Johnson, Sabrina O

From: Hsu, Benjamin
Sent: Friday, December 14, 2018 3:42 PM
To: SWD_Waste
Subject: FW: Southeast County Landfill OGC File No. 17-0058 - Liquid Assessment Monitoring Monthly Progress Report for November 2018
Attachments: 20181214 November Liquid Assessment Monitoring Monthly Report.pdf

Forwarded to SWD_Waste
41193 Hillsborough Southeast

2018 November Consent Order Leachate Report
2018 November Consent Order Piezometer Report

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From: Curtis, Bob [mailto:BCurtis@scsengineers.com]
Sent: Friday, December 14, 2018 3:39 PM
To: Tafuni, Steven
Cc: Madden, Melissa ; Morgan, Steve ; Dilmore, Cory ; Kimberly Byer (ByerK@hillsboroughcounty.org) ; RuizLE@hillsboroughcounty.org; O'Neill, Joseph(Hillsborough County) ; Pelley, Cindy (Hillsborough County) ; Michael Townsel ; Chamberlain, Justin ; Hsu, Benjamin ; Guilbeault, Ken ; Spradlin, Kollan ; Devitt, Caroline ; Susan ; ttown@ufl.edu; steven.laux@essie.ufl.edu; Ciaravella, Philip
Subject: Southeast County Landfill OGC File No. 17-0058 - Liquid Assessment Monitoring Monthly Progress Report for November 2018

Dear Mr. Tafuni,

On behalf of Hillsborough County Transportation & Utility Services, Solid Waste Management Division, SCS Engineers is submitting the attached PDF of the November 2018 monthly progress report for the liquid assessment monitoring and dewatering activities completed at the Southeast County Landfill. This update is being submitted as a requirement of condition 9.(f) of the July 28, 2017 Consent Agreement between the State of Florida Department of Environmental Protection and Hillsborough County.

Please contact Ken Guilbeault (813-804-6716) or Kollan Spradlin (813-804-6706) if you have any questions or require additional information.

Regards,

Bob

Robert B. Curtis, P.E.
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Liquid Assessment Monitoring Monthly Progress Report for November 2018

Southeast County Landfill Lithia, Florida

Hillsborough County Transportation & Utilities Services
Solid Waste Management Division
332 North Falkenburg Road
Tampa, Florida 33619

SCS ENGINEERS

File No. 09215600.07 | **December 14, 2018**

3922 Coconut Palm Drive, Suite 102
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LIQUID ASSESSMENT MONITORING
MONTHLY PROGRESS REPORT
FOR NOVEMBER 2018

Southeast County Landfill
Lithia, Florida

Submitted to:

Hillsborough County
Transportation & Utilities Services
Solid Waste Management Division
332 North Falkenburg Road
Tampa, Florida 33619

Prepared by:

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December 14, 2018
File No. 09215600.07

KOLLAN LEE SPRADLIN
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12/14/18

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1 INTRODUCTION

On behalf of Hillsborough County Transportation & Utilities Services, Solid Waste Management Division (SWMD), SCS Engineers (SCS) is submitting this report to present the November 2018 monthly progress for the liquid assessment monitoring and dewatering activities completed at the Southeast County Landfill (SCLF) located in Lithia, Florida. This update is being submitted as a requirement of condition 9.(f) of the July 28, 2017, Consent Agreement between the State of Florida Department of Environmental Protection (FDEP) and Hillsborough County, Florida (the County). Condition 9.(f) states that the County shall submit a monthly progress report that, "shall include the preceding monthly leachate generation rates and weekly piezometers readings for the site."

Progress reports have been submitted monthly since July 2017. The following sections update and summarize data collected and actions initiated for the month of November 2018. Leachate pumpage data, piezometer readings, and dewatering activities are addressed below.

2 LEACHATE PUMPAGE DATA

Historically, a pump at permanent Pump Station B (PS-B) has removed leachate from Phases I-VI. As part of the on-going supplemental leachate removal at the SCLF, the SWMD has been pumping from additional locations. The supplemental pump locations are shown in Figure 1.

2.1 SUPPLEMENTAL DEWATERING LOCATIONS

2.1.1 Landfill Gas Extraction Well Network Phases I – VI

The SWMD has installed pneumatic pumps in existing Landfill Gas (LFG) Extraction Wells (EW) and Condensate Traps (CT) in the Phase I and II areas. Pumps were installed in four LFG EWs (EW-38, EW-44, EW-48, and EW-66) and three CTs (CT-1, CT-2, and CT-3). Air supply lines to operate the pumps and discharge lines were connected to the existing LFG system.

2.1.2 Pump Station 2

Following the installation of the cut-off trench along the eastern and southern sides of Phase II, a pump was installed in the cleanout of the header pipe. Pump Station 2 (PS-2) has a vacuum assisted diesel pump located at the eastern edge of Phase II in Cleanout 2-1. PS-2 pumps leachate from the Phase II header to the Main Leachate Pump Station (MLPS). Pumpage data for PS-2 is included in Appendix A.

The SWMD previously operated two additional pumping locations in Phase II of the SCLF that have since been removed due to insufficient liquid quantities at these locations. Temporary Pump Station 2 operated from February 2017 through August 2017. Temporary Pump Station 2B operated from August 2017 through December 2017. Appendix A includes the historical pumping data from these two pump locations.

2.1.3 Dewatering Wells

In May 2017, two leachate dewatering wells, with two pumps each, were installed in Phases I and II. The wells extend though the waste and drainage sand to the top of clay. The dewatering wells in Phase I are referred to as DW 1-1 and DW 1-2. The dewatering wells in Phase II are referred to as DW 2-1 and DW 2-2. A set of pneumatic pumps were installed in each of these wells in order to pump leachate from the lower waste and drainage sand layer, thus removing leachate at the lowest elevation possible.

On November 30, 2018, SCS representatives inspected and cleaned the pumps at the dewatering wells DW 1-1, DW 1-2, DW 2-1, and DW 2-2. While on site, SCS also inspected and cleaned the pump at EW-66. A memo describing the activities is included in Appendix B.

2.1.4 Evaluation of Alternate Pumping Locations

During November, the SWMD continued evaluating the new cleanouts on the north side of Phases II and III. The new cleanouts were evaluated, one at a time, to determine how much leachate can be pumped from each header pipe. The evaluation will also determine if CO 2-4 or CO 3-1 is a more productive leachate removal location than PS-2. On October 29, 2018, a temporary pump station with a vacuum assisted diesel pump was installed at CO 2-4 and pumping from PS-2 was stopped. On November 26, 2018, the temporary pump station was moved from CO 2-4 to CO 3-1 to continue the leachate removal location study. Upon establishment of an average leachate removal rate, the SWMD will move the temporary pump station to CO 2-2. The new supplemental pumping locations under evaluation are included in Appendix A.

2.2 SUPPLEMENTAL LEACHATE PUMPAGE DATA

As part of the on-going investigation of liquid, the SWMD collects pumping data from each of the supplemental dewatering locations described above. Table 1 summarizes the monthly pumping totals for November 2018. The daily leachate pumpage data through the end of November 2018 is provided in Appendix A.

Table 1. Summary of November 2018 Supplemental Pumping Data

Pump	Phase	Days Operation	Monthly Total (Gallons)	Increase or Decrease in Monthly Total from Previous Month	Daily Avg (GPD)
CT-1	II	26	22,829	↑	878
CT-2	I	1	918	↑	918
CT-3	I	0	-	-	-
EW-38	II	0	-	-	-
EW-44	I	29	12,941	↓	446
EW-48	I	28	5,106	↓	182
EW-66	II	9	4,349	↑	483
DW 1-1	I	29	12,982	↑	448
DW 1-2	I	29	26,648	↑	919
DW 2-1	II	27	13,105	↑	485
DW 2-2	II	1	345	-	345
PS-2 (CO 2-1)	II	0	-	↓	-
Test Location (CO 2-4)	II	26	527,212	↑	20,277
Test Location (CO 3-1)	II	4	26,034	-	6,509
November Total			652,469		21,749

2.3 SUPPLEMENTAL LEACHATE PUMPAGE DATA OBSERVATIONS FOR NOVEMBER 2018

- A total of approximately 652,469 gallons was removed from the Phase I and II areas from supplemental pumping in November 2018. The average daily supplemental withdrawal was approximately 21,749 gallons per day (GPD), based on 30 days.

- During November 2018, the total pumping decreased by approximately 204,253 gallons compared to October 2018.

- The test pump location at CO 2-4 pumped 527,212 gallons over 26 days in November, or an average of 20,277 GPD.

- From November 27 through November 30, the temporary test pump at CO 3-1 pumped an average of 6,509 GPD. The SWMD will continue pumping from CO 3-1 during the beginning of December 2018.

- The pneumatic pumps installed in LFG extraction wells EW-44, EW-48, and EW-66 and condensate trap CT-1 removed approximately 1,508 (avg.) GPD combined in November 2018.

- CT-3 was dry during the month of November and CT-2 pumped for 1 day during November for a total of 918 gallons.

- LFG extraction well EW-38 was dry during November 2018. EW-38 has not pumped since September 2017.
- DW 1-1 and DW 1-2 each pumped 29 days and averaged 448 and 919 GPD, respectively.
- DW 2-1 pumped for 27 days and averaged 485 GPD.
- DW 2-2 pumped for 1 day for a total of 345 gallons. This pumping coincided with the day that the pump was removed and cleaned.

3 PIEZOMETER READINGS

As part of the on-going investigation of liquid, the SWMD measures piezometer water levels once a week. Piezometers are differentiated by two construction types, Series-1 and Series-2. The Series-1 piezometers are screened in the drainage sand and waste. The Series-2 piezometers are screened in the drainage sand layer only. Locations of the current monitoring points are shown in Figure 2.

Additionally, daily precipitation data is collected from multiple rain gauges across the site and averaged for a daily rainfall total that is then presented as cumulative weekly rainfall. Weekly water level and precipitation data collected through the end of November is presented in Appendix C. Daily precipitation data is available in the water balance report in Appendix D.

3.1 SERIES-1 PIEZOMETER ABANDONMENT

As indicated in the October 2018 Monthly Progress Report, from November 5 through November 8, 2018, following consent from the FDEP, the SWMD completed the abandonment of Series-1 piezometers SB-01, SB-02, SB-03, SB-05, SB-19S, SB-23S, and SB-26. Series-2 piezometer SB-23D was also abandoned, as measurements could no longer be collected due to a damaged casing that resulted from shifting waste. An abandonment notification for SB-23D was submitted to the FDEP on November 7, 2018. The abandonment of the piezometers consisted of filling the casings and any annular space, if applicable, with grout. A copy of the well abandonment report is presented in Appendix E.

3.2 SERIES-1 PIEZOMETER AND PRECIPITATION DATA OBSERVATIONS FOR NOVEMBER 2018

Because most Series-1 piezometers were abandoned in early November, only one round of liquid level measurements was conducted on those Series-1 piezometers in the month of November.

Three Series-1 piezometers, SB-29, SB-30, and SB-32, remain functional. Both SB-29 and SB-30 showed an increase in liquid levels on November 23. It is believed that the increase was caused by a power failure that stopped the dewatering well pumps (DW-1 and DW-2), causing the liquid levels in the piezometers to increase. Both SB-29 and SB-30 showed a decrease in liquid levels in the week following restoration of power. SB-32 showed a slight decrease in liquid levels compared to October 2018.

An average of 1.8-inches of rain was recorded at the on-site rain gauges in November.

3.3 RESPONSE OF SERIES-2 PIEZOMETERS

During November, most liquid levels in the Series-2 piezometers continued to remain relatively steady. At most locations the liquid levels in the Series-2 piezometers during November 2018 are comparable to levels in November 2017.

A review of historical trends shows a declining trend in liquid levels in most Series-2 piezometers from October 2017 to May 2018. The liquid levels were steady in May and June 2018, slowly increasing in July and August 2018, then steady from September to November 2018 (Appendix C).

3.4 PHASE II CUT-OFF TRENCH

Monitoring and dewatering of the cut-off trench continues. The liquid levels in monitoring points MP 2-2 and MP 2-3 remained below 2 feet during November 2018. The liquid elevations at MP 2-2 were slightly higher (0.2 feet) than the liquid elevations at MP 2-3 during November 2018. Liquid in the cut-off trench flows to the Phase II header.

4 LIQUID REMOVAL ACTIVITIES

The SWMD has been following the activities outlined in the Corrective Action Plan (CAP) submitted to the FDEP on June 26, 2017. The SWMD submitted a revised CAP to the FDEP on July 16, 2018. Upon acceptance of the final submittal by the FDEP, the SWMD will begin to implement any changes in activities per the revised CAP.

5 WATER BALANCE

Per the Consent Agreement, the SWMD has been submitting monthly water balance reports to the FDEP prior to the 15th of each month. These reports contain leachate pumpage and storage data at the SCLF. A copy of the November 2018 Water Balance letter is presented in Appendix D.

6 WATER QUALITY

6.1 QUARTERLY SAMPLING AND ANALYSIS

Per Condition 10 of the Consent Agreement, the SWMD continued supplemental quarterly evaluation monitoring of select groundwater monitoring wells in November 2018. Laboratory analytical results of the August 2017, November 2017, and February 2018 sampling events show improving water quality at TH-67, TH-79, and TH-83. The May 2018 sampling event showed some increase in concentrations, likely due to low rainfall during this period causing a lowered surficial aquifer. Seasonal fluctuations of the surficial aquifer have occurred in the past and the water quality is expected to improve as the seasonal level of the surficial aquifer rises. The July 2018 sampling event showed improved groundwater quality, with concentrations of parameters (sodium, ammonia, chloride, and TDS) below the primary and secondary drinking water standards.

The November 2018 groundwater sampling event was conducted on November 8 and 9. The laboratory analytical data will be provided to FDEP within 60 days of the receipt of the laboratory results.

7 GEOPHYSICAL SURVEY

A geophysical survey was performed at the SCLF outside of the southeast corner of the landfill on November 3, 2018. The survey was conducted to compare the current soil conductivity conditions near TH-67 and TH-83 to previous surveys of the same area conducted in 2016 and 2017. A memo containing a summary of the results and a comparison to previous conditions will be submitted with the December progress report.

8 PLANNED ACTIVITES

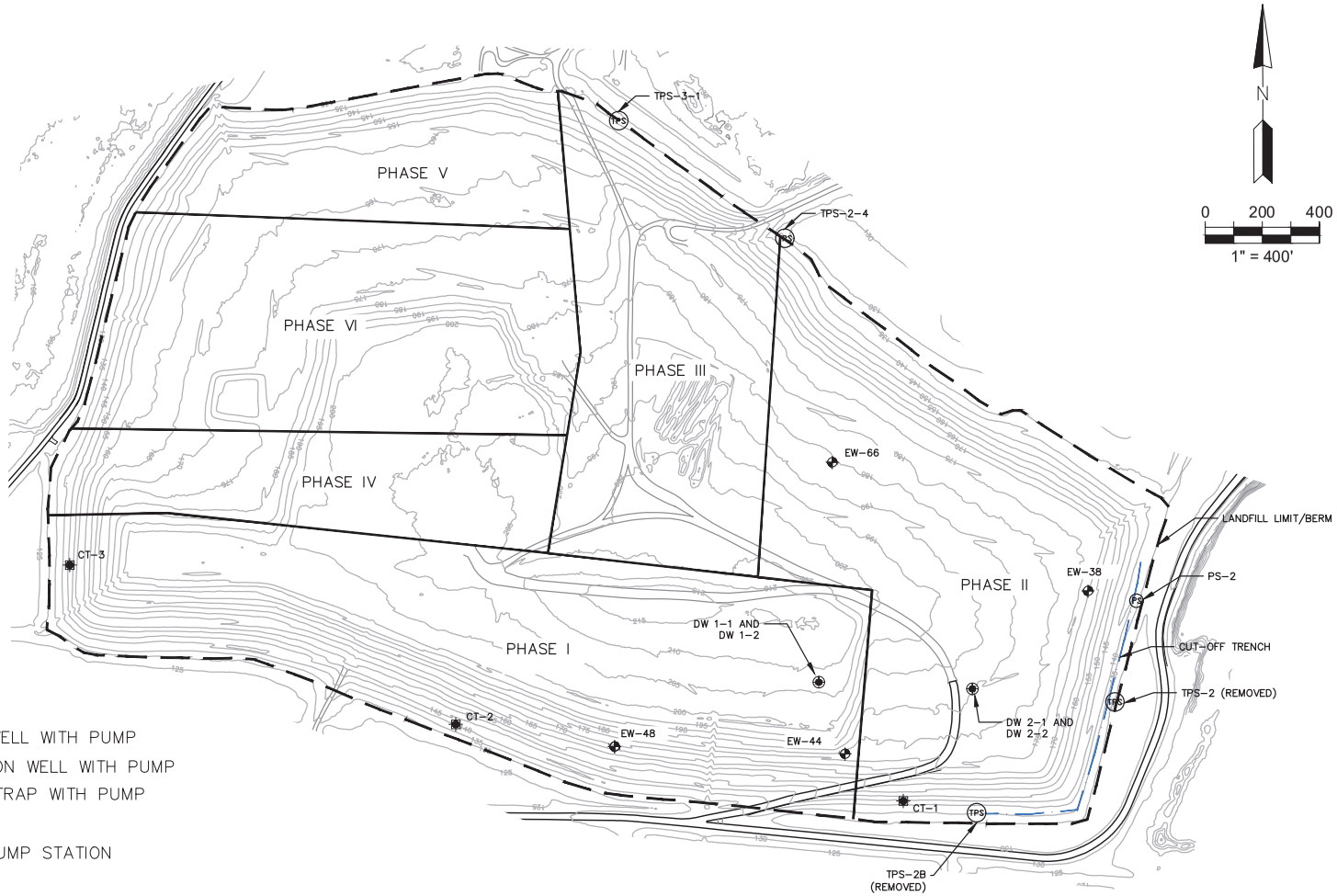
8.1 CONTINUATION OF PUMPING LOCATIONS STUDY

The SWMD will continue to evaluate the potential alternate pumping locations. The locations included in the study will be CO 2-1, CO 2-2, CO 2-4, and CO 3-1. Upon the completion of the pumping tests, the SWMD and SCS will evaluate the results and choose the optimal location(s) for a permanent supplemental dewatering pump station.

9 CONCLUSIONS

The SWMD continues to conduct liquid level measurement and dewatering activities in an effort to gain a more comprehensive understanding of the leachate movement within the landfill and to expedite dewatering in Phases I and II. Based on the University of Florida report, the liquid levels in Series-2 piezometers are not reliable indicators for head over liner. However, the SWMD will continue to collect piezometer measurements in accordance with the consent agreement. The SWMD will also continue to pump supplemental locations and monitor leachate pumping rates.

FIGURES



LEGEND:

- DEWATERING WELL WITH PUMP
- LFG EXTRACTION WELL WITH PUMP
- CONDENSATE TRAP WITH PUMP
- PUMP STATION
- TEMPORARY PUMP STATION
- PHASE LIMIT
- CUT-OFF TRENCH

NOTE:
1. TOPOGRAPHIC SURVEY BY PICKETT, JULY 2018.

SCS ENGINEERS

F:\PROJECT\HILLSBOROUGH\09215600.00\TASK 1110 - CORRECTIVE ACTIONS PLAN\MONTHLY PROGRESS REPORTS\CAD\FIGURE 1 - DEWATERING LOCATIONS.DWG

FIGURE 1. MAP OF SUPPLEMENTAL DEWATERING LOCATIONS
SOUTHEAST COUNTY LANDFILL
NOVEMBER 2018

LEGEND:

SB-21D ⊕ SECOND SERIES PIEZOMETER LOCATION

SB-03 ● FIRST SERIES PIEZOMETER LOCATION

SB-27 ○ REMOVED PIEZOMETER LOCATION

PHASE LIMIT

CUT-OFF TRENCH

⊗ MONITORING POINT

NOTE:

1. TOPOGRAPHIC SURVEY BY PICKETT, JULY 2018.

SCS ENGINEERS

F:\PROJECT\HILLSBOROUGH\09215600.00\TASK 1110 - CORRECTIVE ACTIONS PLAN\MONTHLY PROGRESS REPORTS\CAD\FIGURE 2 - MONITORING POINTS.DWG

FIGURE 2. MAP OF PIEZOMETERS AND MONITORING POINTS
SOUTHEAST COUNTY LANDFILL
NOVEMBER 2018

Appendix A

Daily Pumpage Data and Graphs

Appendix A - Pumping Data
Extraction Wells and Condensate Traps
Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
12/21/2016	0	0	0	0	988	537	0	1,525			0		1,525	
12/22/2016	0	0	0	0	754	433	0	1,187			0		1,187	
12/23/2016	0	0	0	0	1,016	568	0	1,584	4,296	614	0		1,584	
12/24/2016	0	0	0	0	0	0	0	0			0		0	
12/25/2016	0	0	0	0	165	91	0	256			0		256	
12/26/2016	0	0	0	0	1,526	745	0	2,271			0		2,271	
12/27/2016	0	0	0	0	710	500	0	1,210			0		1,210	
12/28/2016	0	0	0	0	1,192	500	0	1,692			0		1,692	
12/29/2016	0	0	0	0	854	468	0	1,322			0		1,322	
12/30/2016	0	0	0	0	824	449	0	1,273	8,024	1,146	0		1,273	
12/31/2016	0	0	0	0	0	0	0	0			0		0	
1/1/2017	0	0	0	0	231	124	0	355			0		355	
1/2/2017	0	0	0	0	1,483	730	0	2,213			0		2,213	
1/3/2017	0	0	0	0	823	422	0	1,245			0		1,245	
1/4/2017	0	0	0	0	893	470	0	1,363			0		1,363	
1/5/2017	2,004	0	0	0	799	421	0	3,224			2,004		1,220	
1/6/2017	514	0	0	0	791	427	0	1,732	10,132	1,447	514		1,218	
1/7/2017	0	0	0	0	0	0	0	0			0		0	
1/8/2017	806	0	0	0	280	139	0	1,225			806		419	
1/9/2017	761	0	0	0	584	1,451	0	2,796			761		2,035	
1/10/2017	0	0	0	0	0	0	0	0			0		0	
1/11/2017	4,435	0	0	0	1,722	117	0	6,274			4,435		1,839	
1/12/2017	2,341	0	0	0	897	652	0	3,890			2,341		1,549	
1/13/2017	2,173	0	0	0	808	551	0	3,532	17,717	2,531	2,173		1,359	
1/14/2017	812	0	0	0	290	247	0	1,349			812		537	
1/15/2017	0	934	0	0	0	0	0	934			934		0	
1/16/2017	2,884	584	0	0	1,386	1,133	0	5,987			3,468		2,519	
1/17/2017	2,610	89	0	0	914	789	0	4,402			2,699		1,703	
1/18/2017	2,700	106	0	0	871	747	0	4,424			2,806		1,618	
1/19/2017	2,068	260	0	0	635	601	0	3,564			2,328		1,236	
1/20/2017	2,569	336	0	0	777	714	0	4,396	25,056	3,579	2,905		1,491	
1/21/2017	0	0	0	0	0	0	0	0			0		0	
1/22/2017	973	430	0	0	259	266	0	1,928			1,403		525	
1/23/2017	3,074	164	0	0	1,305	1,113	0	5,656			3,238		2,418	
1/24/2017	2,030	173	0	0	737	615	0	3,555			2,203		1,352	
1/25/2017	1,737	488	0	0	666	623	0	3,514			2,225		1,289	
1/26/2017	1,680	469	0	0	646	642	0	3,437			2,149		1,288	
1/27/2017	1,531	250	0	0	608	473	0	2,862	20,952	2,993	1,781		1,081	
1/28/2017	1,664	87	0	0	608	401	0	2,760			1,751		1,009	
1/29/2017	1,664	77	0	0	608	401	0	2,750			1,741		1,009	
1/30/2017	808	0	0	0	647	386	0	1,841			808		1,033	
1/31/2017	2,139	36	0	0	776	412	0	3,363			2,175		1,188	
2/1/2017	1,887	62	0	0	661	434	0	3,044			1,949		1,095	
2/2/2017	1,887	62	0	0	661	434	0	3,044			1,949		1,095	
2/3/2017	2,992	626	0	0	959	684	0	5,261	22,063	3,152	3,618		1,643	
2/4/2017	2,992	626	0	0	1,109	685	0	5,412			3,618		1,794	
2/5/2017	0	0	0	0	0	0	0	0			0		0	
2/6/2017	1,164	351	0	0	643	370	0	2,528			1,515		1,013	
2/7/2017	0	434	0	0	579	439	0	1,452			434		1,018	
2/8/2017	6,303	434	0	0	770	449	0	7,956			6,737		1,219	
2/9/2017	8,443	436	0	0	686	424	0	9,989			8,879		1,110	
2/10/2017	7,597	382	0	0	516	355	0	8,850	36,187	5,170	7,979		871	
2/11/2017	9,119	322	0	0	645	443	0	10,529			9,441		1,088	
2/12/2017	9,119	322	0	0	645	443	0	10,529			9,441		1,088	
2/13/2017	9,208	0	0	0	813	444	0	10,465			9,208		1,257	
2/14/2017	9,731	0	0	0	1,178	452	0	11,361			9,731		1,630	
2/15/2017	9,807	0	0	0	886	445	0	11,138			9,807		1,331	
2/16/2017	9,233	0	0	0	712	404	0	10,349			9,233		1,116	
2/17/2017	7,652	0	0	0	552	342	0	8,546	72,917	10,417	7,652		894	
2/18/2017	9,223	1	0	0	543	399	0	10,166			9,224		942	

Appendix A - Pumping Data
Extraction Wells and Condensate Traps
Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
2/19/2017	9,223	1	0	0	543	399	0	10,166			9,224		942	
2/20/2017	9,480	0	0	0	516	424	0	10,420			9,480		940	
2/21/2017	9,836	0	0	0	578	427	0	10,841			9,836		1,005	
2/22/2017	9,142	0	0	0	595	421	0	10,158			9,142		1,016	
2/23/2017	4,816	83	0	0	580	496	0	5,975			4,899		1,076	
2/24/2017	4,923	32	0	0	480	410	0	5,845	63,571	9,082	4,955		890	
2/25/2017	3,677	0	0	0	459	368	0	4,504			3,677		827	
2/26/2017	3,677	0	0	0	459	368	0	4,504			3,677		827	
2/27/2017	1,580	2	0	0	439	418	0	2,439			1,582		857	
2/28/2017	1,574	0	0	0	481	447	0	2,502			1,574		928	
3/1/2017	1,667	158	0	0	504	455	0	2,784			1,825		959	
3/2/2017	2,182	364	0	0	429	515	0	3,490			2,546		944	
3/3/2017	1,327	168	0	0	201	329	0	2,025	22,248	3,178	1,495	2,339	530	839
3/4/2017	1,327	168	0	0	201	329	0	2,025			1,495		530	
3/5/2017	1,327	168	0	0	201	329	0	2,025			1,495		530	
3/6/2017	1,392	358	0	0	330	326	0	2,406			1,750		656	
3/7/2017	1,635	803	0	0	519	422	0	3,379			2,438		941	
3/8/2017	1,424	133	0	0	458	367	0	2,382			1,557		825	
3/9/2017	1,680	205	0	0	510	418	0	2,813			1,885		928	
3/10/2017	2,090	366	0	0	543	420	0	3,419	18,449	2,636	2,456	1,868	963	768
3/11/2017	2,289	268	0	0	585	382	0	3,524			2,557		967	
3/12/2017	2,289	268	0	0	585	382	0	3,524			2,557		967	
3/13/2017	2,625	13	0	0	647	346	0	3,631			2,638		993	
3/14/2017	2,039	287	0	0	501	350	0	3,177			2,326		851	
3/15/2017	1,356	476	0	0	453	306	0	2,591			1,832		759	
3/16/2017	1,018	409	0	0	385	268	0	2,080			1,427		653	
3/17/2017	1,028	0	0	0	443	336	0	1,807	20,334	2,905	1,028	2,052	779	853
3/18/2017	1,430	195	0	0	524	452	0	2,601			1,625		976	
3/19/2017	1,430	195	0	0	524	452	0	2,601			1,625		976	
3/20/2017	917	282	0	0	400	229	0	1,828			1,199		629	
3/21/2017	1,599	467	0	0	487	409	0	2,962			2,066		896	
3/22/2017	1,618	412	0	0	510	335	0	2,875			2,030		845	
3/23/2017	1,327	411	0	0	452	299	0	2,489			1,738		751	
3/24/2017	1,622	313	0	0	608	322	0	2,865	18,221	2,603	1,935	1,745	930	858
3/25/2017	1,739	0	0	0	298	370	0	2,407			1,739		668	
3/26/2017	1,739	0	0	0	298	370	0	2,407			1,739		668	
3/27/2017	1,500	0	0	0	360	403	0	2,263			1,500		763	
3/28/2017	1,324	0	0	0	339	409	0	2,072			1,324		748	
3/29/2017	1,042	0	0	0	335	383	0	1,760			1,042		718	
3/30/2017	1,408	0	0	0	388	445	0	2,241			1,408		833	
3/31/2017	1,056	0	0	0	411	390	0	1,857	15,007	2,144	1,056	1,401	801	743
4/1/2017	982	0	0	0	426	427	0	1,835			982		853	
4/2/2017	982	0	0	0	426	427	0	1,835			982		853	
4/3/2017	909	0	0	0	366	411	0	1,686			909		777	
4/4/2017	786	0	0	0	185	352	0	1,323			786		537	
4/5/2017	827	1	0	0	376	440	0	1,644			828		816	
4/6/2017	643	1	8	0	245	306	0	1,203			652		551	
4/7/2017	537	1	0	0	204	283	0	1,025	10,551	1,507	538	811	487	696
4/8/2017	90	0	0	0	59	64	0	213			90		123	
4/9/2017	0	0	0	0	0	0	0	0			0		0	
4/10/2017	241	0	0	0	368	239	0	848			241		607	
4/11/2017	464	0	0	141	304	234	0	1,143			464		679	
4/12/2017	795	2	0	111	320	379	1,121	2,728			797		1,931	
4/13/2017	952	0	0	90	292	374	510	2,218			952		1,266	
4/14/2017	747	1	0	55	345	316	363	1,827	8,977	1,282	748	470	1,079	812
4/15/2017	638	0	0	55	397	336	334	1,760			638		1,122	
4/16/2017	638	0	0	55	397	336	334	1,760			638		1,122	
4/17/2017	136	0	0	59	403	347	298	1,243			136		1,107	
4/18/2017	1,118	0	0	46	451	364	335	2,314			1,118		1,196	
4/19/2017	407	0	0	40	336	252	233	1,268			407		861	

Appendix A - Pumping Data
Extraction Wells and Condensate Traps
Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
4/20/2017	551	0	0	49	437	333	293	1,663			551		1,112	
4/21/2017	537	0	0	66	396	287	281	1,567	11,575	1,654	537	575	1,030	1,079
4/22/2017	661	0	0	76	460	347	283	1,827			661		1,166	
4/23/2017	661	0	0	76	460	347	283	1,827			661		1,166	
4/24/2017	566	0	0	57	353	255	248	1,479			566		913	
4/25/2017	529	0	0	31	380	281	256	1,477			529		948	
4/26/2017	478	0	0	24	369	293	258	1,422			478		944	
4/27/2017	376	0	0	12	355	307	264	1,314			376		938	
4/28/2017	258	0	0	0	351	293	235	1,137	10,483	1,498	258	504	879	993
4/29/2017	287	0	0	2	376	284	243	1,192			287		905	
4/30/2017	287	0	0	2	376	284	243	1,192			287		905	
5/1/2017	311	0	0	2	378	271	243	1,205			311		894	
5/2/2017	316	0	2	4	380	279	240	1,221			318		903	
5/3/2017	343	0	0	4	340	275	241	1,203			343		860	
5/4/2017	429	0	0	38	340	264	256	1,327			429		898	
5/5/2017	334	0	0	15	340	219	220	1,128	8,468	1,210	334	330	794	880
5/6/2017	87	0	0	0	340	274	218	919			87		832	
5/7/2017	87	0	0	0	340	274	218	919			87		832	
5/8/2017	95	0	0	0	340	185	213	833			95		738	
5/9/2017	233	0	0	0	340	266	215	1,054			233		821	
5/10/2017	187	0	0	0	340	289	207	1,023			187		836	
5/11/2017	259	0	0	0	340	329	234	1,162			259		903	
5/12/2017	331	0	0	8	344	318	213	1,214	7,124	1,018	331	183	883	835
5/13/2017	335	4	0	10	371	303	62	1,085			339		746	
5/14/2017	335	4	0	10	371	303	62	1,085			339		746	
5/15/2017	239	0	0	0	335	276	0	850			239		611	
5/16/2017	204	0	0	0	300	235	233	972			204		768	
5/17/2017	247	0	0	0	328	308	0	883			247		636	
5/18/2017	243	0	0	0	351	340	0	934			243		691	
5/19/2017	204	0	0	0	304	291	0	799	6,608	944	204	259	595	685
5/20/2017	255	0	0	0	332	309	274	1,170			255		915	
5/21/2017	255	0	0	0	332	309	274	1,170			255		915	
5/22/2017	334	0	0	0	302	285	240	1,161			334		827	
5/23/2017	338	0	0	0	317	270	230	1,155			338		817	
5/24/2017	394	0	0	3	337	278	237	1,249			394		855	
5/25/2017	306	0	0	0	314	252	208	1,080			306		774	
5/26/2017	286	0	0	0	270	229	190	975	7,960	1,137	286	310	689	827
5/27/2017	353	0	0	0	294	261	197	1,105			353		752	
5/28/2017	353	0	0	0	294	261	197	1,105			353		752	
5/29/2017	353	0	0	0	294	261	197	1,105			353		752	
5/30/2017	355	0	0	0	288	264	191	1,098			355		743	
5/31/2017	355	0	0	0	301	266	189	1,111			355		756	
6/1/2017	315	0	0	0	304	262	194	1,075			315		760	
6/2/2017	371	0	0	0	277	207	189	1,044	7,643	1,092	371	351	673	741
6/3/2017	364	0	0	0	302	218	189	1,073			364		709	
6/4/2017	364	0	0	0	302	218	189	1,073			364		709	
6/5/2017	425	0	0	0	308	208	187	1,128			425		703	
6/6/2017	402	0	0	0	316	204	216	1,138			402		736	
6/7/2017	449	0	0	0	32	195	197	873			449		424	
6/8/2017	442	0	0	0	556	176	159	1,333			442		891	
6/9/2017	454	0	0	0	262	205	0	921	7,539	1,077	454	414	467	663
6/10/2017	488	0	0	0	279	199	0	966			488		478	
6/11/2017	488	0	0	0	279	199	0	966			488		478	
6/12/2017	424	0	0	0	270	186	0	880			424		456	
6/13/2017	428	0	0	0	248	192	0	868			428		440	
6/14/2017	442	0	0	0	276	198	0	916			442		474	
6/15/2017	511	0	0	0	296	237	0	1,044			511		533	
6/16/2017	395	0	0	0	281	227	0	903	6,543	935	395	454	508	481
6/17/2017	96	0	0	2	101	99	279	577			96		481	
6/18/2017	96	0	0	2	101	99	279	577			96		481	

Appendix A - Pumping Data
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Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
6/19/2017	113	0	0	19	314	190	500	1,136			113		1,023	
6/20/2017	415	0	0	8	301	256	0	980			415		565	
6/21/2017	585	0	0	0	274	234	0	1,093			585		508	
6/22/2017	663	0	0	0	288	247	0	1,198			663		535	
6/23/2017	619	0	0	0	268	250	0	1,137	6,698	957	619	370	518	587
6/24/2017	571	0	0	0	263	244	0	1,078			571		507	
6/25/2017	571	0	0	0	263	244	0	1,078			571		507	
6/26/2017	518	0	0	0	266	241	0	1,025			518		507	
6/27/2017	495	0	0	0	267	240	0	1,002			495		507	
6/28/2017	490	0	0	0	260	242	395	1,387			490		897	
6/29/2017	484	0	0	0	277	243	234	1,238			484		754	
6/30/2017	190	0	0	0	241	192	0	623	7,431	1,062	190	474	433	587
7/1/2017	113	0	0	0	235	199	0	547			113		434	
7/2/2017	113	0	0	0	235	199	0	547			113		434	
7/3/2017	388	0	0	0	278	250	0	916			388		528	
7/4/2017	388	0	0	0	278	250	0	916			388		528	
7/5/2017	411	0	0	0	204	265	337	1,217			411		806	
7/6/2017	473	0	0	0	339	291	0	1,103			473		630	
7/7/2017	483	0	0	0	255	295	393	1,426	6,672	953	483	338	943	615
7/8/2017	492	0	0	0	286	296	0	1,074			492		582	
7/9/2017	492	0	0	0	286	296	0	1,074			492		582	
7/10/2017	451	0	0	12	288	295	220	1,266			451		815	
7/11/2017	399	0	0	0	241	296	15	951			399		552	
7/12/2017	342	0	0	0	259	304	50	955			342		613	
7/13/2017	473	0	0	0	281	371	1	1,126			473		653	
7/14/2017	873	0	0	0	263	316	0	1,452	7,898	1,128	873	503	579	625
7/15/2017	475	0	0	0	269	496	1	1,241			475		766	
7/16/2017	475	0	0	0	269	496	1	1,241			475		766	
7/17/2017	529	0	0	0	221	642	0	1,392			529		863	
7/18/2017	389	0	0	0	226	520	0	1,135			389		746	
7/19/2017	505	0	0	0	331	847	0	1,683			505		1,178	
7/20/2017	435	0	0	0	257	712	0	1,404			435		969	
7/21/2017	464	0	0	0	273	756	1,814	3,307	11,403	1,629	464	467	2,843	1,162
7/22/2017	470	0	0	0	285	712	608	2,075			470		1,605	
7/23/2017	470	0	0	0	285	712	608	2,075			470		1,605	
7/24/2017	523	0	0	0	304	838	424	2,089			523		1,566	
7/25/2017	513	0	0	0	301	843	363	2,020			513		1,507	
7/26/2017	529	0	0	0	323	919	328	2,099			529		1,570	
7/27/2017	540	0	0	0	340	873	94	1,847			540		1,307	
7/28/2017	528	0	0	0	319	771	0	1,618	13,823	1,975	528	510	1,090	1,464
7/29/2017	526	0	0	0	330	730	0	1,586			526		1,060	
7/30/2017	526	0	0	0	330	730	0	1,586			526		1,060	
7/31/2017	2,884	105	0	1,027	398	613	0	5,027			2,989		2,038	
8/1/2017	1,634	0	0	886	406	895	5	3,826			1,634		2,192	
8/2/2017	656	0	0	735	318	377	1,353	3,439			656		2,783	
8/3/2017	942	0	0	902	348	941	6,393	9,526			942		8,584	
8/4/2017	1,005	0	0	833	324	990	5,261	8,413	33,403	4,772	1,005	1,183	7,408	3,589
8/5/2017	986	0	0	1,267	357	1,331	6,135	10,076			986		9,090	
8/6/2017	986	0	0	1,267	357	1,331	6,135	10,076			986		9,090	
8/7/2017	1,041	0	0	1,579	391	1,574	6,173	10,758			1,041		9,717	
8/8/2017	828	0	0	1,512	363	1,193	5,553	9,449			828		8,621	
8/9/2017	913	0	0	1,518	412	1,364	5,862	10,069			913		9,156	
8/10/2017	898	0	0	1,571	426	1,349	6,181	10,425			898		9,527	
8/11/2017	889	0	0	1,535	451	1,313	5,949	10,137	70,990	10,141	889	934	9,248	9,207
8/12/2017	720	0	0	1,399	455	1,019	5,697	9,290			720		8,570	
8/13/2017	720	0	0	1,399	455	1,019	5,697	9,290			720		8,570	
8/14/2017	748	0	0	1,427	493	1,049	5,987	9,704			748		8,956	
8/15/2017	696	0	0	1,378	502	1,089	5,921	9,586			696		8,890	
8/16/2017	674	0	0	1,341	510	980	5,974	9,479			674		8,805	
8/17/2017	701	0	0	1,341	540	959	5,976	9,517			701		8,816	

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	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
8/18/2017	630	0	0	1,378	543	1,044	6,632	10,227	67,093	9,585	630	698	9,597	8,886
8/19/2017	665	0	0	1,314	509	1,041	6,540	10,069			665		9,404	
8/20/2017	665	0	0	1,314	509	1,041	6,540	10,069			665		9,404	
8/21/2017	662	0	0	1,093	453	932	5,934	9,074			662		8,412	
8/22/2017	595	0	0	1,215	437	896	6,642	9,785			595		9,190	
8/23/2017	669	0	0	1,220	610	856	6,367	9,722			669		9,053	
8/24/2017	730	0	0	1,190	509	845	5,965	9,239			730		8,509	
8/25/2017	866	0	0	1,112	498	702	6,612	9,790	67,748	9,678	866	693	8,924	8,985
8/26/2017	4,390	13	0	1,235	550	719	6,530	13,437			4,403		9,034	
8/27/2017	4,390	13	0	1,235	550	719	6,530	13,437			4,403		9,034	
8/28/2017	6,605	0	0	1,017	465	842	5,286	14,215			6,605		7,610	
8/29/2017	5,418	0	0	1,268	0	1,012	6,422	14,120			5,418		8,702	
8/30/2017	16,198	0	0	1,409	1,290	1,467	6,447	26,811			16,198		10,613	
8/31/2017	12,471	0	0	1,504	518	2,345	5,610	22,448			12,471		9,977	
9/1/2017	5,913	0	0	2,207	607	1,948	4,675	15,350	119,818	19,970	5,913	7,916	9,437	7,853
9/2/2017	8,289	0	0	3,816	915	2,967	9,150	25,137			8,289		16,848	
9/3/2017	4,144	0	0	1,908	458	1,483	4,575	12,568			4,144		8,424	
9/4/2017	4,144	0	0	1,908	458	1,483	4,575	12,568			4,144		8,424	
9/5/2017	6,165	0	0	1,597	425	1,278	3,723	13,188			6,165		7,023	
9/6/2017	12,707	12	0	3,395	732	2,692	5,786	25,324			12,719		12,605	
9/7/2017	0	13	0	0	0	0	0	13			13		0	
9/8/2017	26,709	0	0	5,127	1,493	4,083	11,836	49,248	138,046	23,008	26,709	8,883	22,539	10,838
9/9/2017	0	0	0	0	0	0	0	0			0		0	
9/10/2017	0	0	0	0	0	0	0	0			0		0	
9/11/2017	0	0	0	0	0	0	0	0			0		0	
9/12/2017	0	0	0	0	0	0	0	0			0		0	
9/13/2017	0	0	0	0	0	0	0	0			0		0	
9/14/2017	21,344	0	0	3,502	1,320	2,680	8,439	37,285			21,344		15,941	
9/15/2017	0	0	0	0	0	0	0	0	37,285	6,214	0	3,049	0	2,277
9/16/2017	0	0	0	0	0	0	0	0			0		0	
9/17/2017	0	0	0	0	0	0	1	1			0		1	
9/18/2017	0	0	0	0	0	0	0	0			0		0	
9/19/2017	7,629	31	0	392	0	4,315	0	12,367			7,660		4,707	
9/20/2017	140	0	0	511	0	521	0	1,172			140		1,032	
9/21/2017	0	5,110	0	0	0	0	0	5,110			5,110		0	
9/22/2017	8,150	2	0	6,725	0	5,399	6,674	26,950	45,600	6,514	8,152	3,009	18,798	3,505
9/23/2017	26,000	1	0	2,702	0	3,368	6,243	38,314			26,001		12,313	
9/24/2017	11,193	1	0	0	0	2,774	6,248	20,216			11,194		9,022	
9/25/2017	10,065	1	0	1	0	2,183	5,053	17,303			10,066		7,237	
9/26/2017	9,428	3	0	0	0	2,637	5,344	17,412			9,431		7,981	
9/27/2017	8,577	726	0	0	0	1,729	4,877	15,909			9,303		6,606	
9/28/2017	0	1	0	1	0	2,032	1	2,035			1		2,034	
9/29/2017	9,529	2	0	0	0	2,217	4,744	16,492	127,681	18,240	9,531	10,790	6,961	7,451
9/30/2017	9,140	329	0	0	0	2,175	6,076	17,720			9,469		8,251	
10/1/2017	9,140	329	0	0	0	2,175	6,076	17,720			9,469		8,251	
10/2/2017	7,072	123	0	0	0	1,615	5,565	14,375			7,195		7,180	
10/3/2017	8,375	139	0	0	0	1,806	6,147	16,467			8,514		7,953	
10/4/2017	7,611	152	0	0	1,797	1,729	5,180	16,469			7,763		8,706	
10/5/2017	8,547	122	0	0	1,465	1,606	6,413	18,153			8,669		9,484	
10/6/2017	9,391	141	0	0	724	1,769	5,029	17,054	117,958	16,851	9,532	8,659	7,522	8,192
10/7/2017	9,752	138	0	0	875	1,554	4,700	17,019			9,890		7,129	
10/8/2017	9,752	138	0	0	875	1,554	4,700	17,019			9,890		7,129	
10/9/2017	9,719	142	0	0	753	1,322	4,344	16,280			9,861		6,419	
10/10/2017	9,255	152	0	0	808	1,002	4,416	15,633			9,407		6,226	
10/11/2017	12,813	184	0	0	1,081	1,642	7,263	22,983			12,997		9,986	
10/12/2017	8,344	116	0	0	845	809	5,178	15,292			8,460		6,832	
10/13/2017	10,651	142	0	0	704	872	6,218	18,587	122,813	17,545	10,793	10,185	7,794	7,359
10/14/2017	12,707	151	0	0	747	1,233	7,480	22,318			12,858		9,460	
10/15/2017	12,707	151	0	0	747	1,233	7,480	22,318			12,858		9,460	
10/16/2017	8,834	100	0	0	516	803	5,286	15,539			8,934		6,605	

Appendix A - Pumping Data
Extraction Wells and Condensate Traps
Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
10/17/2017	6,624	134	0	0	617	954	6,393	14,722			6,758		7,964	
10/18/2017	17,264	132	0	0	646	1,002	6,711	25,755			17,396		8,359	
10/19/2017	11,304	137	0	0	646	1,192	6,715	19,994			11,441		8,553	
10/20/2017	8,111	114	0	0	556	901	6,031	15,713	136,359	19,480	8,225	11,210	7,488	8,270
10/21/2017	12,024	130	0	0	600	1,014	255	14,023			12,154		1,869	
10/22/2017	12,024	130	0	0	600	1,014	255	14,023			12,154		1,869	
10/23/2017	12,762	126	0	0	623	989	34	14,534			12,888		1,646	
10/24/2017	12,685	115	0	0	590	844	942	15,176			12,800		2,376	
10/25/2017	4,103	37	0	0	179	316	1,850	6,485			4,140		2,345	
10/26/2017	8,968	159	0	0	714	1,229	4,901	15,971			9,127		6,844	
10/27/2017	14,467	147	0	0	635	931	6,809	22,989	103,201	14,743	14,614	11,125	8,375	3,618
10/28/2017	14,467	147	0	0	635	931	6,809	22,989			14,614		8,375	
10/29/2017	14,467	147	0	0	635	931	6,809	22,989			14,614		8,375	
10/30/2017	9,801	0	0	0	130	577	4,877	15,385			9,801		5,584	
10/31/2017	14,288	117	0	0	756	983	6,217	22,361			14,405		7,956	
11/1/2017	17,179	165	0	0	633	1,207	7,588	26,772			17,344		9,428	
11/2/2017	8,928	80	0	0	395	802	4,657	14,862			9,008		5,854	
11/3/2017	13,372	118	0	0	501	983	5,728	20,702	146,060	20,866	13,490	13,325	7,212	7,541
11/4/2017	14,005	129	0	0	494	961	6,190	21,779			14,134		7,645	
11/5/2017	14,005	129	0	0	494	961	6,190	21,779			14,134		7,645	
11/6/2017	14,288	131	0	0	484	911	6,847	22,661			14,419		8,242	
11/7/2017	14,501	132	0	0	522	929	6,299	22,383			14,633		7,750	
11/8/2017	6,774	134	0	0	281	459	3,261	10,909			6,908		4,001	
11/9/2017	14,000	166	0	0	575	1,078	0	15,819			14,166		1,653	
11/10/2017	12,305	176	0	0	473	868	11,930	25,752	141,082	20,155	12,481	12,982	13,271	7,172
11/11/2017	12,380	188	0	0	474	867	6,886	20,795			12,568		8,227	
11/12/2017	12,380	188	0	0	474	867	6,886	20,795			12,568		8,227	
11/13/2017	13,259	165	0	0	461	765	6,631	21,281			13,424		7,857	
11/14/2017	14,314	180	0	0	443	807	6,189	21,933			14,494		7,439	
11/15/2017	15,099	193	0	0	479	825	6,423	23,019			15,292		7,727	
11/16/2017	14,156	182	0	0	444	735	6,326	21,843			14,338		7,505	
11/17/2017	13,634	125	0	0	401	607	5,496	20,263	149,929	21,418	13,759	13,778	6,504	7,641
11/18/2017	14,368	183	0	0	452	756	5,962	21,721			14,551		7,170	
11/19/2017	14,368	183	0	0	452	756	5,962	21,721			14,551		7,170	
11/20/2017	13,812	174	0	0	420	636	6,450	21,492			13,986		7,506	
11/21/2017	13,691	177	0	0	431	621	5,573	20,493			13,868		6,625	
11/22/2017	13,723	162	0	0	437	695	6,165	21,182			13,885		7,297	
11/23/2017	13,723	162	0	0	437	695	6,165	21,182			13,885		7,297	
11/24/2017	14,257	140	0	0	360	456	5,504	20,717	148,508	21,215	14,397	14,160	6,320	7,055
11/25/2017	14,654	150	0	0	393	575	6,124	21,896			14,804		7,092	
11/26/2017	14,654	150	0	0	393	575	6,124	21,896			14,804		7,092	
11/27/2017	13,301	155	0	0	387	524	5,953	20,320			13,456		6,864	
11/28/2017	14,420	187	0	0	374	612	5,900	21,493			14,607		6,886	
11/29/2017	14,844	192	0	0	409	664	6,286	22,395			15,036		7,359	
11/30/2017	12,815	167	0	0	394	553	5,949	19,878			12,982		6,896	
12/1/2017	14,531	167	0	0	365	579	5,773	21,415	149,293	21,328	14,698	14,341	6,717	6,987
12/2/2017	14,202	181	0	0	387	599	6,185	21,554			14,383		7,171	
12/3/2017	14,202	181	0	0	387	599	6,185	21,554			14,383		7,171	
12/4/2017	16,926	233	0	0	390	693	6,577	24,819			17,159		7,660	
12/5/2017	12,181	137	0	0	386	565	6,100	19,369			12,318		7,051	
12/6/2017	14,969	152	0	0	466	755	7,260	23,602			15,121		8,481	
12/7/2017	9,028	199	0	0	279	445	4,518	14,469			9,227		5,242	
12/8/2017	13,367	227	0	0	504	676	7,734	22,508	147,875	21,125	13,594	13,741	8,914	7,384
12/9/2017	13,317	143	0	0	261	264	5,086	19,071			13,460		5,611	
12/10/2017	13,317	143	0	0	261	264	5,086	19,071			13,460		5,611	
12/11/2017	13,095	182	0	0	362	381	5,955	19,975			13,277		6,698	
12/12/2017	13,396	172	0	0	382	457	6,103	20,510			13,568		6,942	
12/13/2017	14,552	153	0	0	373	417	6,550	22,045			14,705		7,340	
12/14/2017	12,515	170	0	0	346	473	5,825	19,329			12,685		6,644	
12/15/2017	14,688	167	0	0	319	434	5,868	21,476	141,477	20,211	14,855	13,716	6,621	6,495

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Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
12/16/2017	13,500	169	0	0	329	478	6,152	20,628			13,669		6,959	
12/17/2017	13,500	169	0	0	329	478	6,152	20,628			13,669		6,959	
12/18/2017	11,973	161	0	0	302	489	5,642	18,567			12,134		6,433	
12/19/2017	14,234	185	0	0	352	537	6,312	21,620			14,419		7,201	
12/20/2017	24,701	164	0	0	334	531	5,865	31,595			24,865		6,730	
12/21/2017	26,536	176	0	0	329	587	6,102	33,730			26,712		7,018	
12/22/2017	27,409	169	0	0	312	360	6,102	34,352	181,120	25,874	27,578	19,007	6,774	6,868
12/23/2017	26,669	174	0	0	315	446	6,180	33,784			26,843		6,941	
12/24/2017	26,669	174	0	0	315	446	6,180	33,784			26,843		6,941	
12/25/2017	26,669	174	0	0	315	446	6,180	33,784			26,843		6,941	
12/26/2017	28,762	180	0	0	330	430	6,618	36,320			28,942		7,378	
12/27/2017	26,600	155	0	0	265	384	5,565	32,969			26,755		6,214	
12/28/2017	26,598	173	0	0	331	398	6,250	33,750			26,771		6,979	
12/29/2017	26,701	166	0	0	315	321	6,109	33,612	238,003	34,000	26,867	27,123	6,745	6,877
12/30/2017	20,093	166	0	0	309	354	6,172	27,094			20,259		6,835	
12/31/2017	20,093	166	0	0	309	354	6,172	27,094			20,259		6,835	
1/1/2018	20,093	166	0	0	309	354	6,172	27,094			20,259		6,835	
1/2/2018	109	159	0	0	310	301	6,266	7,145			268		6,877	
1/3/2018	8,675	144	0	0	306	276	6,279	15,680			8,819		6,861	
1/4/2018	348	158	0	0	269	311	5,939	7,025			506		6,519	
1/5/2018	90	163	0	0	262	326	6,164	7,005	118,137	16,877	253	10,089	6,752	6,788
1/6/2018	5,863	171	0	0	282	356	6,175	12,847			6,034		6,813	
1/7/2018	5,863	171	0	0	282	356	6,175	12,847			6,034		6,813	
1/8/2018	21,201	166	0	0	300	469	5,978	28,114			21,367		6,747	
1/9/2018	426	2	0	0	8	5	193	634			428		206	
1/10/2018	0	2	0	0	1	1	0	4			2		2	
1/11/2018	16,841	493	0	0	479	593	5,338	23,744			17,334		6,410	
1/12/2018	21,557	159	0	0	0	385	6,030	28,131	106,321	15,189	21,716	10,416	6,415	4,772
1/13/2018	22,898	155	0	0	379	232	6,152	29,816			23,053		6,763	
1/14/2018	22,898	155	0	0	379	232	6,152	29,816			23,053		6,763	
1/15/2018	22,898	155	0	0	379	232	6,152	29,816			23,053		6,763	
1/16/2018	13	164	0	0	78	263	6,081	6,599			177		6,422	
1/17/2018	15,975	149	0	0	317	265	6,098	22,804			16,124		6,680	
1/18/2018	21,643	6	0	0	271	209	5,784	27,913			21,649		6,264	
1/19/2018	22,155	289	0	0	281	257	5,570	28,552	175,316	25,045	22,444	18,508	6,108	6,538
1/20/2018	23,061	161	0	0	277	303	6,305	30,107			23,222		6,885	
1/21/2018	23,061	161	0	0	277	303	6,305	30,107			23,222		6,885	
1/22/2018	23,993	78	0	0	292	374	6,420	31,157			24,071		7,086	
1/23/2018	23,632	10	0	0	258	292	6,102	30,294			23,642		6,652	
1/24/2018	21,700	0	0	0	218	228	5,526	27,672			21,700		5,972	
1/25/2018	23,530	0	0	0	242	224	6,295	30,291			23,530		6,761	
1/26/2018	24,192	0	0	0	234	273	5,771	30,470	210,098	30,014	24,192	23,368	6,278	6,646
1/27/2018	23,276	0	0	0	270	314	5,947	29,807			23,276		6,531	
1/28/2018	23,276	0	0	0	270	314	5,947	29,807			23,276		6,531	
1/29/2018	25,242	0	0	0	240	243	5,991	31,716			25,242		6,474	
1/30/2018	26,225	0	0	0	222	210	5,869	32,526			26,225		6,301	
1/31/2018	25,743	0	0	0	249	241	6,166	32,399			25,743		6,656	
2/1/2018	11,549	0	0	0	244	270	5,899	17,962			11,549		6,413	
2/2/2018	12,458	0	0	0	258	282	6,200	19,198	193,415	27,631	12,458	21,110	6,740	6,521
2/3/2018	11,693	0	0	0	252	291	6,282	18,518			11,693		6,825	
2/4/2018	11,693	0	0	0	252	291	3,141	15,377			11,693		3,684	
2/5/2018	14,904	0	0	0	224	344	2,835	18,307			14,904		3,403	
2/6/2018	7,335	0	0	0	218	187	3,055	10,795			7,335		3,460	
2/7/2018	11,251	0	0	0	251	327	3,281	15,110			11,251		3,859	
2/8/2018	9,472	0	0	0	216	183	4,643	14,514			9,472		5,042	
2/9/2018	10,111	0	0	0	232	311	3,134	13,788	106,409	15,201	10,111	10,923	3,677	4,279
2/10/2018	10,235	0	0	0	233	349	3,072	13,889			10,235		3,654	
2/11/2018	10,235	0	0	0	233	349	3,072	13,889			10,235		3,654	
2/12/2018	10,976	0	0	0	218	346	3,241	14,781			10,976		3,805	
2/13/2018	10,557	0	0	0	231	326	3,842	14,956			10,557		4,399	

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DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
2/14/2018	0	0	0	0	185	251	409	845			0		845	
2/15/2018	2,657	0	0	0	234	325	659	3,875			2,657		1,218	
2/16/2018	0	0	0	0	216	297	0	513	62,748	8,964	0	6,380	513	2,584
2/17/2018	0	0	0	0	224	314	4	542			0		542	
2/18/2018	0	0	0	0	224	314	0	538			0		538	
2/19/2018	0	0	0	0	194	290	1,907	2,391			0		2,391	
2/20/2018	149	0	0	0	203	330	2,983	3,665			149		3,516	
2/21/2018	78	80	0	0	197	285	2,970	3,610			158		3,452	
2/22/2018	78	86	0	0	185	284	2,819	3,452			164		3,288	
2/23/2018	74	82	0	0	202	283	2,928	3,569	17,767	2,538	156	90	3,413	2,449
2/24/2018	76	84	0	0	214	298	3,063	3,735			160		3,575	
2/25/2018	76	84	0	0	214	298	3,063	3,735			160		3,575	
2/26/2018	73	152	0	0	199	293	3,063	3,780			225		3,555	
2/27/2018	74	17	0	0	198	273	1,039	1,601			91		1,510	
2/28/2018	87	87	0	0	213	280	3,134	3,801			174		3,627	
3/1/2018	76	85	0	0	205	133	2,484	2,983			161		2,822	
3/2/2018	71	83	0	0	197	118	3,143	3,612	23,247	3,321	154	161	3,458	3,160
3/3/2018	73	81	0	0	198	103	2,877	3,332			154		3,178	
3/4/2018	73	81	0	0	198	103	2,877	3,332			154		3,178	
3/5/2018	16	0	0	0	44	5	640	705			16		689	
3/6/2018	54	142	0	0	239	158	1,662	2,255			196		2,059	
3/7/2018	27	79	0	0	223	127	2,622	3,078			106		2,972	
3/8/2018	75	63	0	0	153	72	26	389			138		251	
3/9/2018	69	74	0	0	181	92	99	515	13,606	1,944	143	130	372	1,814
3/10/2018	79	90	0	0	211	133	2,017	2,530			169		2,361	
3/11/2018	79	90	0	0	211	133	2,017	2,530			169		2,361	
3/12/2018	57	66	0	0	139	68	2,654	2,984			123		2,861	
3/13/2018	74	79	0	0	167	80	3,491	3,891			153		3,738	
3/14/2018	80	33	0	0	176	87	3,738	4,114			113		4,001	
3/15/2018	79	0	0	0	161	67	2,978	3,285			79		3,206	
3/16/2018	78	0	0	0	168	91	3,567	3,904	23,238	3,320	78	126	3,826	3,193
3/17/2018	71	0	0	0	206	117	3,053	3,447			71		3,376	
3/18/2018	71	0	0	0	206	117	3,053	3,447			71		3,376	
3/19/2018	78	0	0	0	154	103	1,920	2,255			78		2,177	
3/20/2018	96	0	0	0	188	104	31	419			96		323	
3/21/2018	81	0	0	0	137	77	2,878	3,173			81		3,092	
3/22/2018	85	24	0	0	148	64	1,600	1,921			109		1,812	
3/23/2018	60	0	0	0	149	75	1,806	2,090	16,752	2,393	60	81	2,030	2,312
3/24/2018	40	0	0	0	165	92	0	297			40		257	
3/25/2018	40	0	0	0	165	92	0	297			40		257	
3/26/2018	96	358	0	0	166	89	342	1,051			454		597	
3/27/2018	76	258	0	0	160	74	0	568			334		234	
3/28/2018	104	0	0	0	159	99	837	1,199			104		1,095	
3/29/2018	17	0	0	0	18	13	0	48			17		31	
3/30/2018	48	0	0	0	145	59	284	536	3,996	571	48	148	488	423
3/31/2018	38	0	0	0	90	44	811	983			38		945	
4/1/2018	38	0	0	0	90	44	811	983			38		945	
4/2/2018	0	0	0	0	0	0	0	0			0		0	
4/3/2018	0	0	0	0	0	16	0	16			0		16	
4/4/2018	39	0	0	0	65	93	223	420			39		381	
4/5/2018	29	0	0	0	219	30	223	501			29		472	
4/6/2018	36	0	0	0	150	82	318	586	3,489	498	36	26	550	473
4/7/2018	15	0	0	0	85	31	302	433			15		418	
4/8/2018	15	0	0	0	85	31	302	433			15		418	
4/9/2018	52	0	0	0	164	57	0	273			52		221	
4/10/2018	52	0	0	0	144	47	0	243			52		191	
4/11/2018	66	0	0	0	114	44	3,465	3,689			66		3,623	
4/12/2018	36	0	0	0	119	25	0	180			36		144	
4/13/2018	52	0	0	0	196	63	265	576	5,827	832	52	41	524	791
4/14/2018	32	0	0	0	55	29	1,082	1,198			32		1,166	

Appendix A - Pumping Data
Extraction Wells and Condensate Traps
Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
4/15/2018	32	0	0	0	55	29	1,082	1,198			32		1,166	
4/16/2018	92	0	0	0	309	59	0	460			92		368	
4/17/2018	0	0	0	0	0	0	631	631			0		631	
4/18/2018	127	0	0	0	282	108	664	1,181			127		1,054	
4/19/2018	21	0	0	0	0	10	0	31			21		10	
4/20/2018	28	0	0	0	0	31	0	59	4,758	680	28	47	31	632
4/21/2018	30	0	0	0	0	45	1,887	1,962			30		1,932	
4/22/2018	30	0	0	0	0	45	1,887	1,962			30		1,932	
4/23/2018	23	0	0	0	0	30	613	666			23		643	
4/24/2018	75	0	0	0	0	83	647	805			75		730	
4/25/2018	45	0	0	0	0	47	2,000	2,092			45		2,047	
4/26/2018	7	820	0	0	0	11	233	1,071			827		244	
4/27/2018	19	162	0	0	0	26	622	829	9,387	1,341	181	173	648	1,168
4/28/2018	26	302	0	0	0	30	1,189	1,547			328		1,219	
4/29/2018	26	302	0	0	0	30	1,189	1,547			328		1,219	
4/30/2018	22	58	0	0	0	58	637	775			80		695	
5/1/2018	18	48	0	0	0	44	386	496			66		430	
5/2/2018	40	72	0	0	0	51	662	825			112		713	
5/3/2018	12	33	0	0	0	39	273	357			45		312	
5/4/2018	24	48	0	0	0	22	350	444	5,991	856	72	147	372	709
5/5/2018	0	0	0	0	0	0	0	0			0		0	
5/6/2018	0	0	0	0	0	0	0	0			0		0	
5/7/2018	0	0	0	0	0	0	0	0			0		0	
5/8/2018	57	77	0	0	0	114	203	451			134		317	
5/9/2018	20	70	0	0	0	50	323	463			90		373	
5/10/2018	34	96	0	0	0	59	0	189			130		59	
5/11/2018	86	163	0	0	0	62	0	311	1,414	202	249	86	62	116
5/12/2018	90	171	0	0	0	59	356	676			261		415	
5/13/2018	90	171	0	0	0	59	356	676			261		415	
5/14/2018	85	3,405	0	0	0	57	6	3,553			3,490		63	
5/15/2018	47	4,911	0	0	0	53	243	5,254			4,958		296	
5/16/2018	97	3,054	0	0	0	62	384	3,597			3,151		446	
5/17/2018	92	170	0	0	0	54	0	316			262		54	
5/18/2018	100	123	0	0	0	58	0	281	14,353	2,050	223	1,801	58	250
5/19/2018	874	2	0	0	0	43	391	1,310			876		434	
5/20/2018	874	2	0	0	0	43	391	1,310			876		434	
5/21/2018	86	1	0	0	0	56	1,051	1,194			87		1,107	
5/22/2018	107	0	0	0	0	79	2,144	2,330			107		2,223	
5/23/2018	93	1,766	0	0	0	49	1,445	3,353			1,859		1,494	
5/24/2018	68	31	0	0	0	1	0	100			99		1	
5/25/2018	94	341	0	0	0	0	0	435	10,032	1,433	435	620	0	813
5/26/2018	176	323	0	0	0	0	0	499			499		0	
5/27/2018	176	323	0	0	0	0	0	499			499		0	
5/28/2018	97	334	0	0	0	0	0	431			431		0	
5/29/2018	214	885	0	0	0	0	3,974	5,073			1,099		3,974	
5/30/2018	4,161	1,176	0	0	0	0	0	5,337			5,337		0	
5/31/2018	930	230	0	0	0	0	3,912	5,072			1,160		3,912	
6/1/2018	126	178	0	0	0	0	2,000	2,304	19,215	2,745	304	1,333	2,000	1,412
6/2/2018	95	200	0	0	0	0	1,662	1,957			295		1,662	
6/3/2018	95	200	0	0	0	0	1,662	1,957			295		1,662	
6/4/2018	108	179	0	0	0	0	0	287			287		0	
6/5/2018	95	186	0	0	0	0	453	734			281		453	
6/6/2018	103	210	0	0	0	0	1	314			313		1	
6/7/2018	80	158	0	0	0	0	1,253	1,491			238		1,253	
6/8/2018	89	180	0	0	0	0	3,235	3,504	10,244	1,463	269	283	3,235	1,181
6/9/2018	17	193	0	0	0	0	3,478	3,688			210		3,478	
6/10/2018	17	193	0	0	0	0	3,478	3,688			210		3,478	
6/11/2018	160	237	0	0	0	0	4,696	5,093			397		4,696	
6/12/2018	172	143	0	0	0	0	0	315			315		0	
6/13/2018	95	65	0	0	0	0	3,522	3,682			160		3,522	

Appendix A - Pumping Data
Extraction Wells and Condensate Traps
Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
6/14/2018	86	0	0	0	0	0	1	87			86		1	
6/15/2018	83	0	0	0	0	0	0	83	16,636	2,377	83	209	0	2,168
6/16/2018	90	0	0	0	0	0	1	91			90		1	
6/17/2018	90	0	0	0	0	0	1	91			90		1	
6/18/2018	85	0	0	0	0	0	1,117	1,202			85		1,117	
6/19/2018	85	0	0	0	0	0	1	86			85		1	
6/20/2018	0	0	0	0	0	0	0	0			0		0	
6/21/2018	192	0	0	0	0	0	2,107	2,299			192		2,107	
6/22/2018	75	0	0	0	0	0	3,457	3,532	7,301	1,043	75	88	3,457	955
6/23/2018	55	0	0	0	0	0	499	554			55		499	
6/24/2018	55	0	0	0	0	0	499	554			55		499	
6/25/2018	118	0	0	0	0	0	2,141	2,259			118		2,141	
6/26/2018	347	0	0	0	0	0	3,796	4,143			347		3,796	
6/27/2018	456	0	0	0	0	0	4,179	4,635			456		4,179	
6/28/2018	65	0	0	0	0	0	2,657	2,722			65		2,657	
6/29/2018	117	0	0	0	0	0	3,156	3,273	18,140	2,591	117	173	3,156	2,418
6/30/2018	464	0	0	0	0	0	3,647	4,111			464		3,647	
7/1/2018	464	0	0	0	0	0	3,646	4,110			464		3,646	
7/2/2018	931	0	0	0	0	0	2,559	3,490			931		2,559	
7/3/2018	402	0	0	0	0	0	0	402			402		0	
7/4/2018	402	0	0	0	0	0	0	402			402		0	
7/5/2018	85	0	0	0	0	0	0	85			85		0	
7/6/2018	119	4,863	0	0	0	0	0	4,982	17,582	2,512	4,982	1,104	0	1,407
7/7/2018	75	150	0	0	500	0	0	725			225		500	
7/8/2018	75	150	0	0	500	0	0	725			225		500	
7/9/2018	125	225	0	0	750	0	0	1,100			350		750	
7/10/2018	150	250	0	0	412	0	0	812			400		412	
7/11/2018	134	130	0	0	250	0	0	514			264		250	
7/12/2018	66	131	0	0	0	0	0	197			197		0	
7/13/2018	73	158	0	0	589	0	0	820	4,893	699	231	270	589	429
7/14/2018	85	201	0	0	397	0	0	683			286		397	
7/15/2018	85	201	0	0	397	0	0	683			286		397	
7/16/2018	43	112	0	0	227	0	1,113	1,495			155		1,340	
7/17/2018	63	163	0	0	341	0	1,834	2,401			226		2,175	
7/18/2018	76	0	0	0	455	0	1	532			76		456	
7/19/2018	27	0	0	0	235	0	885	1,147			27		1,120	
7/20/2018	52	734	0	0	358	0	1,439	2,583	9,524	1,361	786	263	1,797	1,097
7/21/2018	599	660	0	0	424	0	1,144	2,827			1,259		1,568	
7/22/2018	599	660	0	0	424	0	1,144	2,827			1,259		1,568	
7/23/2018	764	279	0	0	215	0	2,533	3,791			1,043		2,748	
7/24/2018	300	285	0	0	315	0	1,237	2,137			585		1,552	
7/25/2018	244	393	0	0	352	0	1,000	1,989			637		1,352	
7/26/2018	1,103	409	0	0	340	0	1	1,853			1,512		341	
7/27/2018	457	195	0	0	343	0	0	995	16,419	2,346	652	992	343	1,353
7/28/2018	0	334	0	0	359	0	0	693			334		359	
7/29/2018	10	334	0	0	359	0	0	703			344		359	
7/30/2018	1,755	224	0	0	361	0	0	2,340			1,979		361	
7/31/2018	319	0	0	0	432	0	1,340	2,091			319		1,772	
8/1/2018	721	668	0	0	425	0	1,442	3,256			1,389		1,867	
8/2/2018	872	0	0	0	331	0	985	2,188			872		1,316	
8/3/2018	370	0	0	0	391	0	609	1,370	12,641	1,806	370	801	1,000	1,005
8/4/2018	221	334	0	0	537	0	1,337	2,429			555		1,874	
8/5/2018	221	334	0	0	537	0	1,337	2,429			555		1,874	
8/6/2018	142	334	0	0	422	0	0	898			476		422	
8/7/2018	125	0	0	0	424	0	1,657	2,206			125		2,081	
8/8/2018	194	0	0	0	692	0	1,510	2,396			194		2,202	
8/9/2018	100	391	0	0	374	0	0	865			491		374	
8/10/2018	140	13	0	0	564	0	0	717	11,940	1,706	153	364	564	1,342
8/11/2018	665	1	0	0	670	529	0	1,865			666		1,199	
8/12/2018	665	1	0	0	670	529	0	1,865			666		1,199	

Appendix A - Pumping Data
Extraction Wells and Condensate Traps
Liquid Assessment Monitoring
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
8/13/2018	141	2	0	0	444	488	1,021	2,096			143		1,953	
8/14/2018	128	0	0	0	554	432	0	1,114			128		986	
8/15/2018	129	1	0	0	610	485	0	1,225			130		1,095	
8/16/2018	127	3	0	0	627	480	0	1,237			130		1,107	
8/17/2018	124	4	0	0	1,876	476	0	2,480	11,882	1,697	128	284	2,352	1,413
8/18/2018	145	2	0	0	117	545	0	809			147		662	
8/19/2018	145	2	0	0	117	545	0	809			147		662	
8/20/2018	140	1	0	0	529	488	985	2,143			141		2,002	
8/21/2018	266	2	0	0	693	347	1,302	2,610			268		2,342	
8/22/2018	402	0	0	0	843	577	0	1,822			402		1,420	
8/23/2018	111	2	0	0	485	327	1,172	2,097			113		1,984	
8/24/2018	204	0	0	0	704	457	1,165	2,530	12,820	1,831	204	203	2,326	1,628
8/25/2018	372	1	0	0	601	427	641	2,042			373		1,669	
8/26/2018	372	0	0	0	601	427	641	2,041			372		1,669	
8/27/2018	1,040	0	0	0	0	434	0	1,474			1,040		434	
8/28/2018	393	0	0	0	0	371	682	1,446			393		1,053	
8/29/2018	1,529	0	0	0	0	422	1	1,952			1,529		423	
8/30/2018	1,448	0	0	0	0	379	541	2,368			1,448		920	
8/31/2018	365	0	0	0	0	417	383	1,165	12,488	1,784	365	789	800	995
9/1/2018	426	0	0	0	855	494	562	2,337			426		1,911	
9/2/2018	426	0	0	0	855	494	562	2,337			426		1,911	
9/3/2018	426	0	0	0	855	494	562	2,337			426		1,911	
9/4/2018	416	0	0	0	1,282	438	562	2,698			416		2,282	
9/5/2018	801	0	0	0	2,157	786	562	4,306			801		3,505	
9/6/2018	0	0	0	0	0	0	562	562			0		562	
9/7/2018	513	0	0	0	1,125	459	562	2,659	17,236	2,462	513	430	2,146	2,033
9/8/2018	385	0	0	0	1,014	456	562	2,417			385		2,032	
9/9/2018	385	0	0	0	1,014	456	562	2,417			385		2,032	
9/10/2018	297	1	0	0	972	425	562	2,257			298		1,959	
9/11/2018	119	0	0	0	1,317	572	562	2,570			119		2,451	
9/12/2018	398	0	0	0	782	315	562	2,057			398		1,659	
9/13/2018	1,737	0	0	0	738	355	562	3,392			1,737		1,655	
9/14/2018	463	0	0	0	852	460	562	2,337	17,447	2,492	463	541	1,874	1,952
9/15/2018	555	0	0	0	955	517	562	2,589			555		2,034	
9/16/2018	555	0	0	0	955	517	562	2,589			555		2,034	
9/17/2018	345	0	0	0	576	321	562	1,804			345		1,459	
9/18/2018	569	2,069	0	0	929	517	562	4,646			2,638		2,008	
9/19/2018	277	0	0	0	492	268	562	1,599			277		1,322	
9/20/2018	523	0	0	0	708	395	562	2,188			523		1,665	
9/21/2018	475	0	0	0	745	410	562	2,192	17,607	2,515	475	767	1,717	1,748
9/22/2018	610	0	0	0	872	485	562	2,529			610		1,919	
9/23/2018	610	0	0	0	872	485	562	2,529			610		1,919	
9/24/2018	305	0	0	0	468	251	562	1,586			305		1,281	
9/25/2018	307	1	0	0	814	315	562	1,999			308		1,691	
9/26/2018	771	0	0	0	830	520	562	2,683			771		1,912	
9/27/2018	347	0	0	0	525	255	562	1,689			347		1,342	
9/28/2018	477	0	0	0	674	349	562	2,062	15,077	2,154	477	490	1,585	1,664
9/29/2018	848	0	0	0	1,110	551	562	3,071			848		2,223	
9/30/2018	848	0	0	0	1,110	551	562	3,071			848		2,223	
10/1/2018	425	0	0	0	350	281	1	1,057			425		632	
10/2/2018	375	0	0	0	450	225	0	1,050			375		675	
10/3/2018	349	0	0	0	551	127	200	1,227			349		878	
10/4/2018	448	1	0	0	520	231	191	1,391			449		942	
10/5/2018	609	0	0	0	680	310	356	1,955	12,822	1,832	609	558	1,346	1,274
10/6/2018	693	0	0	0	727	358	206	1,984			693		1,291	
10/7/2018	693	0	0	0	727	358	206	1,984			693		1,291	
10/8/2018	3	0	0	0	788	273	0	1,064			3		1,061	
10/9/2018	406	0	0	0	729	334	166	1,635			406		1,229	
10/10/2018	388	0	0	0	571	307	336	1,602			388		1,214	
10/11/2018	79	0	0	0	412	176	0	667			79		588	

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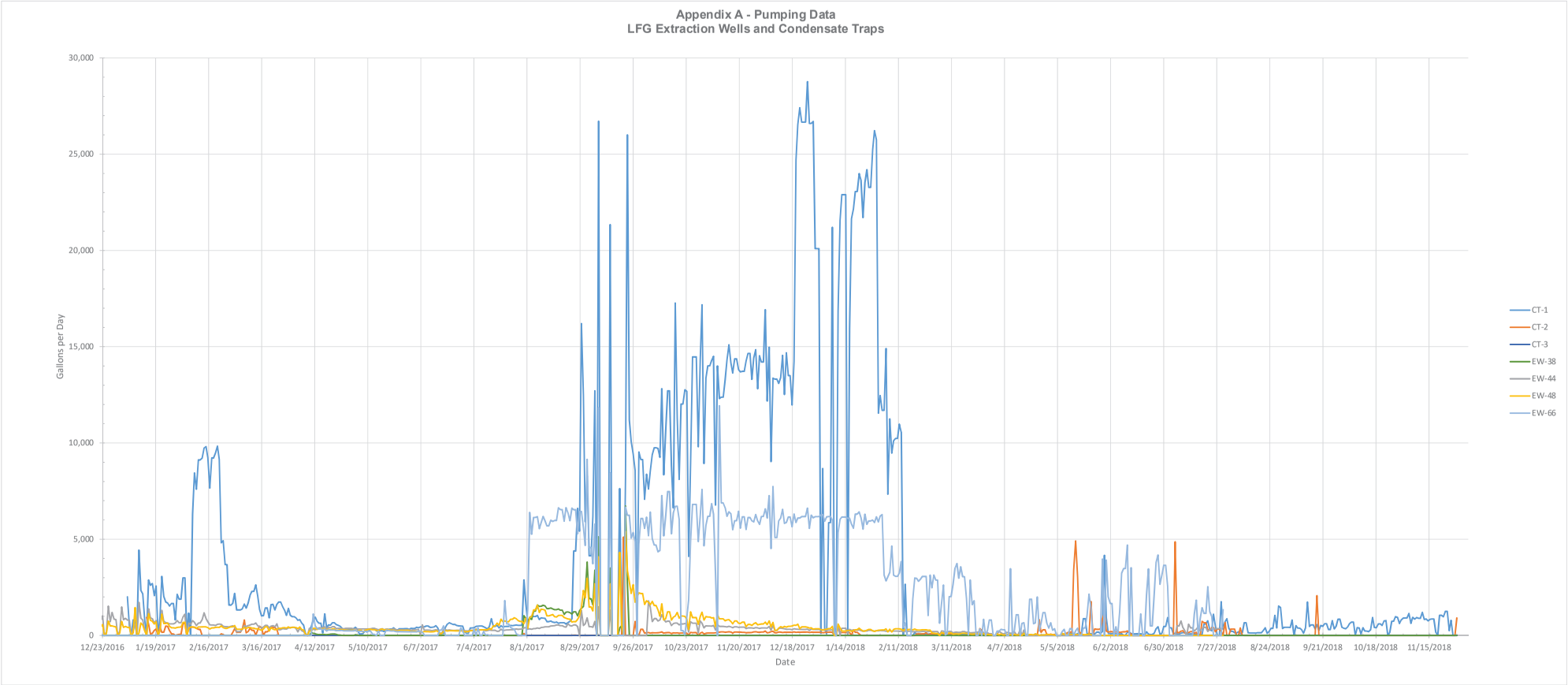
Southeast County Landfill

	Condensate Traps			LFG Extraction Wells					WEEKLY		CTs		EWs	
DATE	CT-1 (gal)	CT-2 (gal)	CT-3 (gal)	EW-38 (gal)	EW-44 (gal)	EW-48 (gal)	EW-66 (gal)	All (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
10/12/2018	400	0	0	0	634	250	0	1,284	10,220	1,460	400	380	884	1,080
10/13/2018	228	0	0	0	516	320	0	1,064			228		836	
10/14/2018	228	0	0	0	516	320	0	1,064			228		836	
10/15/2018	200	0	0	0	773	239	0	1,212			200		1,012	
10/16/2018	300	0	0	0	605	164	0	1,069			300		769	
10/17/2018	935	0	0	0	736	327	525	2,523			935		1,588	
10/18/2018	416	0	0	0	367	141	0	924			416		508	
10/19/2018	404	0	0	0	585	240	0	1,229	9,085	1,298	404	387	825	911
10/20/2018	603	0	0	0	491	200	0	1,294			603		691	
10/21/2018	603	0	0	0	491	200	0	1,294			603		691	
10/22/2018	524	0	0	0	771	270	0	1,565			524		1,041	
10/23/2018	760	0	0	0	654	229	415	2,058			760		1,298	
10/24/2018	775	0	0	0	638	225	288	1,926			775		1,151	
10/25/2018	0	2	0	0	578	205	0	785			2		783	
10/26/2018	161	0	0	0	593	201	0	955	9,877	1,411	161	490	794	921
10/27/2018	740	0	0	0	522	158	0	1,420			740		680	
10/28/2018	740	0	0	0	522	158	0	1,420			740		680	
10/29/2018	979	2	0	0	601	269	460	2,311			981		1,330	
10/30/2018	939	0	0	0	468	135	0	1,542			939		603	
10/31/2018	617	0	0	0	797	186	0	1,600			617		983	
11/1/2018	807	0	0	0	772	169	0	1,748			807		941	
11/2/2018	906	0	0	0	707	163	0	1,776	11,817	1,688	906	819	870	870
11/3/2018	910	0	0	0	546	209	0	1,665			910		755	
11/4/2018	910	1	0	0	546	209	0	1,666			911		755	
11/5/2018	1,146	0	0	0	606	326	511	2,589			1,146		1,443	
11/6/2018	629	0	0	0	458	163	0	1,250			629		621	
11/7/2018	941	0	0	0	149	230	4	1,324			941		383	
11/8/2018	855	0	0	0	628	235	0	1,718			855		863	
11/9/2018	932	0	0	0	465	161	0	1,558	11,770	1,681	932	903	626	778
11/10/2018	890	0	0	0	442	200	0	1,532			890		642	
11/11/2018	890	0	0	0	442	200	0	1,532			890		642	
11/12/2018	1,204	0	0	0	552	256	0	2,012			1,204		808	
11/13/2018	835	0	0	0	443	176	0	1,454			835		619	
11/14/2018	860	0	0	0	419	178	551	2,008			860		1,148	
11/15/2018	758	0	0	0	362	126	0	1,246			758		488	
11/16/2018	841	2	0	0	423	152	0	1,418	11,202	1,600	843	897	575	703
11/17/2018	861	0	0	0	406	166	0	1,433			861		572	
11/18/2018	861	0	0	0	406	166	0	1,433			861		572	
11/19/2018	177	0	0	0	86	36	633	932			177		755	
11/20/2018	1	0	0	0	2	0	1	4			1		3	
11/21/2018	1,052	0	0	0	544	221	560	2,377			1,052		1,325	
11/22/2018	1,052	0	0	0	544	221	560	2,377			1,052		1,325	
11/23/2018	972	0	0	0	395	164	331	1,862	10,418	1,488	972	711	890	777
11/24/2018	1,250	2	0	0	480	197	507	2,436			1,252		1,184	
11/25/2018	1,250	2	0	0	480	197	507	2,436			1,252		1,184	
11/26/2018	248	0	0	0	93	7	0	348			248		100	
11/27/2018	789	0	0	0	490	149	0	1,428			789		639	
11/28/2018	1	0	0	0	411	175	182	769			1		768	
11/29/2018	0	1	0	0	273	102	0	376			1		375	
11/30/2018	1	910	0	0	371	152	2	1,436	9,229	1,318	911	636	525	682


Appendix A - Pumping Data
LFG Extraction Wells and Condensate Traps
Gallons per Day
30,000
25,000
20,000
15,000
10,000
5,000
0
12/23/2016
1/19/2017
2/16/2017
3/16/2017
4/12/2017
5/10/2017
6/7/2017
7/4/2017
8/1/2017
8/29/2017
9/26/2017
10/23/2017
11/20/2017
12/18/2017
1/14/2018
2/11/2018
3/11/2018
4/7/2018
5/5/2018
6/2/2018
6/30/2018
7/27/2018
8/24/2018
9/21/2018
10/18/2018
11/15/2018
Date
CT-1
CT-2
CT-3
EW-38
EW-44
EW-48
EW-66

Appendix A - Pumping Data
Dewatering Wells and Pump Stations
Liquid Assessment Monitoring
Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
2/17/2017	-	-	-	-	2,000	-	-	-	-	2,000	2,000	2,000	0		2,000	
2/18/2017	-	-	-	-	2,000	-	-	-	-	2,000			0		2,000	
2/19/2017	-	-	-	-	2,000	-	-	-	-	2,000			0		2,000	
2/20/2017	-	-	-	-	2,000	-	-	-	-	2,000			0		2,000	
2/21/2017	-	-	-	-	2,000	-	-	-	-	2,000			0		2,000	
2/22/2017	-	-	-	-	2,000	-	-	-	-	2,000			0		2,000	
2/23/2017	-	-	-	-	2,000	-	-	-	-	2,000			0		2,000	
2/24/2017	-	-	-	-	1,600	-	-	-	-	1,600	13,600	1,943	0		1,600	
2/25/2017	-	-	-	-	1,600	-	-	-	-	1,600			0		1,600	
2/26/2017	-	-	-	-	1,600	-	-	-	-	1,600			0		1,600	
2/27/2017	-	-	-	-	1,600	-	-	-	-	1,600			0		1,600	
2/28/2017	-	-	-	-	1,600	-	-	-	-	1,600			0		1,600	
3/1/2017	-	-		-	1,600	-	-	-	-	1,600			0		1,600	
3/2/2017	-	-		-	1,600	-	-	-	-	1,600			0		1,600	
3/3/2017	-	-		-	5,000	-	-	-	-	5,000	14,600	2,086	0		5,000	
3/4/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
3/5/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
3/6/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
3/7/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
3/8/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
3/9/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
3/10/2017	-	-		-	12,000	-	-	-	-	12,000	42,000	6,000	0		12,000	
3/11/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/12/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/13/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/14/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/15/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/16/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/17/2017	-	-		-	12,000	-	-	-	-	12,000	84,000	12,000	0		12,000	
3/18/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/19/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/20/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/21/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/22/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/23/2017	-	-		-	12,000	-	-	-	-	12,000			0		12,000	
3/24/2017	-	-		-	9,000	-	-	-	-	9,000	81,000	11,571	0		9,000	
3/25/2017	-	-		-	9,000	-	-	-	-	9,000			0		9,000	
3/26/2017	-	-		-	9,000	-	-	-	-	9,000			0		9,000	
3/27/2017	-	-		-	9,000	-	-	-	-	9,000			0		9,000	
3/28/2017	-	-		-	9,000	-	-	-	-	9,000			0		9,000	
3/29/2017	-	-		-	9,000	-	-	-	-	9,000			0		9,000	
3/30/2017	-	-		-	9,000	-	-	-	-	9,000			0		9,000	
3/31/2017	-	-		-	9,000	-	-	-	-	9,000	63,000	9,000	0		9,000	
4/1/2017	-	-		-	7,000	-	-	-	-	7,000			0		7,000	
4/2/2017	-	-		-	7,000	-	-	-	-	7,000			0		7,000	
4/3/2017	-	-		-	7,000	-	-	-	-	7,000			0		7,000	
4/4/2017	-	-		-	7,000	-	-	-	-	7,000			0		7,000	
4/5/2017	-	-		-	7,000	-	-	-	-	7,000			0		7,000	
4/6/2017	-	-		-	7,000	-	-	-	-	7,000			0		7,000	
4/7/2017	-	-		-	7,000	-	-	-	-	7,000	49,000	7,000	0		7,000	
4/8/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/9/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/10/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/11/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/12/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/13/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/14/2017	-	-		-	6,000	-	-	-	-	6,000	42,000	6,000	0		6,000	
4/15/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/16/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/17/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/18/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/19/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	

Appendix A - Pumping Data
Dewatering Wells and Pump Stations
Liquid Assessment Monitoring
Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
4/20/2017	-	-		-	6,000	-	-	-	-	6,000			0		6,000	
4/21/2017	-	-		-	5,000	-	-	-	-	5,000	41,000	5,857	0		5,000	
4/22/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
4/23/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
4/24/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
4/25/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
4/26/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
4/27/2017	-	-		-	5,000	-	-	-	-	5,000			0		5,000	
4/28/2017	-	-		-	4,600	-	-	-	-	4,600	34,600	4,943	0		4,600	
4/29/2017	-	-		-	4,600	-	-	-	-	4,600			0		4,600	
4/30/2017	-	-		-	4,600	-	-	-	-	4,600			0		4,600	
5/1/2017	-	-		-	4,600	-	-	-	-	4,600			0		4,600	
5/2/2017	-	-		-	4,600	-	-	-	-	4,600			0		4,600	
5/3/2017	-	-		-	4,600	-	-	-	-	4,600			0		4,600	
5/4/2017	-	-		-	4,600	-	-	-	-	4,600			0		4,600	
5/5/2017	-	-		-	4,000	-	-	-	-	4,000	31,600	4,514	0		4,000	
5/6/2017	-	-		-	4,000	-	-	-	-	4,000			0		4,000	
5/7/2017	-	-		-	4,000	-	-	-	-	4,000			0		4,000	
5/8/2017	-	-		-	4,000	-	-	-	-	4,000			0		4,000	
5/9/2017	-	-		-	4,000	-	-	-	-	4,000			0		4,000	
5/10/2017	-	-		-	4,000	-	-	-	-	4,000			0		4,000	
5/11/2017	-	-		-	4,000	-	-	-	-	4,000			0		4,000	
5/12/2017	-	-		-	3,000	-	-	-	-	3,000	27,000	3,857	0		3,000	
5/13/2017	-	-		-	3,000	-	-	-	-	3,000			0		3,000	
5/14/2017	-	-		-	3,000	-	-	-	-	3,000			0		3,000	
5/15/2017	-	-		-	3,000	-	-	-	-	3,000			0		3,000	
5/16/2017	-	-		-	3,000	-	-	-	-	3,000			0		3,000	
5/17/2017	-	-		-	3,000	-	-	-	-	3,000			0		3,000	
5/18/2017	-	-		-	3,000	-	-	-	-	3,000			0		3,000	
5/19/2017	578	252	317	22	6,100	-	-	-	-	7,269	25,269	12,635	1,169		6,100	
5/20/2017	578	252	317	22	6,045	-	-	-	-	7,214			1,169		6,045	
5/21/2017	579	252	317	22	4,835	-	-	-	-	6,005			1,170		4,835	
5/22/2017	443	15	278	0	5,269	-	-	-	-	6,005			736		5,269	
5/23/2017	431	6	277	0	5,037	-	-	-	-	5,751			714		5,037	
5/24/2017	520	421	292	0	4,566	-	-	-	-	5,799			1,233		4,566	
5/25/2017	575	418	252	0	4,404	-	-	-	-	5,649			1,245		4,404	
5/26/2017	429	448	228	2	3,984	-	-	-	-	5,091	41,514	5,931	1,107		3,984	
5/27/2017	436	464	239	2	3,468	-	-	-	-	4,609			1,141	1,049	3,468	4,509
5/28/2017	436	464	239	0	3,459	-	-	-	-	4,598			1,139		3,459	
5/29/2017	436	464	239	0	1,926	-	-	-	-	3,065			1,139		1,926	
5/30/2017	399	677	225	0	4,831	-	-	-	-	6,132			1,301		4,831	
5/31/2017	415	167	236	0	3,552	-	-	-	-	4,370			818		3,552	
6/1/2017	406	422	239	0	3,295	-	-	-	-	4,362			1,067		3,295	
6/2/2017	354	419	219	0	3,406	-	-	-	-	4,398	31,534	4,505	992	1,085	3,406	3,420
6/3/2017	393	442	242	0	3,325	-	-	-	-	4,402			1,077		3,325	
6/4/2017	393	442	242	0	3,320	-	-	-	-	4,397			1,077		3,320	
6/5/2017	425	414	240	0	3,317	-	-	-	-	4,396			1,079		3,317	
6/6/2017	387	443	268	0	3,455	-	-	-	-	4,553			1,098		3,455	
6/7/2017	435	442	264	0	3,554	-	-	-	-	4,695			1,141		3,554	
6/8/2017	450	374	241	0	3,786	-	-	-	-	4,851			1,065		3,786	
6/9/2017	417	383	214	0	3,276	-	-	-	-	4,290	31,584	4,489	1,014	1,079	3,276	3,433
6/10/2017	447	387	210	0	3,005	-	-	-	-	4,049			1,044		3,005	
6/11/2017	447	387	210	0	2,750	-	-	-	-	3,794			1,044		2,750	
6/12/2017	386	356	197	6	2,850	-	-	-	-	3,795			945		2,850	
6/13/2017	595	581	0	205	2,679	-	-	-	-	4,060			1,381		2,679	
6/14/2017	653	730	0	239	2,283	-	-	-	-	3,905			1,622		2,283	
6/15/2017	527	853	0	282	2,305	-	-	-	-	3,967			1,662		2,305	
6/16/2017	412	743	0	267	2,764	-	-	-	-	4,186	27,756	3,965	1,422	1,303	2,764	2,662
6/17/2017	103	166	1	52	4,013	-	-	-	-	4,335			322		4,013	
6/18/2017	103	166	1	52	3,082	-	-	-	-	3,404			322		3,082	
6/19/2017	0	0	7	234	3,162	-	-	-	-	3,403			241		3,162	
6/20/2017	0	0	0	331	3,207	-	-	-	-	3,538			331		3,207	

Appendix A - Pumping Data
Dewatering Wells and Pump Stations
Liquid Assessment Monitoring
Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
6/21/2017	0	0	0	362	3,072	-	-	-	-	3,434			362		3,072	
6/22/2017	0	0	0	296	3,038	-	-	-	-	3,334			296		3,038	
6/23/2017	0	0	0	189	3,161	-	-	-	-	3,350	24,798	3,543	189	295	3,161	3,248
6/24/2017	0	0	0	0	3,331	-	-	-	-	3,331			0		3,331	
6/25/2017	0	0	0	0	3,162	-	-	-	-	3,162			0		3,162	
6/26/2017	1,876	1	73	1	1,212	-	-	-	-	3,163			1,951		1,212	
6/27/2017	1,356	1	5	0	3,825	-	-	-	-	5,187			1,362		3,825	
6/28/2017	1,143	1	0	0	3,699	-	-	-	-	4,843			1,144		3,699	
6/29/2017	1,130	0	0	0	3,174	-	-	-	-	4,304			1,130		3,174	
6/30/2017	1,007	0	1	0	3,009	-	-	-	-	4,017	28,007	4,001	1,008	942	3,009	3,059
7/1/2017	933	0	0	0	2,943	-	-	-	-	3,876			933		2,943	
7/2/2017	933	0	0	0	3,253	-	-	-	-	4,186			933		3,253	
7/3/2017	770	183	0	0	3,234	-	-	-	-	4,187			953		3,234	
7/4/2017	770	183	0	0	8,575	-	-	-	-	9,528			953		8,575	
7/5/2017	530	519	0	4	8,476	-	-	-	-	9,529			1,053		8,476	
7/6/2017	864	59	1	285	5,905	-	-	-	-	7,114			1,209		5,905	
7/7/2017	793	31	251	47	3,325	-	-	-	-	4,447	42,867	6,124	1,122	1,022	3,325	5,102
7/8/2017	597	401	248	2	3,999	-	-	-	-	5,247			1,248		3,999	
7/9/2017	597	401	248	2	5,302	-	-	-	-	6,550			1,248		5,302	
7/10/2017	514	498	306	2	5,231	-	-	-	-	6,551			1,320		5,231	
7/11/2017	408	454	200	3	6,111	-	-	-	-	7,176			1,065		6,111	
7/12/2017	464	486	195	0	5,409	-	-	-	-	6,554			1,145		5,409	
7/13/2017	49	916	214	20	5,436	-	-	-	-	6,635			1,199		5,436	
7/14/2017	0	1,048	296	0	5,537	-	-	-	-	6,881	45,594	6,513	1,344	1,224	5,537	5,289
7/15/2017	0	1,450	287	0	9,639	-	-	-	-	11,376			1,737		9,639	
7/16/2017	0	1,450	287	0	8,925	-	-	-	-	10,662			1,737		8,925	
7/17/2017	0	333	46	0	10,283	-	-	-	-	10,662			379		10,283	
7/18/2017	1	1,159	177	10	4,666	-	-	-	-	6,013			1,347		4,666	
7/19/2017	0	266	146	13	8,470	-	-	-	-	8,895			425		8,470	
7/20/2017	3	1,092	127	3	8,208	-	-	-	-	9,433			1,225		8,208	
7/21/2017	888	165	155	1	940	-	-	-	-	2,149	59,190	8,456	1,209	1,151	940	7,304
7/22/2017	1,191	0	135	0	0	-	-	-	-	1,326			1,326		0	
7/23/2017	1,191	0	135	0	0	-	-	-	-	1,326			1,326		0	
7/24/2017	1,194	0	128	0	0	-	-	-	-	1,322			1,322		0	
7/25/2017	399	544	89	4	21,828	-	-	-	-	22,864			1,036		21,828	
7/26/2017	0	825	75	0	10,750	-	-	-	-	11,650			900		10,750	
7/27/2017	872	108	205	3	3,065	-	-	-	-	4,253			1,188		3,065	
7/28/2017	684	110	168	15	10,683	-	-	-	-	11,660	54,401	7,772	977	1,154	10,683	6,618
7/29/2017	1,824	0	448	0	19,027	-	-	-	-	21,299			2,272		19,027	
7/30/2017	912	0	224	0	9,513	-	-	-	-	10,649			1,136		9,513	
7/31/2017	878	0	254	0	8,065	-	-	-	-	9,197			1,132		8,065	
8/1/2017	886	0	247	0	8,084	-	-	-	-	9,217			1,133		8,084	
8/2/2017	536	138	188	5	-	19,748	-	-	-	20,615			867		19,748	
8/3/2017	726	260	242	0	-	17,426	-	-	-	18,654			1,228		17,426	
8/4/2017	622	297	193	0	-	16,767	-	-	-	17,879	107,510	15,359	1,112	1,269	16,767	14,090
8/5/2017	714	284	205	0	-	16,491	-	-	-	17,694			1,203		16,491	
8/6/2017	714	284	205	0	-	16,491	-	-	-	17,694			1,203		16,491	
8/7/2017	768	273	214	0	0	18,036	-	-	-	19,291			1,255		18,036	
8/8/2017	742	241	196	0	0	18,861	-	-	-	20,040			1,179		18,861	
8/9/2017	757	277	211	0	0	22,684	-	-	-	23,929			1,245		22,684	
8/10/2017	235	84	71	0	5	23,493	-	-	-	23,888			390		23,498	
8/11/2017	629	389	208	0	0	21,995	-	-	32,268	55,489	178,025	25,432	1,226	1,100	54,263	24,332
8/12/2017	753	300	241	2	0	10,060	-	-	11,356	22,712			1,296		21,416	
8/13/2017	753	300	241	0	0	21,416	-	-	0	22,710			1,294		21,416	
8/14/2017	650	349	241	0	0	10,005	-	-	12,244	23,489			1,240		22,249	
8/15/2017	657	300	243	0	0	261	-	-	15,433	16,894			1,200		15,694	
8/16/2017	718	261	236	0	0	0	-	-	7,980	9,195			1,215		7,980	
8/17/2017	796	275	259	0	0	26,657	-	-	14,179	42,166			1,330		40,836	
8/18/2017	858	257	261	0	-	5,270	-	-	13,046	19,692	156,858	22,408	1,376	1,279	18,316	21,130
8/19/2017	799	231	248	0	-	0	-	-	4,948	6,226			1,278		4,948	
8/20/2017	799	231	248	0	-	0	-	-	4,648	5,926			1,278		4,648	
8/21/2017	742	267	252	0	-	23,431	-	-	16,855	41,547			1,261		40,286	

Appendix A - Pumping Data
Dewatering Wells and Pump Stations
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Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
8/22/2017	761	333	269	0	-	7,787	-	-	12,595	21,745			1,363		20,382	
8/23/2017	741	382	280	0	-	1,197	-	-	11,900	14,500			1,403		13,097	
8/24/2017	780	380	291	0	-	16,447	-	-	11,438	29,336			1,451		27,885	
8/25/2017	735	361	267	0	-	16,921	-	-	11,209	29,493	148,773	21,253	1,363	1,342	28,130	19,911
8/26/2017	763	345	289	0	-	18,515	-	-	2,269	22,181			1,397		20,784	
8/27/2017	763	345	289	0	-	20,784	-	-	0	22,181			1,397		20,784	
8/28/2017	909	389	379	0	-	15,222	-	-	18,861	35,760			1,677		34,083	
8/29/2017	997	5	315	0	-	18,113	-	-	14,360	33,790			1,317		32,473	
8/30/2017	983	0	323	0	-	17,940	-	-	15,094	34,340			1,306		33,034	
8/31/2017	1,002	1	273	0	-	17,466	-	-	17,586	36,328			1,276		35,052	
9/1/2017	1,084	134	288	0	-	0	-	-	21,149	22,655	207,235	34,539	1,506	1,411	21,149	28,194
9/2/2017	1,509	0	502	0	-	1,774	-	-	6,036	9,821			2,011		7,810	
9/3/2017	755	0	251	0	-	887	-	-	3,018	4,911			1,006		3,905	
9/4/2017	755	0	251	0	-	887	-	-	3,018	4,911			1,006		3,905	
9/5/2017	676	1	230	0	-	117	-	-	9,442	10,466			907		9,559	
9/6/2017	1,133	566	442	0	-	33,613	-	-	23,292	59,046			2,141		56,905	
9/7/2017	1,121	0	381	0	-	24,017	-	-	24,785	50,304			1,502		48,802	
9/8/2017	953	0	386	0	-	1,992	-	-	0	3,331	142,790	23,798	1,339	1,416	1,992	18,983
9/9/2017	1,522	1	643	0	-	0	-	-	0	2,166			2,166		0	
9/10/2017	0	0	0	0	-	0	-	-	0	0			0		0	
9/11/2017	0	0	0	0	-	0	-	-	0	0			0		0	
9/12/2017	0	0	0	0	-	13,816	-	-	595	14,411			0		14,411	
9/13/2017	0	0	0	0	-	41,478	-	-	35,164	76,642			0		76,642	
9/14/2017	136	1	167	0	-	27,893	-	-	24,925	53,122			304		52,818	
9/15/2017	0	0	15	0	-	326	-	-	27,079	27,420	173,761	24,823	15	355	27,405	27,405
9/16/2017	0	0	0	0	-	0	-	-	23,113	23,113			0		23,113	
9/17/2017	0	0	0	0	-	24,524	-	-	0	24,524			0		24,524	
9/18/2017	0	0	0	0	-	23,611	-	-	12,159	35,770			0		35,770	
9/19/2017	0	0	728	0	-	0	-	-	0	728			728		0	
9/20/2017	1	987	213	1	-	0	-	-	1,550	2,752			1,202		1,550	
9/21/2017	0	1,904	659	0	-	21,442	-	-	14,527	38,532			2,563		35,969	
9/22/2017	0	1,824	771	0	-	18,799	-	-	12,365	33,759	159,178	22,740	2,595	1,013	31,164	21,727
9/23/2017	0	1,622	703	0	-	13,958	-	-	24,934	41,217			2,325		38,892	
9/24/2017	0	1,562	765	0	-	23,817	-	-	0	26,144			2,327		23,817	
9/25/2017	0	1,244	644	0	-	11,059	-	-	22,574	35,521			1,888		33,633	
9/26/2017	0	1,534	758	0	-	13,528	-	-	27,890	43,710			2,292		41,418	
9/27/2017	0	1,092	643	0	-	4,633	-	-	0	6,368			1,735		4,633	
9/28/2017	0	1,079	630	27	-	15,018	-	-	0	16,754			1,736		15,018	
9/29/2017	0	1,264	804	0	-	7,818	-	-	36,447	46,333	216,047	30,864	2,068	2,053	44,265	28,811
9/30/2017	0	1,124	762	0	-	1,053	-	-	12,721	15,660			1,886		13,774	
10/1/2017	0	1,124	762	0	-	30,267	-	-	12,721	44,874			1,886		42,988	
10/2/2017	0	1,118	781	0	-	37,705	-	-	30,377	69,981			1,899		68,082	
10/3/2017	0	1,003	702	0	-	9,687	-	-	20,029	31,421			1,705		29,716	
10/4/2017	0	1,024	710	27	-	299	-	-	23,119	25,179			1,761		23,418	
10/5/2017	0	559	848	0	-	34,708	-	-	24,613	60,728			1,407		59,321	
10/6/2017	0	646	847	0	-	26,894	-	-	21,754	50,141	297,984	42,569	1,493	1,720	48,648	40,850
10/7/2017	0	1,029	797	0	-	2,077	-	-	6,381	10,284			1,826		8,458	
10/8/2017	0	1,029	797	0	-	2,077	-	-	6,381	10,284			1,826		8,458	
10/9/2017	0	1,048	571	49	-	0	-	-	0	1,668			1,668		0	
10/10/2017	1	0	164	3,519	-	36,733	-	-	0	40,417			3,684		36,733	
10/11/2017	0	0	0	0	-	26,442	-	-	28,217	54,659			0		54,659	
10/12/2017	0	0	5	0	-	741	-	-	20,369	21,115			5		21,110	
10/13/2017	0	0	0	0	-	474	-	-	21,723	22,197	160,624	22,946	0	1,287	22,197	21,659
10/14/2017	0	0	0	0	-	586	-	-	21,068	21,654			0		21,654	
10/15/2017	0	0	0	0	-	2,356	-	-	1,010	3,366			0		3,366	
10/16/2017	0	0	0	0	-	0	-	-	29,881	29,881			0		29,881	
10/17/2017	0	0	0	0	-	659	-	-	20,122	20,781			0		20,781	
10/18/2017	0	0	1	0	-	21,773	-	-	16,262	38,036			1		38,035	
10/19/2017	0	0	0	0	-	0	-	-	35,665	35,665			0		35,665	
10/20/2017	0	0	0	0	-	0	-	-	5,506	5,506	154,889	22,127	0	0	5,506	22,127
10/21/2017	0	0	0	0	-	43,501	-	-	16,424	59,925			0		59,925	
10/22/2017	0	0	0	0	-	18,294	-	-	14,582	32,876			0		32,876	

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	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
10/23/2017	0	0	0	0	-	36,759	-	-	17,024	53,783			0		53,783	
10/24/2017	0	0	0	0	-	35,472	-	-	17,011	52,483			0		52,483	
10/25/2017	0	0	1	0	-	42,371	-	-	15,386	57,758			1		57,757	
10/26/2017	0	0	1,791	0	-	40,120	-	-	17,948	59,859			1,791		58,068	
10/27/2017	0	0	1,290	0	-	17,197	-	-	12,450	30,937	347,621	49,660	1,290	440	29,647	49,220
10/28/2017	0	0	1,286	0	-	34,129	-	-	13,510	48,925			1,286		47,639	
10/29/2017	0	0	1,193	0	-	35,409	-	-	1,879	38,481			1,193		37,288	
10/30/2017	0	0	1,104	0	-	38,355	-	-	17,192	56,651			1,104		55,547	
10/31/2017	2,821	0	1,062	0	-	16,445	-	-	15,185	35,513			3,883		31,630	
11/1/2017	1,858	0	1,041	0	-	36,937	-	-	10,956	50,792			2,899		47,893	
11/2/2017	1,568	0	1,057	0	-	33,057	-	-	15,019	50,701			2,625		48,076	
11/3/2017	1,589	0	1,164	0	-	14,920	-	-	12,226	29,899	310,962	44,423	2,753	2,249	27,146	42,174
11/4/2017	1,424	0	1,041	0	-	32,528	-	-	9,053	44,046			2,465		41,581	
11/5/2017	1,484	0	1,090	0	-	3,103	-	-	0	5,677			2,574		3,103	
11/6/2017	1,426	0	1,047	0	-	2,152	-	-	1,069	5,694			2,473		3,221	
11/7/2017	1,297	0	1,018	0	-	20,425	-	-	20,740	43,480			2,315		41,165	
11/8/2017	711	0	618	0	-	20,143	-	-	14,220	35,692			1,329		34,363	
11/9/2017	1,545	0	1,329	0	-	17,977	-	-	12,650	33,501			2,874		30,627	
11/10/2017	1,120	0	996	0	-	26,372	-	-	0	28,488	196,578	28,083	2,116	2,307	26,372	25,776
11/11/2017	1,060	0	961	0	-	19,113	-	-	9,738	30,872			2,021		28,851	
11/12/2017	1,074	0	1,000	0	-	16,512	-	-	10,802	29,388			2,074		27,314	
11/13/2017	1,101	0	1,016	0	-	9,132	-	-	8,201	19,450			2,117		17,333	
11/14/2017	1,123	0	1,059	0	-	13,277	-	-	10,726	26,185			2,182		24,003	
11/15/2017	1,123	0	1,064	0	-	18,256	-	-	11,303	31,746			2,187		29,559	
11/16/2017	1,055	0	998	0	-	0	-	-	8,508	10,561			2,053		8,508	
11/17/2017	1,101	0	1,021	0	-	34,175	-	-	7,328	43,625	191,827	27,404	2,122	2,108	41,503	25,296
11/18/2017	1,085	0	1,005	0	-	34,240	-	-	7,777	44,107			2,090		42,017	
11/19/2017	1,017	0	1,001	0	-	32,236	-	-	9,604	43,858			2,018		41,840	
11/20/2017	953	0	964	0	-	10,862	-	-	9,583	22,362			1,917		20,445	
11/21/2017	1,198	0	1,065	0	-	38,238	-	-	7,959	48,460			2,263		46,197	
11/22/2017	1,147	0	977	0	-	32,043	-	-	3,039	37,206			2,124		35,082	
11/23/2017	1,147	0	977	0	-	20,541	-	-	3,039	25,704			2,124		23,580	
11/24/2017	1,132	0	952	0	-	23,275	-	-	13,576	38,935	260,632	37,233	2,084	2,089	36,851	35,145
11/25/2017	1,091	0	913	0	-	23,275	-	-	470	25,749			2,004		23,745	
11/26/2017	1,091	0	913	0	-	0	-	-	470	2,474			2,004		470	
11/27/2017	1,076	0	891	0	-	0	-	-	0	1,967			1,967		0	
11/28/2017	1,100	0	912	0	-	0	-	-	18,108	20,120			2,012		18,108	
11/29/2017	1,082	0	885	0	-	0	-	-	11,527	13,494			1,967		11,527	
11/30/2017	1,178	0	948	0	-	464	-	-	11,725	14,315			2,126		12,189	
12/1/2017	1,030	0	903	0	-	0	-	-	9,693	11,626	89,745	12,821	1,933	2,002	9,693	10,819
12/2/2017	1,098	0	932	0	-	0	-	-	9,201	11,231			2,030		9,201	
12/3/2017	1,112	0	940	0	-	0	-	-	9,117	11,169			2,052		9,117	
12/4/2017	1,055	0	910	0	-	0	-	-	8,567	10,532			1,965		8,567	
12/5/2017	1,192	0	953	0	-	0	-	-	8,903	11,048			2,145		8,903	
12/6/2017	1,168	0	924	0	-	0	-	-	8,647	10,739			2,092		8,647	
12/7/2017	1,307	0	1,052	0	-	0	-	-	0	2,359			2,359		0	
12/8/2017	1,217	0	975	0	-	0	-	-	0	2,192	59,270	8,467	2,192	2,119	0	6,348
12/9/2017	1,064	0	853	0	-	0	-	-	0	1,917			1,917		0	
12/10/2017	1,129	0	829	0	-	0	-	-	0	1,958			1,958		0	
12/11/2017	1,158	0	939	0	-	0	-	-	0	2,097			2,097		0	
12/12/2017	1,238	0	1,027	0	-	0	-	-	7,755	10,020			2,265		7,755	
12/13/2017	1,204	0	971	0	-	0	-	-	11,415	13,590			2,175		11,415	
12/14/2017	1,291	0	1,012	0	-	0	-	-	10,031	12,334			2,303		10,031	
12/15/2017	1,112	0	931	0	-	0	-	-	8,513	10,556	52,472	7,496	2,043	2,108	8,513	5,388
12/16/2017	1,129	0	813	0	-	0	-	-	6,083	8,025			1,942		6,083	
12/17/2017	1,189	0	893	0	-	0	-	-	3,838	5,920			2,082		3,838	
12/18/2017	1,197	0	890	0	-	0	-	-	0	2,087			2,087		0	
12/19/2017	1,269	0	947	0	-	0	-	-	7,810	10,026			2,216		7,810	
12/20/2017	1,280	0	924	0	-	0	-	-	658	2,862			2,204		658	
12/21/2017	1,268	0	894	0	-	0	-	-	14,271	16,433			2,162		14,271	
12/22/2017	1,255	0	869	0	-	0	-	-	3,042	5,166	50,519	7,217	2,124	2,117	3,042	5,100
12/23/2017	1,272	0	842	0	-	0	-	-	5,191	7,305			2,114		5,191	

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Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
12/24/2017	1,272	0	842	0	-	0	-	-	5,191	7,305			2,114		5,191	
12/25/2017	1,272	0	842	0	-	0	-	-	5,191	7,305			2,114		5,191	
12/26/2017	1,234	0	800	0	-	0	-	-	11,034	13,068			2,034		11,034	
12/27/2017	1,354	0	730	0	-	0	-	-	7,832	9,916			2,084		7,832	
12/28/2017	1,297	0	852	0	-	0	-	-	0	2,149			2,149		0	
12/29/2017	1,217	0	820	0	-	21,115	-	-	0	23,152	70,200	10,029	2,037	2,092	21,115	7,936
12/30/2017	1,248	0	805	0	-	29,240	-	-	0	31,293			2,053		29,240	
12/31/2017	1,248	0	805	0	-	29,240	-	-	0	31,293			2,053		29,240	
1/1/2018	1,248	0	805	0	-	29,240	-	-	0	31,293			2,053		29,240	
1/2/2018	1,219	0	753	0	-	29,615	-	-	0	31,587			1,972		29,615	
1/3/2018	1,145	0	769	0	-	29,614	-	-	0	31,528			1,914		29,614	
1/4/2018	1,063	0	710	0	-	10,842	-	-	0	12,615			1,773		10,842	
1/5/2018	1,123	0	667	0	-	14,541	-	-	0	16,331	185,940	26,563	1,790	1,944	14,541	24,619
1/6/2018	1,091	0	658	0	-	10,274	-	-	0	12,023			1,749		10,274	
1/7/2018	1,129	0	675	0	-	13,359	-	-	0	15,163			1,804		13,359	
1/8/2018	1,177	0	724	0	-	34,404	-	-	0	36,305			1,901		34,404	
1/9/2018	53	0	30	0	-	0	-	-	0	83			83		0	
1/10/2018	0	0	0	0	-	0	-	-	0	0			0		0	
1/11/2018	1,450	0	797	0	-	35,168	-	-	0	37,415			2,247		35,168	
1/12/2018	1,279	0	754	0	-	30,194	-	-	0	32,227	133,216	19,031	2,033	1,402	30,194	17,628
1/13/2018	1,135	0	631	0	-	23,223	-	-	0	24,989			1,766		23,223	
1/14/2018	1,135	0	631	0	-	23,223	-	-	0	24,989			1,766		23,223	
1/15/2018	1,099	0	617	0	-	24,740	-	-	0	26,456			1,716		24,740	
1/16/2018	136	0	67	0	-	0	-	-	0	203			203		0	
1/17/2018	1,011	0	567	0	-	31,253	-	-	0	32,831			1,578		31,253	
1/18/2018	1,082	0	648	0	-	18,148	-	-	0	19,878			1,730		18,148	
1/19/2018	1,050	0	644	0	-	0	-	-	0	1,694	131,040	18,720	1,694	1,493	0	17,227
1/20/2018	1,095	0	662	0	-	0	-	-	0	1,757			1,757		0	
1/21/2018	1,095	0	662	0	-	26,763	-	-	0	28,520			1,757		26,763	
1/22/2018	1,120	0	687	0	-	26,084	-	-	0	27,891			1,807		26,084	
1/23/2018	1,112	0	683	0	-	21,495	-	-	0	23,290			1,795		21,495	
1/24/2018	1,054	0	641	0	-	0	-	-	0	1,695			1,695		0	
1/25/2018	146	0	91	0	-	0	-	-	0	237			237		0	
1/26/2018	1,181	0	713	0	-	27,148	-	-	0	29,042	112,432	16,062	1,894	1,563	27,148	14,499
1/27/2018	1,125	0	732	0	-	24,918	-	-	0	26,775			1,857		24,918	
1/28/2018	1,125	0	732	0	-	24,918	-	-	0	26,775			1,857		24,918	
1/29/2018	1,064	0	727	0	-	23,729	-	-	0	25,520			1,791		23,729	
1/30/2018	1,026	0	703	0	-	22,511	-	-	0	24,240			1,729		22,511	
1/31/2018	1,060	0	715	0	-	19,807	-	-	0	21,582			1,775		19,807	
2/1/2018	1,074	0	734	0	-	24,432	-	-	0	26,240			1,808		24,432	
2/2/2018	1,091	0	764	0	-	22,719	-	-	0	24,574	175,706	25,101	1,855	1,810	22,719	23,291
2/3/2018	1,104	0	777	0	-	22,546	-	-	0	24,427			1,881		22,546	
2/4/2018	1,104	0	777	0	-	22,546	-	-	0	24,427			1,881		22,546	
2/5/2018	1,081	0	765	0	-	19,758	-	-	0	21,604			1,846		19,758	
2/6/2018	1,069	0	730	0	-	625	-	-	0	2,424			1,799		625	
2/7/2018	1,095	0	706	0	-	18,844	-	-	0	20,645			1,801		18,844	
2/8/2018	1,235	0	710	0	-	20,603	-	-	0	22,548			1,945		20,603	
2/9/2018	1,237	0	716	0	-	21,159	-	-	0	23,112	139,187	19,884	1,953	1,872	21,159	18,012
2/10/2018	1,126	0	657	0	-	19,438	-	-	0	21,221			1,783		19,438	
2/11/2018	1,126	0	657	0	-	19,438	-	-	0	21,221			1,783		19,438	
2/12/2018	1,090	0	614	0	-	21,975	-	-	0	23,679			1,704		21,975	
2/13/2018	905	0	581	0	-	19,731	-	-	0	21,217			1,486		19,731	
2/14/2018	855	0	592	0	-	19,814	-	-	0	21,261			1,447		19,814	
2/15/2018	1,039	0	643	0	-	20,904	-	-	0	22,586			1,682		20,904	
2/16/2018	1,132	0	593	0	-	20,677	-	-	0	22,402	153,587	21,941	1,725	1,659	20,677	20,282
2/17/2018	1,145	0	581	0	-	20,450	-	-	0	22,176			1,726		20,450	
2/18/2018	1,145	0	581	0	-	20,450	-	-	0	22,176			1,726		20,450	
2/19/2018	1,139	0	563	0	-	19,968	-	-	0	21,670			1,702		19,968	
2/20/2018	1,169	0	557	0	-	19,084	-	-	0	20,810			1,726		19,084	
2/21/2018	1,123	0	534	0	-	19,157	-	-	0	20,814			1,657		19,157	
2/22/2018	1,147	0	538	0	-	19,319	-	-	0	21,004			1,685		19,319	
2/23/2018	411	0	194	0	-	19,622	-	-	0	20,227	148,877	21,268	605	1,547	19,622	19,721

Appendix A - Pumping Data
Dewatering Wells and Pump Stations
Liquid Assessment Monitoring
Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
2/24/2018	0	0	0	0	-	21,066	-	-	0	21,066			0		21,066	
2/25/2018	0	0	0	0	-	21,066	-	-	0	21,066			0		21,066	
2/26/2018	1,380	1	615	0	-	19,618	-	-	0	21,614			1,996		19,618	
2/27/2018	1,262	0	557	0	-	19,510	-	-	0	21,329			1,819		19,510	
2/28/2018	1,215	0	605	0	-	20,088	-	-	0	21,908			1,820		20,088	
3/1/2018	389	0	203	0	0	0	-	-	0	592			592		0	
3/2/2018	0	0	0	0	0	16,899	-	-	0	16,899	124,474	17,782	0	890	16,899	16,892
3/3/2018	0	0	0	0	0	6,381	-	-	0	6,381			0		6,381	
3/4/2018	0	0	0	0	0	6,381	-	-	0	6,381			0		6,381	
3/5/2018	0	0	0	0	0	0	-	-	0	0			0		0	
3/6/2018	0	0	0	0	0	5,310	-	-	0	5,310			0		5,310	
3/7/2018	0	0	0	0	0	19,103	-	-	0	19,103			0		19,103	
3/8/2018	1,454	0	487	0	0	19,989	-	-	0	21,930			1,941		19,989	
3/9/2018	1,418	0	586	0	0	19,157	-	-	0	21,161	80,266	11,467	2,004	564	19,157	10,903
3/10/2018	1,256	0	567	0	0	19,402	-	-	0	21,225			1,823		19,402	
3/11/2018	1,256	0	567	0	0	19,402	-	-	0	21,225			1,823		19,402	
3/12/2018	1,175	0	541	0	0	19,105	-	-	0	20,821			1,716		19,105	
3/13/2018	1,146	0	503	0	0	17,536	-	-	0	19,185			1,649		17,536	
3/14/2018	1,131	0	490	0	0	17,327	-	-	0	18,948			1,621		17,327	
3/15/2018	1,224	79	501	0	0	17,113	-	-	0	18,917			1,804		17,113	
3/16/2018	1,036	479	505	0	0	0	-	-	0	2,020	122,341	17,477	2,020	1,779	0	15,698
3/17/2018	1,058	490	512	0	0	17,782	-	-	0	19,842			2,060		17,782	
3/18/2018	1,058	490	512	0	0	17,782	-	-	0	19,842			2,060		17,782	
3/19/2018	1,126	488	528	0	0	0	-	-	0	2,142			2,142		0	
3/20/2018	1,079	504	516	0	0	0	-	-	0	2,099			2,099		0	
3/21/2018	1,024	482	462	0	0	16,306	-	-	0	18,274			1,968		16,306	
3/22/2018	935	462	418	0	0	14,633	-	-	0	16,448			1,815		14,633	
3/23/2018	938	435	414	0	0	15,060	-	-	0	16,847	95,494	13,642	1,787	1,990	15,060	11,652
3/24/2018	859	536	436	0	0	16,142	-	-	0	17,973			1,831		16,142	
3/25/2018	859	536	436	0	0	16,142	-	-	0	17,973			1,831		16,142	
3/26/2018	776	646	428	0	0	15,279	-	-	0	17,129			1,850		15,279	
3/27/2018	650	382	315	1	0	15,374	-	-	0	16,722			1,348		15,374	
3/28/2018	867	732	431	0	0	15,934	-	-	0	17,964			2,030		15,934	
3/29/2018	230	94	68	0	0	17,384	-	-	0	17,776			392		17,384	
3/30/2018	478	1	120	18	0	13,349	-	-	0	13,966	119,503	17,072	617	1,414	13,349	15,658
3/31/2018	350	0	123	0	0	16,726	-	-	0	17,199			473		16,726	
4/1/2018	350	0	123	0	0	16,726	-	-	0	17,199			473		16,726	
4/2/2018	780	0	177	36	0	16,355	-	-	0	17,348			993		16,355	
4/3/2018	0	0	0	0	0	16,790	-	-	0	16,790			0		16,790	
4/4/2018	1,128	104	312	1	0	16,203	-	-	0	17,748			1,545		16,203	
4/5/2018	683	0	252	0	0	22,038	-	-	0	22,973			935		22,038	
4/6/2018	1,042	0	355	0	0	21,466	-	-	0	22,863	132,120	18,874	1,397	831	21,466	18,043
4/7/2018	96	1	31	0	0	20,885	-	-	0	21,013			128		20,885	
4/8/2018	96	1	31	0	0	20,885	-	-	0	21,013			128		20,885	
4/9/2018	795	3	243	1	0	16,930	-	-	0	17,972			1,042		16,930	
4/10/2018	1,247	3	311	0	0	19,720	-	-	0	21,281			1,561		19,720	
4/11/2018	707	58	329	0	0	18,269	-	-	0	19,363			1,094		18,269	
4/12/2018	593	0	220	0	0	16,623	-	-	0	17,436			813		16,623	
4/13/2018	237	0	52	1	0	21,729	-	-	0	22,019	140,097	20,014	290	722	21,729	19,292
4/14/2018	0	0	127	0	0	24,348	-	-	0	24,475			127		24,348	
4/15/2018	0	0	127	0	0	24,348	-	-	0	24,475			127		24,348	
4/16/2018	1,431	1	625	0	0	21,975	-	-	0	24,032			2,057		21,975	
4/17/2018	1,272	0	356	0	0	23,354	-	-	0	24,982			1,628		23,354	
4/18/2018	1,423	0	662	0	0	20,684	-	-	0	22,769			2,085		20,684	
4/19/2018	1,742	0	770	0	0	22,220	-	-	0	24,732			2,512		22,220	
4/20/2018	580	0	308	0	0	21,964	-	-	0	22,852	168,317	24,045	888	1,346	21,964	22,699
4/21/2018	0	0	156	0	0	21,988	-	-	0	22,144			156		21,988	
4/22/2018	0	0	156	0	0	21,988	-	-	0	22,144			156		21,988	
4/23/2018	0	0	281	0	0	22,207	-	-	0	22,488			281		22,207	
4/24/2018	1	1,017	351	0	0	22,164	-	-	0	23,533			1,369		22,164	
4/25/2018	0	921	431	0	0	23,089	-	-	0	24,441			1,352		23,089	
4/26/2018	0	788	375	0	0	14,115	-	-	0	15,278			1,163		14,115	

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Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
4/27/2018	0	431	246	0	0	8,738	-	-	0	9,415	139,443	19,920	677	736	8,738	19,184
4/28/2018	0	519	190	0	0	22,524	-	-	0	23,233			709		22,524	
4/29/2018	0	519	190	0	0	22,524	-	-	0	23,233			709		22,524	
4/30/2018	0	886	306	0	0	20,393	-	-	0	21,585			1,192		20,393	
5/1/2018	0	617	312	0	-	19,951	-	-	-	20,880			929		19,951	
5/2/2018	0	727	367	0	-	19,861	-	-	-	20,955			1,094		19,861	
5/3/2018	0	1,225	420	0	-	18,628	-	-	-	20,273			1,645		18,628	
5/4/2018	0	478	392	0	-	20,127	-	-	-	20,997	151,156	21,594	870	1,021	20,127	20,573
5/5/2018	0	0	0	0	-	20,714	-	-	-	20,714			0		20,714	
5/6/2018	0	0	0	0	-	20,714	-	-	-	20,714			0		20,714	
5/7/2018	0	0	0	0	-	20,113	-	-	-	20,113			0		20,113	
5/8/2018	0	1,508	454	0	-	18,228	-	-	-	20,190			1,962		18,228	
5/9/2018	0	1,277	456	0	-	17,728	-	-	-	19,461			1,733		17,728	
5/10/2018	0	1,131	401	0	-	18,259	-	-	-	19,791			1,532		18,259	
5/11/2018	0	0	0	0	-	0	-	-	-	0	120,983	17,283	0	747	0	16,537
5/12/2018	810	639	544	0	-	27,212	-	-	-	29,205			1,993		27,212	
5/13/2018	810	639	544	0	-	27,212	-	-	-	29,205			1,993		27,212	
5/14/2018	870	447	388	0	-	12,830	-	-	-	14,535			1,705		12,830	
5/15/2018	735	715	376	0	-	0	-	-	-	1,826			1,826		0	
5/16/2018	722	849	397	0	-	13,813	-	-	-	15,781			1,968		13,813	
5/17/2018	793	766	396	0	-	21,514	-	-	-	23,469			1,955		21,514	
5/18/2018	761	737	398	0	-	21,778	-	-	-	23,674	137,695	19,671	1,896	1,905	21,778	17,766
5/19/2018	761	604	515	0	-	21,111	-	-	-	22,991			1,880		21,111	
5/20/2018	761	604	515	0	-	21,111	-	-	-	22,991			1,880		21,111	
5/21/2018	826	668	448	0	-	16,200	-	-	-	18,142			1,942		16,200	
5/22/2018	875	682	396	0	-	23,595	-	-	-	25,548			1,953		23,595	
5/23/2018	841	637	348	0	-	21,146	-	-	-	22,972			1,826		21,146	
5/24/2018	930	684	334	0	-	20,602	-	-	-	22,550			1,948		20,602	
5/25/2018	983	718	351	0	-	20,814	-	-	-	22,866	158,060	22,580	2,052	1,926	20,814	20,654
5/26/2018	1,026	767	407	0	-	21,195	-	-	-	23,395			2,200		21,195	
5/27/2018	1,026	767	407	0	-	21,195	-	-	-	23,395			2,200		21,195	
5/28/2018	1,036	730	371	0	-	21,024	-	-	-	23,161			2,137		21,024	
5/29/2018	1,093	666	355	0	-	19,642	-	-	-	21,756			2,114		19,642	
5/30/2018	1,153	659	432	0	-	19,498	-	-	-	21,742			2,244		19,498	
5/31/2018	1,191	662	413	0	-	19,491	-	-	-	21,757			2,266		19,491	
6/1/2018	1,201	688	396	0	-	20,857	-	-	-	23,142	158,348	22,621	2,285	2,207	20,857	20,415
6/2/2018	1,153	683	379	0	-	19,874	-	-	-	22,089			2,215		19,874	
6/3/2018	1,153	683	379	0	-	19,874	-	-	-	22,089			2,215		19,874	
6/4/2018	1,045	644	370	0	-	19,505	-	-	-	21,564			2,059		19,505	
6/5/2018	1,117	718	389	0	-	19,471	-	-	-	21,695			2,224		19,471	
6/6/2018	1,115	694	390	0	-	18,961	-	-	-	21,160			2,199		18,961	
6/7/2018	1,163	645	365	0	-	9,022	-	-	-	11,195			2,173		9,022	
6/8/2018	1,176	601	367	0	-	0	-	-	-	2,144	121,936	17,419	2,144	2,176	0	15,244
6/9/2018	1,209	579	357	0	-	15,401	-	-	-	17,546			2,145		15,401	
6/10/2018	1,209	579	357	0	-	15,401	-	-	-	17,546			2,145		15,401	
6/11/2018	1,035	613	373	0	-	17,909	-	-	-	19,930			2,021		17,909	
6/12/2018	1,013	560	358	0	-	17,269	-	-	-	19,200			1,931		17,269	
6/13/2018	1,041	545	368	0	-	18,601	-	-	-	20,555			1,954		18,601	
6/14/2018	2,284	1,167	724	0	-	32,082	-	-	-	36,257			4,175		32,082	
6/15/2018	0	0	0	0	-	0	-	-	-	0	131,034	18,719	0	2,053	0	16,666
6/16/2018	1,288	581	354	0	-	16,931	-	-	-	19,154			2,223		16,931	
6/17/2018	1,288	581	354	0	-	16,931	-	-	-	19,154			2,223		16,931	
6/18/2018	1,377	632	344	0	-	17,845	-	-	-	20,198			2,353		17,845	
6/19/2018	2,126	711	360	0	-	18,462	-	-	-	21,659			3,197		18,462	
6/20/2018	1,373	682	347	0	-	18,500	-	-	-	20,902			2,402		18,500	
6/21/2018	1,359	711	347	0	-	18,901	-	-	-	21,318			2,417		18,901	
6/22/2018	2,531	755	337	0	-	1,925	-	-	-	5,548	127,933	18,276	3,623	2,634	1,925	15,642
6/23/2018	1,286	856	336	0	-	19,455	-	-	-	21,933			2,478		19,455	
6/24/2018	1,286	856	336	0	-	19,455	-	-	-	21,933			2,478		19,455	
6/25/2018	0	848	336	0	-	19,874	-	-	-	21,058			1,184		19,874	
6/26/2018	0	876	343	0	-	19,839	-	-	-	21,058			1,219		19,839	
6/27/2018	0	880	353	0	-	20,127	-	-	-	21,360			1,233		20,127	

Appendix A - Pumping Data
Dewatering Wells and Pump Stations
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Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
6/28/2018	0	900	351	0	-	12,320	-	-	-	13,571			1,251		12,320	
6/29/2018	0	853	353	0	-	22,990	-	-	-	24,196	145,109	20,730	1,206	1,578	22,990	19,151
6/30/2018	0	880	392	8	-	22,198	-	-	-	23,478			1,280		22,198	
7/1/2018	0	880	392	0	-	22,205	-	-	-	23,477			1,272		22,205	
7/2/2018	0	847	422	0	-	22,707	-	-	-	23,976			1,269		22,707	
7/3/2018	0	672	396	0	-	22,619	-	-	-	23,687			1,068		22,619	
7/4/2018	0	672	396	0	-	22,619	-	-	-	23,687			1,068		22,619	
7/5/2018	0	658	334	0	-	21,855	-	-	-	22,847			992		21,855	
7/6/2018	30	944	330	0	-	23,304	-	-	-	24,608	165,760	23,680	1,304	1,179	23,304	22,501
7/7/2018	0	922	331	0	-	18,655	-	-	-	19,908			1,253		18,655	
7/8/2018	0	922	331	0	-	18,655	-	-	-	19,908			1,253		18,655	
7/9/2018	0	896	336	0	-	20,034	-	-	-	21,266			1,232		20,034	
7/10/2018	0	980	342	0	-	25,047	-	-	-	26,369			1,322		25,047	
7/11/2018	0	973	344	0	-	25,048	-	-	-	26,365			1,317		25,048	
7/12/2018	0	988	332	0	-	23,315	-	-	-	24,635			1,320		23,315	
7/13/2018	0	969	330	0	-	23,956	-	-	-	25,255	163,706	23,387	1,299	1,285	23,956	22,101
7/14/2018	0	1,018	328	0	-	19,307	-	-	-	20,653			1,346		19,307	
7/15/2018	0	1,018	328	0	-	19,307	-	-	-	20,653			1,346		19,307	
7/16/2018	0	965	326	0	-	1,041	-	-	-	2,332			1,291		1,041	
7/17/2018	0	980	338	0	-	10,220	-	-	-	11,538			1,318		10,220	
7/18/2018	0	1,029	319	0	-	27,068	-	-	-	28,416			1,348		27,068	
7/19/2018	0	1,073	329	0	-	25,820	-	-	-	27,222			1,402		25,820	
7/20/2018	0	1,022	337	0	-	25,903	-	-	-	27,262	138,076	19,725	1,359	1,344	25,903	18,381
7/21/2018	0	994	332	0	-	25,217	-	-	-	26,543			1,326		25,217	
7/22/2018	0	994	332	0	-	25,217	-	-	-	26,543			1,326		25,217	
7/23/2018	0	1,001	410	0	-	26,022	-	-	-	27,433			1,411		26,022	
7/24/2018	0	1,076	349	0	-	25,900	-	-	-	27,325			1,425		25,900	
7/25/2018	0	1,047	342	0	-	25,296	-	-	-	26,685			1,389		25,296	
7/26/2018	0	1,085	373	0	-	25,331	-	-	-	26,789			1,458		25,331	
7/27/2018	0	1,134	338	0	-	24,337	-	-	-	25,809	187,127	26,732	1,472	1,401	24,337	25,331
7/28/2018	0	1,078	356	0	-	12,791	-	-	-	14,225			1,434		12,791	
7/29/2018	0	1,078	356	0	-	12,791	-	-	-	14,225			1,434		12,791	
7/30/2018	0	1,132	347	0	-	26,035	-	-	-	27,514			1,479		26,035	
7/31/2018	0	1,145	362	0	-	30,232	-	-	-	31,739			1,507		30,232	
8/1/2018	0	1,114	368	0	-	29,776	-	-	-	31,258			1,482		29,776	
8/2/2018	0	1,109	455	0	-	29,743	-	-	-	31,307			1,564		29,743	
8/3/2018	0	1,139	379	0	-	30,724	-	-	-	32,242	182,510	26,073	1,518	1,488	30,724	24,585
8/4/2018	0	1,220	328	0	-	32,763	-	-	-	34,311			1,548		32,763	
8/5/2018	0	1,234	315	0	-	33,237	-	-	-	34,786			1,549		33,237	
8/6/2018	0	1,387	321	0	-	34,071	-	-	-	35,779			1,708		34,071	
8/7/2018	0	1,368	317	0	-	34,060	-	-	-	35,745			1,685		34,060	
8/8/2018	0	1,392	324	0	-	34,422	-	-	-	36,138			1,716		34,422	
8/9/2018	0	1,415	328	0	-	33,786	-	-	-	35,529			1,743		33,786	
8/10/2018	0	1,460	327	0	-	34,917	-	-	-	36,704	248,992	35,570	1,787	1,677	34,917	33,894
8/11/2018	0	1,539	358	0	-	34,383	-	-	-	36,280			1,897		34,383	
8/12/2018	0	1,511	342	0	-	34,897	-	-	-	36,750			1,853		34,897	
8/13/2018	0	1,548	341	0	-	35,147	-	-	-	37,036			1,889		35,147	
8/14/2018	0	1,635	348	0	-	34,032	-	-	-	36,015			1,983		34,032	
8/15/2018	0	1,627	338	0	-	34,586	-	-	-	36,551			1,965		34,586	
8/16/2018	0	1,638	343	0	-	0	-	-	-	1,981			1,981		0	
8/17/2018	0	1,615	338	0	-	34,291	-	-	-	36,244	220,857	31,551	1,953	1,932	34,291	29,619
8/18/2018	0	1,436	353	0	-	34,781	-	-	-	36,570			1,789		34,781	
8/19/2018	0	1,385	362	0	-	0	-	-	-	1,747			1,747		0	
8/20/2018	0	1,296	355	0	-	0	-	-	-	1,651			1,651		0	
8/21/2018	0	1,496	367	0	-	35,677	-	-	-	37,540			1,863		35,677	
8/22/2018	0	1,361	381	0	-	35,826	-	-	-	37,568			1,742		35,826	
8/23/2018	0	1,623	392	0	-	35,720	-	-	-	37,735			2,015		35,720	
8/24/2018	0	1,541	391	0	-	37,136	-	-	-	39,068	191,879	27,411	1,932	1,820	37,136	25,591
8/25/2018	0	1,377	361	0	-	21,568	-	-	-	23,306			1,738		21,568	
8/26/2018	102	1,140	357	0	-	27,775	-	-	-	29,374			1,599		27,775	
8/27/2018	718	1,124	420	0	-	36,710	-	-	-	38,972			2,262		36,710	
8/28/2018	727	1,270	419	0	-	36,325	-	-	-	38,741			2,416		36,325	

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Southeast County Landfill

	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
8/29/2018	656	1,182	439	0	-	37,543	-	-	-	39,820			2,277		37,543	
8/30/2018	663	1,339	466	0	-	36,185	-	-	-	38,653			2,468		36,185	
8/31/2018	663	1,471	447	0	-	31,695	-	-	-	34,276	243,142	34,735	2,581	2,192	31,695	32,543
9/1/2018	673	1,382	438	0	-	16,870	-	-	-	19,363			2,493		16,870	
9/2/2018	650	1,439	427	0	-	40,488	-	-	-	43,004			2,516		40,488	
9/3/2018	650	1,439	427	0	-	40,488	-	-	-	43,004			2,516		40,488	
9/4/2018	669	1,541	432	0	-	39,270	-	-	-	41,912			2,642		39,270	
9/5/2018	662	1,567	435	0	-	39,505	-	-	-	42,169			2,664		39,505	
9/6/2018	696	1,640	453	0	-	39,724	-	-	-	42,513			2,789		39,724	
9/7/2018	695	1,583	459	0	-	39,808	-	-	-	42,545	274,510	39,216	2,737	2,622	39,808	36,593
9/8/2018	650	1,599	477	0	-	40,740	-	-	-	43,466			2,726		40,740	
9/9/2018	691	1,638	495	0	-	40,233	-	-	-	43,057			2,824		40,233	
9/10/2018	680	1,637	480	0	-	40,018	-	-	-	42,815			2,797		40,018	
9/11/2018	683	1,732	505	0	-	39,772	-	-	-	42,692			2,920		39,772	
9/12/2018	670	1,895	503	0	-	39,737	-	-	-	42,805			3,068		39,737	
9/13/2018	700	1,897	529	0	-	40,359	-	-	-	43,485			3,126		40,359	
9/14/2018	678	1,663	522	0	-	40,866	-	-	-	43,729	302,049	43,150	2,863	2,903	40,866	40,246
9/15/2018	686	1,711	537	0	-	41,478	-	-	-	44,412			2,934		41,478	
9/16/2018	685	1,706	532	0	-	7,325	-	-	-	10,248			2,923		7,325	
9/17/2018	677	1,735	507	0	-	48,404	-	-	-	51,323			2,919		48,404	
9/18/2018	712	1,791	510	0	-	43,251	-	-	-	46,264			3,013		43,251	
9/19/2018	684	1,723	513	0	-	10,761	-	-	-	13,681			2,920		10,761	
9/20/2018	689	1,693	513	0	-	44,207	-	-	-	47,102			2,895		44,207	
9/21/2018	699	1,541	531	0	-	41,115	-	-	-	43,886	256,916	36,702	2,771	2,911	41,115	33,792
9/22/2018	779	1,225	529	0	-	40,838	-	-	-	43,371			2,533		40,838	
9/23/2018	765	1,529	546	0	-	41,642	-	-	-	44,482			2,840		41,642	
9/24/2018	696	1,644	531	0	-	36,995	-	-	-	39,866			2,871		36,995	
9/25/2018	704	1,679	525	0	-	39,187	-	-	-	42,095			2,908		39,187	
9/26/2018	715	1,951	546	0	-	36,128	-	-	-	39,340			3,212		36,128	
9/27/2018	733	1,922	556	0	-	33,247	-	-	-	36,458			3,211		33,247	
9/28/2018	730	1,822	543	0	-	33,128	-	-	-	36,223	281,835	40,262	3,095	2,953	33,128	37,309
9/29/2018	714	1,721	557	0	-	28,480	-	-	-	31,472			2,992		28,480	
9/30/2018	714	1,721	557	0	-	28,480	-	-	-	31,472			2,992		28,480	
10/1/2018	214	524	171	0	-	29,244	-	-	-	30,153			909		29,244	
10/2/2018	217	523	181	0	-	28,554	-	-	-	29,475			921		28,554	
10/3/2018	216	556	186	0	-	27,868	-	-	-	28,826			958		27,868	
10/4/2018	212	545	183	0	-	28,639	-	-	-	29,579			940		28,639	
10/5/2018	210	586	186	0	-	28,119	-	-	-	29,101	210,078	30,011	982	1,528	28,119	28,483
10/6/2018	214	611	191	0	-	27,916	-	-	-	28,932			1,016		27,916	
10/7/2018	214	611	191	0	-	27,916	-	-	-	28,932			1,016		27,916	
10/8/2018	220	577	199	0	-	27,533	-	-	-	28,529			996		27,533	
10/9/2018	221	751	211	0	-	27,337	-	-	-	28,520			1,183		27,337	
10/10/2018	228	718	216	0	-	32,791	-	-	-	33,953			1,162		32,791	
10/11/2018	230	674	216	0	-	31,402	-	-	-	32,522			1,120		31,402	
10/12/2018	238	696	218	0	-	30,674	-	-	-	31,826	213,214	30,459	1,152	1,092	30,674	29,367
10/13/2018	236	712	214	0	-	28,128	-	-	-	29,290			1,162		28,128	
10/14/2018	236	712	214	0	-	28,128	-	-	-	29,290			1,162		28,128	
10/15/2018	236	704	212	0	-	26,378	-	-	-	27,530			1,152		26,378	
10/16/2018	248	765	228	0	-	4,122	-	-	-	5,363			1,241		4,122	
10/17/2018	237	732	224	0	-	22,014	-	-	-	23,207			1,193		22,014	
10/18/2018	244	746	233	0	-	26,986	-	-	-	28,209			1,223		26,986	
10/19/2018	241	752	237	0	-	25,992	-	-	-	27,222	170,111	24,302	1,230	1,195	25,992	23,107
10/20/2018	251	747	251	0	-	25,586	-	-	-	26,835			1,249		25,586	
10/21/2018	251	747	251	0	-	25,586	-	-	-	26,835			1,249		25,586	
10/22/2018	254	710	251	0	-	22,485	-	-	-	23,700			1,215		22,485	
10/23/2018	250	703	255	0	-	22,172	-	-	-	23,380			1,208		22,172	
10/24/2018	252	730	264	0	-	25,014	-	-	-	26,260			1,246		25,014	
10/25/2018	257	823	275	0	-	24,335	-	-	-	25,690			1,355		24,335	
10/26/2018	262	912	285	0	-	25,312	-	-	-	26,771	179,471	25,639	1,459	1,283	25,312	24,356
10/27/2018	278	756	282	0	-	24,943	-	-	-	26,259			1,316		24,943	
10/28/2018	278	756	282	0	-	24,943	-	-	-	26,259			1,316		24,943	
10/29/2018	292	796	308	0	-	-	10,288	-	-	11,684			1,396		10,288	

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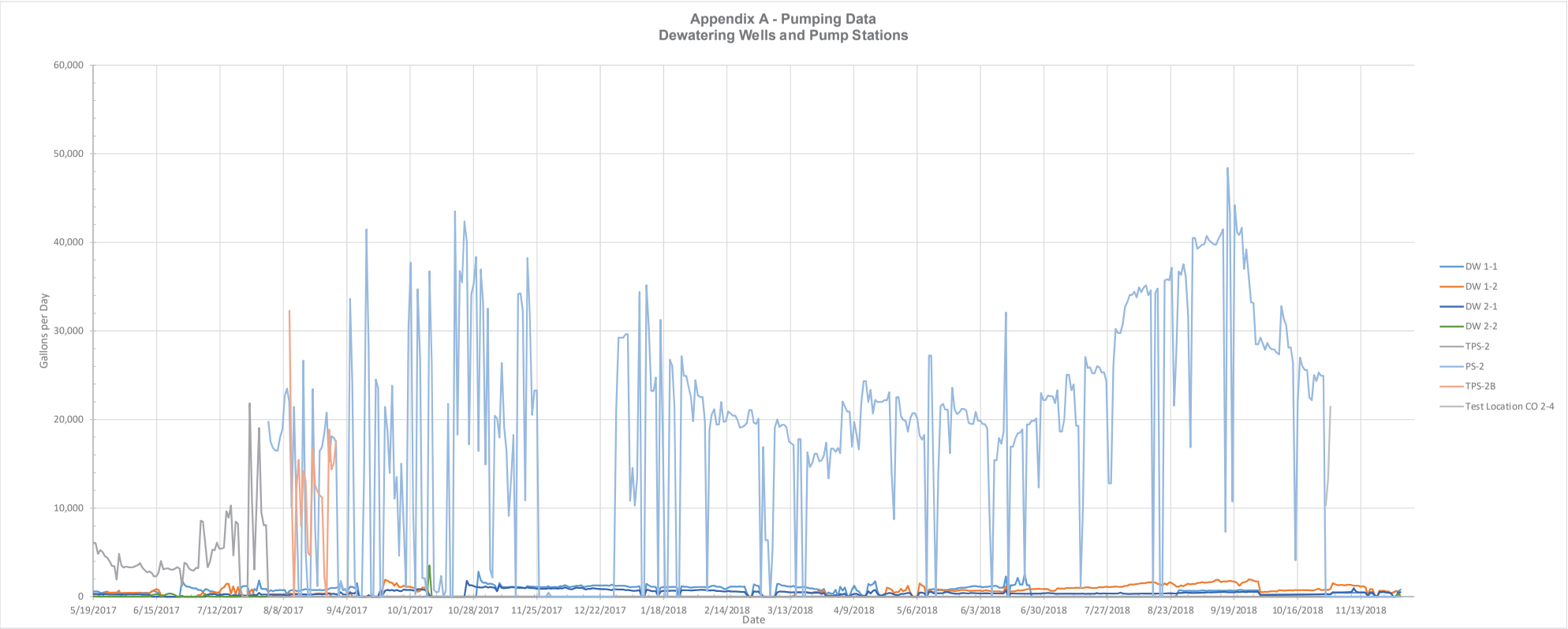
	Dewatering Wells				Pump Stations						WEEKLY		DWs		PSs	
DATE	DW 1-1 (gal)	DW 1-2 (gal)	DW 2-1 (gal)	DW 2-2 (gal)	TPS-2 (gal)	PS-2 (CO 2-1) (gal)	Test Pump Location (CO 2-4) (gal)	Test Pump Location (CO 3-1) (gal)	TPS-2B (CO 2-2) (gal)	Total (gpd)	TOTAL (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)	Total (gal)	Daily Avg (gpd)
10/30/2018	267	762	277	0	-	-	13,347	-	-	14,653			1,306		13,347	
10/31/2018	270	868	286	0	-	-	21,450	-	-	22,874			1,424		21,450	
11/1/2018	440	1,511	504	0	-	-	24,520	-	-	26,975			2,455		24,520	
11/2/2018	428	1,404	490	0	-	-	24,907	-	-	27,229	155,933	22,276	2,322	1,648	24,907	20,628
11/3/2018	457	1,313	478	0	-	-	25,214	-	-	27,462			2,248		25,214	
11/4/2018	457	1,313	478	0	-	-	25,214	-	-	27,462			2,248		25,214	
11/5/2018	438	1,333	494	0	-	-	24,575	-	-	26,840			2,265		24,575	
11/6/2018	437	1,278	501	0	-	-	23,480	-	-	25,696			2,216		23,480	
11/7/2018	431	1,316	515	0	-	-	22,470	-	-	24,732			2,262		22,470	
11/8/2018	438	1,360	525	0	-	-	21,871	-	-	24,194			2,323		21,871	
11/9/2018	438	1,325	520	0	-	-	17,478	-	-	19,761	176,147	25,164	2,283	2,264	17,478	22,900
11/10/2018	440	1,249	960	0	-	-	15,251	-	-	17,900			2,649		15,251	
11/11/2018	440	1,249	590	0	-	-	15,251	-	-	17,530			2,279		15,251	
11/12/2018	455	1,238	492	0	-	-	16,956	-	-	19,141			2,185		16,956	
11/13/2018	455	1,112	467	0	-	-	14,943	-	-	16,977			2,034		14,943	
11/14/2018	459	1,190	483	0	-	-	22,219	-	-	24,351			2,132		22,219	
11/15/2018	447	1,060	470	0	-	-	20,308	-	-	22,285			1,977		20,308	
11/16/2018	98	236	101	0	-	-	22,362	-	-	22,797	140,981	20,140	435	1,956	22,362	18,184
11/17/2018	385	851	506	0	-	-	20,522	-	-	22,264			1,742		20,522	
11/18/2018	385	851	506	0	-	-	20,522	-	-	22,264			1,742		20,522	
11/19/2018	133	185	141	0	-	-	18,068	-	-	18,527			459		18,068	
11/20/2018	0	0	0	0	-	-	21,743	-	-	21,743			0		21,743	
11/21/2018	489	670	545	0	-	-	19,854	-	-	21,558			1,704		19,854	
11/22/2018	489	670	545	0	-	-	19,854	-	-	21,558			1,704		19,854	
11/23/2018	531	664	552	0	-	-	20,447	-	-	22,194	150,108	21,444	1,747	1,300	20,447	20,144
11/24/2018	453	579	452	0	-	-	19,417	-	-	20,901			1,484		19,417	
11/25/2018	453	579	452	0	-	-	19,417	-	-	20,901			1,484		19,417	
11/26/2018	433	354	361	0	-	-	10,349	-	-	11,497			1,148		10,349	
11/27/2018	477	483	0	0	-	-	-	6,435	-	7,395			960		6,435	
11/28/2018	611	654	0	0	-	-	-	6,306	-	7,571			1,265		6,306	
11/29/2018	576	561	467	345	-	-	-	6,431	-	8,380			1,949		6,431	
11/30/2018	809	60	510	0	-	-	-	6,862	-	8,241	84,886	12,127	1,379	1,381	6,862	10,745


Appendix A - Pumping Data
Dewatering Wells and Pump Stations
Gallons per Day
60,000
50,000
40,000
30,000
20,000
10,000
0
5/19/2017
6/15/2017
7/12/2017
8/8/2017
9/4/2017
10/1/2017
10/28/2017
11/25/2017
12/22/2017
1/18/2018
2/14/2018
3/13/2018
4/9/2018
5/6/2018
6/3/2018
6/30/2018
7/27/2018
8/23/2018
9/19/2018
10/16/2018
11/13/2018
Date
DW 1-1
DW 1-2
DW 2-1
DW 2-2
TPS-2
PS-2
TPS-2B
Test Location CO 2-4

Weekly Supplemental Leachate Pumping Data
Liquid Assessment Monitoring
Southeast County Landfill

Week Ending	Condensate Traps (gal)	LFG Extraction Wells (gal)	Dewatering Wells (gal)	Pump Stations (gal)	Weekly Total (gal)	Daily Average (gpd)
12/23/2016	-	4,296	-	-	4,296	1,074
12/30/2016	-	8,024	-	-	8,024	1,146
1/6/2017	2,518	7,614	-	-	10,132	1,447
1/13/2017	10,516	7,201	-	-	17,717	2,531
1/20/2017	15,952	9,104	-	-	25,056	3,579
1/27/2017	12,999	7,953	-	-	20,952	2,993
2/3/2017	13,991	8,072	-	-	22,063	3,152
2/10/2017	29,162	7,025	-	-	36,187	5,170
2/17/2017	64,513	8,404	-	2,000	74,917	10,702
2/24/2017	56,760	6,811	-	13,600	77,171	11,024
3/3/2017	16,376	5,872	-	14,600	36,848	5,264
3/10/2017	13,076	5,373	-	42,000	60,449	8,636
3/17/2017	14,365	5,969	-	84,000	104,334	14,905
3/24/2017	12,218	6,003	-	81,000	99,221	14,174
3/31/2017	9,808	5,199	-	63,000	78,007	11,144
4/7/2017	5,677	4,874	-	49,000	59,551	8,507
4/14/2017	3,292	5,685	-	42,000	50,977	7,282
4/21/2017	4,025	7,550	-	41,000	52,575	7,511
4/28/2017	3,529	6,954	-	34,600	45,083	6,440
5/5/2017	2,309	6,159	-	31,600	40,068	5,724
5/12/2017	1,279	5,845	-	27,000	34,124	4,875
5/19/2017	1,815	4,793	1,169	24,100	31,877	4,554
5/26/2017	2,168	5,792	7,374	34,140	49,474	7,068
6/2/2017	2,455	5,188	7,597	23,937	39,177	5,597
6/9/2017	2,900	4,639	7,551	24,033	39,123	5,589
6/16/2017	3,176	3,367	9,120	18,636	34,299	4,900
6/23/2017	2,587	4,111	2,063	22,735	31,496	4,499
6/30/2017	3,319	4,112	6,595	21,412	35,438	5,063
7/7/2017	2,369	4,303	7,156	35,711	49,539	7,077
7/14/2017	3,522	4,376	8,569	37,025	53,492	7,642
7/21/2017	3,272	8,131	8,059	51,131	70,593	10,085
7/28/2017	3,573	10,250	8,075	46,326	68,224	9,746

Weekly Supplemental Leachate Pumping Data
Liquid Assessment Monitoring
Southeast County Landfill

Week Ending	Condensate Traps (gal)	LFG Extraction Wells (gal)	Dewatering Wells (gal)	Pump Stations (gal)	Weekly Total (gal)	Daily Average (gpd)
8/4/2017 [1]	8,278	25,125	8,880	98,630	140,913	20,130
8/11/2017	6,541	64,449	7,701	170,324	249,015	35,574
8/18/2017	4,889	62,204	8,951	147,907	223,951	31,993
8/25/2017	4,852	62,896	9,397	139,376	216,521	30,932
9/1/2017	55,411	64,407	9,876	197,359	327,053	46,722
9/8/2017	62,183	75,863	9,912	132,878	280,836	40,119
9/15/2017 [2]	21,344	15,941	2,485	171,276	211,046	30,149
9/22/2017 [2]	21,062	24,538	7,088	152,090	204,778	29,254
9/29/2017	75,527	52,154	14,371	201,676	343,728	49,104
10/6/2017	60,611	57,347	12,037	285,947	415,942	59,420
10/13/2017	71,298	51,515	9,009	151,615	283,437	40,491
10/20/2017 [3]	78,470	57,889	1	154,888	291,248	41,607
10/27/2017	77,877	25,324	3,082	344,539	450,822	64,403
11/3/2017	93,276	52,784	15,743	295,219	457,022	65,289
11/10/2017	90,875	50,207	16,146	180,432	337,660	48,237
11/17/2017	96,443	53,486	14,756	177,071	341,756	48,822
11/24/2017	99,123	49,385	14,620	246,012	409,140	58,449
12/1/2017 [4]	100,387	48,906	14,013	75,732	239,038	34,148
12/8/2017 [4,5]	96,185	51,690	14,835	44,435	207,145	29,592
12/15/2017 [4]	96,010	45,467	14,758	37,714	193,949	27,707
12/22/2017 [4]	133,046	48,074	14,817	35,702	231,639	33,091
12/29/2017 [8]	189,864	48,139	14,646	55,554	308,203	44,029
1/5/2018 [6]	70,623	47,514	13,608	172,332	304,077	43,440
1/12/2018 [7]	72,915	33,406	9,817	123,399	239,537	34,220
1/19/2018 [8]	129,553	45,763	10,453	120,587	306,356	43,765
1/26/2018 [8]	163,579	46,519	10,942	101,490	322,530	46,076
2/2/2018	147,769	45,646	12,672	163,034	369,121	52,732
2/9/2018	76,459	29,950	13,106	126,081	245,596	35,085
2/16/2018	44,660	18,088	11,610	141,977	216,335	30,905
2/23/2018	627	17,140	10,827	138,050	166,644	23,806

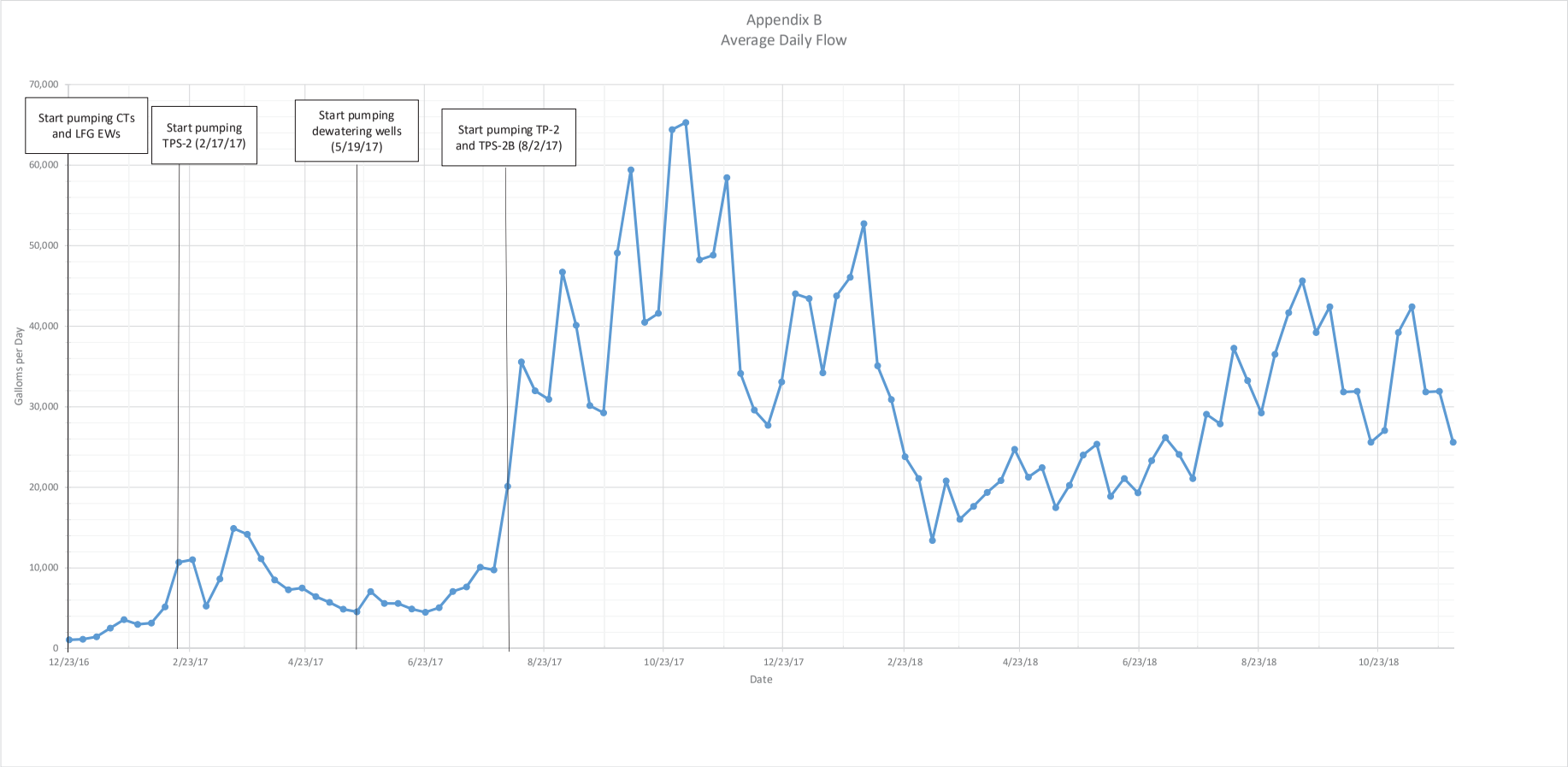
Weekly Supplemental Leachate Pumping Data
Liquid Assessment Monitoring
Southeast County Landfill

Week Ending	Condensate Traps (gal)	LFG Extraction Wells (gal)	Dewatering Wells (gal)	Pump Stations (gal)	Weekly Total (gal)	Daily Average (gpd)
3/2/2018	1,125	22,122	6,227	118,247	147,721	21,103
3/9/2018	907	12,699	3,945	76,321	93,872	13,410
3/16/2018	884	22,354	12,456	109,885	145,579	20,797
3/23/2018	566	16,186	13,931	81,563	112,246	16,035
3/30/2018	1,037	2,959	9,899	109,604	123,499	17,643
4/6/2018	180	3,309	5,816	126,304	135,609	19,373
4/13/2018	288	5,539	5,056	135,041	145,924	20,846
4/20/2018	332	4,426	9,424	158,893	173,075	24,725
4/27/2018	1,211	8,176	5,154	134,289	148,830	21,261
5/4/2018	1,031	4,960	7,148	144,008	157,147	22,450
5/11/2018	603	811	5,227	115,756	122,397	17,485
5/18/2018	2,305	1,747	13,336	124,359	141,747	20,250
5/25/2018	4,339	5,693	13,481	144,579	168,092	24,013
6/1/2018	9,329	9,886	15,446	142,902	177,563	25,366
6/8/2018	1,978	8,266	15,229	106,707	132,180	18,883
6/15/2018	1,461	15,175	14,371	116,663	147,670	21,096
6/22/2018	617	6,684	18,438	109,495	135,234	19,319
6/29/2018	1,213	16,927	11,049	134,060	163,249	23,321
7/6/2018	7,730	9,852	8,253	157,507	183,342	26,192
7/13/2018	1,892	3,001	8,996	154,710	168,599	24,086
7/20/2018	1,842	7,682	9,410	128,666	147,600	21,086
7/27/2018	6,947	9,472	9,807	177,320	203,546	29,078
8/3/2018	5,607	7,034	10,418	172,092	195,151	27,879
8/10/2018	2,549	9,391	11,736	237,256	260,932	37,276
8/17/2018	1,991	9,891	13,521	207,336	232,739	33,248
8/24/2018	1,422	11,398	12,739	179,140	204,699	29,243
8/31/2018	5,520	6,968	15,341	227,801	255,630	36,519
9/7/2018	3,008	14,228	18,357	256,153	291,746	41,678
9/14/2018	3,785	13,662	20,324	281,725	319,496	45,642
9/21/2018	5,368	12,239	20,375	236,541	274,523	39,218
9/28/2018	3,428	11,649	20,670	261,165	296,912	42,416
10/5/2018	3,903	8,919	10,694	199,384	222,900	31,843
10/12/2018	2,662	7,558	7,645	205,569	223,434	31,919

Weekly Supplemental Leachate Pumping Data Liquid Assessment Monitoring Southeast County Landfill						
Week Ending	Condensate Traps (gal)	LFG Extraction Wells (gal)	Dewatering Wells (gal)	Pump Stations (gal)	Weekly Total (gal)	Daily Average (gpd)
10/19/2018	2,711	6,374	8,363	161,748	179,196	25,599
10/26/2018[9]	3,428	6,449	8,981	170,490	189,348	27,050
11/2/2018[9]	5,368	12,239	20,375	236,541	274,523	39,218
11/9/2018[9]	3,428	11,649	20,670	261,165	296,912	42,416
11/16/2018[9]	3,903	8,919	10,694	199,384	222,900	31,843
11/23/2018[9]	2,662	7,558	7,645	205,569	223,434	31,919
11/30/2018[10]	2,711	6,374	8,363	161,748	179,196	25,599
Total	2,638,164	1,813,473	689,341	9,278,416	14,419,394	

Notes

1. Installed suction line in Phase II header.
2. Pumps shut down during and following Hurricane Irma.
3. Dewatering wells shut down for maintenance 10/12/17 through 10/26/17.
4. PS-2 shut down for construction at cut-off trench from 11/27/17 through 12/28/17.
5. PS-2B shut down for construction at cut-off trench from 12/7/17 through 12/11/17.
6. PS-2B shut down to check liquid Levels in MP 2-2 and MP 2-3 from 12/28/17 through 1/5/18.
7. All supplemental dewatering pumps shut down for Phase II dye tracer test 1/9/18 and 1/10/18.
8. PS-2 shut down for maintenance 1/16, 1/19, 1/20, 1/24, and 1/25.
9. Evaluate TPS 2-4 10/25/2018 through 11/26/2018.
10. Evaluate TPS 3-1 11/26/2018 through 11/30/2018.


Appendix B
Average Daily Flow
Start pumping CTs and LFG EWs
Start pumping TPS-2 (2/17/17)
Start pumping dewatering wells (5/19/17)
Start pumping TP-2 and TPS-2B (8/2/17)
Galloms per Day
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
12/23/16
2/23/17
4/23/17
6/23/17
8/23/17
10/23/17
12/23/17
2/23/18
4/23/18
6/23/18
8/23/18
10/23/18
Date

Appendix B

Dewatering Well Pump Cleaning Memo

December 12, 2018
File No. 09215600.07

MEMORANDUM

TO: Mr. Kollan Spradlin, P.E.
FROM: Mr. Alex Ortega and Mr. Donovan Dickey
SUBJECT: Dewatering Well and EW-66 Pump Cleaning
Hillsborough County Southeast County Landfill

INTRODUCTION

As part of the on-going supplemental leachate removal plan, the Hillsborough County Transportation and Utilities Services, Solid Waste Management Division has been pumping leachate from landfill gas extraction wells (EWs) and dewatering wells (DWs) within Phases I and II at the Southeast County Landfill (SCLF). The following memorandum outlines efforts to optimize pump flow by cleaning the QED AP4+B bottom inlet pneumatic pumps in DW 1-1, DW 1-2, DW 2-1, DW 2-2 and EW-66.

FIELD INVESTIGATION

On November 30, 2018, two representatives of SCS Engineers (SCS), Mr. Alex Ortega and Mr. Donovan Dickey, were on site at the SCLF to clean the pneumatic pumps located in DW 1-1, DW 1-2, DW 2-1, DW 2-2, and EW-66. SCS representatives cleaned each pump with water and ensured that the float in the pump was moving freely. For DW 1-1 and DW 2-2, the depths of the pumps were adjusted to 0.16 and 0.35 inches above the top of silt, respectively. A summary of the current configuration of each well is shown below in **Table 1**. A Figure depicting the current configuration of the dewatering wells is provided as **Figure 1**.

Table 1: Current Well Configuration (November 30, 2018)

Well	Total Depth of Well (ft)	Depth to Liquid (ft from TOC[1])	Initial Bottom of Pump (ft from TOC[1])	Final Bottom of Pump (ft from TOC[1])
DW 1-1	88.81	76.79	88.90	88.65
DW 1-2	88.36	82.40	88.10	88.10
DW 2-1	69.99	66.00	69.99	69.99
DW 2-2	69.05	64.45	69.25	68.70
EW-66	66.21	51.90	65.50	65.50

Note: 1 – TOC = Top of Casing

FIELD OBSERVATIONS

The summary of observations recorded on November 30, 2018 for each pump are shown below:

DW 1-1: After the pump was removed from the well, SCS observed that it was covered in black residue with no visible silt. Water was used to clean the pump and verify that the actuation float was moving freely. The pump depth was adjusted as shown in **Table 1**.

DW 1-2: SCS observed that the pump contained silt and black residue. SCS cleaned the pump and used a bucket of water to verify that the actuation float was moving freely. The bottom of the pump was set at an appropriate depth and did not require changes or adjustments.

DW 2-1: Upon removal, SCS observed that the pump was covered in a small amount of black residue with no visible silt. Water was used to rinse the pump and verify that the actuation float was moving freely. The bottom of the pump was set an appropriate depth and did not require changes or adjustments.

DW 2-2: SCS observed that the pump covered in a small amount of black residue with no silt. SCS rinsed the pump with clean water and verified that the actuation float was moving freely. The pump depth was adjusted as shown in **Table 1**.

EW-66: Inspection of the pump indicated that the pump was covered thick black residue that was present within the landfill gas extraction well**.** Water was used to clean the pump and verify that the actuation float was moving freely. The bottom of the pump was set at an appropriate depth and did not require changes or adjustments.

Figure 1

Dewatering Wells Configuration

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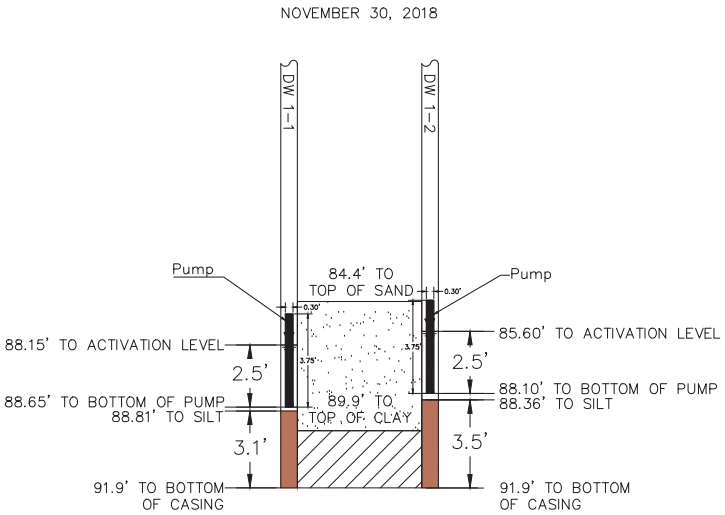

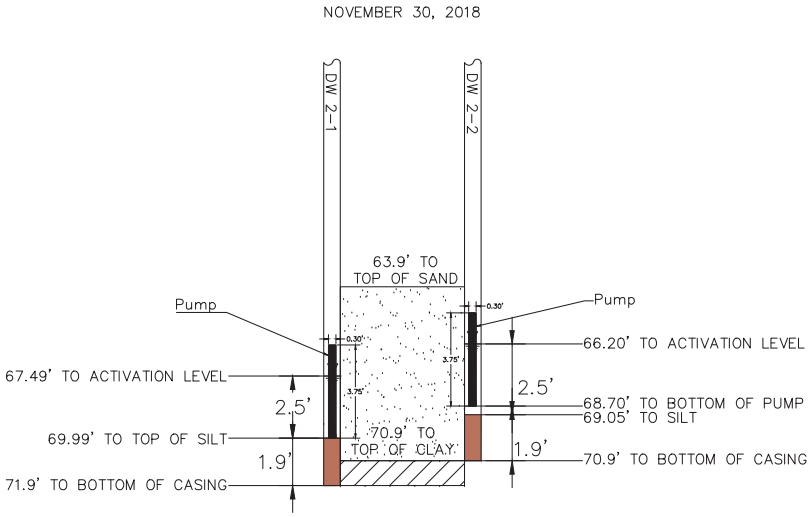

SCS ENGINEERS

FIGURE 1. DEWATERING WELLS CONFIGURATION
HILLSBOROUGH COUNTY

Appendix C

Weekly Water Level and Precipitation Data

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		6/3/2016	56.9	188.35	131.5	118.3	13.2	
		6/8/2016	59.5		128.9		10.6	
		6/9/2016	61.3		127.1		8.8	
		6/16/2016	61.2		127.2		8.9	
		6/21/2016	61.1		127.3		9.0	
		6/22/2016	61.5		126.9		8.6	
		6/28/2016	61.2		127.2		8.9	
		7/13/2016	61.1		127.3		9.0	
		7/29/2016	61.8		126.6		8.3	
		8/5/2016	60.7		127.7		9.3	
		8/12/2016	60.4		128.0		9.6	
		8/19/2016	60.3		128.1		9.8	
		8/26/2016	60.2		128.2		9.8	
		9/2/2016	60.0		128.4		10.1	
		9/9/2016	60.0		128.4		10.1	
		9/16/2016	59.8		128.6		10.3	
		9/23/2016	59.2		129.2		10.9	
		9/30/2016	58.8		129.6		11.3	
		10/11/2016	58.6		129.8		11.5	
		10/14/2016	58.6		129.8		11.5	
		10/21/2016	57.8		130.6		12.3	
		10/28/2016	58.0		130.4		12.1	
		11/4/2016	58.0		130.4		12.1	
		11/11/2016	58.2		130.2		11.9	
		11/18/2016	58.5		129.9		11.6	
		11/25/2016	58.8		129.6		11.3	
		12/2/2016	58.2		130.2		11.9	
		12/9/2016	58.7		129.7		11.4	
		12/16/2016	58.7		129.7		11.4	
		12/23/2016	58.7		129.7		11.4	
		12/30/2016	58.7		129.7		11.4	
		1/6/2017	58.6		129.8		11.5	
II	SB-01	1/13/2017	59.2		129.2		10.9	
		1/20/2017	58.8		129.6		11.3	
		1/27/2017	59.3		129.1		10.8	
		2/3/2017	59.6		128.8		10.5	
		2/10/2017	59.7		128.7		10.4	
		2/17/2017	59.6		128.8		10.5	
		2/24/2017	59.3		129.1		10.8	
		3/3/2017	59.9		128.5		10.2	
		3/10/2017	59.5		128.9		10.6	
		3/17/2017	60.0		128.4		10.1	
		3/24/2017	59.9		128.5		10.2	
		3/31/2017	59.5		128.9		10.6	
		4/7/2017	59.8		128.6		10.3	
		4/13/2017	59.9		128.5		10.2	
		4/21/2017	59.9		128.5		10.2	
		4/28/2017	60.0		128.4		10.1	
		5/5/2017	59.6		128.8		10.5	
		5/12/2017	59.8		128.6		10.3	
		5/19/2017	60.2		128.2		9.8	
		5/26/2017	60.3		128.1		9.8	
		6/2/2017	60.2		128.2		9.8	
		6/9/2017	59.7		128.7		10.4	
		6/16/2017	58.6		129.8		11.5	
		6/23/2017	60.1		128.3		10.0	
		6/30/2017	60.7		127.7		9.3	
		7/7/2017	60.8		127.6		9.3	
		7/14/2017	56.5		131.9		13.6	
		7/21/2017	58.5		129.9		11.6	
		7/28/2017	60.4		128.0		9.6	
		8/4/2017	60.1		128.3		10.0	
		8/11/2017	60.6		127.8		9.5	
		8/18/2017	59.8		128.6		10.3	
		8/25/2017	60.7		127.7		9.3	

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-01	9/1/2017	60.7		127.7		9.3	
		9/8/2017	59.8		128.6		10.3	
		9/15/2017	54.5		133.9		15.6	
		9/22/2017	59.2		129.2		10.9	
		9/29/2017	59.3		129.1		10.8	
		10/6/2017	59.0		129.4		11.1	
		10/13/2017	59.0		129.4		11.1	
		10/20/2017	59.0		129.4		11.1	
		10/27/2017	59.2		129.2		10.9	
		11/3/2017	59.3		129.1		10.8	
		11/10/2017	59.3		129.1		10.8	
		11/17/2017	59.5		128.9		10.6	
		11/24/2017	59.3		129.1		10.8	
		12/1/2017	59.8		128.6		10.3	
		12/8/2017	59.4		129.0		10.7	
		12/15/2017	59.7		128.7		10.4	
		12/22/2017	59.7		128.7		10.4	
		12/29/2017	59.8		128.6		10.3	
		1/5/2018	60.2		128.2		9.8	
		1/12/2018	59.7		128.7		10.4	-0.5
		1/19/2018	59.7		128.7		10.4	-0.9
		1/26/2018	60.4		128.0		9.6	-1.1
		2/2/2018	60.3		128.1		9.8	-0.7
		2/9/2018	60.5		127.9		9.6	-0.8
		2/16/2018	60.5		127.9		9.6	-0.9
		2/23/2018	61.0		127.4		9.1	-1.7
		3/2/2018	60.9		127.5		9.1	-1.0
		3/9/2018	61.1		127.3		9.0	-1.6
		3/16/2018	61.2		127.1		8.8	-1.2
		3/23/2018	61.7		126.7		8.3	-1.8
		3/30/2018	61.3		127.1		8.8	-1.8
		4/6/2018	61.2		127.2		8.8	-1.4
		4/13/2018	61.7		126.7		8.3	-1.8
		4/20/2018	61.7		126.7		8.3	-1.8
		4/27/2018	61.6		126.8		8.5	-1.6
		5/4/2018	61.9		126.5		8.1	-2.3
		5/11/2018	62.3		126.1		7.8	-2.5
		5/18/2018	57.1		131.3		13.0	3.1
		5/25/2018	60.0		128.4		10.1	0.3
		6/1/2018	60.2		128.2		9.8	0.0
		6/8/2018	60.2		128.2		9.8	-0.5
		6/15/2018	60.5		127.9		9.5	-2.0
		6/22/2018	60.4		128.0		9.6	-0.3
		6/29/2018	60.4		128.0		9.6	0.3
		7/6/2018	61.0		127.4		9.1	-0.2
		7/13/2018	61.0		127.4		9.1	-4.5
		7/20/2018	60.3		128.1		9.8	-1.8
		7/27/2018	60.0		128.4		10.1	0.4
		8/3/2018	60.0		128.4		10.1	0.1
		8/10/2018	60.1		128.3		10.0	0.5
		8/17/2018	59.7		128.7		10.4	0.1
		8/24/2018	59.8		128.6		10.3	0.9
		8/31/2018	54.6		133.8		15.5	6.1
		9/7/2018	55.7		132.7		14.4	4.1
		9/14/2018	54.6		133.8		15.5	-0.1
		9/21/2018	59.0		129.4		11.1	0.2
		9/28/2018	58.7		129.7		11.4	0.6
		10/5/2018	58.3		130.1		11.8	0.7
		10/12/2018	58.0		130.4		12.1	1.0
		10/19/2018	58.1		130.3		12.0	0.9
		10/26/2018	58.2		130.2		11.9	1.0
		11/2/2018	57.8		130.6		12.3	1.5
		11/9/2018	See Note 23					

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		6/9/2016	54.5	187.62	133.1	117.9	15.2	
		6/11/2016	56.5		131.2		13.3	
		6/14/2016	56.0		131.7		13.8	
		6/16/2016	54.6		133.0		15.1	
		6/21/2016	56.2		131.4		13.5	
		6/22/2016	55.4		132.2		14.3	
		6/28/2016	56.1		131.5		13.6	
		7/13/2016	54.8		132.9		15.0	
		7/29/2016	54.9		132.8		14.9	
		8/5/2016	56.3		131.3		13.4	
		8/12/2016	55.6		132.0		14.1	
		8/19/2016	55.8		131.8		13.9	
		8/26/2016	55.8		131.8		13.9	
		9/2/2016	55.7		131.9		14.0	
		9/9/2016	55.7		131.9		14.0	
		9/16/2016	55.5		132.1		14.2	
		9/23/2016	54.9		132.7		14.8	
		9/30/2016	54.6		133.0		15.1	
		10/11/2016	54.3		133.3		15.4	
		10/14/2016	54.5		133.1		15.2	
		10/21/2016	54.0		133.6		15.7	
		10/28/2016	55.5		132.1		14.2	
		11/4/2016	54.0		133.6		15.7	
		11/11/2016	54.4		133.2		15.3	
		11/18/2016	54.5		133.1		15.2	
		11/25/2016	54.6		133.0		15.1	
		12/2/2016	54.9		132.7		14.8	
		12/9/2016	55.0		132.6		14.7	
		12/16/2016	55.0		132.6		14.7	
		12/23/2016	55.0		132.6		14.7	
		12/30/2016	55.1		132.5		14.6	
		1/6/2017	55.0		132.6		14.7	
II	SB-02	1/13/2017	55.4		132.2		14.3	
		1/20/2017	54.9		132.7		14.8	
		1/27/2017	55.4		132.2		14.3	
		2/3/2017	55.6		132.0		14.1	
		2/10/2017	55.6		132.0		14.1	
		2/17/2017	55.6		132.0		14.1	
		2/24/2017	55.4		132.2		14.3	
		3/3/2017	55.9		131.7		13.8	
		3/10/2017	55.8		131.8		13.9	
		3/17/2017	56.2		131.4		13.5	
		3/24/2017	56.2		131.4		13.5	
		3/31/2017	55.8		131.8		13.9	
		4/7/2017	56.4		131.2		13.3	
		4/13/2017	56.5		131.1		13.2	
		4/21/2017	56.4		131.2		13.3	
		4/28/2017	56.7		130.9		13.0	
		5/5/2017	56.4		131.2		13.3	
		5/12/2017	56.7		130.9		13.0	
		5/19/2017	56.9		130.7		12.8	
		5/26/2017	57.1		130.5		12.6	
		6/2/2017	57.0		130.6		12.7	
		6/9/2017	57.1		130.5		12.6	
		6/16/2017	57.0		130.6		12.7	
		6/23/2017	57.1		130.5		12.6	
		6/30/2017	57.2		130.4		12.5	
		7/7/2017	57.2		130.4		12.5	
		7/14/2017	57.2		130.4		12.5	
		7/21/2017	57.0		130.6		12.7	
		7/28/2017	56.8		130.8		12.9	
		8/4/2017	56.6		131.0		13.1	
		8/11/2017	55.9		131.7		13.8	
		8/18/2017	55.4		132.2		14.3	
		8/25/2017	55.0		132.6		14.7	

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-02	9/1/2017	54.9		132.7		14.8	
		9/8/2017	54.4		133.2		15.3	
		9/15/2017	53.8		133.8		15.9	
		9/22/2017	52.9		134.7		16.8	
		9/29/2017	52.6		135.0		17.1	
		10/6/2017	52.5		135.1		17.2	
		10/13/2017	52.9		134.7		16.8	
		10/20/2017	53.1		134.5		16.6	
		10/27/2017	53.9		133.7		15.8	
		11/3/2017	54.2		133.4		15.5	
		11/10/2017	54.2		133.4		15.5	
		11/17/2017	54.3		133.3		15.4	
		11/24/2017	54.6		133.0		15.1	
		12/1/2017	54.6		133.0		15.1	
		12/8/2017	54.6		133.0		15.1	
		12/15/2017	54.6		133.0		15.1	
		12/22/2017	54.6		133.0		15.1	
		12/29/2017	54.9		132.7		14.8	
		1/5/2018	55.5		132.1		14.2	-0.5
		1/12/2018	54.7		132.9		15.0	0.7
		1/19/2018	54.6		133.0		15.1	0.3
		1/26/2018	55.7		131.9		14.0	-0.3
		2/2/2018	55.3		132.3		14.4	0.3
		2/9/2018	55.8		131.8		13.9	-0.2
		2/16/2018	55.8		131.8		13.9	-0.2
		2/23/2018	56.1		131.5		13.6	-0.7
		3/2/2018	55.9		131.7		13.8	0.0
		3/9/2018	56.0		131.6		13.7	-0.2
		3/16/2018	56.2		131.4		13.5	0.0
		3/23/2018	56.6		131.0		13.1	-0.4
		3/30/2018	56.3		131.3		13.4	-0.5
		4/6/2018	56.4		131.2		13.3	0.0
		4/13/2018	56.6		131.0		13.1	-0.1
		4/20/2018	56.9		130.7		12.8	-0.5
		4/27/2018	56.5		131.1		13.2	0.2
		5/4/2018	56.4		131.2		13.3	0.0
		5/11/2018	56.9		130.7		12.8	-0.2
		5/18/2018	56.8		130.8		12.9	0.1
		5/25/2018	56.6		131.0		13.1	0.5
		6/1/2018	56.9		130.7		12.8	0.1
		6/8/2018	56.9		130.7		12.8	0.2
		6/15/2018	56.9		130.7		12.8	0.1
		6/22/2018	57.0		130.6		12.7	0.1
		6/29/2018	56.9		130.7		12.8	0.3
		7/6/2018	56.9		130.7		12.8	0.3
		7/13/2018	56.7		130.9		13.0	0.5
		7/20/2018	56.4		131.2		13.3	0.6
		7/27/2018	56.3		131.3		13.4	0.5
		8/3/2018	56.0		131.6		13.7	0.6
		8/10/2018	56.6		131.0		13.1	-0.7
		8/17/2018	55.4		132.2		14.3	0.0
		8/24/2018	54.9		132.7		14.8	0.1
		8/31/2018	54.7		132.9		15.0	0.2
		9/7/2018	54.4		133.2		15.3	0.0
		9/14/2018	54.4		133.2		15.3	-0.6
		9/21/2018	54.5		133.1		15.2	-1.6
		9/28/2018	54.5		133.1		15.2	-1.9
		10/5/2018	54.4		133.2		15.3	-1.9
		10/12/2018	54.3		133.3		15.4	-1.4
		10/19/2018	54.5		133.1		15.2	-1.4
		10/26/2018	54.3		133.3		15.4	-0.4
		11/2/2018	54.4		133.2		15.3	-0.2
		11/9/2018	See Note 23					

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-03	6/10/2016	51.7	185.73	134.0	117.4	16.6	
		6/11/2016	58.5		127.3		9.9	
		6/13/2016	59.6		126.1		8.7	
		6/16/2016	59.7		126.1		8.7	
		6/21/2016	59.8		126.0		8.6	
		6/22/2016	59.9		125.9		8.5	
		6/28/2016	58.0		127.8		10.4	
		7/13/2016	56.2		129.6		12.2	
		7/29/2016	59.7		126.1		8.7	
		8/5/2016	56.2		129.5		12.1	
		8/12/2016	56.0		129.7		12.3	
		8/19/2016	56.2		129.5		12.1	
		8/26/2016	55.8		129.9		12.5	
		9/2/2016	56.0		129.7		12.3	
		9/9/2016	55.9		129.8		12.4	
		9/16/2016	55.0		130.7		13.3	
		9/23/2016	55.0		130.7		13.3	
		9/30/2016	55.0		130.7		13.3	
		10/11/2016	55.0		130.7		13.3	
		10/14/2016	55.0		130.7		13.3	
		10/21/2016	54.8		130.9		13.5	
		10/28/2016	54.7		131.0		13.6	
		11/4/2016	54.9		130.8		13.4	
		11/11/2016	54.3		131.4		14.0	
		11/18/2016	54.3		131.4		14.0	
		11/25/2016	54.3		131.4		14.0	
		12/2/2016	54.2		131.5		14.1	
		12/9/2016	54.9		130.8		13.4	
		12/16/2016	54.8		130.9		13.5	
		12/23/2016	54.9		130.8		13.4	
		12/30/2016	55.1		130.6		13.2	
		1/6/2017	54.9		130.8		13.4	
		1/13/2017	54.4		131.3		13.9	
		1/20/2017	55.0		130.7		13.3	
		1/27/2017	55.2		130.5		13.1	
		2/3/2017	55.4		130.3		12.9	
		2/10/2017	55.7		130.0		12.6	
		2/17/2017	55.8		129.9		12.5	
		2/24/2017	55.5		130.2		12.8	
		3/3/2017	55.9		129.8		12.4	
		3/10/2017	55.8		129.9		12.5	
		3/17/2017	56.1		129.6		12.2	
		3/24/2017	56.1		129.6		12.2	
		3/31/2017	55.9		129.8		12.4	
		4/7/2017	56.3		129.4		12.0	
		4/13/2017	56.2		129.5		12.1	
		4/21/2017	56.3		129.4		12.0	
		4/28/2017	56.5		129.2		11.8	
		5/5/2017	56.3		129.4		12.0	
		5/12/2017	56.5		129.2		11.8	
		5/19/2017	56.7		129.0		11.6	
		5/26/2017	56.8		128.9		11.5	
		6/2/2017	56.8		128.9		11.5	
		6/9/2017	57.0		128.7		11.3	
		6/16/2017	56.9		128.8		11.4	
		6/23/2017	57.1		128.6		11.2	
		6/30/2017	57.1		128.6		11.2	
		7/7/2017	57.1		128.6		11.2	
		7/14/2017	57.1		128.6		11.2	
		7/21/2017	56.8		128.9		11.5	
		7/28/2017	56.4		129.3		11.9	
		8/4/2017	56.2		129.5		12.1	
		8/11/2017	55.5		130.2		12.8	
		8/18/2017	55.0		130.7		13.3	

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		8/25/2017	54.5		131.2		13.8	
		9/1/2017	54.4		131.3		13.9	
		9/8/2017	53.8		131.9		14.5	
		9/15/2017	52.8		132.9		15.5	
		9/22/2017	52.0		133.7		16.3	
		9/29/2017	51.6		134.1		16.7	
		10/6/2017	51.4		134.3		16.9	
		10/13/2017	51.6		134.1		16.7	
		10/20/2017	51.8		133.9		16.5	
		10/27/2017	52.3		133.4		16.0	
		11/3/2017	52.7		133.0		15.6	
		11/10/2017	52.9		132.8		15.4	
		11/17/2017	53.2		132.5		15.1	
		11/24/2017	53.1		132.6		15.2	
		12/1/2017	53.8		131.9		14.5	
		12/8/2017	53.7		132.0		14.6	
		12/15/2017	54.0		131.7		14.3	
		12/22/2017	53.8		131.9		14.5	
		12/29/2017	54.3		131.4		14.0	
		1/5/2018	54.7		131.0		13.6	0.2
		1/12/2018	54.3		131.4		14.0	0.1
		1/19/2018	54.9		130.8		13.4	0.1
		1/26/2018	55.1		130.6		13.2	0.1
		2/2/2018	55.0		130.7		13.3	0.4
		2/9/2018	55.2		130.5		13.1	0.5
		2/16/2018	55.2		130.5		13.1	0.6
		2/23/2018	55.4		130.3		12.9	0.1
		3/2/2018	55.3		130.4		13.0	0.6
		3/9/2018	55.5		130.2		12.8	0.3
		3/16/2018	55.6		130.2		12.8	0.5
		3/23/2018	56.0		129.7		12.3	0.1
		3/30/2018	55.7		130.0		12.6	0.2
II	SB-03	4/6/2018	55.9		129.8		12.4	0.4
		4/13/2018	55.9		129.8		12.4	0.3
		4/20/2018	56.2		129.5		12.1	0.1
		4/27/2018	56.1		129.6		12.2	0.4
		5/4/2018	56.4		129.3		11.9	-0.1
		5/11/2018	56.6		129.1		11.7	-0.1
		5/18/2018	56.6		129.1		11.7	0.1
		5/25/2018	56.6		129.1		11.7	0.2
		6/1/2018	56.7		129.0		11.6	0.1
		6/8/2018	56.7		129.0		11.6	0.3
		6/15/2018	56.5		129.2		11.8	0.4
		6/22/2018	56.4		129.3		11.9	0.7
		6/29/2018	56.3		129.4		12.0	0.8
		7/6/2018	56.2		129.5		12.1	0.9
		7/13/2018	55.9		129.8		12.4	1.2
		7/20/2018	55.5		130.2		12.8	1.3
		7/27/2018	55.3		130.4		13.0	1.1
		8/3/2018	55.0		130.7		13.3	1.2
		8/10/2018	54.5		131.2		13.8	1.0
		8/17/2018	54.2		131.5		14.1	0.8
		8/24/2018	53.5		132.2		14.8	1.0
		8/31/2018	53.2		132.5		15.1	1.2
		9/7/2018	52.8		132.9		15.5	1.0
		9/14/2018	52.7		133.0		15.6	0.1
		9/21/2018	52.5		133.2		15.8	-0.5
		9/28/2018	52.4		133.3		15.9	-0.8
		10/5/2018	52.5		133.2		15.8	-1.1
		10/12/2018	52.3		133.4		16.0	-0.7
		10/19/2018	52.2		133.5		16.1	-0.4
		10/26/2018	52.4		133.3		15.9	-0.1
		11/2/2018	52.5		133.2		15.8	0.2
		11/9/2018	See Note 23					

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-05	6/22/2016	51.7	180.19	128.5	118.5	10.0	
		6/28/2016	52.4		127.8		9.3	
		7/13/2016	52.3		127.9		9.4	
		7/29/2016	52.8		127.4		8.9	
		8/5/2016	52.1		128.1		9.6	
		8/12/2016	52.0		128.2		9.7	
		8/19/2016	52.2		128.0		9.5	
		8/26/2016	52.0		128.2		9.7	
		9/2/2016	52.0		128.2		9.7	
		9/9/2016	52.0		128.2		9.7	
		9/16/2016	51.2		129.0		10.5	
		9/23/2016	50.9		129.3		10.8	
		9/30/2016	50.3		129.9		11.4	
		10/11/2016	50.1		130.1		11.6	
		10/14/2016	50.0		130.2		11.7	
		10/21/2016	50.0		130.2		11.7	
		10/28/2016	50.1		130.1		11.6	
		11/4/2016	50.3		129.9		11.4	
		11/11/2016	50.9		129.3		10.8	
		11/18/2016	51.0		129.2		10.7	
		11/25/2016	51.0		129.2		10.7	
		12/2/2016	51.1		129.1		10.6	
		12/9/2016	51.6		128.6		10.1	
		12/16/2016	51.3		128.9		10.4	
		12/23/2016	51.2		129.0		10.5	
		12/30/2016	51.1		129.1		10.6	
		1/6/2017	51.4		128.8		10.3	
		1/13/2017	51.6		128.6		10.1	
		1/20/2017	51.3		128.9		10.4	
		1/27/2017	51.8		128.4		9.9	
		2/3/2017	51.3		128.9		10.4	
		2/10/2017	51.4		128.8		10.3	
		2/17/2017	52.2		128.0		9.5	
		2/24/2017	52.1		128.1		9.6	
		3/3/2017	51.5		128.7		10.2	
		3/10/2017	52.3		127.9		9.4	
		3/17/2017	53.0		127.2		8.7	
		3/24/2017	53.2		127.0		8.5	
		3/31/2017	53.3		126.9		8.4	
		4/7/2017	53.7		126.5		8.0	
		4/13/2017	53.9		126.3		7.8	
		4/21/2017	53.9		126.3		7.8	
		4/28/2017	54.1		126.1		7.6	
		5/5/2017	54.0		126.2		7.7	
		5/12/2017	54.1		126.1		7.6	
		5/19/2017	54.2		126.0		7.5	
		5/26/2017	54.3		125.9		7.4	
		6/2/2017	54.3		125.9		7.4	
		6/9/2017	54.3		125.9		7.4	
		6/16/2017	54.3		125.9		7.4	
		6/23/2017	54.4		125.8		7.3	
		6/30/2017	54.5		125.7		7.2	
		7/7/2017	54.5		125.7		7.2	
		7/14/2017	54.6		125.6		7.1	
		7/21/2017	54.6		125.6		7.1	
		7/28/2017	54.3		125.9		7.4	
		8/4/2017	53.9		126.3		7.8	
		8/11/2017	53.1		127.1		8.6	
		8/18/2017	54.2		126.0		7.5	
		8/25/2017	51.1		129.1		10.6	
		9/1/2017	52.1		128.1		9.6	
		9/8/2017	51.4		128.8		10.3	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-05	9/15/2017	50.8		129.4		10.9	
		9/22/2017	50.0		130.2		11.7	
		9/29/2017	50.0		130.2		11.7	
		10/6/2017	50.3		129.9		11.4	
		10/13/2017	50.3		129.9		11.4	
		10/20/2017	51.2		129.0		10.5	
		10/27/2017	51.5		128.7		10.2	
		11/3/2017	51.8		128.4		9.9	
		11/10/2017	51.9		128.3		9.8	
		11/17/2017	52.5		127.7		9.2	
		11/24/2017	52.3		127.9		9.4	
		12/1/2017	52.7		127.5		9.0	
		12/8/2017	52.8		127.4		8.9	
		12/15/2017	52.9		127.3		8.8	
		12/22/2017	52.8		127.4		8.9	
		12/29/2017	53.2		127.0		8.5	
		1/5/2018	53.3		126.9		8.4	-1.9
		1/12/2018	53.0		127.2		8.7	-1.4
		1/19/2018	53.3		126.9		8.4	-2.0
		1/26/2018	53.4		126.8		8.3	-1.6
		2/2/2018	53.3		126.9		8.4	-2.0
		2/9/2018	53.4		126.8		8.3	-2.0
		2/16/2018	53.3		126.9		8.4	-1.1
		2/23/2018	53.4		126.8		8.3	-1.3
		3/2/2018	53.5		126.7		8.2	-2.0
		3/9/2018	53.6		126.6		8.1	-1.3
		3/16/2018	53.6		126.6		8.1	-0.6
		3/23/2018	53.9		126.3		7.8	-0.7
		3/30/2018	53.7		126.5		8.0	-0.4
		4/6/2018	53.8		126.4		7.9	-0.1
		4/13/2018	53.9		126.3		7.8	0.0
		4/20/2018	53.9		126.3		7.8	0.0
		4/27/2018	53.9		126.3		7.8	0.2
		5/4/2018	54.0		126.2		7.7	0.0
		5/11/2018	54.1		126.1		7.6	0.0
		5/18/2018	54.1		126.1		7.6	0.1
		5/25/2018	54.9		125.3		6.8	-0.6
		6/1/2018	54.3		125.9		7.4	0.0
		6/8/2018	54.4		125.8		7.3	-0.1
		6/15/2018	54.4		125.8		7.3	-0.1
		6/22/2018	54.4		125.8		7.3	0.0
		6/29/2018	54.4		125.8		7.3	0.1
		7/6/2018	54.4		125.8		7.3	0.1
		7/13/2018	53.9		126.3		7.8	0.7
		7/20/2018	53.7		126.5		8.0	0.9
		7/27/2018	53.4		126.8		8.3	0.9
		8/3/2018	53.4		126.8		8.3	0.5
		8/10/2018	53.8		126.4		7.9	-0.7
		8/17/2018	52.4		127.8		9.3	1.8
		8/24/2018	51.8		128.4		9.9	-0.7
		8/31/2018	51.6		128.6		10.1	0.5
		9/7/2018	51.3		128.9		10.4	0.1
		9/14/2018	51.2		129.0		10.5	-0.4
		9/21/2018	51.4		128.8		10.3	-1.4
		9/28/2018	51.4		128.8		10.3	-1.4
		10/5/2018	51.3		128.9		10.4	-1.0
		10/12/2018	51.3		128.9		10.4	-1.0
		10/19/2018	51.2		129.0		10.5	0.0
		10/26/2018	51.3		128.9		10.4	0.2
		11/2/2018	51.7		128.5		10.0	0.1
		11/9/2018	See Note 23					

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-15D	2/21/2017	55.8	184.44	128.6	117.0	11.6	
		2/23/2017	57.75		126.7		9.7	
		2/24/2017	57.9		126.5		9.5	
		3/3/2017	58.6		125.8		8.8	
		3/10/2017	58.4		126.0		9.0	
		3/17/2017	59.0		125.4		8.4	
		3/24/2017	59.3		125.1		8.1	
		3/31/2017	59.4		125.0		8.0	
		4/7/2017	59.8		124.6		7.6	
		4/13/2017	59.9		124.5		7.5	
		4/21/2017	59.9		124.5		7.5	
		4/28/2017	60.2		124.2		7.2	
		5/5/2017	59.9		124.5		7.5	
		5/12/2017	60.2		124.2		7.2	
		5/19/2017	60.4		124.0		7.0	
		5/26/2017	60.5		123.9		6.9	
		6/2/2017	60.5		123.9		6.9	
		6/9/2017	60.4		124.0		7.0	
		6/16/2017	60.5		123.9		6.9	
		6/23/2017	60.6		123.8		6.8	
		6/30/2017	60.7		123.7		6.7	
		7/7/2017	60.6		123.8		6.8	
		7/14/2017	60.7		123.7		6.7	
		7/21/2017	60.8		123.6		6.6	
		7/28/2017	60.7		123.7		6.7	
		8/4/2017	60.9		123.5		6.5	
		8/11/2017	60.7		123.7		6.7	
		8/18/2017	60.7		123.7		6.7	
		8/25/2017	60.5		123.9		6.9	
		9/1/2017	60.5		123.9		6.9	
		9/8/2017	60.1		124.3		7.3	
		9/15/2017	59.7		124.7		7.7	
		9/22/2017	59.1		125.3		8.3	
		9/29/2017	58.8		125.6		8.6	
		10/6/2017	58.7		125.7		8.7	
		10/13/2017	58.6		125.8		8.8	
		10/20/2017	58.8		125.6		8.6	
		10/27/2017	59.0		125.4		8.4	
		11/3/2017	59.3		125.1		8.1	
		11/10/2017	59.4		125.0		8.0	
		11/17/2017	59.6		124.8		7.8	
		11/24/2017	59.6		124.8		7.8	
		12/1/2017	60.0		124.4		7.4	
		12/8/2017	59.8		124.6		7.6	
		12/15/2017	60.0		124.4		7.4	
		12/22/2017	60.1		124.3		7.3	
		12/29/2017	60.1		124.3		7.3	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-15D	1/5/2018	60.4		124.0		7.0	
		1/12/2018	60.0		124.4		7.4	
		1/19/2018	60.4		124.0		7.0	
		1/26/2018	60.4		124.0		7.0	
		2/2/2018	60.3		124.1		7.1	
		2/9/2018	60.4		124.0		7.0	
		2/16/2018	60.3		124.1		7.1	
		2/23/2018	60.5		123.9		6.9	
		3/2/2018	60.4		124.0		7.0	
		3/9/2018	60.4		124.0		7.0	
		3/16/2018	60.3		124.1		7.1	
		3/23/2018	60.4		124.0		7.0	
		3/30/2018	60.6		123.8	See Note 16	6.8	
		4/6/2018	60.6		123.8		6.8	-0.8
		4/13/2018	60.8		123.6		6.6	-0.9
		4/20/2018	60.8		123.6		6.6	-0.9
		4/27/2018	60.7		123.7		6.7	-0.5
		5/4/2018	61.0		123.4		6.4	-1.1
		5/11/2018	61.0		123.4		6.4	-0.8
		5/18/2018	60.9		123.5		6.5	-0.5
		5/25/2018	60.9		123.5		6.5	-0.4
		6/1/2018	60.9		123.5		6.5	-0.4
		6/8/2018	61.1		123.3		6.3	-0.7
		6/15/2018	61.0		123.4		6.4	-0.5
		6/22/2018	61.0		123.4		6.4	-0.4
		6/29/2018	61.0		123.4		6.4	-0.3
		7/6/2018	61.1		123.3		6.3	-0.5
		7/13/2018	61.0		123.4		6.4	-0.3
		7/20/2018	60.9		123.5		6.5	-0.1
		7/27/2018	60.9		123.5		6.5	-0.2
		8/3/2018	61.0		123.4		6.4	-0.1
		8/10/2018	60.8		123.6		6.6	-0.1
		8/17/2018	60.8		123.6		6.6	-0.1
		8/24/2018	60.3		124.1		7.1	0.2
		8/31/2018	60.3		124.1		7.1	0.2
		9/7/2018	60.0		124.4		7.4	0.1
		9/14/2018	60.0		124.4		7.4	-0.3
		9/21/2018	59.9		124.5		7.5	-0.8
		9/28/2018	59.8		124.6		7.6	-1.0
		10/5/2018	59.7		124.7		7.7	-1.0
		10/12/2018	59.5		124.9		7.9	-0.9
		10/19/2018	59.5		124.9		7.9	-0.7
		10/26/2018	59.4		125.0		8.0	-0.4
		11/2/2018	59.4		125.0		8.0	-0.1
		11/9/2018	59.5		124.9		7.9	-0.1
		11/16/2018	59.6		124.8		7.8	0.0
		11/23/2018	59.4		125.0		8.0	0.2
		11/30/2018	59.5		124.9		7.9	0.5

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-16D	2/16/2017	54.5	183.60	129.1	117.2	11.9	
		2/17/2017	58.36		125.2		8.0	
		2/20/2017	58.3		125.3		8.1	
		2/23/2017	57.65		126.0		8.7	
		2/24/2017	57.8		125.8		8.6	
		3/3/2017	58.4		125.2		8.0	
		3/10/2017	58.2		125.4		8.2	
		3/17/2017	59.6		124.0		6.8	
		3/24/2017	59.9		123.7		6.5	
		3/31/2017	59.7		123.9		6.7	
		4/7/2017	60.3		123.3		6.1	
		4/13/2017	60.3		123.3		6.1	
		4/21/2017	60.3		123.3		6.1	
		4/28/2017	60.5		123.1		5.9	
		5/5/2017	60.2		123.4		6.2	
		5/12/2017	60.4		123.2		6.0	
		5/19/2017	60.4		123.2		6.0	
		5/26/2017	60.7		122.9		5.7	
		6/2/2017	60.6		123.0		5.8	
		6/9/2017	60.6		123.0		5.8	
		6/16/2017	60.6		123.0		5.8	
		6/23/2017	60.6		123		5.8	
		6/30/2017	60.7		122.9		5.7	
		7/7/2017	60.7		122.9		5.7	
		7/14/2017	60.6		123.0		5.8	
		7/21/2017	60.7		122.9		5.7	
		7/28/2017	60.5		123.1		5.9	
		8/4/2017	60.4		123.2		6.0	
		8/11/2017	59.7		123.9		6.7	
		8/18/2017	60.0		123.6		6.4	
		8/25/2017	61.0		122.6		5.4	
		9/1/2017	60.2		123.4		6.2	
		9/8/2017	59.6		124.0		6.8	
		9/15/2017	59.3		124.3		7.1	
		9/22/2017	58.6		125.0		7.8	
		9/29/2017	58.5		125.1		7.9	
		10/6/2017	58.5		125.1		7.9	
		10/13/2017	58.8		124.8		7.6	
		10/20/2017	59.4		124.2		7.0	
		10/27/2017	59.6		124.0		6.8	
		11/3/2017	59.7		123.9		6.7	
		11/10/2017	59.7		123.9		6.7	
		11/17/2017	59.9		123.7		6.5	
		11/24/2017	59.8		123.8		6.6	
		12/1/2017	59.6		124.0		6.8	
		12/8/2017	60.1		123.5		6.3	
		12/15/2017	60.3		123.3		6.1	
		12/22/2017	60.4		123.2		6.0	
		12/29/2017	60.4		123.2		6.0	

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-16D	1/5/2018	60.4		123.2		6.0	
		1/12/2018	59.8		123.8		6.6	
		1/19/2018	60.1		123.5		6.3	
		1/26/2018	60.1		123.5		6.3	
		2/2/2018	60.0		123.6		6.4	
		2/9/2018	60.0		123.6		6.4	
		2/16/2018	60.0		123.6		6.4	
		2/23/2018	60.1		123.5		6.3	
		3/2/2018	60.0		123.6		6.4	
		3/9/2018	60.1		123.5		6.3	
		3/16/2018	60.1		123.5		6.3	
		3/23/2018	60.4		123.2		6.0	
		3/30/2018	60.1		123.5	See Note 16	6.3	
		4/6/2018	60.2		123.4		6.2	0.1
		4/13/2018	60.3		123.3		6.1	0.0
		4/20/2018	60.1		123.5		6.3	0.2
		4/27/2018	60.1		123.5		6.3	0.4
		5/4/2018	60.3		123.3		6.1	-0.1
		5/11/2018	60.3		123.3		6.1	0.1
		5/18/2018	60.2		123.4		6.2	0.2
		5/25/2018	60.2		123.4		6.2	0.5
		6/1/2018	60.3		123.3		6.1	0.3
		6/8/2018	60.4		123.2		6.0	0.2
		6/15/2018	60.3		123.3		6.1	0.3
		6/22/2018	60.3		123.3		6.1	0.3
		6/29/2018	60.2		123.4		6.2	0.5
		7/6/2018	60.3		123.3		6.1	0.4
		7/13/2018	60.3		123.3		6.1	0.3
		7/20/2018	60.2		123.4		6.2	0.5
		7/27/2018	60.2		123.4		6.2	0.3
		8/3/2018	60.2		123.4		6.2	0.2
		8/10/2018	60.0		123.6		6.4	-0.3
		8/17/2018	60.0		123.6		6.4	0.0
		8/24/2018	59.7		123.9		6.7	1.3
		8/31/2018	59.6		124.0		6.8	0.6
		9/7/2018	59.5		124.1		6.9	0.1
		9/14/2018	59.4		124.2		7.0	-0.1
		9/21/2018	59.7		123.9		6.7	-1.1
		9/28/2018	59.5		124.1		6.9	-1.0
		10/5/2018	59.5		124.1		6.9	-1.0
		10/12/2018	59.4		124.2		7.0	-0.6
		10/19/2018	59.4		124.2		7.0	0.0
		10/26/2018	59.3		124.3		7.1	0.3
		11/2/2018	59.4		124.2		7.0	0.3
		11/9/2018	59.4		124.2		7.0	0.3
		11/16/2018	59.5		124.1		6.9	0.4
		11/23/2018	59.2		124.4		7.2	0.6
		11/30/2018	59.4		124.2		7.0	0.2

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-17D	2/16/2017	60.3	185.47	125.2	119.6	5.6	
		2/17/2017	60.31		125.2		5.6	
		2/20/2017	60.2		125.3		5.7	
		2/23/2017	59.90		125.6		6.0	
		2/24/2017	60.1		125.4		5.8	
		3/3/2017	60.7		124.8		5.2	
		3/10/2017	60.6		124.9		5.3	
		3/17/2017	60.9		124.6		5.0	
		3/24/2017	60.9		124.6		5.0	
		3/31/2017	60.6		124.9		5.3	
		4/7/2017	61.0		124.5		4.9	
		4/13/2017	61.1		124.4		4.8	
		4/21/2017	61.2		124.3		4.7	
		4/28/2017	61.3		124.2		4.6	
		5/5/2017	61.1		124.4		4.8	
		5/12/2017	61.3		124.2		4.6	
		5/19/2017	61.3		124.2		4.6	
		5/26/2017	61.5		124.0		4.4	
		6/2/2017	61.5		124.0		4.4	
		6/9/2017	61.5		124.0		4.4	
		6/16/2017	61.6		123.9		4.3	
		6/23/2017	61.7		123.8		4.2	
		6/30/2017	61.8		123.7		4.1	
		7/7/2017	61.8		123.7		4.1	
		7/14/2017	61.8		123.7		4.1	
		7/21/2017	61.8		123.7		4.1	
		7/28/2017	61.7		123.8		4.2	
		8/4/2017	61.6		123.9		4.3	
		8/11/2017	61.7		123.8		4.2	
		8/18/2017	61.5		124.0		4.4	
		8/25/2017	60.8		124.7		5.1	
		9/1/2017	60.8		124.7		5.1	
		9/8/2017	60.1		125.4		5.8	
		9/15/2017	59.3		126.2		6.6	
		9/22/2017	58.3		127.2		7.6	
		9/29/2017	57.6		127.9		8.3	
		10/6/2017	57.1		128.4		8.8	
		10/13/2017	57.2		128.3		8.7	
		10/20/2017	57.2		128.3		8.7	
		10/27/2017	57.9		127.6		8.0	
		11/3/2017	58.5		127.0		7.4	
		11/10/2017	58.6		126.9		7.3	
		11/17/2017	58.9		126.6		7.0	
		11/24/2017	58.8		126.7		7.1	
		12/1/2017	59.6		125.9		6.3	
		12/8/2017	59.3		126.2		6.6	
		12/15/2017	59.4		126.1		6.5	
		12/22/2017	59.6		125.9		6.3	
		12/29/2017	59.7		125.8		6.2	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-17D	1/5/2018	60.3		125.2		5.6	
		1/12/2018	60.0		125.5		5.9	
		1/19/2018	60.8		124.7		5.1	
		1/26/2018	60.9		124.6		5.0	
		2/2/2018	60.9		124.6		5.0	
		2/9/2018	61.1		124.4		4.8	
		2/16/2018	61.1		124.4		4.8	
		2/23/2018	61.2		124.3		4.7	
		3/2/2018	61.2		124.3		4.7	
		3/9/2018	61.3		124.2		4.6	
		3/16/2018	61.4		124.1		4.5	
		3/23/2018	61.8		123.7		4.1	
		3/30/2018	61.8		123.7	See Note 16	4.1	
		4/6/2018	61.8		123.7		4.1	-0.8
		4/13/2018	61.9		123.6		4.0	-0.8
		4/20/2018	62.1		123.4		3.8	-0.9
		4/27/2018	62.0		123.5		3.9	-0.7
		5/4/2018	62.2		123.3		3.7	-1.1
		5/11/2018	62.3		123.2		3.6	-1.0
		5/18/2018	62.2		123.3		3.7	-0.9
		5/25/2018	62.7		122.8		3.2	-1.2
		6/1/2018	62.4		123.1		3.5	-0.9
		6/8/2018	62.5		123.0		3.4	-1.0
		6/15/2018	62.4		123.1		3.5	-0.8
		6/22/2018	62.4		123.1		3.5	-0.7
		6/29/2018	62.4		123.1		3.5	-0.6
		7/6/2018	62.4		123.1		3.5	-0.6
		7/13/2018	62.3		123.2		3.6	-0.5
		7/20/2018	62.0		123.5		3.9	-0.2
		7/27/2018	61.9		123.6		4.0	-0.2
		8/3/2018	61.7		123.8		4.2	-0.1
		8/10/2018	61.4		124.1		4.5	0.3
		8/17/2018	61.2		124.3		4.7	0.3
		8/24/2018	60.5		125.0		5.4	0.3
		8/31/2018	60.1		125.4		5.8	0.7
		9/7/2018	59.7		125.8		6.2	0.4
		9/14/2018	59.5		126.0		6.4	-0.2
		9/21/2018	59.4		126.1		6.5	-1.1
		9/28/2018	59.2		126.3		6.7	-1.6
		10/5/2018	59.0		126.5		6.9	-1.9
		10/12/2018	58.8		126.7		7.1	-1.6
		10/19/2018	59.2		126.3		6.7	-2.0
		10/26/2018	58.7		126.8		7.2	-0.8
		11/2/2018	58.7		126.8		7.2	-0.2
		11/9/2018	58.6		126.9		7.3	0.0
		11/16/2018	58.7		126.8		7.2	0.2
		11/23/2018	58.5		127.0		7.4	0.3
		11/30/2018	58.7		126.8		7.2	0.9

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		2/16/2017	55.1	182.71	127.6	120.3	7.3	
		2/17/2017	58.91		123.8		3.5	
		2/20/2017	58.8		123.9		3.6	
		2/23/2017	58.70		124.0		3.7	
		2/24/2017	58.9		123.8		3.5	
		3/3/2017	59.2		123.5		3.2	
		3/10/2017	59.2		123.5		3.2	
		3/17/2017	59.4		123.3		3.0	
		3/24/2017	59.6		123.1		2.8	
		3/31/2017	59.2		123.5		3.2	
		4/7/2017	59.5		123.2		2.9	
		4/13/2017	59.7		123.0		2.7	
		4/21/2017	59.5		123.2		2.9	
		4/28/2017	59.7		123.0		2.7	
		5/5/2017	59.5		123.2		2.9	
		5/12/2017	59.6		123.1		2.8	
		5/19/2017	59.7		123.0		2.7	
		5/26/2017	59.7		123.0		2.7	
		6/2/2017	59.6		123.1		2.8	
		6/9/2017	59.5		123.2		2.9	
		6/16/2017	59.5		123.2		2.9	
		6/23/2017	59.6		123.1		2.8	
		6/30/2017	59.8		122.9		2.6	
		7/7/2017	59.7		123.0		2.7	
II	SB-18D	7/14/2017	59.7		123.0		2.7	
		7/21/2017	60.1		122.6		2.3	
		7/28/2017	60.0		122.7		2.4	
		8/4/2017	60.2		122.5		2.2	
		8/11/2017	60.1		122.6		2.3	
		8/18/2017	60.0		122.7		2.4	
		8/25/2017	59.9		122.8		2.5	
		9/1/2017	59.7		123.0		2.7	
		9/8/2017	59.1		123.6		3.3	
		9/15/2017	58.1		124.6		4.3	
		9/22/2017	57.0		125.7		5.4	
		9/29/2017	56.2		126.5		6.2	
		10/6/2017	56.5		126.2		5.9	
		10/13/2017	56.4		126.3		6.0	
		10/20/2017	56.7		126.0		5.7	
		10/27/2017	58.0		124.7		4.4	
		11/3/2017	58.2		124.5		4.2	
		11/10/2017	58.1		124.6		4.3	
		11/17/2017	58.4		124.3		4.0	
		11/24/2017	58.4		124.3		4.0	
		12/1/2017	58.7		124.0		3.7	
		12/8/2017	58.7		124.0		3.7	
		12/15/2017	58.5		124.2		3.9	
		12/22/2017	58.8		123.9		3.6	
		12/29/2017	59.1		123.6		3.3	

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-18D	1/5/2018	59.7		123.0		2.7	
		1/12/2018	59.5		123.2		2.9	
		1/19/2018	60.0		122.7		2.4	
		1/26/2018	60.0		122.7		2.4	
		2/2/2018	60.0		122.7		2.4	
		2/9/2018	59.9		122.8		2.5	
		2/16/2018	60.0		122.7		2.4	
		2/23/2018	60.1		122.6		2.3	
		3/2/2018	60.0		122.7		2.4	
		3/9/2018	60.0		122.7		2.4	
		3/16/2018	60.1		122.6		2.3	
		3/23/2018	60.3		122.4		2.1	
		3/30/2018	60.2		122.5	See Note 16	2.2	
		4/6/2018	60.2		122.5		2.2	-0.7
		4/13/2018	60.6		122.1		1.8	-0.9
		4/20/2018	60.6		122.1		1.8	-1.1
		4/27/2018	60.5		122.2		1.9	-0.8
		5/4/2018	60.7		122.0		1.7	-1.2
		5/11/2018	60.8		121.9		1.6	-1.2
		5/18/2018	60.7		122.0		1.7	-1.0
		5/25/2018	60.7		122.0		1.7	-1.0
		6/1/2018	60.8		121.9		1.6	-1.2
		6/8/2018	60.7		122.0		1.7	-1.2
		6/15/2018	60.7		122.0		1.7	-1.2
		6/22/2018	60.7		122.0		1.7	-1.1
		6/29/2018	60.7		122.0		1.7	-0.9
		7/6/2018	60.7		122.0		1.7	-1.0
		7/13/2018	60.6		122.1		1.8	-0.9
		7/20/2018	60.4		122.3		2.0	-0.3
		7/27/2018	60.4		122.3		2.0	-0.4
		8/3/2018	60.2		122.5		2.2	0.0
		8/10/2018	60.1		122.6		2.3	0.0
		8/17/2018	60.0		122.7		2.4	0.0
		8/24/2018	59.6		123.1		2.8	0.3
		8/31/2018	59.4		123.3		3.0	0.3
		9/7/2018	59.1		123.6		3.3	0.0
		9/14/2018	58.9		123.8		3.5	-0.8
		9/21/2018	58.7		124.0		3.7	-1.7
		9/28/2018	58.5		124.2		3.9	-2.3
		10/5/2018	58.4		124.3		4.0	-1.9
		10/12/2018	58.4		124.3		4.0	-2.0
		10/19/2018	58.4		124.3		4.0	-1.7
		10/26/2018	58.2		124.5		4.2	-0.2
		11/2/2018	57.9		124.8		4.5	0.3
		11/9/2018	57.7		125.0		4.7	0.4
		11/16/2018	57.8		124.9		4.6	0.6
		11/23/2018	57.7		125.0		4.7	0.7
		11/30/2018	57.8		124.9		4.6	0.9

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
III	SB-19D	2/16/2017	87.5	203.06	115.6	114.2	1.4	
		2/17/2017	87.30		115.8		1.6	
		2/20/2017	87.2		115.9		1.7	
		2/23/2017	87.10		116.0		1.8	
		2/24/2017	86.5		116.6		2.4	
		3/3/2017	87.3		115.8		1.6	
		3/10/2017	87.2		115.9		1.7	
		3/17/2017	87.3		115.8		1.6	
		3/24/2017	87.3		115.8		1.6	
		3/31/2017	87.2		115.9		1.7	
		4/7/2017	87.3		115.8		1.6	
		4/13/2017	87.3		115.8		1.6	
		4/21/2017	87.4		115.7		1.5	
		4/28/2017	87.4		115.7		1.5	
		5/5/2017	87.2		115.9		1.7	
		5/12/2017	87.3		115.8		1.6	
		5/19/2017	87.4		115.7		1.5	
		5/26/2017	87.4		115.7		1.5	
		6/2/2017	87.3		115.8		1.6	
		6/9/2017	87.1		116.0		1.8	
		6/16/2017	86.4		116.7		2.5	
		6/23/2017	86.5		116.6		2.4	
		6/30/2017	87.1		116.0		1.8	
		7/7/2017	86.9		116.2		2.0	
		7/14/2017	86.7		116.4		2.2	
		7/21/2017	86.7		116.4		2.2	
		7/28/2017	87.0		116.1		1.9	
		8/4/2017	86.5		116.6		2.4	
		8/11/2017	86.8		116.3		2.1	
		8/18/2017	86.8		116.3		2.1	
		8/25/2017	86.8		116.3		2.1	
		9/1/2017	86.3		116.8		2.6	
		9/8/2017	86.2		116.9		2.7	
		9/15/2017	85.6		117.5		3.3	
		9/22/2017	85.7		117.4		3.2	
		9/29/2017	85.8		117.3		3.1	
		10/6/2017	85.8		117.3		3.1	
		10/13/2017	86.3		116.8		2.6	
		10/20/2017	86.6		116.5		2.3	
		10/27/2017	86.9		116.2		2.0	
		11/3/2017	87.0		116.1		1.9	
		11/10/2017	86.9		116.2		2.0	
		11/17/2017	87.0		116.1		1.9	
		11/24/2017	87.1		116.0		1.8	
		12/1/2017	87.1		116.0		1.8	
		12/8/2017	87.0		116.1		1.9	
		12/15/2017	87.0		116.1		1.9	
		12/22/2017	87.2		115.9		1.7	
		12/29/2017	87.1		116.0		1.8	

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
III	SB-19D	1/5/2018	87.3		115.8		1.6	
		1/12/2018	87.0		116.1		1.9	
		1/19/2018	87.3		115.8		1.6	
		1/26/2018	87.2		115.9		1.7	
		2/2/2018	87.2		115.9		1.7	
		2/9/2018	87.2		115.9		1.7	
		2/16/2018	87.1		116.0		1.8	
		2/23/2018	87.2		115.9		1.7	
		3/2/2018	87.2		115.9		1.7	
		3/9/2018	87.2		115.9		1.7	
		3/16/2018	87.2		115.9		1.7	
		3/23/2018	87.4		115.7		1.5	
		3/30/2018	87.1		116.0	See Note 16	1.8	
		4/6/2018	87.2		115.9		1.7	0.1
		4/13/2018	87.2		115.9		1.7	0.1
		4/20/2018	87.2		115.9		1.7	0.2
		4/27/2018	87.1		116.0		1.8	0.3
		5/4/2018	87.2		115.9		1.7	0.0
		5/11/2018	87.2		115.9		1.7	0.1
		5/18/2018	87.2		115.9		1.7	0.2
		5/25/2018	87.0		116.1		1.9	0.4
		6/1/2018	87.0		116.1		1.9	0.3
		6/8/2018	87.1		116.0		1.8	0.0
		6/15/2018	87.1		116.0		1.8	-0.7
		6/22/2018	87.1		116.0		1.8	-0.6
		6/29/2018	87.1		116.0		1.8	0.0
		7/6/2018	87.1		116.0		1.8	-0.2
		7/13/2018	87.1		116.0		1.8	-0.4
		7/20/2018	87.1		116.0		1.8	-0.4
		7/27/2018	87.0		116.1		1.9	0.0
		8/3/2018	87.0		116.1		1.9	-0.5
		8/10/2018	87.0		116.1		1.9	-0.2
		8/17/2018	86.9		116.2		2.0	-0.1
		8/24/2018	86.8		116.3		2.1	0.0
		8/31/2018	86.7		116.4		2.2	-0.4
		9/7/2018	86.7		116.4		2.2	-0.5
		9/14/2018	86.8		116.3		2.1	-1.2
		9/21/2018	86.9		116.2		2.0	-1.2
		9/28/2018	87.0		116.1		1.9	-1.2
		10/5/2018	86.9		116.2		2.0	-1.1
		10/12/2018	86.9		116.2		2.0	-0.6
		10/19/2018	87.0		116.1		1.9	-0.4
		10/26/2018	86.6		116.5		2.3	0.3
		11/2/2018	86.9		116.2		2.0	0.1
		11/9/2018	87.0		116.1		1.9	-0.1
		11/16/2018	87.1		116.0		1.8	-0.1
		11/23/2018	87.0		116.1		1.9	0.1
		11/30/2018	87.0		116.1		1.9	0.1

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
III	SB-19S	3/3/2017	78.6	203.36	DRY	N/A	N/A	
		3/10/2017	78.6		DRY		N/A	
		3/17/2017	78.5		DRY		N/A	
		3/24/2017	78.5		DRY		N/A	
		3/31/2017	78.5		DRY		N/A	
		4/7/2017	78.4		DRY		N/A	
		4/13/2017	78.5		DRY		N/A	
		4/21/2017	78.6		DRY		N/A	
		4/28/2017	78.5		DRY		N/A	
		5/5/2017	78.5		DRY		N/A	
		5/12/2017	78.6		DRY		N/A	
		5/19/2017	78.5		DRY		N/A	
		5/26/2017	78.5		DRY		N/A	
		6/2/2017	78.5		DRY		N/A	
		6/9/2017	78.5		DRY		N/A	
		6/16/2017	78.5		DRY		N/A	
		6/23/2017	78.5		DRY		N/A	
		6/30/2017	78.5		DRY		N/A	
		7/7/2017	78.6		DRY		N/A	
		7/14/2017	78.6		DRY		N/A	
		7/21/2017	78.6		DRY		N/A	
		7/28/2017	78.6		DRY		N/A	
		8/4/2017	78.5		DRY		N/A	
		8/11/2017	78.5		DRY		N/A	
		8/18/2017	78.6		DRY		N/A	
		8/25/2017	78.6		DRY		N/A	
		9/1/2017	78.6		DRY		N/A	
		9/8/2017	78.5		DRY		N/A	
		9/15/2017	78.4		DRY		N/A	
		9/22/2017	78.4		DRY		N/A	
		9/29/2017	78.5		DRY		N/A	
		10/6/2017	78.5		DRY		N/A	
		10/13/2017	78.6		DRY		N/A	
		10/20/2017	78.5		DRY		N/A	
		10/27/2017	78.5		DRY		N/A	
		11/3/2017	78.5		DRY		N/A	
		11/10/2017	78.4		DRY		N/A	
		11/17/2017	78.4		DRY		N/A	
		11/24/2017	78.5		DRY		N/A	
		12/1/2017	78.5		DRY		N/A	
		12/8/2017	78.5		DRY		N/A	
		12/15/2017	78.5		DRY		N/A	
		12/22/2017	78.5		DRY		N/A	
		12/29/2017	78.5		DRY		N/A	
		1/5/2018	78.5		DRY		N/A	
		1/12/2018	78.5		DRY		N/A	
		1/19/2018	78.6		DRY		N/A	
		1/26/2018	78.5		DRY		N/A	
		2/2/2018	78.5		DRY		N/A	
		2/9/2018	78.5		DRY		N/A	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
III	SB-19S	2/16/2018	78.5		DRY		N/A	
		2/23/2018	78.5		DRY		N/A	
		3/2/2018	78.6		DRY		N/A	
		3/9/2018	78.5		DRY		N/A	
		3/16/2018	78.5		DRY		N/A	
		3/23/2018	78.6		DRY		N/A	
		3/30/2018	78.6		DRY		N/A	
		4/6/2018	78.6		DRY		N/A	
		4/13/2018	78.6		DRY		N/A	
		4/20/2018	78.6		DRY		N/A	
		4/27/2018	78.5		DRY		N/A	
		5/4/2018	78.6		DRY		N/A	
		5/11/2018	78.6		DRY		N/A	
		5/18/2018	78.6		DRY		N/A	
		5/25/2018	78.6		DRY		N/A	
		6/1/2018	78.6		DRY		N/A	
		6/8/2018	78.5		DRY		N/A	
		6/15/2018	78.6		DRY		N/A	
		6/22/2018	78.6		DRY		N/A	
		6/29/2018	78.6		DRY		N/A	
		7/6/2018	78.6		DRY		N/A	
		7/13/2018	78.6		DRY		N/A	
		7/20/2018	78.6		DRY		N/A	
		7/27/2018	78.6		DRY		N/A	
		8/3/2018	78.6		DRY		N/A	
		8/10/2018	78.6		DRY		N/A	
		8/17/2018	78.6		DRY		N/A	
		8/24/2018	78.6		DRY		N/A	
		8/31/2018	78.6		DRY		N/A	
		9/7/2018	78.6		DRY		N/A	
		9/14/2018	78.7		DRY		N/A	
		9/21/2018	78.7		DRY		N/A	
		10/5/2018	78.7		DRY		N/A	
		10/12/2018	78.7		DRY		N/A	
		10/19/2018	78.7		DRY		N/A	
		10/26/2018	78.7		DRY		N/A	
		8/24/2018	78.7		DRY		N/A	
		11/9/2018	See Note 23					

Appendix C - Water Level Data
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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
III	SB-20D	2/16/2017	74.4	192.86	118.5	115.0	3.5	
		2/17/2017	75.83		117.0		2.0	
		2/20/2017	75.7		117.2		2.2	
		2/23/2017	75.65		117.2		2.2	
		2/24/2017	75.7		117.2		2.2	
		3/3/2017	75.9		117.0		2.0	
		3/10/2017	75.8		117.1		2.1	
		3/17/2017	75.7		117.2		2.2	
		3/24/2017	75.9		117.0		2.0	
		3/31/2017	75.8		117.1		2.1	
		4/7/2017	75.9		117.0		2.0	
		4/13/2017	76.0		116.9		1.9	
		4/21/2017	75.9		117.0		2.0	
		4/28/2017	76.1		116.8		1.8	
		5/5/2017	75.9		117.0		2.0	
		5/12/2017	76.0		116.9		1.9	
		5/19/2017	76.1		116.8		1.8	
		5/26/2017	76.0		116.9		1.9	
		6/2/2017	76.0		116.9		1.9	
		6/9/2017	76.1		116.8		1.8	
		6/9/2017	76.1		116.8		1.8	
		6/16/2017	76.1		116.8		1.8	
		6/23/2017	76.1		116.8		1.8	
		6/30/2017	76.2		116.7		1.7	
		7/7/2017	76.2		116.7		1.7	
		7/14/2017	76.1		116.8		1.8	
		7/21/2017	76.1		116.8		1.8	
		7/28/2017	76.0		116.9		1.9	
		8/4/2017	76.1		116.8		1.8	
		8/11/2017	76.1		116.8		1.8	
		8/18/2017	75.9		117.0		2.0	
		8/25/2017	75.8		117.1		2.1	
		9/1/2017	75.8		117.1		2.1	
		9/8/2017	75.8		117.1		2.1	
		9/15/2017	75.6		117.3		2.3	
		9/22/2017	75.6		117.3		2.3	
		9/29/2017	75.2		117.7		2.7	
		10/6/2017	75.1		117.8		2.8	
		10/13/2017	75.1		117.8		2.8	
		10/20/2017	75.0		117.9		2.9	
		10/27/2017	75.0		117.9		2.9	
		11/3/2017	74.9		118.0		3.0	
		11/10/2017	74.8		118.1		3.1	
		11/17/2017	74.8		118.1		3.1	
		11/24/2017	74.8		118.1		3.1	
		12/1/2017	74.8		118.1		3.1	
		12/8/2017	74.7		118.2		3.2	
		12/15/2017	74.8		118.1		3.1	
		12/22/2017	75.0		117.9		2.9	
		12/29/2017	75.0		117.9		2.9	

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
III	SB-20D	1/5/2018	75.1		117.8		2.8	
		1/12/2018	74.8		118.1		3.1	
		1/19/2018	75.0		117.9		2.9	
		1/26/2018	75.0		117.9		2.9	
		2/2/2018	74.9		118.0		3.0	
		2/9/2018	74.9		118.0		3.0	
		2/16/2018	74.8		118.1		3.1	
		2/23/2018	74.8		118.1		3.1	
		3/2/2018	74.7		118.2		3.2	
		3/9/2018	74.6		118.3		3.3	
		3/16/2018	74.5		118.4		3.4	
		3/23/2018	74.6		118.3		3.3	
		3/30/2018	74.3		118.6	See Note 16	3.6	
		4/6/2018	74.5		118.4		3.4	1.4
		4/13/2018	74.5		118.4		3.4	1.5
		4/20/2018	74.5		118.4		3.4	1.4
		4/27/2018	74.5		118.4		3.4	1.6
		5/4/2018	74.6		118.3		3.3	1.3
		5/11/2018	74.7		118.2		3.2	1.3
		5/18/2018	74.7		118.2		3.2	1.4
		5/25/2018	74.7		118.2		3.2	1.3
		6/1/2018	74.9		118.0		3.0	1.1
		6/8/2018	74.9		118.0		3.0	1.2
		6/15/2018	74.9		118.0		3.0	1.2
		6/22/2018	74.9		118.0		3.0	1.2
		6/29/2018	74.9		118.0		3.0	1.2
		7/6/2018	75.0		117.9		2.9	1.2
		7/13/2018	75.0		117.9		2.9	1.2
		7/20/2018	75.0		117.9		2.9	1.1
		7/27/2018	75.0		117.9		2.9	1.1
		8/3/2018	75.0		117.9		2.9	1.0
		8/10/2018	75.0		117.9		2.9	1.1
		8/17/2018	75.1		117.8		2.8	1.0
		8/24/2018	74.9		118.0		3.0	1.0
		8/31/2018	74.9		118.0		3.0	0.9
		9/7/2018	74.8		118.1		3.1	1.0
		9/14/2018	75.0		117.9		2.9	0.8
		9/21/2018	75.0		117.9		2.9	0.6
		9/28/2018	74.9		118.0		3.0	0.7
		10/5/2018	74.8		118.1		3.1	0.4
		10/12/2018	74.7		118.2		3.2	0.4
		10/19/2018	74.8		118.1		3.1	0.3
		10/26/2018	74.6		118.3		3.3	0.4
		11/2/2018	74.6		118.3		3.3	0.4
		11/9/2018	74.6		118.3		3.3	0.3
		11/16/2018	74.8		118.1		3.1	0.0
		11/23/2018	74.6		118.3		3.3	0.2
		11/30/2018	74.8		118.1		3.1	0.0

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Liquid Assessment Monitoring
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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
VI	SB-21D	2/16/2017	79.1	194.30	115.2	113.0	2.2	
		2/17/2017	79.18		115.1		2.1	
		2/20/2017	79.4		114.9		1.9	
		2/23/2017	79.05		115.3		2.3	
		2/24/2017	79.2		115.1		2.1	
		3/3/2017	79.2		115.1		2.1	
		3/10/2017	79.2		115.1		2.1	
		3/17/2017	79.1		115.2		2.2	
		3/24/2017	79.2		115.1		2.1	
		3/31/2017	79.0		115.3		2.3	
		4/7/2017	79.2		115.1		2.1	
		4/13/2017	79.2		115.1		2.1	
		4/21/2017	79.2		115.1		2.1	
		4/28/2017	79.3		115.0		2.0	
		5/5/2017	79.2		115.1		2.1	
		5/12/2017	79.2		115.1		2.1	
		5/19/2017	79.3		115.0		2.0	
		5/26/2017	79.4		114.9		1.9	
		6/2/2017	79.3		115.0		2.0	
		6/9/2017	79.4		114.9		1.9	
		6/16/2017	79.2		115.1		2.1	
		6/23/2017	79.4		114.9		1.9	
		6/30/2017	79.4		114.9		1.9	
		7/7/2017	79.4		114.9		1.9	
		7/14/2017	79.4		114.9		1.9	
		7/21/2017	79.3		115.0		2.0	
		7/28/2017	79.2		115.1		2.1	
		8/4/2017	79.0		115.3		2.3	
		8/11/2017	79.0		115.3		2.3	
		8/18/2017	79.0		115.3		2.3	
		8/25/2017	78.9		115.4		2.4	
		9/1/2017	78.9		115.4		2.4	
		9/8/2017	78.7		115.6		2.6	
		9/15/2017	78.4		115.9		2.9	
		9/22/2017	78.2		116.1		3.1	
		9/29/2017				See Note 11		
		10/6/2017	87.6	203.99	116.4	See Note 11	3.4	
		10/13/2017	87.8		116.2		3.2	
		10/20/2017	88.0		116.0		3.0	
		10/27/2017		208.67		See Note 11		
		11/3/2017				See Note 11		
		11/10/2017				See Note 11		
		11/17/2017				See Note 11		
		11/24/2017				See Note 11		
		12/1/2017				See Note 11		
		12/8/2017				See Note 11		
		12/15/2017	93.8		114.9		1.9	
		12/22/2017	93.8		114.9		1.9	
		12/29/2017	93.8		114.9		1.9	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
VI	SB-21D	1/5/2018	93.9		114.8		1.8	
		1/12/2018	93.6		115.1		2.1	
		1/19/2018	93.5		115.2		2.2	
		1/26/2018	93.8		114.9		1.9	
		2/2/2018	93.8		114.9		1.9	
		2/9/2018	93.9		114.8		1.8	
		2/16/2018	93.8		114.9		1.9	
		2/23/2018	93.8		114.9		1.9	
		3/2/2018	93.8		114.9		1.9	
		3/9/2018	93.8		114.9		1.9	
		3/16/2018	93.7		115.0		2.0	
		3/23/2018	93.9		114.8		1.8	
		3/30/2018	93.7		115.0	See Note 16	2.0	
		4/6/2018	93.6		115.1		2.1	0.0
		4/13/2018	93.8		114.9		1.9	-0.2
		4/20/2018	93.7		115.0		2.0	-0.1
		4/27/2018	93.7		115.0		2.0	0.0
		5/4/2018	93.7		115.0		2.0	-0.1
		5/11/2018	93.7		115.0		2.0	-0.1
		5/18/2018	93.7		115.0		2.0	0.0
		5/25/2018	93.6		115.1		2.1	0.2
		6/1/2018	93.6		115.1		2.1	0.1
		6/8/2018	93.7		115.0		2.0	0.1
		6/15/2018	93.6		115.1		2.1	0.0
		6/22/2018	93.6		115.1		2.1	0.2
		6/29/2018	93.6		115.1		2.1	0.2
		7/6/2018	93.6		115.1		2.1	0.2
		7/13/2018	93.6		115.1		2.1	0.2
		7/20/2018	93.5		115.2		2.2	0.2
		7/27/2018	93.3		115.4		2.4	0.3
		8/3/2018	93.3		115.4		2.4	0.1
		8/10/2018	93.2		115.5		2.5	0.2
		8/17/2018	93.2		115.5		2.4	0.1
		8/24/2018	93.0		115.7		2.7	0.3
		8/31/2018	93.0		115.7		2.7	0.3
		9/7/2018	92.9		115.8		2.8	0.2
		9/14/2018	92.9		115.8		2.8	-0.1
		9/21/2018	92.9		115.8		2.8	-0.3
		9/28/2018	93.0		115.7		2.7	-
		10/5/2018	92.9		115.8		2.8	-0.6
		10/12/2018	92.8		115.9		2.9	-0.3
		10/19/2018	92.9		115.8		2.8	-0.2
		10/26/2018	92.7		116.0		3.0	-
		11/2/2018	92.8		115.9		2.9	-
		11/9/2018	92.8		115.9		2.9	-
		11/16/2018	92.9		115.8		2.8	-
		11/23/2018	92.9		115.8		2.8	-
		11/30/2018	92.9		115.8		2.8	-
								-

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
VI	SB-22D	2/17/2017	78.5	193.05	114.6	113.2	1.4	
		2/17/2017	78.97		114.1		0.9	
		2/20/2017	78.8		114.3		1.1	
		2/23/2017	78.00		115.1		1.9	
		2/24/2017	78.1		115.0		1.8	
		3/3/2017	78.1		115.0		1.8	
		3/10/2017	78.2		114.9		1.7	
		3/17/2017	78.1		115.0		1.8	
		3/24/2017	78.0		115.1		1.9	
		3/31/2017	77.9		115.2		2.0	
		4/7/2017	78.0		115.1		1.9	
		4/13/2017	78.1		115.0		1.8	
		4/21/2017	78.2		114.9		1.7	
		4/28/2017	78.2		114.9		1.7	
		5/5/2017	78.1		115.0		1.8	
		5/12/2017	78.2		114.9		1.7	
		5/19/2017	78.2		114.9		1.7	
		5/26/2017	78.2		114.9		1.7	
		6/2/2017	78.2		114.9		1.7	
		6/9/2017	78.4		114.7		1.5	
		6/16/2017	78.2		114.9		1.7	
		6/23/2017	78.2		114.9		1.7	
		6/30/2017	78.4		114.7		1.5	
		7/7/2017	78.2		114.9		1.7	
		7/14/2017	78.2		114.9		1.7	
		7/21/2017	78.2		114.9		1.7	
		7/28/2017	78.1		115.0		1.8	
		8/4/2017	78.1		115.0		1.8	
		8/11/2017	78.1		115.0		1.8	
		8/18/2017	78.2		114.9		1.7	
		8/25/2017	78.2		114.9		1.7	
		9/1/2017	78.0		115.1		1.9	
		9/8/2017	77.8		115.3		2.1	
		9/15/2017	77.5		115.6		2.4	
		9/22/2017	77.1		116.0		2.8	
		9/29/2017	77.1		116.0		2.8	
		10/6/2017	77.1		116.0		2.8	
		10/13/2017	77.3		115.8		2.6	
		10/20/2017	77.5		115.6		2.4	
		10/27/2017	77.5		115.6		2.4	
		11/3/2017	77.7		115.4		2.2	
		11/10/2017	77.7		115.4		2.2	
		11/17/2017	77.7		115.4		2.2	
		11/24/2017	77.8		115.3		2.1	
		12/1/2017	78.0		115.1		1.9	
		12/8/2017	78.0		115.1		1.9	
		12/15/2017	78.0		115.1		1.9	
		12/22/2017	78.1		115.0		1.8	
		12/29/2017	78.1		115.0		1.8	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
VI	SB-22D	1/5/2018	78.1		115.0		1.8	
		1/12/2018	78.1		115.0		1.8	
		1/19/2018	78.0		115.1		1.9	
		1/26/2018	78.1		115.0		1.8	
		2/2/2018	78.1		115.0		1.8	
		2/9/2018	78.1		115.0		1.8	
		2/16/2018	78.1		115.0		1.8	
		2/23/2018	78.1		115.0		1.8	
		3/2/2018	78.2		114.9		1.7	
		3/9/2018	78.2		114.9		1.7	
		3/16/2018	78.1		115.0		1.8	
		3/23/2018	78.3		114.8		1.6	
		3/30/2018	78.0		115.1	See Note 16	1.9	
		4/6/2018	78.0		115.1		1.9	0.0
		4/13/2018	77.7		115.4		2.2	0.4
		4/20/2018	-			See Note 17		
		4/27/2018	-			See Note 17		
		5/4/2018	88.0	202.8	114.8	See Note 17	1.6	-0.2
		5/11/2018	96.2	210.8	114.6	See Note 17	1.4	-0.3
		5/18/2018				See Note 18		

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
IV	SB-23D	2/16/2017	83.9	199.70	115.8	113.3	2.5	
		2/17/2017	84.0		115.7		2.4	
		2/20/2017	84.1		115.6		2.3	
		2/23/2017	83.85		115.9		2.6	
		2/24/2017	83.9		115.8		2.5	
		3/3/2017	84.0		115.7		2.4	
		3/10/2017	84.0		115.7		2.4	
		3/17/2017	84.0		115.7		2.4	
		3/24/2017	83.9		115.8		2.5	
		3/31/2017	84.5		115.2		1.9	
		4/7/2017	83.9		115.8		2.5	
		4/13/2017	84.0		115.7		2.4	
		4/21/2017	84.1		115.6		2.3	
		4/28/2017	84.1		115.6		2.3	
		5/5/2017	84.1		115.6		2.3	
		5/12/2017	84.3		115.4		2.1	
		5/19/2017	84.2		115.5		2.2	
		5/26/2017	84.2		115.5		2.2	
		6/2/2017	84.2		115.5		2.2	
		6/9/2017	84.3		115.4		2.1	
		6/16/2017	84.1		115.6		2.3	
		6/23/2017	84.2		115.5		2.2	
		6/30/2017	84.3		115.4		2.1	
		7/7/2017	84.2		115.5		2.2	
		7/14/2017	84.3		115.4		2.1	
		7/21/2017	84.1		115.6		2.3	
		7/28/2017	84.1		115.6		2.3	
		8/4/2017	84.0		115.7		2.4	
		8/11/2017	83.9		115.8		2.5	
		8/18/2017	84.0		115.7		2.4	
		8/25/2017	83.9		115.8		2.5	
		9/1/2017	83.8		115.9		2.6	
		9/8/2017	83.7		116.0		2.7	
		9/15/2017		208.90		See Note 10		
		9/22/2017				See Note 10		
		9/29/2017				See Note 10		
		10/6/2017	92.6		116.3		3.0	
		10/13/2017	92.7		116.2		2.9	
		10/20/2017	92.9		116.0		2.7	
		10/27/2017	92.8		116.1		2.8	
		11/3/2017	93.2		115.7		2.4	
		11/10/2017	93.2		115.7		2.4	
		11/17/2017	93.6		115.3		2.0	
		11/24/2017	93.3		115.6		2.3	
		12/1/2017	93.4		115.5		2.2	
		12/8/2017	93.4		115.5		2.2	
		12/15/2017	93.4		115.5		2.2	
		12/22/2017	93.6		115.3		2.0	
		12/29/2017	93.5		115.4		2.1	

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
IV	SB-23D	1/5/2018	93.6		115.3		2.0	
		1/12/2018	93.4		115.5		2.2	
		1/19/2018	93.4		115.5		2.2	
		1/26/2018	93.5		115.4		2.1	
		2/2/2018	93.5		115.4		2.1	
		2/9/2018	93.5		115.4		2.1	
		2/16/2018	93.5		115.4		2.1	
		2/23/2018	93.6		115.3		2.0	
		3/2/2018	93.6		115.3		2.0	
		3/9/2018	93.6		115.3		2.0	
		3/16/2018	93.5		115.4		2.1	
		3/23/2018	93.8		115.1		1.8	
		3/30/2018	93.4		115.5	See Note 16	2.2	
		4/6/2018	93.6		115.3		2.0	-0.5
		4/13/2018	93.6		115.3		2.0	-0.4
		4/20/2018	93.6		115.3		2.0	-0.3
		4/27/2018	93.5		115.4		2.1	-0.2
		5/4/2018	93.5		115.4		2.1	-0.2
		5/11/2018	93.5		115.4		2.1	0.0
		5/18/2018	93.5		115.4		2.1	-0.1
		5/25/2018	93.4		115.5		2.2	0.0
		6/1/2018	93.4		115.5		2.2	0.0
		6/8/2018	93.5		115.4		2.1	0.0
		6/15/2018	93.5		115.4		2.1	-0.2
		6/22/2018	93.5		115.4		2.1	-0.1
		6/29/2018	93.5		115.4		2.1	0.0
		7/6/2018	93.4		115.5		2.2	0.0
		7/13/2018	93.5		115.4		2.1	0.0
		7/20/2018	93.4		115.5		2.2	-0.1
		7/27/2018	93.4		115.5		2.2	-0.1
		8/3/2018	93.5		115.4		2.1	-0.3
		8/10/2018	93.3		115.6		2.3	-0.2
		8/17/2018	93.3		115.6		2.3	-0.1
		8/24/2018	93.2		115.7		2.4	-0.1
		8/31/2018	93.0		115.9		2.6	0.0
		9/7/2018	93.0		115.9		2.6	-0.1
		9/14/2018	93.1		115.8		2.5	-
		9/21/2018				See Note 22		
		9/28/2018				See Note 22		
		10/5/2018				See Note 22		
		10/12/2018				See Note 22		
		11/9/2018	See Note 23					

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
IV	SB-23S	2/23/2017	80.4	199.45	DRY	N/A	N/A	
		2/24/2017	80.4		DRY		N/A	
		3/3/2017	80.4		DRY		N/A	
		3/10/2017	80.3		DRY		N/A	
		3/17/2017	80.3		DRY		N/A	
		3/24/2017	80.3		DRY		N/A	
		3/31/2017	80.3		DRY		N/A	
		4/7/2017	80.2		DRY		N/A	
		4/13/2017	80.2		DRY		N/A	
		4/21/2017	80.2		DRY		N/A	
		4/28/2017	80.2		DRY		N/A	
		5/5/2017	80.2		DRY		N/A	
		5/12/2017	80.1		DRY		N/A	
		5/19/2017	80.1		DRY		N/A	
		5/26/2017	80.1		DRY		N/A	
		6/2/2017	80.1		DRY		N/A	
		6/9/2017	80.1		DRY		N/A	
		6/16/2017	80.1		DRY		N/A	
		6/23/2017	80.1		DRY		N/A	
		6/30/2017	80.1		DRY		N/A	
		7/7/2017	80.2		DRY		N/A	
		7/14/2017	80.1		DRY		N/A	
		7/21/2017	80.2		DRY		N/A	
		7/28/2017	80.2		DRY		N/A	
		8/4/2017	80.1		DRY		N/A	
		8/11/2017	80.1		DRY		N/A	
		8/18/2017	80.1		DRY		N/A	
		8/25/2017	80.1		DRY		N/A	
		9/1/2017	80.1		DRY		N/A	
		9/8/2017	80.1		DRY		N/A	
		9/15/2017		208.78		See Note 10		
		9/22/2017				See Note 10		
		9/29/2017				See Note 10		
		10/6/2017				See Note 10		
		10/13/2017				See Note 10		
		10/20/2017				See Note 10		
		10/27/2017	89.4		DRY		N/A	
		11/3/2017	89.4		DRY		N/A	
		11/10/2017	89.4		DRY		N/A	
		11/17/2017	89.4		DRY		N/A	
		11/24/2017	89.4		DRY		N/A	
		12/1/2017	89.4		DRY		N/A	
		12/8/2017	89.4		DRY		N/A	
		12/15/2017	89.4		DRY		N/A	
		12/22/2017	89.4		DRY		N/A	
		12/29/2017	89.3		DRY		N/A	

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
IV	SB-23S	1/5/2018	89.3		DRY		N/A	
		1/12/2018	89.3		DRY		N/A	
		1/19/2018	89.3		DRY		N/A	
		1/26/2018	89.3		DRY		N/A	
		2/2/2018	89.3		DRY		N/A	
		2/9/2018				See Note 15		
		11/9/2018	See Note 23					

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-24D	3/3/2017	66.3	188.82	122.5	117.6	4.9	
		3/10/2017	66.3		122.5		4.9	
		3/17/2017	66.5		122.3		4.7	
		3/24/2017	66.6		122.2		4.6	
		3/31/2017	66.3		122.5		4.9	
		4/7/2017	66.6		122.2		4.6	
		4/13/2017	66.8		122.0		4.4	
		4/21/2017	66.8		122.0		4.4	
		4/28/2017	67.0		121.8		4.2	
		5/5/2017	66.8		122.0		4.4	
		5/12/2017	67.2		121.6		4.0	
		5/19/2017	67.3		121.5		3.9	
		5/26/2017	67.3		121.5		3.9	
		6/2/2017	67.4		121.4		3.8	
		6/9/2017	67.4		121.4		3.8	
		6/16/2017	67.5		121.3		3.7	
		6/23/2017	67.5		121.3		3.7	
		6/30/2017	67.5		121.3		3.7	
		7/7/2017	67.4		121.4		3.8	
		7/14/2017	67.2		121.6		4.0	
		7/21/2017	66.7		122.1		4.5	
		7/28/2017	66.1		122.7		5.1	
		8/4/2017	65.3		123.5		5.9	
		8/11/2017	64.3		124.5		6.9	
		8/18/2017	63.8		125.0		7.4	
		8/25/2017	63.9		124.9		7.3	
		9/1/2017	63.7		125.1		7.5	
		9/8/2017	62.8		126.0		8.4	
		9/15/2017	62.0		126.8		9.2	
		9/22/2017	61.6		127.2		9.6	
		9/29/2017	62.0		126.8		9.2	
		10/6/2017	62.3		126.5		8.9	
		10/13/2017	62.3		126.5		8.9	
		10/20/2017	63.4		125.4		7.8	
		10/27/2017	63.7		125.1		7.5	
		11/3/2017	64.1		124.7		7.1	
		11/10/2017	64.2		124.6		7.0	
		11/17/2017	64.4		124.4		6.8	
		11/24/2017	64.5		124.3		6.7	
		12/1/2017	64.9		123.9		6.3	
		12/8/2017	64.8		124.0		6.4	
		12/15/2017	65.1		123.7		6.1	
		12/22/2017	65.2		123.6		6.0	
		12/29/2017	65.3		123.5		5.9	
		1/5/2018	65.5		123.3		5.7	
		1/12/2018	65.4		123.4		5.8	
		1/19/2018	65.8		123.0		5.4	
		1/26/2018	66.0		122.8		5.2	
		2/2/2018	65.9		122.9		5.3	
		2/9/2018	66.0		122.8		5.2	
		2/16/2018	66.0		122.8		5.2	
		2/23/2018	66.1		122.7		5.1	

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-24D	3/2/2018	66.0		122.8		5.2	
		3/9/2018	66.1		122.7		5.1	
		3/16/2018	66.1		122.7		5.1	
		3/23/2018	66.4		122.4		4.8	
		3/30/2018	66.3		122.5	See Note 16	4.9	
		4/6/2018	66.4		122.4		4.8	0.2
		4/13/2018	66.4		122.4		4.8	0.4
		4/20/2018	66.6		122.2		4.6	0.2
		4/27/2018	66.5		122.3		4.7	0.5
		5/4/2018	66.8		122.0		4.4	0.0
		5/11/2018	66.9		121.9		4.3	0.3
		5/18/2018	66.9		121.9		4.3	0.4
		5/25/2018	67.0		121.8		4.2	0.3
		6/1/2018	67.1		121.7		4.1	0.3
		6/8/2018	67.1		121.7		4.1	0.3
		6/15/2018	67.1		121.7		4.1	0.4
		6/22/2018	67.0		121.8		4.2	0.5
		6/29/2018	66.9		121.9		4.3	0.6
		7/6/2018	66.8		122.0		4.4	0.6
		7/13/2018	66.5		122.3		4.7	0.7
		7/20/2018	66.1		122.7		5.1	0.6
		7/27/2018	65.9		122.9		5.3	0.2
		8/3/2018	65.5		123.3		5.7	-0.2
		8/10/2018	65.1		123.7		6.1	-0.8
		8/17/2018	64.8		124.0		6.4	-1.0
		8/24/2018	64.3		124.5		6.9	-0.4
		8/31/2018	64.2		124.6		7.0	-0.5
		9/7/2018	64.1		124.7		7.1	-1.3
		9/14/2018	64.1		124.7		7.1	-2.1
		9/21/2018	64.1		124.7		7.1	-2.5
		9/28/2018	64.2		124.6		7.0	-2.2
		10/5/2018	64.2		124.6		7.0	-1.9
		10/12/2018	64.2		124.6		7.0	-1.9
		10/19/2018	64.5		124.3		6.7	-1.1
		10/26/2018	64.5		124.3		6.7	-0.8
		11/2/2018	64.4		124.4		6.8	-0.3
		11/9/2018	64.5		124.3		6.7	-0.3
		11/16/2018	64.7		124.1		6.5	-0.3
		11/23/2018	64.7		124.1		6.5	-0.2
		11/30/2018	64.9		123.9		6.3	0.0

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Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
I	SB-25D	3/10/2017	80.6	208.83	128.2	117.5	10.7	
		3/17/2017	80.8		128.0		10.5	
		3/24/2017	80.8		128.0		10.5	
		3/31/2017	80.4		128.4		10.9	
		4/7/2017	80.6		128.2		10.7	
		4/13/2017	80.8		128.0		10.5	
		4/21/2017	80.8		128.0		10.5	
		4/28/2017	85.5	213.83	128.3	See Note 3	10.8	
		5/5/2017	85.2		128.6		11.1	
		5/15/2017	83.6	211.40	127.8	See Note 4	10.3	
		5/19/2017	83.8		127.6		10.1	
		5/26/2017	83.8		127.6		10.1	
		6/2/2017	83.9		127.5		10.0	
		6/9/2017	83.8		127.6		10.1	
		6/16/2017	84.0		127.4		9.9	
		6/23/2017	84.0		127.4		9.9	
		6/30/2017	84.1		127.3		9.8	
		7/7/2017	84.1		127.3		9.8	
		7/14/2017	84.2		127.2		9.7	
		7/21/2017	84.1		127.3		9.8	
		7/28/2017	84.1		127.3		9.8	
		8/4/2017	84.1		127.3		9.8	
		8/11/2017	84.0		127.4		9.9	
		8/18/2017	83.9		127.5		10.0	
		8/25/2017	83.8		127.6		10.1	
		9/1/2017	-			See Note 9		

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-26	4/14/2017	25.3	148.36	123.1	119.3	3.8	
		4/17/2017	25.3		123.1		3.8	
		4/19/2017	25.2		123.2		3.9	
		4/21/2017	25.1		123.3		4.0	
		4/26/2017	25.12		123.24		3.94	
		4/28/2017	25.2		123.2		3.9	
		5/5/2017	25.1		123.3		4.0	
		5/12/2017	25.3		123.1		3.8	
		5/19/2017	25.3		123.1		3.8	
		5/26/2017	25.5		122.9		3.6	
		6/2/2017	25.5		122.9		3.6	
		6/9/2017	25.5		122.9		3.6	
		6/16/2017	25.5		122.9		3.6	
		6/23/2017	25.4		123.0		3.7	
		6/30/2017	25.4		123.0		3.7	
		7/7/2017	23.8		124.6		5.3	
		7/14/2017	23.6		124.8		5.5	
		7/21/2017	23.7		124.7		5.4	
		7/28/2017	23.6		124.8		5.5	
		8/4/2017	23.2		125.2		5.9	
		8/11/2017	23.2		125.2		5.9	
		8/18/2017	23.3		125.1		5.8	
		8/25/2017	23.2		125.2		5.9	
		9/1/2017	23.5		124.9		5.6	
		9/8/2017	23.2		125.2		5.9	
		9/15/2017	22.2		126.2		6.9	
		9/22/2017	22.0		126.4		7.1	
		9/29/2017	22.1		126.3		7.0	
		10/6/2017	22.4		126.0		6.7	
		10/13/2017	22.4		126.0		6.7	
		10/20/2017	23.0		125.4		6.1	
		10/27/2017	23.5		124.9		5.6	
		11/3/2017	23.5		124.9		5.6	
		11/10/2017	24.2		124.2		4.9	
		11/17/2017	24.4		124.0		4.7	
		11/24/2017	24.5		123.9		4.6	
		12/1/2017	24.8		123.6		4.3	
		12/8/2017	24.8		123.6		4.3	
		12/15/2017	25.0		123.4		4.1	
		12/22/2017	25.1		123.3		4.0	
		12/29/2017	25.2		123.2		3.9	
		1/5/2018	25.1		123.3		4.0	
		1/12/2018	24.8		123.6		4.3	
		1/19/2018	24.8		123.6		4.3	
		1/26/2018	24.9		123.5		4.2	
		2/2/2018	24.8		123.6		4.3	
		2/9/2018	24.8		123.6		4.3	
		2/16/2018	24.9		123.5		4.2	
		2/23/2018	24.9		123.5		4.2	

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-26	3/2/2018	24.9		123.5		4.2	
		3/9/2018	24.9		123.5		4.2	
		3/16/2018	24.9		123.4		4.1	
		3/23/2018	25.1		123.3		4.0	
		3/30/2018	24.9		123.5		4.2	
		4/6/2018	25.0		123.4		4.1	0.3
		4/13/2018	25.0		123.4		4.1	0.2
		4/20/2018	25.1		123.3		4.0	0.0
		4/27/2018	25.0		123.4		4.1	0.1
		5/4/2018	25.0		123.4		4.1	0.2
		5/11/2018	25.1		123.3		4.0	0.0
		5/18/2018	25.1		123.3		4.0	0.2
		5/25/2018	24.7		123.7		4.4	0.6
		6/1/2018	24.2		124.2		4.9	1.3
		6/8/2018	24.1		124.3		5.0	1.4
		6/15/2018	24.1		124.3		5.0	1.4
		6/22/2018	24.1		124.3		5.0	1.4
		6/29/2018	24.1		124.3		5.0	1.3
		7/6/2018	24.1		124.3		5.0	1.3
		7/13/2018	24.1		124.3		5.0	-0.3
		7/20/2018	24.1		124.3		5.0	-0.5
		7/27/2018	24.0		124.4		5.1	-0.3
		8/3/2018	24.0		124.4		5.1	-0.4
		8/10/2018	24.0		124.4		5.1	-0.8
		8/17/2018	23.7		124.7		5.4	-0.5
		8/24/2018	23.5		124.9		5.6	-0.2
		8/31/2018	23.3		125.1		5.8	-0.1
		9/7/2018	23.3		125.1		5.8	0.2
		9/14/2018	23.4		125.0		5.7	-0.2
		9/21/2018	23.5		124.9		5.6	-1.3
		9/28/2018	23.6		124.8		5.5	-1.6
		10/5/2018	23.6		124.8		5.5	-1.5
		10/12/2018	23.6		124.8		5.5	-1.2
		10/19/2018	23.5		124.9		5.6	-1.1
		10/26/2018	23.5		124.9		5.6	-0.5
		11/2/2018	24.0		124.4		5.1	-0.5
		11/9/2018	See Note 23					

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-27	4/13/2017	15.7	138.11	122.4	120.6	1.8	
		4/17/2017	15.7		122.4		1.8	
		4/19/2017	15.7		122.4		1.8	
		4/21/2017	15.6		122.5		1.9	
		4/26/2017	15.52		122.59		1.99	
		4/28/2017	15.7		122.4		1.8	
		5/5/2017	15.6		122.5		1.9	
		5/12/2017	15.6		122.5		1.9	
		5/19/2017	15.7		122.4		1.8	
		5/26/2017	15.8		122.3		1.7	
		6/2/2017	15.7		122.4		1.8	
		6/9/2017	15.7		122.4		1.8	
		6/16/2017	15.6		122.5		1.9	
		6/23/2017	15.6		122.5		1.9	
		6/30/2017	15.6		122.5		1.9	
		7/7/2017	Removed		-	See Note 5	-	

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
I	SB-28D	5/5/2017	87.5	208.62	121.1	116.7	4.4	
		5/12/2017	87.3		121.3		4.6	
		5/19/2017	87.3		121.3		4.6	
		5/26/2017	87.3		121.3		4.6	
		6/2/2017	87.5		121.1		4.4	
		6/9/2017	87.2		121.4		4.7	
		6/16/2017	87.3		121.3		4.6	
		6/23/2017	87.5		121.1		4.4	
		6/30/2017	87.4		121.2		4.5	
		7/7/2017	87.5		121.1		4.4	
		7/14/2017	87.5		121.1		4.4	
		7/21/2017	87.4		121.2		4.5	
		7/28/2017	87.2		121.4		4.7	
		8/4/2017	87.3		121.3		4.6	
		8/11/2017	87.3		121.3		4.6	
		8/18/2017	87.0		121.6		4.9	
		8/25/2017	86.9		121.7		5.0	
		9/1/2017	86.9		121.7		5.0	
		9/8/2017	86.6		122.0		5.3	
		9/15/2017	86.5		122.1		5.4	
		9/22/2017	86.1		122.5		5.8	
		9/29/2017	86.0		122.6		5.9	
		10/6/2017	85.9		122.7		6.0	
		10/13/2017	86.1		122.5		5.8	
		10/20/2017	86.1		122.5		5.8	
		10/27/2017	86.1		122.5		5.8	
		11/3/2017	86.1		122.5		5.8	
		11/10/2017	86.2		122.4		5.7	
		11/17/2017	86.4		122.2		5.5	
		11/24/2017	86.2		122.4		5.7	
		12/1/2017	86.6		122.0		5.3	
		12/8/2017	86.4		122.2		5.5	
		12/15/2017	86.6		122.0		5.3	
		12/22/2017	86.6		122.0		5.3	
		12/29/2017	86.8		121.8		5.1	
		1/5/2018	86.7		121.9		5.2	
		1/12/2018	86.7		121.9		5.2	
		1/19/2018	86.7		121.9		5.2	
		1/26/2018	87.1		121.5		4.8	
		2/2/2018	86.9		121.7		5.0	
		2/9/2018	87.0		121.6		4.9	
		2/16/2018	87.0		121.6		4.9	
		2/23/2018	87.1		121.5		4.8	
		3/2/2018	87.0		121.6		4.9	
		3/9/2018	87.1		121.5		4.8	
		3/16/2018	87.1		121.5		4.8	
		3/23/2018	87.4		121.2		4.5	
		3/30/2018	87.2		121.4	See Note 16	4.7	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		4/6/2018	87.2		121.4		4.7	
		4/13/2018	87.2		121.4		4.7	
		4/20/2018	87.4		121.2		4.5	
		4/27/2018	87.3		121.3		4.6	
		5/4/2018	87.5		121.1		4.4	0.0
		5/11/2018	87.5		121.1		4.4	-0.2
		5/18/2018	87.4		121.2		4.5	-0.1
		5/25/2018	87.6		121.0		4.3	-0.3
		6/1/2018	86.1	207.03	120.9	See Note 21	4.2	-0.2
		6/8/2018	86.2		120.8		4.1	-0.6
		6/15/2018	87.6	208.40	120.8	See Note 21	4.1	-0.5
		6/22/2018	87.6		120.8		4.1	-0.3
		6/29/2018	87.6		120.8		4.1	-0.4
		7/6/2018	87.6		120.8		4.1	-0.3
		7/13/2018	87.6		120.8		4.1	-0.3
		7/20/2018	87.5		120.9		4.2	-0.3
		7/27/2018	87.5		120.9		4.2	-0.5
		8/3/2018	87.4		121.0		4.3	-0.3
I	SB-28D	8/10/2018	87.4		121.0		4.3	-0.3
		8/17/2018	87.2		121.2		4.5	-0.4
		8/24/2018	86.9		121.5		4.8	-0.2
		8/31/2018	86.7		121.7		5.0	0.0
		9/7/2018	86.5		121.9		5.2	-0.1
		9/14/2018	86.5		121.9		5.2	-0.2
		9/21/2018	86.6		121.8		5.1	-0.7
		9/28/2018	86.5		121.9		5.2	-0.7
		10/5/2018	86.5		121.9		5.2	-0.8
		10/12/2018	86.3		122.1		5.4	-0.4
		10/19/2018	86.6		121.8		5.1	-0.7
		10/26/2018	86.6		121.8		5.1	-0.7
		11/2/2018	86.4		122.0		5.3	-0.5
		11/9/2018	86.6		121.8		5.1	-0.6
		11/16/2018	86.8		121.6		4.9	-0.6
		11/23/2018	86.7		121.7		5.0	-0.7
		11/30/2018	86.8		121.6		4.9	-0.4

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Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
I	SB-29	5/5/2017	78.5	207.86	129.4	117.5	11.9	
		5/12/2017	77.2		130.7		13.2	
		5/19/2017	77.4		130.5		13.0	
		5/26/2017	79.3		128.6		11.1	
		6/2/2017	82.3		125.6		8.1	
		6/9/2017	82.4		125.5		8.0	
		6/16/2017	81.9		126.0		8.5	
		6/23/2017	81.7		126.2		8.7	
		6/30/2017	82.9		125.0		7.5	
		7/7/2017	82.7		125.2		7.7	
		7/14/2017	83.0		124.9		7.4	
		7/21/2017	83.3		124.6		7.1	
		7/28/2017	82.9		125.0		7.5	
		8/4/2017	82.8		125.1		7.6	
		8/11/2017	81.2		126.7		9.2	
		8/18/2017	81.2		126.7		9.2	
		8/25/2017	82.8		125.1		7.6	
		9/1/2017	82.8		125.1		7.6	
		9/8/2017	82.8		125.1		7.6	
		9/15/2017	79.4		128.5		11.0	
		9/22/2017	82.3		125.6		8.1	
		9/29/2017	82.6		125.3		7.8	
		10/6/2017	81.1		126.8		9.3	
		10/13/2017	81.1		126.8		9.3	
		10/20/2017	82.6		125.3		7.8	
		10/27/2017	77.0		130.9		13.4	
		11/3/2017	77.1		130.8		13.3	
		11/10/2017	83.2		124.7		7.2	
		11/17/2017	82.2		125.7		8.2	
		11/24/2017	82.2		125.7		8.2	
		12/1/2017	82.7		125.2		7.7	
		12/8/2017	82.5		125.4		7.9	
		12/15/2017	82.7		125.2		7.7	
		12/22/2017	82.6		125.3		7.8	
		12/29/2017	82.7		125.2		7.7	
		1/5/2018	82.8		125.1		7.6	
		1/12/2018	82.5		125.4		7.9	
		1/19/2018	82.4		125.5		8.0	
		1/26/2018	80.9		127.0		9.5	
		2/2/2018	81.0		126.9		9.4	
		2/9/2018	81.0		126.9		9.4	
		2/16/2018	81.4		126.5		9.0	
		2/23/2018	82.6		125.3		7.8	
		3/2/2018	82.8		125.1		7.6	
		3/8/2018	82.8		125.1		7.6	
		3/16/2018	80.6		127.3		9.8	
		3/23/2018	83.5		124.4		6.9	
		3/30/2018	81.0		126.9		9.4	

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Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		4/6/2018	81.0		126.9		9.4	
		4/13/2018	80.9		127.0		9.5	
		4/20/2018	81.1		126.8		9.3	
		4/27/2018	80.8		127.1		9.6	
		5/4/2018	82.7		125.2		7.7	-4.2
		5/11/2018	82.8		125.1		7.6	-5.6
		5/18/2018	82.9		125.0		7.5	-5.5
		5/25/2018	82.6		125.3		7.8	-3.3
		6/1/2018	82.6		125.3		7.8	-0.3
		6/8/2018	82.6		125.3		7.8	-0.2
		6/15/2018	82.6		125.3		7.8	-0.7
		6/22/2018	82.6		125.3		7.8	-0.9
		6/29/2018	82.5		125.4		7.9	0.4
		7/6/2018	81.6		126.3		8.8	1.1
		7/13/2018	81.5		126.4		8.9	1.5
		7/20/2018	82.6		125.3		7.8	0.7
		7/27/2018	82.6		125.3		7.8	0.3
		8/3/2018	82.5		125.4		7.9	0.3
I	SB-29	8/10/2018	82.5		125.4		7.9	-1.3
		8/17/2018	82.6		125.3		7.8	-1.4
		8/24/2018	82.3		125.6		8.1	0.5
		8/31/2018	82.3		125.6		8.1	0.5
		9/7/2018	82.4		125.5		8.0	0.4
		9/14/2018	82.5		125.4		7.9	-3.1
		9/21/2018	82.5		125.4		7.9	-0.2
		9/28/2018	82.5		125.4		7.9	0.1
		10/5/2018	82.4		125.5		8.0	-1.3
		10/12/2018	82.3		125.6		8.1	-1.2
		10/19/2018	82.4		125.5		8.0	0.2
		10/26/2018	82.4		125.5		8.0	-5.4
		11/2/2018	82.3		125.6		8.1	-5.2
		11/9/2018	82.4		125.5		8.0	0.8
		11/16/2018	82.3		125.6		8.1	-0.1
		11/23/2018	80.2		127.7	See Note 24	10.2	2.0
		11/30/2018	81.6		126.3		8.8	1.1

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-30	5/5/2017	64.3	189.53	125.2	117.8	7.4	
		5/12/2017	64.7		124.8		7.0	
		5/19/2017	64.8		124.7		6.9	
		5/26/2017	65.7		123.8		6.0	
		6/2/2017	65.7		123.8		6.0	
		6/9/2017	65.7		123.8		6.0	
		6/16/2017	65.6		123.9		6.1	
		6/23/2017	65.6		123.9		6.1	
		6/30/2017	65.2		124.3		6.5	
		7/7/2017	65.7		123.8		6.0	
		7/14/2017	65.8		123.7		5.9	
		7/21/2017	66.0		123.5		5.7	
		7/28/2017	66.0		123.5		5.7	
		8/4/2017	66.0		123.5		5.7	
		8/11/2017	65.6		123.9		6.1	
		8/18/2017	65.8		123.7		5.9	
		8/25/2017	65.8		123.7		5.9	
		9/1/2017	65.9		123.6		5.8	
		9/8/2017	65.5		124.0		6.2	
		9/15/2017	64.4		125.1		7.3	
		9/22/2017	64.7		124.8		7.0	
		9/29/2017	64.7		124.8		7.0	
		10/6/2017	64.8		124.7		6.9	
		10/13/2017	63.4		126.1		8.3	
		10/20/2017	63.2		126.3		8.5	
		10/27/2017	65.4		124.1		6.3	
		11/3/2017	65.4		124.1		6.3	
		11/10/2017	65.3		124.2		6.4	
		11/17/2017	65.4		124.1		6.3	
		11/24/2017	65.5		124.0		6.2	
		12/1/2017	65.6		123.9		6.1	
		12/8/2017	65.4		124.1		6.3	
		12/15/2017	65.5		124.0		6.2	
		12/22/2017	65.6		123.9		6.1	
		12/29/2017	65.7		123.8		6.0	
		1/5/2018	65.8		123.7		5.9	
		1/12/2018	65.6		123.9		6.1	
		1/19/2018	65.6		123.9		6.1	
		1/26/2018	65.6		123.9		6.1	
		2/2/2018	65.8		123.7		5.9	
		2/9/2018	65.8		123.7		5.9	
		2/16/2018	65.8		123.7		5.9	
		2/23/2018	65.9		123.6		5.8	
		3/2/2018	65.9		123.6		5.8	
		3/8/2018	65.9		123.6		5.8	
		3/16/2018	66.0		123.5		5.7	
		3/23/2018	66.2		123.3		5.5	
		3/30/2018	65.7		123.8		6.0	

Appendix C - Water Level Data
Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-30	4/6/2018	66.0		123.5		5.7	
		4/13/2018	66.0		123.5		5.7	
		4/20/2018	66.1		123.4		5.6	
		4/27/2018	66.0		123.5		5.7	
		5/4/2018	66.4		123.1		5.3	-2.1
		5/11/2018	66.4		123.1		5.3	-1.7
		5/18/2018	66.4		123.1		5.3	-1.6
		5/25/2018	66.3		123.2		5.4	-0.6
		6/1/2018	66.4		123.1		5.3	-0.7
		6/8/2018	66.4		123.1		5.3	-0.7
		6/15/2018	66.4		123.1		5.3	-0.8
		6/22/2018	66.4		123.1		5.3	-0.8
		6/29/2018	66.5		123.0		5.2	-1.3
		7/6/2018	66.4		123.1		5.3	-0.7
		7/13/2018	66.4		123.1		5.3	-0.6
		7/20/2018	66.3		123.2		5.4	-0.3
		7/27/2018	66.3		123.2		5.4	-0.3
		8/3/2018	66.3		123.2		5.4	-0.3
		8/10/2018	66.0		123.5		5.7	-0.4
		8/17/2018	65.9		123.6		5.8	-0.1
		8/24/2018	65.7		123.8		6.0	0.1
		8/31/2018	65.6		123.9		6.1	0.3
		9/7/2018	65.4		124.1		6.3	0.1
		9/14/2018	65.4		124.1		6.3	-1.0
		9/21/2018	65.3		124.2		6.4	-0.6
		9/28/2018	65.3		124.2		6.4	-0.6
		10/5/2018	65.2		124.3		6.5	-0.4
		10/12/2018	65.1		124.4		6.6	-1.7
		10/19/2018	65.2		124.3		6.5	-2.0
		10/26/2018	65.2		124.3		6.5	0.2
		11/2/2018	64.9		124.6		6.8	0.5
		11/9/2018	64.9		124.6		6.8	0.4
		11/16/2018	65.0		124.5		6.7	0.4
		11/23/2018	64.2		125.3	See Note 24	7.5	1.3
		11/30/2018	65.1		124.4		6.6	0.5

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Liquid Assessment Monitoring
Southeast County Landfill

Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	SB-31[14]	3/7/2018	18.4	141.8	123.4	122.4	1.0	
		3/9/2018	18.4		123.4		1.0	
		3/16/2018	18.4		123.4		1.0	
		3/23/2018	18.4		123.4		1.0	
		3/30/2018	18.4		123.4		1.0	
		4/6/2018	18.4		123.4		1.0	
		4/13/2018	18.4		123.4		1.0	
		4/20/2018	18.4		123.4		1.0	
		4/27/2018	18.5		123.3		0.9	
		5/4/2018	18.5		123.3		0.9	
		5/11/2018				See Note 20		
III	SB-32[14]	3/7/2018	24.1	146.8	122.7	121.9	0.8	
		3/9/2018	24.1		122.7		0.8	
		3/16/2018	24.1		122.7		0.8	
		3/23/2018	24.2		122.6		0.7	
		3/30/2018	24.2		122.6		0.7	
		4/6/2018	24.2		122.6		0.7	
		4/13/2018	24.2		122.6		0.7	
		4/20/2018	24.2		122.6		0.7	
		4/27/2018	24.5		122.3	See Note 19	0.4	
		5/4/2018	24.5		122.3	See Note 19	0.4	
		5/11/2018	24.4		122.4		0.5	
		5/18/2018	24.4		122.4		0.5	
		5/25/2018	24.4		122.4		0.5	
		6/1/2018	24.4		122.4		0.5	
		6/8/2018	24.4		122.4		0.5	
		6/15/2018	24.4		122.4		0.5	
		6/22/2018	24.4		122.4		0.5	
		6/29/2018	24.4		122.4		0.5	
		7/6/2018	24.3		122.5		0.6	
		7/13/2018	24.3		122.5		0.6	
		7/20/2018	24.1		122.7		0.8	
		7/27/2018	24.1		122.7		0.8	
		8/3/2018	24.1		122.7		0.8	
		8/10/2018	24.1		122.7		0.8	
		8/17/2018	23.9		122.9		1.0	
		8/24/2018	23.9		122.9		1.0	
		8/31/2018	23.9		122.9		1.0	
		9/7/2018	23.9		122.9		1.0	
		9/14/2018	23.9		122.9		1.0	
		9/21/2018	23.9		122.9		1.0	
		9/28/2018	23.9		122.9		1.0	
		10/5/2018	23.9		122.9		1.0	
		10/12/2018	23.9		122.9		1.0	
		10/19/2018	23.9		122.9		1.0	
		10/26/2018	23.9		122.9		1.0	
		11/2/2018	24.0		122.8		0.9	
		11/9/2018	24.0		122.8		0.9	
		11/16/2018	24.1		122.7		0.8	
		11/23/2018	24.1		122.7		0.8	
		11/30/2018	24.1		122.7		0.8	

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Liquid Assessment Monitoring
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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		7/21/2017	14.5	136.85	122.4	121.5	0.9	
		7/28/2017	14.1	top HDPE	122.8		1.3	
		8/4/2017	13.7		123.2		1.7	
		8/11/2017	12.8	See Note 7	124.1		2.6	
		8/18/2017	13.6		123.3		1.8	
		8/25/2017	13.7		123.2		1.7	
		9/1/2017	13.4		123.5		2.0	
		9/8/2017	13.1		123.8		2.3	
		9/15/2017	12.8		124.1		2.6	
		9/22/2017	12.8		124.1		2.6	
		9/29/2017	12.7		124.2		2.7	
		10/6/2017	13.1		123.8		2.3	
		10/13/2017	13.1		123.8		2.3	
		10/20/2017	15.2		121.7		0.2	
		10/27/2017	14.7		122.2		0.7	
		11/3/2017	14.5		122.4		0.9	
		11/10/2017	13.8		123.1		1.6	
		11/17/2017	13.8		123.1		1.6	
		11/24/2017	13.9		123.0		1.5	
		12/1/2017	15.2		121.7		0.2	
		12/8/2017	14.2		122.7	See Note 13	1.2	
		12/15/2017	15.0		121.9		0.4	
		12/22/2017	15.2		121.7		0.2	
		12/29/2017	14.3		122.6		1.1	
		1/5/2018	14.0		122.9		1.4	
		1/12/2018	13.8		123.1		1.6	
		1/19/2018	14.0		122.9		1.4	
		1/26/2018	13.9		123.0		1.5	
		2/2/2018	13.9		123.0		1.5	
		2/9/2018	13.9		123.0		1.5	
		2/16/2018	13.9		123.0		1.5	
II	MP 2-2 [6]	2/23/2018	13.9		123.0		1.5	
		3/2/2018	13.9		123.0		1.5	
		3/9/2018	13.9		123.0		1.5	
		3/16/2018	13.9		123.0		1.5	
		3/23/2018	14.0		122.9		1.4	
		3/30/2018	13.9		123.0		1.5	
		4/6/2018	13.9		123.0		1.5	
		4/13/2018	13.9		123.0		1.5	
		4/20/2018	14.0		122.9		1.4	
		4/27/2018	14.0		122.9		1.4	
		5/4/2018	14.0		122.9		1.4	
		5/11/2018	14.0		122.9		1.4	
		5/18/2018	14.0		122.9		1.4	
		5/25/2018	14.0		122.9		1.4	
		6/1/2018	14.0		122.9		1.4	
		6/8/2018	14.0		122.9		1.4	
		6/15/2018	14.0		122.9		1.4	
		6/22/2018	14.0		122.9		1.4	
		6/29/2018	14.0		122.9		1.4	
		7/6/2018	14.0		122.9		1.4	
		7/13/2018	14.0		122.9		1.4	
		7/20/2018	14.0		122.9		1.4	0.5
		7/27/2018	13.9		123.0		1.5	0.2
		8/3/2018	13.9		123.0		1.5	-0.2
		8/10/2018	13.9		123.0		1.5	-1.1
		8/17/2018	13.8		123.1		1.6	-0.2
		8/24/2018	13.8		123.1		1.6	-0.1
		8/31/2018	13.8		123.1		1.6	-0.4
		9/7/2018	13.8		123.1		1.6	-0.7
		9/14/2018	13.8		123.1		1.6	-1.0
		9/21/2018	13.8		123.1		1.6	-1.0
		9/28/2018	13.8		123.1		1.6	-1.1

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	MP 2-2 [6]	10/5/2018	13.8		123.1		1.6	-0.7
		10/12/2018	13.8		123.1		1.6	-0.7
		10/19/2018	13.8		123.1		1.6	1.4
		10/26/2018	13.8		123.1		1.6	0.9
		11/2/2018	13.8		123.1		1.6	0.7
		11/9/2018	13.7		123.2		1.7	0.1
		11/16/2018	13.8		123.1		1.6	0.0
		11/23/2018	13.5		123.4		1.9	0.4
		11/30/2018	13.6		123.3		1.8	1.6

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Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
		7/21/2017	15.0	141.05	DRY	122.4	DRY	
		7/28/2017	15.0	top HDPE	DRY	See Note 8	DRY	
		8/4/2017	15.0		DRY		DRY	
		8/11/2017	15.0		DRY		DRY	
		8/18/2017	15.0		DRY		DRY	
		8/25/2017	15.0		DRY		DRY	
		9/1/2017	15.0		DRY		DRY	
		9/8/2017	15.0		DRY		DRY	
		9/15/2017	15.0		DRY		DRY	
		9/22/2017	15.0		DRY		DRY	
		9/29/2017	15.0		DRY		DRY	
		10/6/2017	15.0		DRY		DRY	
		10/13/2017	15.0		DRY		DRY	
		10/20/2017	15.0		DRY		DRY	
		10/27/2017	15.0		DRY		DRY	
		11/3/2017	15.0		DRY		DRY	
		11/10/2017	15.0		DRY		DRY	
		11/17/2017	15.0		DRY		DRY	
		11/24/2017	15.0		DRY		DRY	
		12/1/2017	-		DRY	See Note 12	DRY	
		12/8/2017	19.4	142.3	122.9		0.5	
		12/15/2017	19.6		122.7		0.3	
		12/22/2017	19.4		122.9		0.5	
		12/29/2017	19.5		122.8		0.4	
		1/5/2018	19.1		123.2		0.8	
		1/12/2018	19.0		123.3		0.9	
		1/19/2018	19.1		123.2		0.8	
		1/26/2018	19.1		123.2		0.8	
		2/2/2018	19.1		123.2		0.8	
		2/9/2018	19.1		123.2		0.8	
		2/16/2018	19.1		123.2		0.8	
II	MP 2-3 [6]	2/23/2018	19.3		123.0		0.6	
		3/2/2018	19.1		123.2		0.8	
		3/9/2018	19.1		123.2		0.8	
		3/16/2018	19.1		123.2		0.8	
		3/23/2018	19.2		123.1		0.7	
		3/30/2018	19.1		123.2		0.8	
		4/6/2018	19.1		123.2		0.8	
		4/13/2018	19.0		123.3		0.9	
		4/20/2018	19.2		123.1		0.7	
		4/27/2018	19.2		123.1		0.7	
		5/4/2018	19.2		123.1		0.7	
		5/11/2018	19.2		123.1		0.7	
		5/18/2018	19.1		123.2		0.8	
		5/25/2018	19.1		123.2		0.8	
		6/1/2018	19.1		123.2		0.8	
		6/8/2018	19.1		123.2		0.8	
		6/15/2018	19.1		123.2		0.8	
		6/22/2018	19.1		123.2		0.8	
		6/29/2018	19.1		123.2		0.8	
		7/6/2018	19.1		123.2		0.8	
		7/13/2018	19.1		123.2		0.8	
		7/20/2018	19.1		123.2		0.8	0.8
		7/27/2018	19.2		123.1		0.7	0.7
		8/3/2018	19.1		123.2		0.8	0.8
		8/10/2018	19.1		123.2		0.8	0.8
		8/17/2018	19.0		123.3		0.9	0.9
		8/24/2018	19.0		123.3		0.9	0.9
		8/31/2018	19.0		123.3		0.9	0.9
		9/7/2018	19.0		123.3		0.9	0.9
		9/14/2018	19.0		123.3		0.9	0.9
		9/21/2018	19.0		123.3		0.9	0.9
		9/28/2018	19.0		123.3		0.9	0.9

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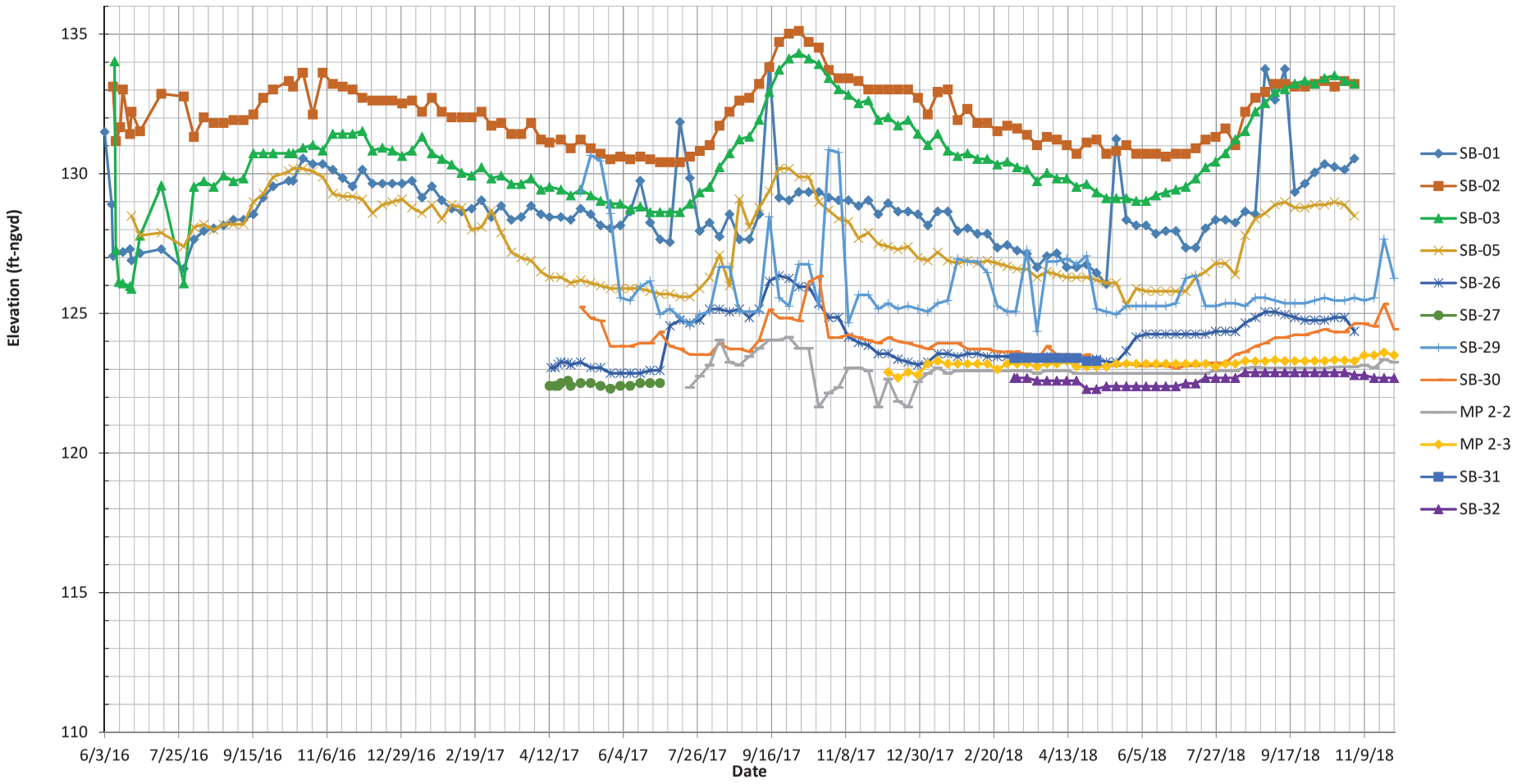
Phase	Soil Boring #	Date[1]	Depth to water (ft tpvc)	Elevation Top PVC (NGVD)	Water Elevation (NGVD)	Top of Clay Elev (NGVD)	Liquid Depth Over Clay (ft)	Depth Change Previous Year (ft)
II	MP 2-3 [6]	10/5/2018	19.0		123.3		0.9	0.9
		10/12/2018	19.0		123.3		0.9	0.9
		10/19/2018	19.0		123.3		0.9	0.9
		10/26/2018	19.0		123.3		0.9	0.9
		11/2/2018	19.0		123.3		0.9	0.9
		11/9/2018	18.8		123.5		1.1	1.1
		11/16/2018	18.8		123.5		1.1	1.1
		11/23/2018	18.7		123.6		1.2	1.2
		11/30/2018	18.8		123.5		1.1	1.1

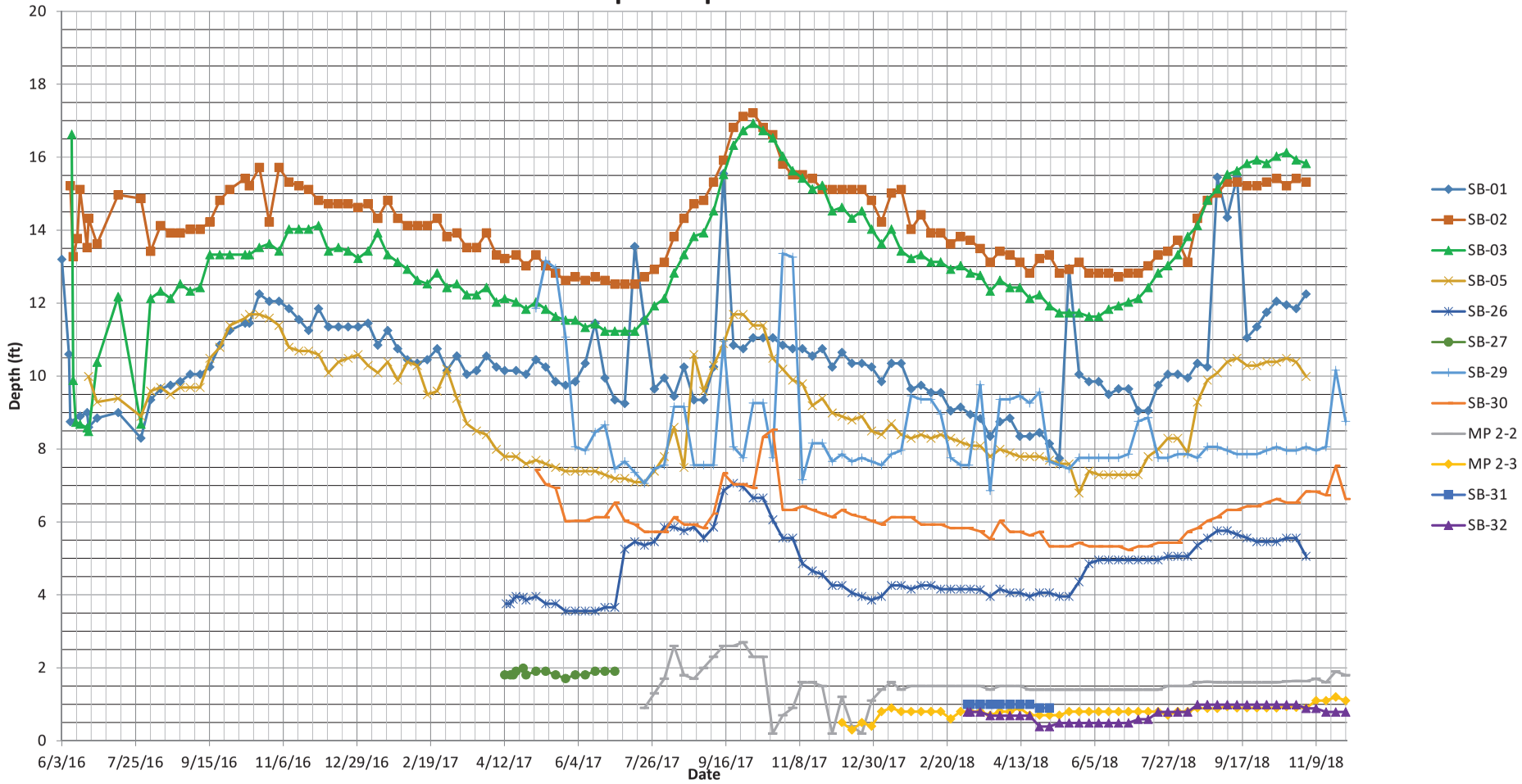
Notes:

1. Water levels collected in SB-15 through SB-23D on 2/16/17 are prior to development.
2. Approximate elevations based on raw survey data.
3. Extended riser at SB-25D due to waste filling operations.
4. Lowered riser at SB-25D in order to conduct pump test.
5. Removed SB-27 during construction of cut-off trench the week of 7-10-2017. Replaced with MP-1 and MP-2
6. Monitoring Points MP 2-2 and MP 2-3 are vertical HDPE risers installed in cutoff trench.
7. Installed pump at CO 2-2 on 8/11/2017. MP 2-2 may be affected by pumping.
8. Clay elevation at MP 2-3 is estimated based on bottom of trench survey points north and south of riser.
9. SB-25D appeared to be blocked on 9/1/2017. Investigations were conducted with an excavation that determined the piezometer is broken at 14' B.G.
10. Actively filling in the Phase IV area. SWMD extended risers at SB-23D and SB-23S.
11. Actively filling in the Phase IV and VI area. SWMD extended riser at SB-21D.
12. Construction activity at CO 2-1 on 12/1 adjusting depth of MP 2-3.
13. Pump at CO 2-2 turned off to evaluate effects of construction activity at cut-off trench.
14. SB-31 and SB-32 installed temporarily to monitor liquid level prior to excavation to determine accuracy of piezometers. Top of casing based on ground survey and measurement of stickup.
15. SB-23S was damaged after 2/2/2018 and staff has not been able to conduct liquid level measurements.
16. Slug tests on Series-2 piezometers. Levels may be artificially high. Water added on 3/28/18.
17. Extended riser at SB-22D due to waste filling operations. Added 10' on 4/22/18 and 8' on 5/11/2018.
18. SB-22D destroyed during waste filling operations in Phase VI.
19. SWMD excavated trench near SB-32 from 4/24/2018 - 4/30/2018 in order to locate Phase III header pipe and installl cleanout riser.
20. SWMD excavated trench near SB-31 from 5/7/2018 - 5/15/2018 in order to locate Phase II header pipe and installl cleanout riser. SB-31 removed on 5/11/2018.
21. Damage to SB-28D riser. Removed broken piece ~ 1.59'. Modified piezometer prior to 6/15/18.
22. PVC pipe at SB-23D sheared by landfill prior to 9/21/18 reading.
23. SB-01, 02, 03, 05, 26, P-19S, 23S and 23D were all abandoned prior to 11/9/18.
24. Power failure - DW-1 and DW-2 not pumping - allowed liquid level to increase in SB-29 and SB-30.

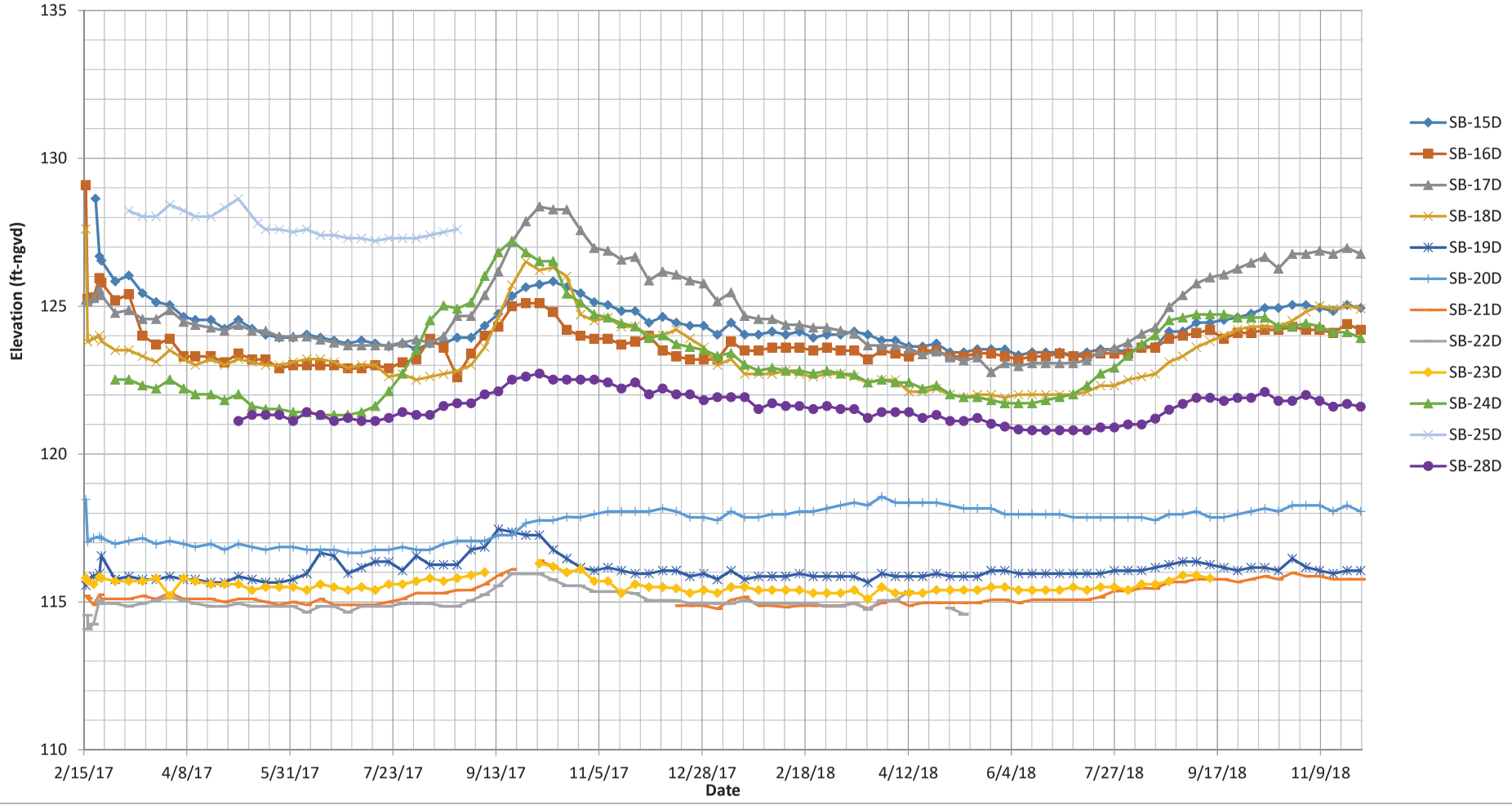
Appendix C
Liquid Elevation - Series 1



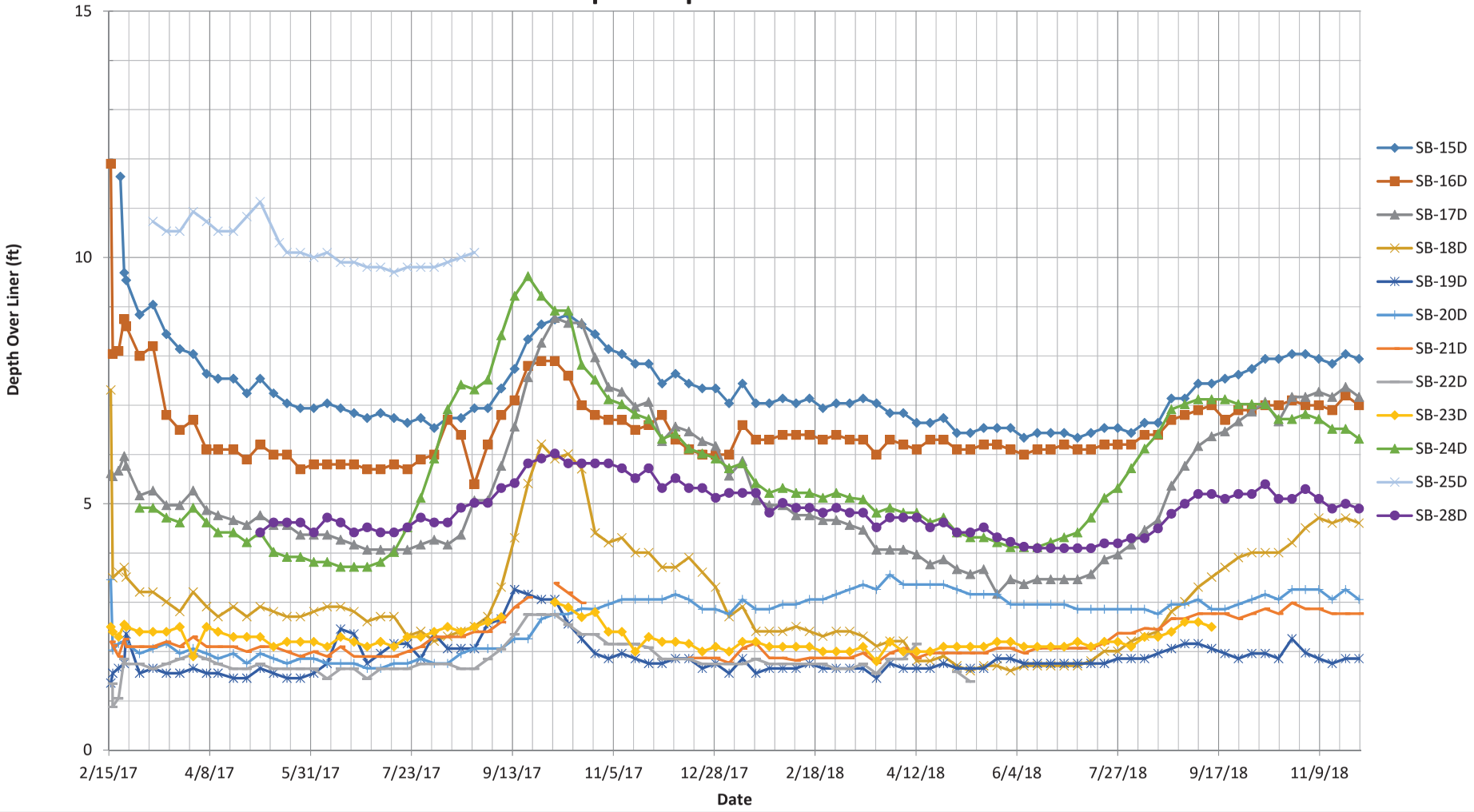
Appendix C
Liquid Depth - Series 1



Appendix C
Liquid Elevation - Series 2



Appendix C
Liquid Depth - Series 2

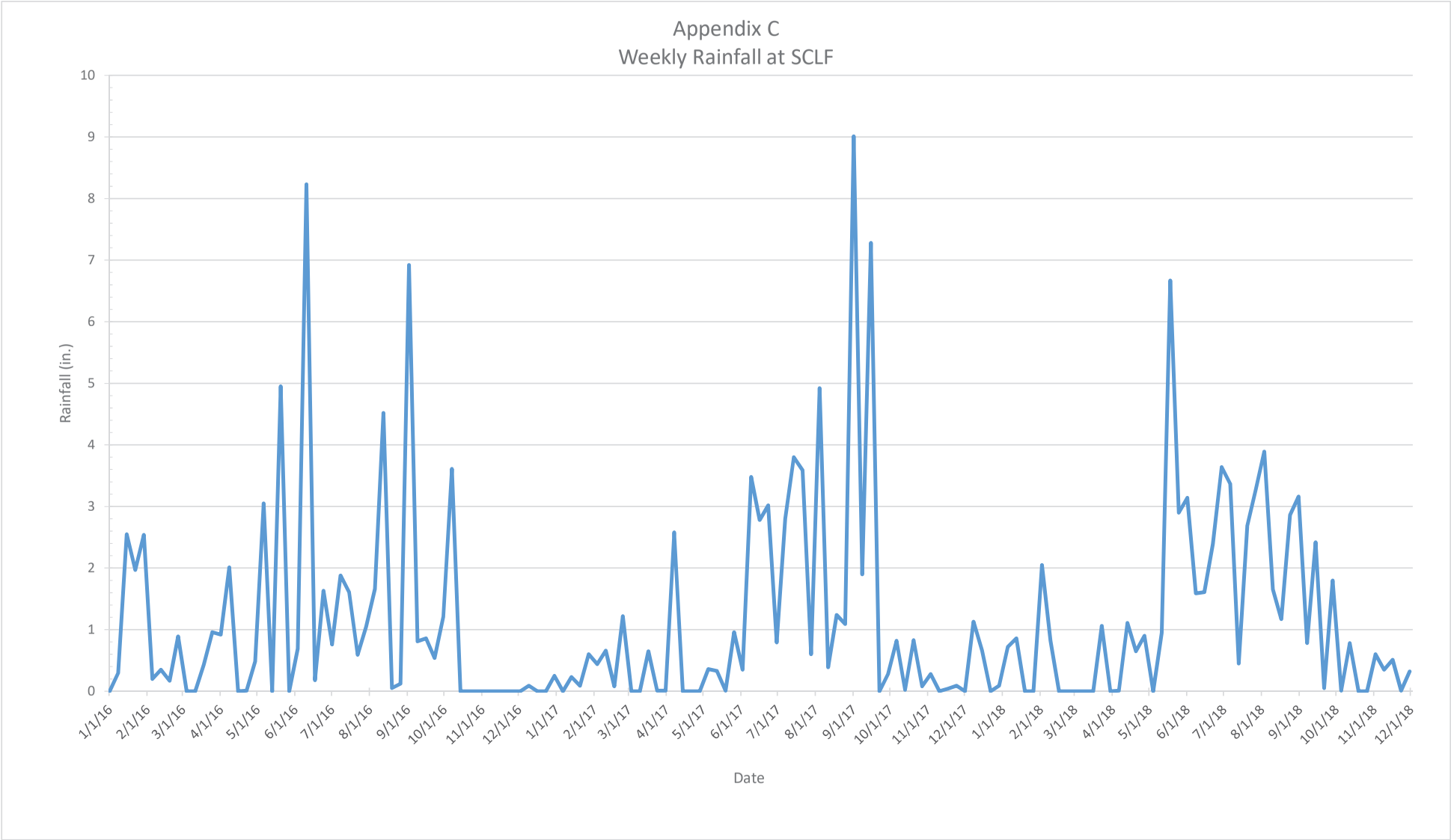


Appendix C - Rainfall Data
Liquid Assessment Monitoring
Southeast County Landfill

Week Ending	Rainfall (in.)	Remarks
1/1/16	0	
1/8/16	0.3	
1/15/16	2.55	
1/22/16	1.97	
1/29/16	2.54	
2/5/16	0.2	
2/12/16	0.35	
2/19/16	0.17	
2/26/16	0.89	
3/4/16	0	
3/11/16	0	
3/18/16	0.43	
3/25/16	0.96	
4/1/16	0.92	
4/8/16	2.01	
4/15/16	0	
4/22/16	0.01	
4/29/16	0.48	
5/6/16	3.05	
5/13/16	0	
5/20/16	4.95	
5/27/16	0	
6/3/16	0.69	
6/10/16	8.23	
6/17/16	0.18	
6/24/16	1.63	
7/1/16	0.76	
7/8/16	1.88	
7/15/16	1.61	
7/22/16	0.59	
7/29/16	1.05	
8/5/16	1.66	
8/12/16	4.52	
8/19/16	0.05	
8/26/16	0.12	
9/2/16	6.92	
9/9/16	0.81	
9/16/16	0.86	
9/23/16	0.54	
9/30/16	1.21	
10/7/16	3.61	
10/14/16	0	
10/21/16	0	
10/28/16	0	
11/4/16	0	
11/11/16	0	
11/18/16	0	
11/25/16	0	
12/2/16	0	
12/9/16	0.09	
12/16/16	0	
12/23/16	0	
12/30/16	0.25	
1/6/17	0	
1/13/17	0.23	
1/20/17	0.09	
1/27/17	0.6	
2/3/17	0.44	
2/10/17	0.66	
2/17/17	0.08	
2/24/17	1.22	
3/3/17	0	
3/10/17	0	
3/17/17	0.65	
3/24/17	0.01	
3/31/17	0.01	
4/7/17	2.58	
4/14/17	0	
4/21/17	0	
4/28/17	0	
5/5/17	0.36	
5/12/17	0.33	
5/19/17	0.01	
5/26/17	0.96	
6/2/17	0.35	
6/9/17	3.48	
6/16/17	2.78	
6/23/17	3.02	
6/30/17	0.79	
7/7/17	2.8	
7/14/17	3.8	

Appendix C - Rainfall Data
Liquid Assessment Monitoring
Southeast County Landfill

Week Ending	Rainfall (in.)	Remarks
7/21/17	3.59	
7/28/17	0.6	
8/4/17	4.92	
8/11/17	0.39	
8/18/17	1.24	
8/25/17	1.09	
9/1/17	9.01	
9/8/17	1.9	
9/15/17	7.28	
9/22/17	0	
9/29/17	0.28	
10/6/17	0.82	
10/13/17	0.02	
10/20/17	0.83	
10/27/17	0.08	
11/3/17	0.28	
11/10/17	0	
11/17/17	0.04	
11/24/17	0.09	
12/1/17	0	
12/8/17	1.13	
12/15/17	0.66	
12/22/17	0	
12/29/17	0.09	
1/5/18	0.72	
1/12/18	0.86	
1/19/18	0	
1/26/18	0	
2/2/18	2.05	
2/9/18	0.82	
2/16/18	0	
2/23/18	0	
3/2/18	0	
3/9/18	0	
3/16/18	0	
3/23/18	1.06	
3/30/18	0	
4/6/18	0.01	
4/13/18	1.11	
4/20/18	0.65	
4/27/18	0.9	
5/4/18	0	
5/11/18	0.95	
5/18/18	6.67	
5/25/18	2.90	
6/1/18	3.14	
6/8/18	1.59	
6/15/18	1.61	
6/22/18	2.39	
6/29/18	3.64	
7/6/18	3.37	
7/13/18	0.45	
7/20/18	2.68	
7/27/18	3.27	
8/3/18	3.89	
8/10/18	1.66	
8/17/18	1.17	
8/24/18	2.86	
8/31/18	3.16	
9/7/18	0.78	
9/14/18	2.42	
9/21/18	0.05	
9/28/18	1.8	
10/5/18	0.01	
10/12/18	0.78	
10/19/18	0	
10/26/18	0	
11/2/18	0.6	
11/9/18	0.35	
11/16/18	0.51	
11/23/18	0.01	
11/30/18	0.32	


Appendix C
Weekly Rainfall at SCLF
Rainfall (in.)
0
1
2
3
4
5
6
7
8
9
10
1/1/16
2/1/16
3/1/16
4/1/16
5/1/16
6/1/16
7/1/16
8/1/16
9/1/16
10/1/16
11/1/16
12/1/16
1/1/17
2/1/17
3/1/17
4/1/17
5/1/17
6/1/17
7/1/17
8/1/17
9/1/17
10/1/17
11/1/17
12/1/17
1/1/18
2/1/18
3/1/18
4/1/18
5/1/18
6/1/18
7/1/18
8/1/18
9/1/18
10/1/18
11/1/18
12/1/18
Date

Appendix D

November 2018 Water Balance

Hillsborough County Florida

SOLID WASTE MANAGEMENT
PO Box 1110 Tampa, FL 33601-1110
813-272-5680

BOARD OF COUNTY COMMISSIONERS
Ken Hagan
Pat Kemp
Lesley "Les" Miller, Jr.
Sandra L. Murman
Kimberly Overman
Mariella Smith
Stacy R. White
COUNTY ADMINISTRATOR
Michael S. Merrill
COUNTY ATTORNEY
Christine M. Beck
INTERNAL AUDITOR
Peggy Caskey

INFRASTRUCTURE SERVICES ADMINISTRATOR
John Lyons

MEMORANDUM

DATE: December 13, 2018

TO: Larry E. Ruiz, Manager Landfill Operations, Solid Waste Management Division

FROM: Cindy A. Pelley, Landfill Supervisor, Solid Waste Management Division

SUBJECT: Leachate Water Balance Report Forms for November 2018
Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Division (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI, Sections 7-8, and Section 9. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2018 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in Pump Station B sump of Phases I-VI and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 1.79 inches of rainfall recorded at the Southeast County Landfill (SCLF).

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month there was no effluent stored in Pond A.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the daily average depth in Pond B was 0.1.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. This month PS-B was below the normal operation level. The average recorded depth of leachate in the PS-B sump was 16.6 inches.

Leachate Pumped to MLPS from Phases I-VI (Column VI)

Column VI presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. This column also includes the Phase II data from the dewatering wells and PS-2. The average daily amount of leachate pumped from PS-A was 94,579 gallons. A total of 2,837,363 gallons of leachate was pumped this month.

Leachate Pumped from Sections 7-8 LDS (Column VII)

Column VII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month 1,051 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column VIII)

Column VIII presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. The quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VII). This month a total of 210,208 gallons was removed.

Leachate Pumped to LTRF from the MLPS (Column IX)

Column IX presents the total quantity of leachate pumped to the LTRF from Phases I-VI (including condensate removed from LFG Wells and Condensate Traps), and Sections 7-8. This month a total of 3,047,571 gallons of leachate was pumped to the LTRF.

Leachate Pumped to LTRF from Section 9 (Column X)

Column X presents the daily amount of leachate, in gallons, collected from Section 9 and pumped to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. A total of 114,122 gallons of leachate was pumped this month.

Leachate Pumped from Section 9 LDS (Column XI)

Column XI presents the daily amount of leachate, in gallons, collected from the LDS of Section 9 and pumped to the 575,000-gallon storage tank at the LTRF for treatment or disposal. The removal rate exceeded 4,651 gallons per day on November 14, 15, and 20th due to a pump level test. On November 14, 15, and 20th the LDS pump was operated manually until the 6-inch level was reached in lieu of the design level of 12-inches. This month 30,730 gallons of leachate was removed from the leak detection system. Currently, the County is evaluating the sump design levels.

Leachate Pumped from Compost Area Sump (Column XII)

Column XII presents the total quantity of leachate pumped to the LTRF and Pond B from the Compost Project Area Sump. This month leachate was not removed from the compost area and pumped to the LTRF.

Leachate in 575,000-Gallon Tank (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank T1 at the LTRF. The amount of leachate stored in T1 is calculated based on the circumference of the tank and the daily level reading. This month an average of 89,500 gallons of leachate was stored in the tank.

Effluent in 575,000-Gallon Tank (Column XIV)

Column XIV typically presents the daily amount of effluent, in gallons, stored in the 575,000-gallon effluent holding tank T6 at the LTRF. The SWMD began storing leachate in this tank in June. The amount of effluent/leachate stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 352,300 gallons of leachate was stored in the tank.

Leachate Treated at LTRF (Column XV)

Column XV presents the daily amount of leachate, in gallons, treated at the LTRF. On August 16, 2016, plant staff began shutting down operations for upcoming permit required tank inspections. This month leachate was not treated at the plant.

Total Leachate Hauled (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, hauled off site. This month a total of 3,044,521 gallons of leachate was hauled off site.

Leachate Dust Control Sprayed (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month leachate was not used for dust control.

Pond A Storage (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column III). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month effluent was not stored in Pond A.

Pond B Storage (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of liquid in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of leachate/effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated; was stored in Pond B. This month an average of 2,600 gallons per day of leachate was stored in Pond B.

Effluent Sprayed at Pond B (Column XX)

Column XX presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B and it is included in Column XX. This month effluent was not sprayed in Pond B.

Effluent Irrigation (Column XXI)

Column XXI presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases IV-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month effluent was not used for spray irrigation.

Effluent Dust Control Sprayed (Column XXII)

Column XXII presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XXIII)

Column XXIII presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month effluent was not hauled off site.

Total Evaporation (Column XXIV)

Column XXIV presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or requires treatment. Evaporation rates of 80 percent and 5 percent evaporation rate for spray in Pond B are assumed. Total evaporation estimated for this month was zero gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 3,195,368 gallons. Total outflow quantity from the LTRF was 3,044,521 gallons. The change in storage for the month increased by 150,847 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
NOVEMBER 2018
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	XXII	XXIII	XXIV
Day	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Estimated Depth at PS-B (in.)	Leachate Pumped to MLPS from Phases I-VI (gal.)	Leachate Pumped from Sections 7-8 LDS (gal.)	Leachate Pumped to MLPS from Sections 7-8 (gal.)	Leachate Pumped to LTRF from MPLS (gal.)	Leachate Pumped to LTRF from Section 9 (gal.)	Leachate Pumped from Section 9 LDS (gal.)	Compost Leachate (gal.)	Leachate in 575K Tank (gal.)	Effluent in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal)	Effluent Sprayed Pond B (gal)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.00	0.0	0.0	10.6	100,419	58	560	100,979	4,093	0	0	204,000	410,000	0	165,521	0	0	0	0	0	0	0	0
2	0.60	0.0	0.0	20.8	107,380	82	13,048	120,428	4,347	0	0	130,000	417,000	0	174,810	0	0	0	0	0	0	0	0
3	0.00	0.0	0.0	21.0	101,523	0	6,254	107,777	4,802	0	0	130,000	360,000	0	142,026	0	0	0	0	0	0	0	0
4	0.00	*0.0*	*0.0*	*18.3*	*98,932*	*27*	*7,058*	*105,990*	*1,739*	0	0	*130,000*	*393,000*	0	0	0	0	0	0	0	0	0	0
5	0.19	0.0	0.0	15.5	98,949	27	7,058	106,007	1,739	0	0	130,000	427,000	0	131,988	0	0	0	0	0	0	0	0
6	0.00	0.0	0.0	13.9	101,915	0	7,650	109,565	8,217	0	0	130,000	386,000	0	162,146	0	0	0	0	0	0	0	0
7	0.04	0.0	0.0	12.2	100,262	27	5,582	105,844	3,162	0	0	130,000	341,000	0	125,380	0	0	0	0	0	0	0	0
8	0.12	0.0	0.0	20.3	99,723	37	7,406	107,129	2,916	0	0	130,000	312,000	0	117,541	0	0	0	0	0	0	0	0
9	0.00	0.0	0.0	22.0	98,592	36	5,546	104,138	4,554	0	0	130,000	295,000	0	89,202	0	0	0	0	0	0	0	0
10	0.00	0.0	0.0	18.0	98,012	66	7,556	105,568	3,501	0	0	130,000	312,000	0	131,311	0	0	0	0	0	0	0	0
11	0.00	*0.0*	*0.0*	*18.7*	*93,992*	*31*	*6,381*	*100,373*	*3,700*	0	0	*130,000*	*344,000*	0	0	0	0	0	0	0	0	0	0
12	0.00	0.0	0.0	19.3	93,899	31	6,381	100,280	3,700	0	0	130,000	377,000	0	133,057	0	0	0	0	0	0	0	0
13	0.00	0.0	0.0	12.5	96,634	33	5,462	102,096	4,874	129	0	115,000	338,000	0	154,681	0	0	0	0	0	0	0	0
14	0.50	0.0	0.0	19.8	95,169	33	9,930	105,099	5,396	17,793	0	113,000	317,000	0	146,096	0	0	0	0	0	0	0	0
15	0.01	0.0	0.0	15.1	100,372	33	6,190	106,562	5,519	8,749	0	96,000	288,000	0	125,447	0	0	0	0	0	0	0	0
16	0.00	0.0	0.0	12.1	93,563	64	5,746	99,309	5,556	0	0	96,000	254,000	0	124,955	0	0	0	0	0	0	0	0
17	0.01	0.0	0.0	14.0	88,141	27	15,382	103,523	1,813	0	0	77,000	240,000	0	43,806	0	0	0	0	0	0	0	0
18	0.00	*0.0*	*0.0*	*16.5*	*91,904*	*32*	*11,626*	*103,530*	*3,275*	0	0	*77,000*	*308,000*	0	0	0	0	0	0	0	0	0	0
19	0.00	0.0	0.0	18.9	90,621	32	11,626	102,247	3,275	0	0	77,000	377,000	0	89,668	0	0	0	0	0	0	0	0
20	0.00	0.0	0.0	19.5	91,863	32	196	92,059	3,429	3,929	0	62,000	377,000	0	133,796	0	0	0	0	0	0	0	0
21	0.00	0.0	0.0	15.2	90,358	30	4,078	94,436	2,948	130	0	38,000	326,000	0	134,078	0	0	0	0	0	0	0	0
22	0.00	*0.0*	*0.0*	*12.7*	*90,604*	*29*	*6,479*	*97,083*	*3,359*	0	0	*37,000*	*353,000*	0	0	0	0	0	0	0	0	0	0
23	0.00	0.0	0.0	10.1	90,646	29	6,479	97,125	3,359	0	0	36,000	379,000	0	132,688	0	0	0	0	0	0	0	0
24	0.00	0.0	0.0	17.5	96,434	36	7,988	104,422	3,283	0	0	36,000	353,000	0	87,977	0	0	0	0	0	0	0	0
25	0.00	*0.0*	*0.0*	*18.9*	*95,762*	*36*	*6,019*	*101,781*	*4,097*	0	0	*36,000*	*407,000*	0	0	0	0	0	0	0	0	0	0
26	0.32	0.0	0.0	20.2	95,426	36	6,019	101,445	4,097	0	0	36,000	461,000	0	88,343	0	0	0	0	0	0	0	0
27	0.00	0.0	0.0	20.2	87,965	63	8,658	96,623	3,673	0	0	31,000	381,000	0	124,882	0	0	0	0	0	0	0	0
28	0.00	0.0	1.4	11.6	85,950	27	3,544	89,494	3,221	0	0	29,000	345,000	0	124,129	0	0	38,000	0	0	0	0	0
29	0.00	0.0	1.2	14.8	80,360	29	6,558	86,918	3,000	0	0	29,000	331,000	0	80,335	0	0	28,000	0	0	0	0	0
30	0.00	0.0	0.8	19.4	81,996	31	7,748	89,744	3,479	0	0	29,000	360,000	0	80,658	0	0	12,000	0	0	0	0	0
Total	1.79				2,837,363	1,051	210,208	3,047,571	114,122	30,730	0			0	3,044,521	0			0	0	0	0	0
Daily Average		0.0	0.1	16.6	94,579	35	7,007	101,586	3,804	1,024	0	89,500	352,300				0	2,600					
Mo. Average																0				0	0	0	0

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Notes:
1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
3. Daily average is calculated by dividing the total by the actual days measured in the month.
4. Monthly average calculated by dividing the total by the number of days of the month.
5. Column II, Trace is less than 0.01 inches and is not included in total.
6. Columns III and IV, field measured at staff gauges.
7. Columns VII & VIII, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
8. Column XIII and XIV, calculated from depth in 575,000 gal. tanks.
9. Columns VI-XII, XVI, and XX-XXIV, quantities from flow meters.
10. Column XXIV includes 80% of the daily values from Columns XVII, XXI - XXII, plus 5% of the daily values from column XX.

TABLE 2. FIELD DATA ENTRY FORM
NOVEMBER 2018
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Day	Rainfall (in.)	Flow Meter Pump Sta. A (gal.)	Reading PS-B (in.)	Section 9 Pump 1 (gal.)	Section 9 Pump 2 (gal.)	Section 9 LDS (gal.)	Compost Leachate (gal.)	Sections 7-8 Pump (gal.)	Sections 7-8 LDS (gal.)	Pond B Depth (ft.)	Pond B Effluent Sprayed (gal)	Pond A Depth (ft.)	Effluent Spray Irrigation (gal.)	Depth in 575K Tank Leachate (ft.)	Depth in 575K Tank Effluent (ft.)	Leachate Treated at LTRF (gal.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal)
																	Contractor (gal.)	County (gal.)		Contractor (gal.)	County (gal.)	
1	0.00	4,522,900	10.6	1,256,255	1,232,939	5,851,047	1,647,318	8,659,088	83,698	0.0	0.0	0.0	0	7.08	14.25		130,266	35,255				
2	0.60	4,627,958	20.8	1,258,419	1,235,122	5,851,047	1,647,318	8,672,136	83,780	0.0	0.0	0.0	0	4.50	14.50		146,044	28,766				
3	0.00	4,727,233	21.0	1,260,805	1,237,538	5,851,047	1,647,318	8,678,390	83,780	0.0	0.0	0.0	0	4.50	12.50		98,786	43,240				
4	0.00	*4,823,917*	*18.3*	*1,261,688*	*1,238,394*	*5,851,048*	*1,647,318*	*8,685,448*	*83,807*	*0.0*		*0.0*		*4.50*	*13.67*							
5	0.19	4,920,600	15.5	1,262,570	1,239,250	5,851,048	1,647,318	8,692,506	83,833	0.0	0.0	0.0	0	4.50	14.83		103,626	28,362				
6	0.00	5,020,300	13.9	1,266,638	1,243,399	5,851,185	1,647,318	8,700,156	83,833	0	0	0	0	4.50	13.42		126,743	35,403				
7	0.04	5,118,300	12.2	1,268,220	1,244,979	5,851,177	1,647,318	8,705,738	83,860	0.0	0.0	0.0	0	4.50	11.83		96,742	28,638				
8	0.12	5,215,700	20.3	1,269,676	1,246,439	5,851,166	1,647,318	8,713,144	83,897	0.0	0.0	0.0	0	4.50	10.83		82,041	35,500				
9	0.00	5,312,009	22.0	1,271,956	1,248,713	5,851,153	1,647,318	8,718,690	83,933	0.0	0.0	0.0	0	4.50	10.25		82,097	7,105				
10	0.00	5,407,373	18.0	1,273,702	1,250,468	5,851,143	1,647,318	8,726,246	83,999	0.0	0	0.0	0	4.50	10.83		87,421	43,890				
11	0.00	*5,499,087*	*18.7*	*1,275,561*	*1,252,309*	*5,851,133*	*1,647,318*	*8,732,627*	*84,030*	*0.0*		*0.0*		*4.50*	*11.96*							
12	0.00	5,590,800	19.3	1,277,420	1,254,150	5,851,123	1,647,318	8,739,008	84,061	0.0	0.0	0.0	0	4.50	13.08		133,057	0				
13	0.00	5,685,400	12.5	1,279,829	1,256,615	5,851,252	1,647,318	8,744,470	84,094	0	0	0	0	4.00	11.75		118,782	35,899				
14	0.50	5,778,437	19.8	1,282,528	1,259,312	5,869,045	1,647,318	8,754,400	84,127	0.0	0.0	0.0	0	3.92	11.00		110,572	35,524				
15	0.01	5,876,832	15.1	1,285,278	1,262,081	5,877,794	1,647,318	8,760,590	84,160	0.0	0.0	0.0	0	3.33	10.00		125,447	0				
16	0.00	5,969,960	12.1	1,288,579	1,264,336	5,877,783	1,647,318	8,766,336	84,224	0.0	0.0	0.0	0	3.33	8.83		103,588	21,367				
17	0.01	6,056,359	14.0	1,289,480	1,265,248	5,877,785	1,647,318	8,781,718	84,251	0.0	0.0	0.0	0	2.67	8.33		0	43,806				
18	0.00	*6,146,521*	*16.5*	*1,291,117*	*1,266,887*	*5,877,745*	*1,647,318*	*8,793,344*	*84,283*	*0.0*		*0.0*		*2.67*	*10.71*							
19	0.00	6,236,683	18.9	1,292,753	1,268,525	5,877,705	1,647,318	8,804,970	84,314	0.0	0.0	0.0	0	2.67	13.08		89,668	0				
20	0.00	6,328,546	19.5	1,294,464	1,270,243	5,881,634	1,647,318	8,805,166	84,346	0.0	0.0	0.0	0	2.17	13.08		133,796	0				
21	0.00	6,417,200	15.2	1,295,934	1,271,721	5,881,764	1,647,318	8,809,244	84,376	0.0	0.0	0.0	0	1.33	11.33		134,078	0				
22	0.00	*6,506,100*	*12.7*	*1,297,614*	*1,273,400*	*5,881,762*	*1,647,318*	*8,815,723*	*84,405*	*0.0*		*0.0*		*1.29*	*12.25*							
23	0.00	6,595,000	10.1	1,299,294	1,275,079	5,881,760	1,647,318	8,822,202	84,434	0.0	0.0	0.0	0	1.25	13.17		89,657	43,031				
24	0.00	6,689,950	17.5	1,300,932	1,276,724	5,881,760	1,647,318	8,830,190	84,470	0.0	0.0	0.0	0	1.25	12.25		44,596	43,381				
25	0.00	*6,784,228*	*18.9*	*1,302,991*	*1,278,762*	*5,881,760*	*1,647,318*	*8,836,209*	*84,506*	*0.0*		*0.0*		*1.25*	*14.13*							
26	0.32	6,878,506	20.2	1,305,050	1,280,800	5,881,759	1,647,318	8,842,228	84,541	0.0	0.0	0.0	0	1.25	16.00		67,365	20,978				
27	0.00	6,965,510	20.2	1,306,864	1,282,659	5,881,757	1,647,318	8,850,886	84,604	0.0	0.0	0.0	0	1.08	13.25		89,418	35,464				
28	0.00	7,050,195	11.6	1,308,474	1,284,270	5,881,753	1,647,318	8,854,430	84,631	1.4	0.0	0.0	0	1.00	12.00		81,702	42,427				
29	0.00	7,128,607	14.8	1,309,975	1,285,769	5,881,750	1,647,318	8,860,988	84,660	1.2	0.0	0.0	0	1.00	11.50		44,731	35,604				
30	0.00	7,209,224	19.4	1,311,706	1,287,517	5,881,750	1,647,318	8,868,736	84,691	0.8	0.0	0.0	0	1.00	12.50		44,661	35,997				
Totals	1.79										0		0			0	2,364,884	679,637	0	0	0	0

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Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
3. Columns G and J include quantities from leak detection system.
4. Column B, trace is less than 0.01 inches.
5. Columns C, D, E, F, G, H, I, J, K, L, N, R-V and W are quantities from flow meters.
6. Columns K and M measured from staff gages in each pond.

Type of Cover	Phases I-VI acres	Section 9 acres
Open	5	0
Intermediate	134.4	15
Final	23	0
Not Opened	0	0

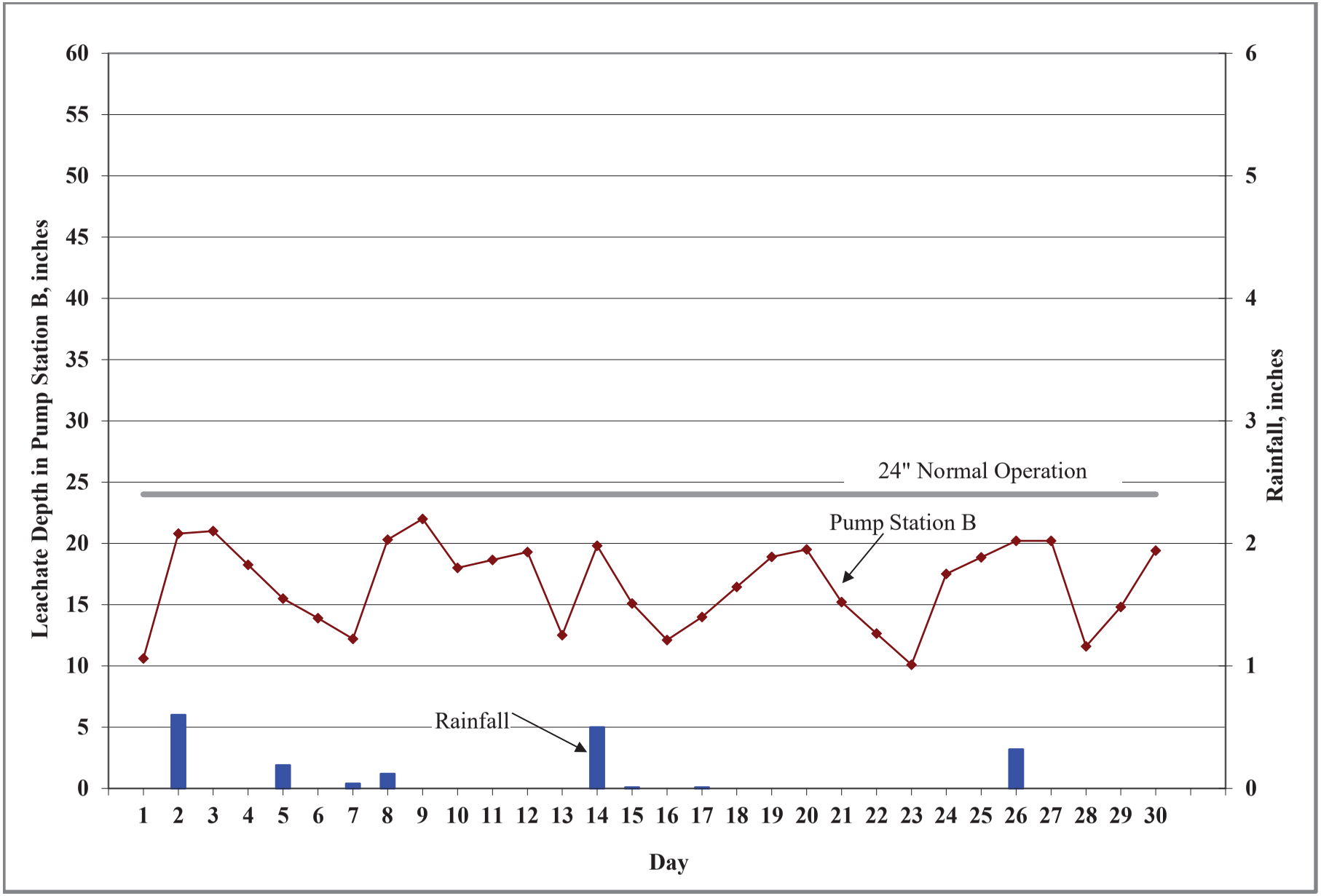

Figure 1. Leachate Levels in Pump Station B and Rainfall for November 2018.

TABLE 3. LEACHATE BALANCE SUMMARY
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA
YEAR-2018

		Leachate Arriving at LTRF					Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
Month	Rainfall (in.)	Condensate from LFG CS-1 (gal.)	Leachate from Section 9 Pumped to LTRF (gal.)	Leachate from Section 7-8 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Compost Leachate (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage[3] (gal.)
January	3.63	986	136,192	132,787	2,699,895	0	2,278,282	9,334	728,100	249,302	0	410,330	2,969,860	3,015,716	-45,856
February	0.82	1,707	102,640	20,127	2,194,846	62,685	1,716,430	1,584	518,000	136,771	0	357,793	2,382,005	2,236,014	145,991
March	1.06	4,700	73,738	74,047	2,123,174	23,840	1,495,682	9,695	814,870	311,813	0	336,300	2,299,499	2,320,247	-20,748
April	2.70	4,147	75,436	237,863	2,064,425	3,295	1,683,678	3,216	567,800	155,769	0	340,297	2,385,166	2,254,694	130,472
May	13.66	7,387	154,146	242,640	2,213,290	398,577	3,496,465	0	316,811	165,637	0	149,558	3,016,040	3,813,276	-797,236
June	9.85	7,268	247,237	344,735	2,618,410	235,469	3,133,577	0	589,200	0	0	10,310	3,453,119	3,722,777	-269,659
July	11.14	38,562	377,170	644,684	3,465,128	345,327	4,873,090	0	671,506	0	0	0	4,870,871	5,544,596	-673,725
August	10.75	89,486	442,037	664,397	4,225,908	423,745	6,331,834	0	305,100	0	0	0	5,845,573	6,636,934	-791,361
September	5.05	30,919	334,516	555,721	4,432,570	169,431	5,450,760	1,610	0	0	0	0	5,523,157	5,452,370	70,787
October	0.88	620	162,014	288,568	3,828,993	100	4,069,395	1,539	0	0	0	0	4,280,295	4,070,934	209,361
November	1.79	2,945	144,852	210,208	2,837,363	0	3,044,521	0	0	0	0	0	3,195,368	3,044,521	150,847
December															
YTD Total	61.33	188,727	2,249,978	3,415,777	32,704,001	1,662,469	37,573,714	26,978	4,511,387	1,019,292	0	1,604,588	40,220,951	42,112,079	-1,891,128

Note:
1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
2. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

Appendix E

Well Abandonment Report

December 5, 2018
File No. 09215600.07

Mr. Larry Ruiz, SC
Hillsborough County Transportation and Utilities Services
Solid Waste Management Division
332 N. Falkenburg Rd.
Tampa, Florida 33619

Subject: Series I Piezometer Abandonment
Southeast County Landfill

Dear Mr. Ruiz:

SCS Engineers (SCS) was retained by Hillsborough County Transportation and Utilities Services, Solid Waste Management Division (SWMD) to abandon eight piezometers at the Southeast County Landfill (SCLF) in Lithia, Florida. This correspondence provides written documentation of the abandonment activities. A site map showing the location of the abandoned piezometers is provided in **Appendix A** (Figure 1).

SCS retained Ambient Technologies, Inc. (ATI), a Florida-licensed well drilling firm, to conduct the abandonments. Abandonment activities occurred on November 5 and 7, 2018. Piezometers SB-01, SB-02, SB-03, SB-05, and SB-26 were abandoned on November 5, 2018 and piezometers SB-19S, SB-23S, and SB-23D were abandoned on November 7, 2018.

All abandonments were completed in accordance with Florida Department of Environmental Protection Chapter 62-532.500 Florida Administrative Code (FAC). The piezometers listed above were abandoned below surface. The surface soil immediate surrounding each of the polyvinylchloride (PVC) casings was excavated approximately one-foot below ground surface to expose a section of the buried pipe. The casings were cut below grade and filled with grout using a tremmie pipe. After grouting each of the casings, ATI repaired the ground surface to previous conditions using surrounding soils. In addition to grouting the casings, ATI filled the annular space surrounding the casings of piezometers SB-01, SB-03, and SB-05 to limit further infiltration of storm water.

Field activities were observed and documented by an SCS representative. The abandonment reports completed by ATI are provided as **Appendix B**. Select photographs of the abandonment event are provided as **Appendix C**. A summary of the abandonment activities including measured piezometer depths and the quantity of grout used is provided in Table 1.

Table 1. Summary of Abandonment Details

Piezometer Name/ID	Piezometer Casing Material	Measured Field Depth (feet below ground surface)	Estimated Gallons Required (based on field measurement)	Grout Used (gallons)	Grout Used (bags)
SB-01	2" PVC	13.0 [1]	2.1	30 [1,2]	4
SB-02	2" PVC	60.2	9.6	15	2
SB-03	2" PVC	66.2	10.6	45 [2]	6
SB-05	2" PVC	58.2	9.3	35 [2]	4.5
SB-19S	2" PVC	77.0	12.3	18	3
SB-23S	2" PVC	10.3 [3]	1.7	3	0.5
SB-23D	2" PVC	24.0 [4]	3.8	19	3
SB-26	2" PVC	25.8	4.1	9	1.5

Notes:

1. The SB-01 riser was removed prior to grouting and a piece of soil or waste prevented complete measurement. The addition of grout to the casing freed the obstruction and the entirety of the casing was filled with grout.
2. Annular space grouted in addition to casing.
3. SB-23S was damaged due to shifting waste. The grout did not advance past the casing damage.
4. SB-23D was damaged due to shifting waste at 24 feet below ground surface. The casing accepted more grout than the calculated. Therefore, we believe that the grout advanced past the damaged section of pipe.

Please do not hesitate to contact me at (813) 804-6716 or Ken Guilbeault at (813) 804-6706 should you have any questions or require additional information.

Sincerely,

Kollan L. Spradlin, P.E.
Project Professional
SCS Engineers

Ken E. Guilbeault, P.G.
Project Director
SCS Engineers

KLS/KEG:dd

cc: Kimberly Byer, SWMD
Joseph O'Neill, SWMD
Micheal Townsel, Hillsborough County

APPENDIX A

MAP OF ABANDONED PIEZOMETERS

LEGEND:

SB-27 ABANDONED PIEZOMETER LOCATION

PHASE LIMIT

NOTE:

1. TOPOGRAPHIC SURVEY BY PICKETT, JULY 2018.

SCS ENGINEERS

F:\PROJECT\HILLSBOROUGH\09215600.00\TASK 1110 - CORRECTIVE ACTIONS PLAN\PIEZOMETERS\SERIES 1 ABANDONMENT\PHASES I-VI ABANDONED PIEZOMETERS.DWG

FIGURE 1. MAP OF ABANDONED PIEZOMETERS
SOUTHEAST COUNTY LANDFILL PHASES I–VI
NOVEMBER 2018

APPENDIX B

PIEZOMETER ABANDONMENT REPORTS

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 12:03 pm
Official Use Only

1. *Permit Number 874147 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 8 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name HILLSBOROUGH COUNT 4. *Completion Date 11/05/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 28.72 Longitude 82 10 57.33

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10. *Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11. *Specify Intended Use(s) of Well(s):
___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12. *Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13. *Measured Static Water Level 10.0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14. *Measuring Point (Describe) _____ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15. *Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16. *Total Well Depth 13.0 ft. Cased Depth 13.0 ft. *Open Hole: From ___ To ___ ft. *Screen: From ___ To ___ ft. Slot Size _____

17. *Abandonment: X Other (Explain) PLUGGED

2" From 0.00 ft.	To 13.00 ft.	No. of Bags 4.00	Seal Material (Check One):	Neat Cement	Bentonite X Other Slurry Bentonit
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___

18. *Surface Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___

19. *Primary Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth ___ ft. Intake Depth ___ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
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P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material
From	ft.	To	ft.	Color		Grain Size (F, M, C)		Material

Comments: Finish: PLUGGED

SB01 it seems to be collapsed at 13ft.

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 11:52 am

Official Use Only

1. *Permit Number 874016 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 5 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name HILLSBOROUGH COUNT 4. *Completion Date 11/05/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 30.40 Longitude 82 11 01.33

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10. *Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11. *Specify Intended Use(s) of Well(s):
___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12. *Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13. *Measured Static Water Level 10.0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14. *Measuring Point (Describe) _____ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15. *Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16. *Total Well Depth 60.2 ft. Cased Depth 60.2 ft. *Open Hole: From ___ To ___ ft. *Screen: From ___ To ___ ft. Slot Size _____

17. *Abandonment: X Other (Explain) PLUGGED

2" From 0.00 ft.	To 60.20 ft.	No. of Bags 2.00	Seal Material (Check One):	Neat Cement	Bentonite X	Other Slurry Grout	
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other	
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other	
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other	
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other	

18. *Surface Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

19. *Primary Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth ___ ft. Intake Depth ___ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

FORM LEG-R.005.02 (06/10) Rule 40D-3.411 (1)(a), F.A.C. EFFECTIVE DATE: 9/12/2010

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

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152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____

Comments: Finish: PLUGGED

SB02

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 11:52 am
Official Use Only

1. *Permit Number 874016 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 5 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name HILLSBOROUGH COUNT 4. *Completion Date 11/05/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 27.01 Longitude 82 10 52.52

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10. *Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11. *Specify Intended Use(s) of Well(s):
___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12. *Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13. *Measured Static Water Level 10.0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14. *Measuring Point (Describe) _____ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15. *Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16. *Total Well Depth 66.2 ft. Cased Depth 66.2 ft. *Open Hole: From ___ To ___ ft. *Screen: From ___ To ___ ft. Slot Size _____

17. *Abandonment: X Other (Explain) PLUGGED

2" From 0.00 ft.	To 66.20 ft.	No. of Bags 6.00	Seal Material (Check One):	Neat Cement	Bentonite X	Other Slurry Grout
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other

18. *Surface Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

19. *Primary Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth ___ ft. Intake Depth ___ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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LIVE OAK, FL 32060
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WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material

Comments: Finish: PLUGGED

SB03

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 11:52 am
Official Use Only

1. *Permit Number 874016 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 5 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name HILLSBOROUGH COUNT 4. *Completion Date 11/05/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 23.47 Longitude 82 11 01.26

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10. *Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11. *Specify Intended Use(s) of Well(s):
___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12. *Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13. *Measured Static Water Level 10.0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14. *Measuring Point (Describe) _____ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15. *Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16. *Total Well Depth 58.2 ft. Cased Depth 58.2 ft. *Open Hole: From ___ To ___ ft. *Screen: From ___ To ___ ft. Slot Size _____

17. *Abandonment: X Other (Explain) PLUGGED

2" From 0.00 ft.	To 58.20 ft.	No. of Bags 4.50	Seal Material (Check One):	Neat Cement	Bentonite X	Other Slurry Grout
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other

18. *Surface Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

19. *Primary Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth ___ ft. Intake Depth ___ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
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P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
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WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material

Comments: Finish: PLUGGED

SB05

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 11:52 am
Official Use Only

1. *Permit Number 874016 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 5 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name HILLSBOROUGH COUNT 4. *Completion Date 11/07/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 24.57 Longitude 82 10 51.51

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10. *Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11. *Specify Intended Use(s) of Well(s):
___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12. *Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13. *Measured Static Water Level 10.0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14. *Measuring Point (Describe) _____ Which is _____ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15. *Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16. *Total Well Depth 77.00 ft. Cased Depth 77.00 ft. *Open Hole: From _____ To _____ ft. *Screen: From _____ To _____ ft. Slot Size _____

17. *Abandonment: X Other (Explain) PLUGGED

2" From 0.00 ft.	To 77.00 ft.	No. of Bags 3.00	Seal Material (Check One):	Neat Cement	Bentonite X	Other Slurry Grout
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other ___
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other ___
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other ___
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other ___

18. *Surface Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___

19. *Primary Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:

Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___
Dia ___ in.	From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
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152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
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P.O. BOX 24680
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____

Comments: Finish: PLUGGED

SB-19S

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 12:03 pm

Official Use Only

1.*Permit Number 874147 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2.*Number of permitted wells constructed, repaired, or abandoned 8 *Number of permitted wells not constructed, repaired, or abandoned 0

3.*Owner's Name HILLSBOROUGH COUNT 4.*Completion Date 11/07/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 24.66 Longitude 82 10 58.83

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10.*Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11.*Specify Intended Use(s) of Well(s):

___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12.*Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13.*Measured Static Water Level 10.0 ft. Measured Pumping Water Level ___ ft. After ___ Hours at ___ GPM

14.*Measuring Point (Describe) _____ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15.*Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16.*Total Well Depth 10.3 ft. Cased Depth 10.3 ft. *Open Hole: From ___ To ___ ft. *Screen: From ___ To ___ ft. Slot Size ___

17.*Abandonment: X Other (Explain) i Ln GGED

2B From 0.00 ft. To 10.30 ft. No. of Bags .50 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Slurry oet "Pt U
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

18.*Surface Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

19.*Primary Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20.*Liner Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

21.*Telescope Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower ___ Pump Capacity (GPM) ___
Pump Depth ___ ft. Intake Depth ___ ft.

23. Chemical Analysis (When Required):
Iron ___ ppm Sulfate ___ ppm Chloride ___ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

FORM LEG-R.005.02 (06/10) Rule 40D-3.411 (1)(a), F.A.C. EFFECTIVE DATE: 9/12/2010

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
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P.O. BOX 24680
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WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____
From_____ ft.	To_____ ft.	Color_____	Grain Size (F, M, C)_____	Material_____

Comments: Flush: i LnGGED

SB23S Apparently bent - Only able to reach 10.3ft

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 11:52 am
Official Use Only

1. *Permit Number 874016 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 5 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name HILLSBOROUGH COUNT 4. *Completion Date 11/07/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 30.13 Longitude 82 10 54.53

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10. *Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11. *Specify Intended Use(s) of Well(s):
___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12. *Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13. *Measured Static Water Level 10.0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14. *Measuring Point (Describe) _____ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15. *Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16. *Total Well Depth 24.0 ft. Cased Depth 24.00 ft. *Open Hole: From ___ To ___ ft. *Screen: From ___ To ___ ft. Slot Size _____

17. *Abandonment: X Other (Explain) PLUGGED

2" From 0.00 ft.	To 24.0 ft.	No. of Bags 3.00	Seal Material (Check One):	Neat Cement	Bentonite X	Other Slurry Grout
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other
From ___ ft.	To ___ ft.	No. of Bags ___	Seal Material (Check One):	Neat Cement	Bentonite	Other

18. *Surface Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

19. *Primary Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth ___ ft. Intake Depth ___ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material

Comments: Finish: PLUGGED

SB23D Blocked at 24ft.

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

STATE OF FLORIDA WELL COMPLETION REPORT

☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Nov 15, 2018 12:03 pm
Official Use Only

1.*Permit Number 874147 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2.*Number of permitted wells constructed, repaired, or abandoned 8 *Number of permitted wells not constructed, repaired, or abandoned 0

3.*Owner's Name HILLSBOROUGH COUNT 4.*Completion Date 11/05/2018 5. Florida Unique ID _____

6. 15960 672 HWY N/A
*Well Location - Address, Road Name or Number, City, ZIP

7. *County Hillsborough *Section 23 Land Grant _____ *Township 31 *Range 21

8. Latitude 27 46 28.78 Longitude 82 10 51.47

9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10.*Type of Work: ___ Construction ___ Repair ___ Modification X Abandonment

11.*Specify Intended Use(s) of Well(s):
___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____

X Other (Describe) PLUGGED

12.*Drill Method: ___ Auger ___ Cable Tool ___ Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
___ Horizontal Drilling ___ Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD

13.*Measured Static Water Level 10.0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14.*Measuring Point (Describe) _____ Which is ___ ft. ___ Above ___ Below Land Surface *Flowing: ___ Yes ___ No

15.*Casing Material: ___ Black Steel ___ Galvanized X PVC ___ Stainless Steel ___ Not Cased ___ Other _____

16.*Total Well Depth 25.8 ft. Cased Depth 25.8 ft. *Open Hole: From ___ To ___ ft. *Screen: From ___ To ___ ft. Slot Size _____

17.*Abandonment: X Other (Explain) i Ln GGED

2B From 0.00 ft. To 25.80 ft. No. of Bags 1.5 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Slurry oet "Pt U
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

18.*Surface Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

19.*Primary Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20.*Liner Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

21.*Telescope Casing Diameter and Depth:
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If Known):
___ Centrifugal ___ Jet ___ Submersible ___ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth ___ ft. Intake Depth ___ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Theotis Grider *License Number 9520 E-mail Address jeremy@ambienttech.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Theotis Grider
(I certify that the information provided in this report is accurate and true.)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
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9225 CR 49
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***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____
From_____ ft. To_____ ft. Color_____ Grain Size (F, M, C)_____ Material_____

Comments: Flush: i LnGGED

So 26

***Detailed Site Map of Well Location**

N

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

APPENDIX C

PHOTOGRAPHS

SCLF Series I Piezometers Abandonment

Date: 11/5/18
Description: Preparing SB-01 for abandonment

Date: 11/5/18
Description: Grouting SB-02

Date: 11/5/18
Description: Measuring the depth of SB-03 prior to grouting

Date: 11/5/18
Description: Installing tremmie tube to grout SB-03

SCLF Series I Piezometers Abandonment

Date: 11/5/18
Description: SB-26 cut below ground surface

Date: 11/5/18
Description: SB-26 grouted prior to surface soil repair

Date: 11/5/18
Description: SB-26 repaired with surrounding soils

Date: 11/7/18
Description: SB-19S prior to abandonment

SCLF Series I Piezometers Abandonment

Date: 11/7/18
Description: Installing tremmie tube to grout SB-19S

Date: 11/7/18
Description: SB-19S grouted prior to repair of surface soil

Date: 11/5/18
Description: Measuring SB-23D prior to grouting

Date: 11/5/18
Description: SB-23D grouted prior to repair of surface soil