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1; THENCE S.89°43'25" E. ALONG THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1, A DISTANCE OF 1,037.42 FEET TO THE POINT OF BEGINNING.

CONTAINING 79.87 ACRES, MORE OR LESS.

AND

A PORTION OF SECTION 1, TOWNSHIP 18 SOUTH, RANGE 18 EAST BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWEST CORNER OF LOT 9, BLOCK A, NEW MAYFIELD ACRES AS RECORDED IN PLAT BOOK 2, PAGE 48, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, THENCE N.89°13'46" E. ON AN EASTERLY PROJECTION OF THE SOUTH LINE OF SAID LOT 9, BLOCK A, A DISTANCE OF 640.22 FEET; THENCE S.0°46'14" E., A DISTANCE OF 78.49 FEET TO A POINT 150 FEET SOUTHEASTERLY FROM, WHEN MEASURED AT A RIGHT ANGLE TO THE CENTERLINE OF STATE ROAD NO. 44; SAID POINT ALSO BEING THE POINT OF BEGINNING; THENCE CONTINUE S.0°46'14" E. A DISTANCE OF 2151.70 FEET; THENCE S.89°13'46" W., A DISTANCE OF 1320.02 FEET; THENCE N.0°46'14" W., A DISTANCE OF 1808.78 FEET TO A POINT THAT IS 150 FEET FROM, MEASURED AT A RIGHT ANGLE TO THE CENTERLINE OF STATE ROAD NO. 44; THENCE S.89°43'25" E. ALONG THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1, A DISTANCE OF 1,037.42 FEET TO THE POINT OF BEGINNING.

LESS AND EXCEPT

A PORTION OF SECTION 1, TOWNSHIP 18 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SW CORNER OF LOT 9, BLOCK A, NEW MAYFIELD ACRES AS RECORDED IN PLAT BOOK 2, PAGE 48, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, THENCE S.89°43'25" E. ALONG THE SOUTH LINE OF SAID LOT 9, BLOCK A AND AN EASTERLY PROJECTION THEREOF, A DISTANCE OF 640.22 FEET; THENCE S.00°16'35" W., A DISTANCE OF 78.49 FEET TO A POINT THAT IS 150 FEET SOUTHEASTERLY FROM, WHEN MEASURED AT A RIGHT ANGLE TO THE CENTERLINE OF STATE ROAD NO. 44; THENCE CONTINUE S.00°16'35" W., A DISTANCE OF 2,151.70 FEET; THENCE S.89°13'46" W., A DISTANCE OF 808.77 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S.89°13'46" W., A DISTANCE OF 511.23 FEET; THENCE N.0°46'14" W., A DISTANCE OF 511.23 FEET; THENCE N.89°13'46" E., A DISTANCE OF 511.23 FEET; THENCE S.00°46'14" E., A DISTANCE OF 511.23 FEET TO THE POINT OF BEGINNING. SAID EXCEPTION CONTAINING 6 ACRES, MORE OR LESS.

SUBLEASE DESCRIPTION

A PORTION OF SECTIONS 1 AND 12, TOWNSHIP 18 SOUTH, RANGE 18 EAST AND SECTION 6, TOWNSHIP 18 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHEAST CORNER OF THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 18 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA; THENCE SOUTH 89°43'25" EAST ALONG AN EASTERLY EXTENSION OF THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 285.89 FEET; THENCE SOUTH 00°16'35" WEST, A DISTANCE OF 2,630.05 FEET; THENCE NORTH 89°43'25" WEST PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 1,625.00 FEET; THENCE NORTH 00°16'35" EAST, A DISTANCE OF 421.83 FEET; THENCE NORTH 89°43'25" WEST PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 1,320.00 FEET; THENCE NORTH 00°16'35" EAST, A DISTANCE OF 2,030.38 FEET TO A POINT OF INTERSECTION WITH THE SOUTHERLY RIGHT-OF-WAY LINE OF STATE ROAD NUMBER 44, SAID POINT BEING 150.00 FEET FROM, WHEN MEASURED AT RIGHT ANGLES TO THE CENTERLINE OF SAID STATE ROAD NUMBER 44; THENCE NORTH 75°41'50" EAST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, A DISTANCE OF 308.99 FEET; THENCE DEPARTING SAID SOUTHERLY RIGHT-OF-WAY LINE SOUTH 00°16'35" WEST, A DISTANCE OF 1,808.41 FEET; THENCE SOUTH 89°43'25" EAST PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 1,320.00 FEET; THENCE SOUTH 00°16'35" WEST, A DISTANCE OF 421.83 FEET; THENCE SOUTH 89°43'25" EAST PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 1,320.00 FEET; THENCE NORTH 00°16'35" EAST, A DISTANCE OF 2,630.05 FEET TO A POINT OF INTERSECTION WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1; THENCE SOUTH 89°43'25" EAST ALONG THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 141.11 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 55.55 ACRES, MORE OR LESS.

FIELD DATE: MARCH 14, 1994
REVISION DATE: MARCH 22, 1994
ADD MONITOR WELLS No. AA, 4, 5 & 6

FIELD DATE: JUNE 15, 1994
REVISION DATE: JUNE 16, 1994
DELETE MONITOR WELL No. 1, ADD MONITOR WELL No. R-1
CHANGE MONITOR WELL No. 4 TO MONITOR WELL No. 5
CHANGE MONITOR WELL No. 5 TO MONITOR WELL No. 6
CHANGE MONITOR WELL No. 6 TO MONITOR WELL No. 4

FIELD DATE: SEPTEMBER 28, 1994
REVISION DATE: SEPTEMBER 30, 1994
DELETE MONITOR WELL R-1 ABANDONED,
ADD MONITOR WELL R-1 ACTIVE

FIELD DATE: NOVEMBER 18, 1994
REVISION DATE: NOVEMBER 21, 1994
ADD MONITOR WELL No. E

REVISION DATE: JULY 22, 1996
REVISE BOUNDARY TO
NEW LEGAL DESCRIPTION

FIELD DATE: APRIL 18, 1997
REVISION DATE: APRIL 21, 1997
ADD MONITOR WELL No. 7, 8 AND 9

REVISION DATE: SEPTEMBER 6, 1997
CHANGE MONITOR WELL No. 8 TO MONITOR WELL No. 9
CHANGE MONITOR WELL No. 9 TO MONITOR WELL No. 8

FIELD DATE: NOVEMBER 5, 1997
REVISION DATE: NOVEMBER 7, 1997
ADD MONITOR WELL No. 8-R

REVISION DATE: APRIL 21, 1998
REVISE AERIAL TARGET LOCATION

REVISION DATE: SEPTEMBER 27, 2000
FIELD DATE: SEPTEMBER 27, 2000
ADD SHEET 2 OF 2 LOCATION SURVEY OF RECYCLE ALLEY

REVISION DATE: OCTOBER 31, 2000
FIELD DATE: OCTOBER 28, 2000
ADD SHEETS 3, 4 AND 5

REVISION DATE: APRIL 2, 2002
FIELD DATE: FEBRUARY 8, 2002
UNDERGROUND LOCATION

REVISION DATE: JULY 25, 2002
FIELD DATE: JULY 22, 2002
UNDERGROUND LOCATION

REVISION DATE: FEBRUARY 25, 2005
FIELD DATE: FEBRUARY 24, 2005
ADD 60 ACRE SURVEY

REVISION DATE: JULY 18, 2005
FIELD DATE: JULY 12, 2005
ADD LANDFILL SUBLEASE

FIELD DATE: SEPTEMBER 17, 2007
REVISION DATE: SEPTEMBER 21, 2007
ADD MONITOR WELLS No. 10, 11, 12, 13, 14, 15, 16, 17, 18 AND 19
ADD PEZOMETERS 1 AND 2

REVISION DATE: JANUARY 30, 2008
FIELD DATE: JANUARY 21, 2008
ADD SHEET 8 OF 8
TRANSFER STATION

REVISION DATE: OCTOBER 31, 2008
FIELD DATE: OCTOBER 24, 2008
UPDATE BOUNDARY SURVEY

REVISION DATE: DECEMBER 10, 2008
FIELD DATE: DECEMBER 10, 2008
REVISE ELEVATION OF MONITOR WELL B, 2, 4-R, 9 AND 8-R

REVISION DATE: DECEMBER 14, 2009
FIELD DATE: DECEMBER 8, 2009
UPDATE BOUNDARY SURVEY

BOUNDARY MONITOR WELL No.	X COORDINATE	Y COORDINATE	LONGITUDE	LATITUDE	ELEVATION TOP OF WELL CASING
A-1 ABANDONED 3-22-94	515703.188	1641852.201	82°26'18.58919" W.	28°50'56.45064" N.	113.48'
B-1 ABANDONED 04-27-07					
R-1 ABANDONED 9-26-94					118.25'
2 ACTIVE	517016.947	1644134.0121	82°26'04.91534" W.	28°51'21.09969" N.	136.19'
3 ACTIVE	517026.689	1641528.483	82°26'04.89952" W.	28°50'55.30367" N.	120.47'
AA ACTIVE	514330.1915	1642844.8848	82°26'35.08066" W.	28°51'08.22843" N.	108.11'
B ACTIVE	517026.7199	1641027.5870	82°26'18.80416" W.	28°51'10.09772" N.	121.14'
R ACTIVE	515701.6712	1642921.8127	82°26'18.55309" W.	28°51'08.05065" N.	118.48'
4-R ABANDONED					
R-1 ACTIVE	515734.4875	1644075.0314	82°26'18.33666" W.	28°51'20.48904" N.	118.08'
1 ABANDONED 2-09-94					
E ACTIVE	514187.411	1642878.872	82°26'38.88778" W.	28°51'09.59552" N.	109.51'
7 ACTIVE	517032.495	1642518.150	82°26'04.67396" W.	28°51'05.10226" N.	128.66'
8 ABANDONED 10-22-97					
8 ACTIVE	514411.659	1643278.437	82°26'34.17589" W.	28°51'12.51388" N.	113.48'
8-R ACTIVE	514408.379	1642551.098	82°26'34.18489" W.	28°51'08.33238" N.	118.08'
10 ACTIVE	514808.4731	1643858.0382	82°26'28.73184" W.	28°51'08.22843" N.	114.20'
11 ACTIVE	514298.5523	1643424.6969	82°26'35.44536" W.	28°51'13.97980" N.	105.21'
12 ACTIVE	514308.5574	1643272.8677	82°26'35.34783" W.	28°51'06.50448" N.	104.01'
13 ACTIVE	514298.7082	1642543.8233	82°26'35.40866" W.	28°51'05.25644" N.	112.81'
14 ACTIVE	514302.3733	1642085.7341	82°26'35.36744" W.	28°51'00.72119" N.	109.12'
15 ACTIVE	514845.7153	1642829.2377	82°26'29.23727" W.	28°51'08.35224" N.	124.21'
16 ACTIVE	515785.2792	1642282.8040	82°26'18.91501" W.	28°51'02.82307" N.	120.31'
17 ACTIVE	514818.8811	1641848.2474	82°26'20.83070" W.	28°51'06.36869" N.	111.85'
18 ACTIVE	514736.8420	1643748.0678	82°26'28.64317" W.	28°51'06.30775" N.	118.41'
19 ACTIVE	514818.3731	1643858.0382	82°26'28.73184" W.	28°51'08.22843" N.	114.16'
PEZOMETER 1	514454.7759	1643505.5883	82°26'33.70877" W.	28°51'14.78419" N.	111.56'
PEZOMETER 2	515020.7812	1643833.4563	82°26'27.35189" W.	28°51'18.05116" N.	117.32'
20 ACTIVE	518104.004	1642899.189	82°26'15.135" W.	28°51'08.831" N.	118.90' (NAVD 1988)
21 ACTIVE	515256.800	1643743.809	82°26'24.860" W.	28°51'17.173" N.	114.79' (NAVD 1988)

LANDFILL GAS MONITORING PROBE LOCATIONS					
GAS MONITORING PROBE No.	X COORDINATE	Y COORDINATE	LONGITUDE	LATITUDE	ELEVATION TOP OF WELL CASING
1	515758.6430	1644024.1837	82°26'19.05041" W.	28°51'19.98834" N.	114.31'
2	515311.3421	1643885.9184	82°26'24.09240" W.	28°51'18.57128" N.	121.10'
3	514383.4884	1643858.0382	82°26'28.34820" W.	28°51'18.34181" N.	115.09'
4	514330.4791	1643702.8107	82°26'35.10824" W.	28°51'16.73024" N.	104.54'
5	514152.2832	1643484.3618	82°26'37.10426" W.	28°51'14.58316" N.	105.17'
6	514089.5702	1642886.4787	82°26'38.00907" W.	28°51'08.64040" N.	112.12'
7	514119.8141	1642444.1984	82°26'37.42546" W.	28°51'04.26342" N.	114.80'
8	514085.1760	1641978.8777	82°26'37.68296" W.	28°51'06.85361" N.	108.71'
9	514126.7014	1641878.8201	82°26'33.64216" W.	28°51'06.67730" N.	114.28'
10	514812.7361	1641872.8168	82°26'28.78435" W.	28°51'06.58358" N.	125.70'
11	515387.4588	1641867.8273	82°26'23.92437" W.	28°51'08.82497" N.	114.60'
12	515688.1393	1641260.0907	82°26'20.88890" W.	28°51'02.56408" N.	117.04'
13	516085.8981	1641268.1881	82°26'15.15374" W.	28°51'02.70287" N.	107.41'
14	516811.7815	1641253.8098	82°26'09.35312" W.	28°51'02.56731" N.	127.48'
15	517087.5366	1641250.1318	82°26'04.22609" W.	28°51'02.83852" N.	124.11'
16	517305.4731	1641722.4381	82°26'01.57149" W.	28°51'07.23411" N.	120.84'
17	517310.3329	1642206.6639	82°26'01.53673" W.	28°51'02.02843" N.	117.59'
18	517305.2505	1642823.1043	82°26'01.61100" W.	28°51'08.15126" N.	118.01'
GS-1-3-E	515892.8475	1643186.3309	82°26'18.78484" W.	28°51'11.80096" N.	126.74'
GS-1-4-E	515693.4141	1643358.8338	82°26'19.78824" W.	28°51'13.48889" N.	127.45'
GS-1-5-E	515693.4328	1643368.7379	82°26'18.78024" W.	28°51'18.44567" N.	128.87'
GS-2-E	517032.8078	1642187.8890	82°26'04.65684" W.	28°51'01.83062" N.	128.86'
GS-4-E	517188.9927	1642182.9285	82°26'02.90069" W.	28°51'01.88807" N.	
GS-1-E	517032.1595	1642280.5152	82°26'04.65588" W.	28°51'02.56156" N.	128.28'
GS-1-W	514282.2892	1643189.8376	82°26'35.81750" W.	28°51'11.75208" N.	
GP-19	517285.633	1643146.816	82°26'01.741" W.	28°51'11.337" N.	124.04' (NAVD 1988)

REVISION DATE: 02/08/2011
FIELD DATE: 01/27/2011
REFLECT CHANGES TO MONITOR WELLS 4 AND 4-R, ADD MONITOR WELLS 20, 21, AND GAS PROBE 19

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AUG 31 2011
SOUTHWEST DISTRICT
TAMPA

ATTACHMENT B

REDEVELOPMENT LOGS AND CALIBRATION LOGS

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>Citrus Co. Central Landfill</u>	SITE LOCATION: <u>SR 44, LeCanto, FL</u>
WELL NO: <u>AW-20</u>	SAMPLE ID: <u>NA</u>
DATE: <u>07/01/11</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>120</u> feet to <u>125</u> feet	STATIC DEPTH TO WATER (feet): <u>114.18</u>	PURGE PUMP TYPE OR BAKER: <u>ESP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>125.70</u> feet - <u>114.18</u> feet X <u>0.16</u> gallons/foot = <u>1.85</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = <u>0.1</u> gallons + (<u>0.006</u> gallons/foot X <u>130</u> feet) + <u>0.2</u> gallons = <u>1.1</u> gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>122</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>122</u>	PURGING INITIATED AT: <u>1322</u>	PURGING ENDED AT: <u>1420</u>	TOTAL VOLUME PURGED (gallons): <u>49.9</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (micro units) (calc. units) <u>µS/cm</u>	DISSOLVED OXYGEN (calc. units) (mg/L or % saturation)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe) <u>ORP</u>
1322	Init.	0	0.86	114.18	—	—	—	0.86	—	CO-Brn	N
1328	5.2	5.2	0.86	117.53	5.54	25.30	290	0.45	278	"	N 9.1
1340	10.3	15.5	0.86	117.85	5.64	25.32	234	0.31	34.6	U.S. CO	N -7.2
1350	8.6	24.1	0.86	117.92	5.66	25.34	224	0.27	7.88	Clear	N -16.0
1400	8.6	32.7	0.86	117.92	5.67	25.34	224	0.28	1.07	"	N -22.3
1410	8.6	41.3	0.86	117.92	5.67	25.34	217	0.25	2.46	"	N -28.1
1420	8.6	49.9	0.86	117.96	5.69	25.35	209	0.26	2.02	"	N -32.5

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" = 1.57; 12" = 6.88
TUBING INSIDE DIA. CAPACITY (GAL/FT): 1/8" = 0.0005; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.015
PURGING EQUIPMENT CODES: B = Baker, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Daniel M. Gentry / John Foster</u>		SAMPLER(S) SKETCH (OR SIGNATURE): <u>[Signature]</u>		SAMPLING INITIATED AT: <u>1322</u>	SAMPLING ENDED AT: <u>1420</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>122</u>		TUBING MATERIAL CODE: <u>PE</u>		FIELD FILTERED: <u>Y</u> <u>(N)</u>	FILTER SIZE: <u>0.45</u> µm
FIELD DECONTAMINATION: PUMP <u>(Y)</u> <u>(N)</u>		TUBING <u>Y</u> <u>(N) (replaced)</u>		DUPLICATE: <u>Y</u> <u>(N)</u>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS ANALYOR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>None</u>									

REMARKS:

MATERIAL CODES: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, PP = Polypropylene, S = Silicone, T = Teflon, O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump, B = Baker, BP = Bladder Pump, ESP = Electric Submersible Pump, RFP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

WELL NO. <u>MW-21</u>	SITE LOCATION: <u>SR. 44, LeConte, FL</u>
SAMPLE ID: <u>NA</u>	DATE: <u>07/01/11</u>

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/3</u>	WELL SCREEN INTERVAL DEPTH: <u>105</u> feet to <u>125</u> feet	STATIC DEPTH TO WATER (feet): <u>110.33</u>	PURGE PUMP TYPE OR BAILER: <u>ESP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= <u>125</u> feet - <u>110.33</u> feet X <u>0.16</u> gallons/foot = <u>2.5</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
= <u>0.1</u> gallons + (<u>0.006</u> gallons/foot X <u>130</u> feet) + <u>0.2</u> gallons = <u>1.1</u> gallons				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (micro mhos/cm or µS/cm)	DISSOLVED OXYGEN (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1:40	Init.	0	0.29	110.33	—	—	—	2.30	—	#	N
1:56	4.6	4.6	0.29	112.36	4.37	25.96	75	0.70	910	lt. brn	N
2:06	2.9	7.5	0.29	112.24	4.25	26.23	73	0.58	456	"	N
2:16	2.9	10.4	0.29	112.68	4.12	26.04	73	0.82	128	"	N
2:26	3.6	14.0	0.36	112.91	4.13	25.86	72	0.73	220	"	N
2:40	5.0	19.0	0.36	113.12	4.04	25.70	71	0.65	134	"	N
2:50	7.2	26.2	0.36	113.24	3.96	25.62	69	0.78	90.2	lt. brn	N
3:00	13.2	39.4	0.66	117.80	3.87	24.47	50	1.23	648	lt. brn	N
3:30	6.6	46.0	0.66	118.10	3.85	24.44	50	2.34	168	"	N
4:40	6.6	52.6	0.66	118.20	3.97	24.46	50	2.08	126	"	N

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; 6" = 1.02; 8" = 1.47; 12" = 5.89
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

COLLECTED BY (PRINT) AFFILIATION: <u>David M. Cattermole, Polus Pro</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>—</u>	SAMPLING ENDED AT: <u>—</u>
PUMP OR TUBING PTH IN WELL (feet): <u>122</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD FILTERED: <u>Y</u> (N)	FILTER SIZE: <u>—</u> µm
1-D DECONTAMINATION: PUMP <u>(Y)</u> N TUBING <u>Y</u> <u>(N) (rechecked)</u>	DUPLICATE: <u>Y</u> <u>(N)</u>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
AMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
							<u>None</u>		

REMARKS: <u>Cloudy, milky, silty lt. brn @ start</u>
MATERIAL CODES: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, PP = Polypropylene, S = Silicone, T = Teflon, O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump, B = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, RFP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), O = Other (Specify)

ES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200; optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2001

FIELD EQUIPMENT CALIBRATION LOG

DATE: 07/01/11		PROJECT NAME: Citrus Co. Central Landfill		SHEET: 7 OF 1		
				PROJECT NO:		
EQUIPMENT:	YSI 556	SERIAL NO:	07E100698			
ACTUAL TIME:	1000	PERFORMED BY: Daniel M. Cattery				
CALIBRATION STANDARDS USED:	pH	CONDUCTIVITY			ORP	
	pH 4.00	pH 7.00	pH 10.00	180 us/cm	1413 us/cm	240 mV
Lot #	DAH359	DAI141	DAD410	A7156	A1E0356	5057
Expiration	8/1/2013	9/1/2012	4/1/2012	6/1/2013	11/14/2011	7/1/2014
CALIBRATION READINGS LOG:	pH 4.00	pH 7.00	pH 10.00	180 us/cm	1413 us/cm	240 mV
Befine Cal	4.00	7.00	=	=	1408	242.3
After Cal	3.99	7.00	=	=	1413	240.2
Cal. Accepted Cal. Good	1930	6.99	=	180	1414	240.5
CALIBRATION TECHNIQUE/FREQUENCY:	☒ PRIOR TO USE		☒ AFTER USE		☐ EACH SAMPLE LOCATION	
☐ OTHER (SPECIFY)						

EQUIPMENT: YSI 558		SERIAL NO.: 07E100590		PERFORMED BY: JMC	
CALIBRATION STANDARDS USED: Air Saturation					
CALIBRATION TECHNIQUE/FREQUENCY:		☒ PRIOR TO USE		☒ AFTER USE	
☐ OTHER (SPECIFY):		☐ EACH SAMPLE LOCATION			
Date/Time	7/1-1985	7/1-1985			
Temp. °C	28.01	25.97			
mg/L	7.87	8.13			
Cal. Accept	Yes	Yes			

[illegible]

ATTACHMENT C

RESULTS FROM JULY 2011 SAMPLING EVENT FOR
MONITORING WELLS MW-20 AND MW-21

Table 3-1. Analytical Results of Detected Parameters Compared to Groundwater Standards and/or Guidance Concentrations Citrus County Central Landfill First Semiannual 2011

WELL ID	Date Sampled	PARAMETER STANDARD	FIELD READINGS										VOLATILE ORGANICS												GENERAL CHEMISTRY					
			Color NS - Color Unit	pH 6.5 - 8.5 S.U.**	Temperature NS - C*	Dissolved Oxygen NS - mg/L	Specific Conductance NS - umhos/cm	Turbidity NS - NTU Unfiltered Filtered	Water Level ft btoe	Acetone 6.3 mg/L***	Benzene 1.0 ug/L*	Bromodichloromethane 0.6*** ug/L	Trihalomethanes 80 ug/L*	Chlorobenzene 100 ug/L*	Chloroform 70 ug/L***	Dibromochloromethane 0.4*** ug/L	1,4-Dichlorobenzene 75 ug/L*	1,1-Dichloroethane 70 ug/L***	cis-1,2-Dichloroethene 70 ug/L***	Ethylbenzene 30 ug/L**	Methylene Chloride 5 ug/L*	Trichloroethene 3.0 ug/L*	Vinyl Chloride 1.0 ug/L*	Xylenes, Total 20 ug/L**	Chloride 250 mg/L**	Ammonia (as N) 2.8 mg/L***	Nitrate (as N) 10 mg/L*	Fecal Coliform 1 CFU/100 ml	Total Dissolved Solids 500 mg/L**	
Background																														
MW-1R	7/20/2011		Clear	5.26	29.5	4.36	62	0.39	NA	112.83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	0.059	3.2	NA	38		
MW-2	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-3	7/20/2011		Clear	4.58	24.8	4.85	58	2.13	NA	113.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	ND	0.52	NA	10			
MW-7	7/20/2011		Clear	4.60	25.2	0.23	83	2.21	NA	122.45	ND	0.76 I	ND	ND	ND	ND	ND	ND	9.7	ND	ND	0.51 I	1.2 I	4.4	ND	ND	NA	46		
Compliance																														
MW-E	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-20	7/20/2011		Clear	5.61	25.5	0.15	332	4.57	NA	113.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	2.0	ND	NA	170			
MW-21	7/20/2011		Cloudy	4.21	24.0	0.50	56	64.1	4.77	109.86	ND	2.4	ND	ND	ND	ND	16	2.5	3.8	ND	ND	1.3	1.1 I	4.3	1.7	ND	NA	18		
Detection																														
MW-8R	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-9	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-AA	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-B	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-C	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-D	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Intermediate																														
MW-6	7/20/2011		Clear	3.47	24.4	0.32	550	1.37	NA	112.28	ND	0.69 I	1.1	3.7	ND	1.9	0.70 I	0.71 I	0.64 I	0.98 I	ND	ND	2.1	ND	13	1.0	3.8	ND	370	
Other, Assessment																														
MW-10	7/20/2011		Cloudy	4.55	23.6	0.25	43	52.1	0.54	107.78	ND	0.59 I	ND	ND	ND	ND	3.5	1.0	2.1	ND	ND	ND	0.81 I	1.7 I	7.6	0.041	0.10 I	NA	18	
MW-11	7/19/2011		Clear	6.79	23.8	0.67	297	2.84	NA	99.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9	ND	0.31 I	NA	220			
MW-12	7/19/2011		Clear	6.42	24.4	0.39	410	2.43	NA	98.25	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	3.9	0.32	ND	NA	300			
MW-13	7/19/2011		Clear	4.85	23.9	0.50	60	4.00	NA	106.68	ND	ND	ND	ND	ND	ND	2.8	0.69 I	2.5	ND	ND	ND	0.93 I	ND	5.3	ND	NA	24		
MW-14	7/19/2011		Clear	6.58	23.6	0.35	362	0.79	NA	103.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	ND	ND	NA	270			
MW-15	7/20/2011		Clear	4.41	23.4	0.73	43	1.55	NA	118.23	ND	ND	ND	ND	ND	ND	0.69 I	ND	ND	ND	ND	ND	2.5	0.045	ND	NA	12			
MW-17	7/20/2011		Clear	4.89	23.7	0.12	43	4.23	NA	105.54	ND	ND	ND	ND	ND	ND	0.53 I	ND	2.8	ND	ND	1.0	ND	2.5	ND	ND	NA	10		
MW-18	7/19/2011		Clear	5.34	28.3	1.93	67	28.9	NA	110.17	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA		
MW-19	7/19/2011		Clear	5.80	23.4	0.82	49	3.73	NA	107.83	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA		
QA/QC																														
Eq Blank 42413	7/19/2011		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND		
Trip Blank 42413	7/19/2011		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA		
Trip Blank 42442	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA		
Trip Blank 42450	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA		
Trip Blank 42453	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA		
Trip Blank 42455	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA		

LEGEND
* - Primary Drinking Water Standard
** - Secondary Drinking Water Standard
*** - Chapter 62-777 Groundwater Cleanup Target Levels (GCTLs)
Values that are bolded & highlighted exceed GCTLs and/or Standards
NS - No Standard
ND - Not Detected (i.e. if present, concentration is below the method detection limit [MDL])
NA - Not Analyzed
I - Reported value is between the MDL and the laboratory practical quantitation limit (PQL)
btot - below top of dedicated bladder pump

FLORIDA DEPARTMENT OF
ENVIRONMENT
AUG 1 2011

Table 3-1. (Continued) Analytical Results of Detected Parameters Compared to Groundwater Standards and/or Guidance Concentrations Citrus County Central Landfill First Semiannual 2011

		PARAMETER	METALS - Total Recoverable																METALS - Dissolved															
WELL ID	Date Sampled	STANDARD	Arsenic 10 ug/L*	Barium 2000 ug/L*	Beryllium 4.0 ug/L*	Cadmium 5.0 ug/L*	Chromium 100 ug/L*	Cobalt 140 ug/L***	Copper 1000 ug/L**	Iron 300 ug/L**	Lead 15 ug/L*	Nickel 100 ug/L*	Selenium 50 ug/L*	Silver 100 ug/L**	Sodium 160 mg/L*	Thallium 2.0 ug/L*	Vanadium 49 ug/L***	Zinc 5000 ug/L**	Arsenic 10 ug/L*	Barium 2000 ug/L*	Beryllium 4.0 ug/L*	Cadmium 5.0 ug/L*	Chromium 100 ug/L*	Cobalt 140 ug/L***	Copper 1000 ug/L**	Iron 300 ug/L**	Lead 15 ug/L*	Nickel 100 ug/L*	Selenium 50 ug/L*	Silver 100 ug/L**	Sodium 160 mg/L*	Thallium 2.0 ug/L*	Vanadium 49 ug/L***	Zinc 5000 ug/L**
Background																																		
MW-1R	7/20/2011		ND	4.3 I	ND	0.24 I	ND	0.39 I	ND	ND	ND	4.3 I	ND	ND	5.8	ND	ND	8.4 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	7/20/2011		ND	8.8	ND	0.49 I	ND	0.29 I	17	80 I	8.0	3.5 I	ND	ND	4.1	ND	ND	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	7/20/2011		7.9	15	ND	0.18 I	ND	0.62	ND	510	1.0 I	5.2	1.3 I	ND	12.0	ND	ND	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Compliance																																		
MW-E	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20	7/20/2011		6.4	11	ND	ND	ND	3.6	ND	32,000	ND	ND	ND	ND	10	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21	7/20/2011		3.1	58	ND	0.11 I	7.7	1.1	1.6 I	2,100	3.2	ND	1.1 I	ND	2.8	ND	4.7 I	11 I	2.3 I	4.1 I	ND	ND	ND	0.75	ND	870	0.25 I	ND	ND	ND	2.5	ND	ND	ND
Detection																																		
MW-8R	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-AA	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-B	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-C	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-D	Not Sampled		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intermediate																																		
MW-6	7/20/2011		ND	60	0.29 I	0.27 I	ND	1.7	7.6	130	1.5	20	ND	ND	90	ND	ND	16 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other, Assessment																																		
MW-10	7/20/2011		2.0	91	0.28 I	4.9	9.8	0.75	6.3	4,600	5.5	7.9	ND	4.3	5.2	ND	ND	64	2.1 I	4.1 I	ND	ND	0.13 I	0.58	ND	3,900	ND	3.4 I	ND	ND	4.9	ND	ND	32
MW-11	7/19/2011		ND	18	ND	ND	ND	ND	ND	38 I	ND	ND	ND	ND	3.5	0.62 I	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	7/19/2011		2.5	13	ND	ND	ND	0.70	ND	4,200	ND	ND	ND	ND	2.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	7/19/2011		3.2	6.4	ND	ND	ND	6.5	ND	2,500	0.21 I	4.6 I	ND	ND	3.1	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14	7/19/2011		ND	14	ND	0.13 I	ND	1.2	ND	120	ND	ND	ND	ND	2.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15	7/20/2011		2.6	6.9	ND	ND	ND	6.4	ND	6,200	0.21 I	2.6 I	ND	ND	3.3	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17	7/20/2011		3.7	15	ND	ND	ND	0.24 I	ND	4,200	ND	2.7 I	ND	ND	1.8	ND	ND	11 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18	7/19/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19	7/19/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QA/QC																																		
Eq Blank 42413	7/19/2011		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank 42413	7/19/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank 42442	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank 42450	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank 42453	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank 42455	7/20/2011		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LEGEND
* - Primary Drinking Water Standard
** - Secondary Drinking Water Standard
*** - Chapter 62-777 Groundwater Cleanup Target Levels (GCTLs)
Values that are bolded & highlighted exceed GCTLs and/or Standards
NS - No Standard
ND - Not Detected (i.e. if present, concentration is below the method detection limit (MDL))
NA - Not Analyzed
I - Reported value is between the MDL and the laboratory practical quantitation limit (PQL)

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
AUG 31 2011
SOUTHWEST DISTRICT
TAMPA