ENTERPRISE CLASS III LANDFILL
AND RECYCLING FACILITY
SECOND SEMIANNUAL COMPLIANCE MONITORING REPORT 2016 AND FOURTH QUARTER LANDFILL GAS REPORT

DEP PERMIT NO. 177982-020-SC/T3, WACS No. 87895

Prepared by:

LOCKLEAR AND ASSOCIATES, INC.
4140 NW 37th Place, Suite A
Gainesville, Florida 32606

March 2017

C. WALKER WRENN
LICENSE
No. 2792
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

2017/3/2
C. Walker Wrenn
PG 2792

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Enterprise Class III Landfill and Recycling Facility

Address 41111 Enterprise Road

City Dade City, Florida Zip 33525 County Pasco

Telephone Number (813) 477-1719

(2) WACS Facility ID 87895

(3) DEP Permit Number 177982-020-SO/T3

(4) Authorized Representative's Name Walker Wrenn, P.G. Title Environmental Division

Address 4140 NW 37th Place, Suite A

City Gainesville, Florida Zip 32606 County Alachua

Telephone Number (352)672-6867

Email address (if available) walker@locklearconsulting.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

2017/3/2
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Ideal Tech Services

Analytical Lab NELAC / HRS Certification # E83079

Lab Name Environmental Conservation Laboratories, Inc.

Address 10775 Central Port Drive, Orlando, Florida 32824

Phone Number (407)826-5314

Email address (if available)

Locklear & Associates

TEL (352) 672-6867
FAX (352) 692-5930
4140 NW 37th Place, Suite A,
Gainesville, FL 32606
www.locklearconsulting.com

February 2, 2017

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

RE: Compliance Monitoring Report – Second Semiannual 2016
And 4th Quarter Landfill Gas Report
Enterprise Class III Landfill and Recycling Facility
Permit No. 177982-020-SC/T3
WACS No. 87895

Dear Mr. Morris:

This report presents data from the second 2016 (16S2) semiannual sampling event at the Enterprise Class III Landfill and Recycling Facility performed on December 27 and 28, 2016. Attachment 5 includes the 4th Quarter Landfill Gas monitoring report per Section 2, Part E.4 of the facility permit.

In mid-November, monitoring wells MW-18B, -19A and -20B were installed and monitoring wells MW-15B and -16B were abandoned. Monitoring wells MW-15B and -16B were therefore not sampled during the 16S2 event. Monitoring wells MW-18B, -19A and -20B were sampled for "initial" sampling parameters per the facility permit and submitted to the Department in an earlier report.

All groundwater wells which require semiannual sampling were sampled and analyzed for the parameters listed in Appendix 3.4.c of the permit with the exception of BW-1A, MW-3, MW-8, MW-9 and MW-10 which were dry or contained insufficient water for sampling. The supply well was sampled for parameters listed in Appendix 3.4.c of the permit. Quality Assurance/Quality Control samples were also collected. All sampling was performed by Ideal Tech Services, Inc. Samples were submitted to Environmental Conservation Laboratories, Inc. (ENCO) in Orlando, Florida.

Surficial monitoring wells BW-1A, MW-3, MW-8, MW-9 and MW-10 routinely do not contain sufficient water for sampling and are therefore paired with Floridan aquifer wells. Groundwater samples were collected from each of the Floridan aquifer wells.

Parameters reported at or outside groundwater standards are presented in Attachment 2. Parameters outside groundwater standards are consistent with historical results. Parameters above the Method Detection Levels (MDL) are presented in Attachment 3. Sampling field forms are present in Attachment 4. All parameters in the QAQC samples collected during this sampling event fell below the laboratory MDL, with the exception of Acetone in the Trip Blank. Automated Data Processing Tool (ADaPT), Electronic Data Deliverable (EDDs), and Laboratory Reports digitally delivered in accordance with the facility permit. We recommend continued semiannual monitoring as specified in the facility permit.

If you have any questions regarding this report, please contact me or John Locklear at (352) 672-6867.

Sincerely,

Walker Wrenn, P.G.
Environmental Services Division Director

P:\P Drive Files\ANGELOS (FLORIDA)\Enterprise Class III\COMPLIANCE MONITORING\2016\16S2\Figures\16S2 Text.docx

Xc: John Arnold, P.E.

Attachment 1: Groundwater Elevation Data, Well Construction Table, and Groundwater Contour Map
Attachment 2: Analysis Results Compared to Groundwater Standards
Attachment 3: Groundwater Parameters At or Above the Laboratory Detection Limit
Attachment 4: Field Forms
Attachment 5: 4th Quarter Landfill Gas Data

Attachment 1
Groundwater Elevation Data and Groundwater Contour Maps

GROUNDWATER ELEVATION DATA

Enterprise Class III Landfill and Recycling Facility
2016 - Second Semiannual Compliance Monitoring Event

WELL NAME	TOP OF CASING	CONTOUR MAP		TIME OF SAMPLING	
		DEPTH TO WATER	GROUDWATER ELEVATION	DEPTH TO WATER	GROUDWATER ELEVATION
	(NGVD,FT)	(FT)	(NGVD,FT)	(FT)	(NGVD,FT)
MW-1A	173.77	dry	NA	NS	NS
BW-1A	122.50	51.10	71.40	51.10	71.40
MW-1B	174.11	103.38	70.73	NS	NS
BW-1B	122.82	51.95	70.87	51.95	70.87
MW-3	85.39	dry	NA	dry	NA
MW-3B	84.80	13.90	70.90	19.90	64.90
MW-4	100.59	20.67	79.92	20.67	79.92
MW-4B	100.87	29.91	70.96	29.91	70.96
MW-5A	86.74	13.30	73.44	13.30	73.44
MW-5B	85.70	14.91	70.79	14.91	70.79
MW-6	88.65	17.25	71.40	17.25	71.40
MW-6B	89.10	18.21	70.89	18.21	70.89
MW-7A	100.72	30.09	70.63	30.09	70.63
MW-7BR	103.27	32.39	70.88	32.39	70.88
MW-8	100.10	35.35	64.75	dry	NA
MW-8B	108.52	37.57	70.95	37.57	70.95
MW-9	108.00	dry	NA	dry	NA
MW-9B	109.75	38.64	71.11	38.64	71.11
MW-10	111.62	37.25	74.37	dry	NA
MW-10B	110.00	38.88	71.12	38.88	71.12
MW-11	104.45	33.15	71.30	NS	NS
MW-11B	106.11	35.25	70.86	NS	NS
MW-12A	121.43	50.23	71.20	NS	NS
MW-12B	121.84	50.69	71.15	NS	NS
MW-17B	87.21	16.23	70.98	16.23	70.98
MW-18B	152.58	81.98	70.60	NS	NS
MW-19B	146.88	59.47	87.41	NS	NS
MW-20B	126.86	56.23	70.63	NS	NS
P-4	84.55	14.27	70.28	NS	NS
P-6	94.16	32.11	62.05	NS	NS
P-8	133.94	64.56	69.38	NS	NS
P-10	132.60	61.81	70.79	NS	NS
P-11	150.76	51.46	99.30	NS	NS
SUPPLY WELL	NM	NM	NM	NS	NS

* = new Top of Casing elevations due to riser pipe being cut
NS = Not sampled
NM = Not measured
NA = Not Available

LEGEND

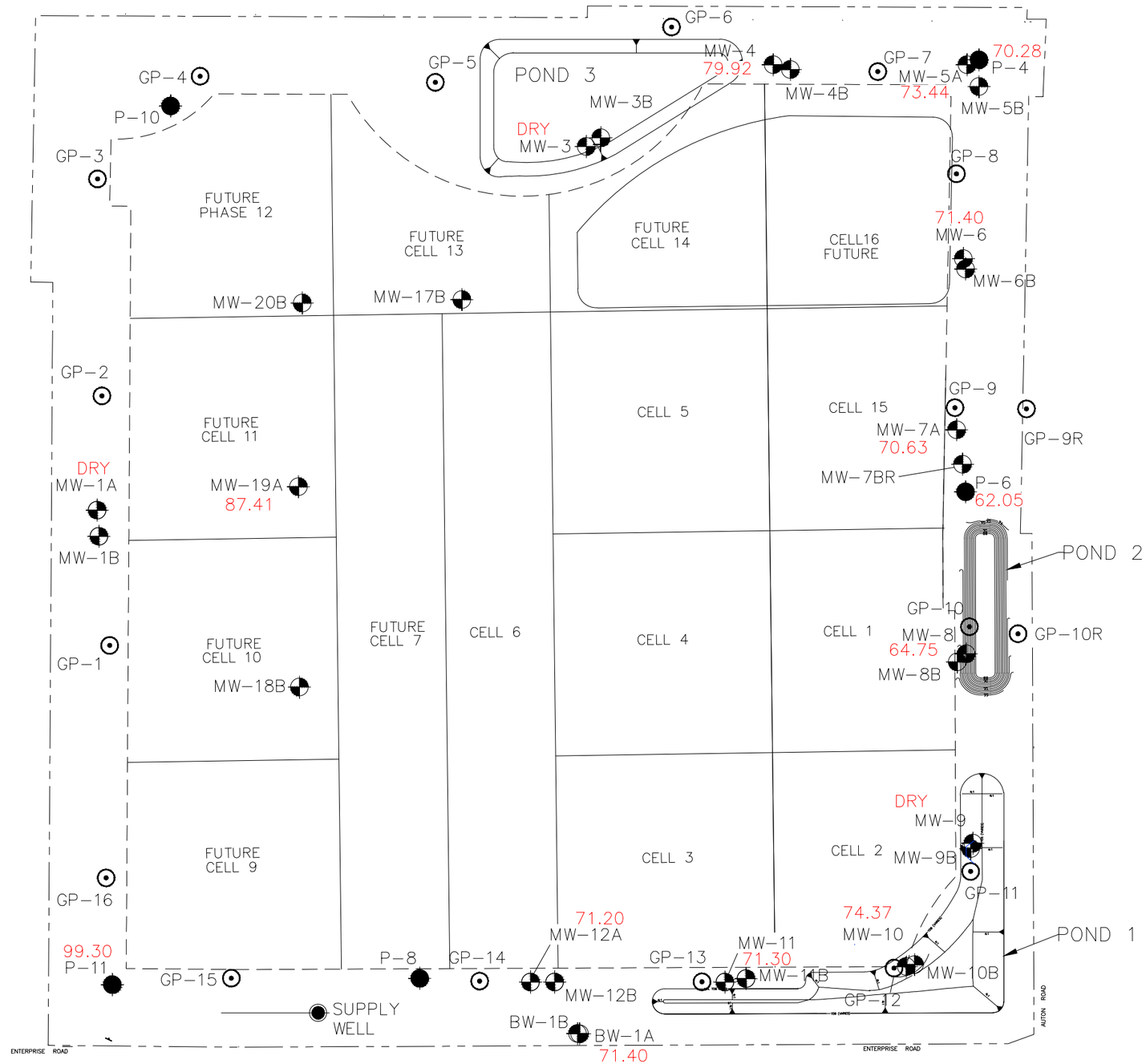
MW–4	MONITORING WELL LOCATION
79.92	GROUNDWATER ELEVATION
GP–1	GAS PROBE LOCATION
	SUPPLY WELL LOCATION
P–11	PIEZOMETER WELL LOCATION
— — —	PROPERTY BOUNDARY
— — —	LANDFILL LIMITS
— — —	CELL BOUNDARY

Note: Elevations are not contoured as values represent laterally discontinuous water bearing sediments as well as perched water intervals. n some cases elevations may represent water contained within well sumps.

N

SCALE IN FEET

200 100 0 200 400



Locklear & Associates

PROJECT MANAGER	W. WRENN
DESIGNED	J. LOCKLEAR
CHECKED BY	J. LOCKLEAR
DRAWN BY	W. WRENN
PROJECT NUMBER	114–001

ENTERPRISE ROAD
RECYCLING AND DISPOSAL FACILITY
DADE CITY, FLORIDA

SURFICIAL AQUIFER
GROUNDWATER ELEVATIONS

December 27, 2016

FILENAME

SCALE

SHEET

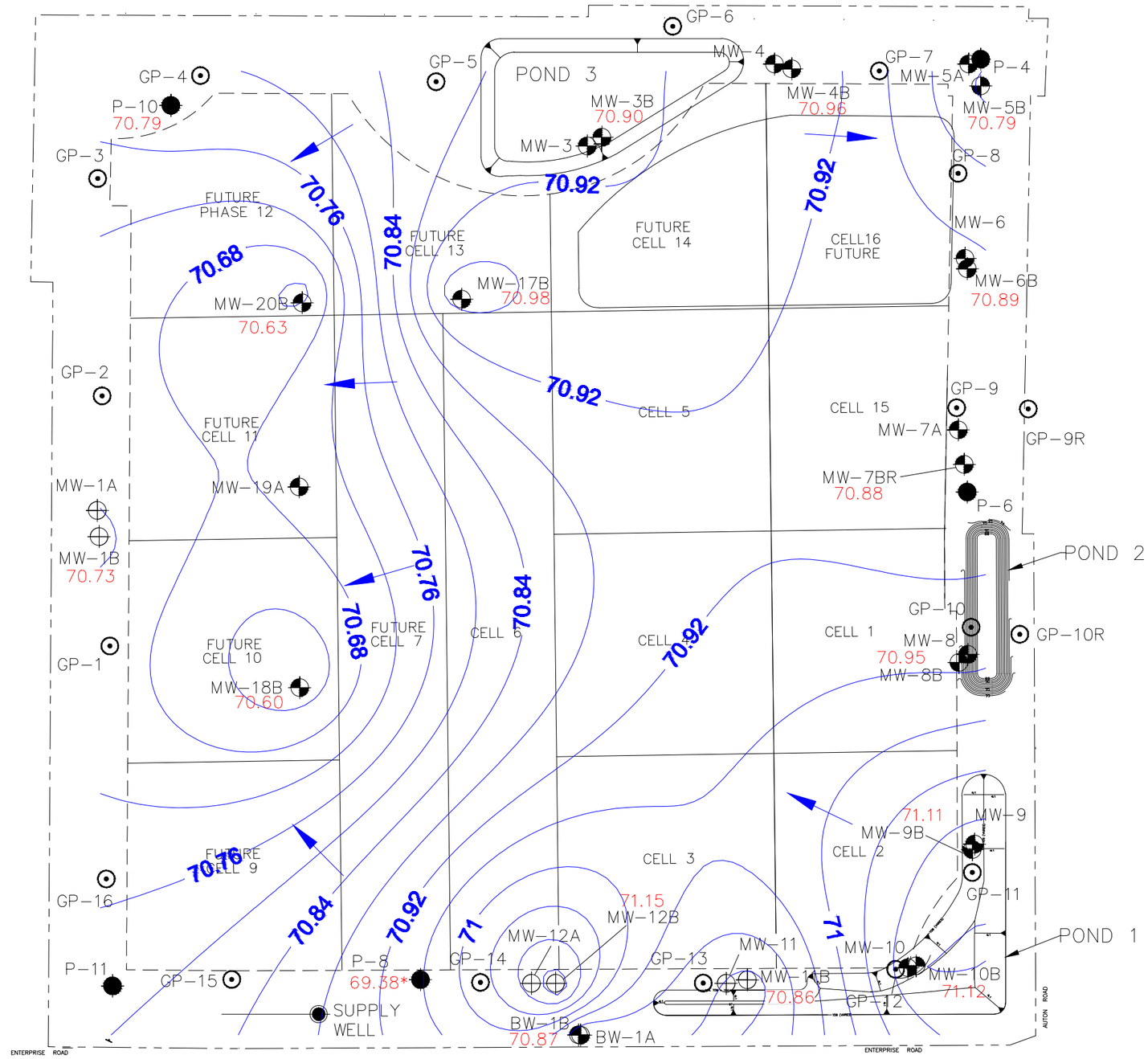
LEGEND

MW-4B	MONITORING WELL LOCATION
70.96	GROUNDWATER ELEVATION
GP-1	GAS PROBE LOCATION
	SUPPLY WELL LOCATION
P-11	PIEZOMETER WELL LOCATION
MW-12A	WATER LEVEL ONLY WELL LOCATION
MW-18B	FUTURE MONITOR WELL LOCATION**
	PROPERTY BOUNDARY
	LANDFILL LIMITS
	CELL BOUNDARY
70.92	GROUNDWATER CONTOUR LINE (0.04' INTERVALS)
	GROUNDWATER FLOW DIRECTION
*	NOT USED IN CONTOURING

N

SCALE IN FEET

200 100 0 200 400



PROJECT MANAGER	W. WRENN
DESIGNED	J. LOCKLEAR
CHECKED BY	W. WRENN
DRAWN BY	W. WRENN
PROJECT NUMBER	114-001

Locklear & Associates

ENTERPRISE ROAD
RECYCLING AND DISPOSAL FACILITY
DADE CITY, FLORIDA

FLORIDAN AQUIFER
GROUNDWATER CONTOUR MAP

December 27, 2016

FILENAME

SCALE

SHEET

Attachment 2
Analysis Results Compared to Groundwater Standards

Enterprise Class III Landfill and Recycling Facility

Analysis Results Compared to Groundwater Standards

2016 - Second Semiannual Compliance Monitoring Sampling Results

PARAMETER	COLLECTION	pH (FIELD)	IRON
STANDARD	DATE	6.5-8.5 s.u.**	300 µg/L**
UNITS	M/D/Y	S.U.	µg/L
Background			
BW-1B	12/28/2016	-	-
Detection			
MW-3B	12/28/2016	-	-
MW-4	12/28/2016	6.2	-
MW-4B	12/28/2016	-	-
MW-5A	12/28/2016	5.64	-
MW-5B	12/28/2016	-	-
MW-6	12/28/2016	5.42	-
MW-6B	12/28/2016	-	-
MW-7A	12/27/2016	5.04	767
MW-7BR	12/27/2016	-	-
MW-8B	12/27/2016	-	4730
MW-9B	12/27/2016	-	-
MW-10B	12/27/2016	-	-
MW-10B DUP	12/27/2016	NM	-
MW-17B	12/28/2016	-	-
Other, Water Supply			
Supply Well	12/28/2016	-	-
QAQC			
TRIP	12/28/2016	NM	NM
EQUBLK	12/27/2016	NM	-

LEGEND

*** = primary drinking water standard**
**** = secondary drinking water standard**
***** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)**
A = Analysis Result is at Groundwater Standard
- = Analysis Result is not at or outside Groundwater Standard
NS = Not Sampled
NM = Not Measured

Note: Analysis results which were reported above the laboratory detection limit, but not at or above the Groundwater Standard are not displayed in this table.

Attachment 3
Groundwater Parameters At or Above the Laboratory Detection Limit

Enterprise Class III Landfill and Recycling Facility

Parameters At or Above Laboratory Detection Limit

2016 - Second Semiannual Compliance Monitoring Sampling Results

PARAMETER		CONDUCTIVITY	DISSOLVED OXYGEN	pH (FIELD)	TEMPERATURE	TURBIDITY (FIELD)	ACETONE
STANDARD	COLLECTION	1	1	6.5-8.5 s.u.**	1	1	6300 µg/L***
UNITS	DATE	umhos/cm	mg/L	S.U.	deg C	NTU	µg/L
Background							
BW-1B	12/28/2016	265	7.02	6.71	24.41	0.3	63
Detection							
MW-3B	12/28/2016	391	1.15	7.27	24.04	0.9	26
MW-4	12/28/2016	596	0.87	6.2	24.52	14.2	<10
MW-4B	12/28/2016	298	2.87	7.52	23.92	0.2	<10
MW-5A	12/28/2016	59	4.46	5.64	23.85	0.8	23
MW-5B	12/28/2016	296	3.78	7.68	24.36	2.3	12 I
MW-6	12/28/2016	49	3.22	5.42	25.25	3	<10
MW-6B	12/28/2016	261	2.31	7.66	23.88	8.9	18 I
MW-7A	12/27/2016	170	0.24	5.04	25.06	7	12 I
MW-7BR	12/27/2016	279	0.92	7.58	24.58	9.9	<10
MW-8B	12/27/2016	601	0.13	6.83	26.72	0.3	<10
MW-9B	12/27/2016	512	2.12	7.03	26.62	0.6	<10
MW-10B	12/27/2016	329	0.16	6.7	25.72	0.2	<10
MW-10B DUP	12/27/2016	-	-	-	-	-	<10
MW-17B	12/28/2016	570	3.99	6.91	23.57	0.8	<10
Other, Water Supply							
Supply Well	12/28/2016	382	1.26	7.35	24.11	0.2	<10

LEGEND

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*** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)
1 = No Standard
- = Not analyzed
I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time
U = Indicates that the compound was analyzed for but not detectec

Enterprise Class III Landfill and Recycling Facility

Parameters At or Above Laboratory Detection Limit

2016 - Second Semiannual Compliance Monitoring Sampling Results

PARAMETER	AMMONIA as NITROGEN	CHLORIDE	NITRATE as N	TDS	BARIUM	COPPER	IRON
STANDARD	1	250 mg/L**	10 mg/L*	500 mg/L**	2000 µg/L*	1000 µg/L**	300 µg/L**
UNITS	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L
Background							
BW-1B	<0.0073	23	6.8	170	<20.0	3.48 I	44.7 I
Detection							
MW-3B	<0.0073	6.4	0.79 I	240	<20.0	<2.20	<38.0
MW-4	<0.0073	2.8 I	<0.052	360	<20.0	<2.20	299
MW-4B	<0.0073	4.4 I	0.62 I	170	<20.0	<2.20	<38.0
MW-5A	<0.0073	2.2 I	0.28 I	52	<20.0	<2.20	89.5
MW-5B	<0.0073	3.4 I	1.0	140	<20.0	<2.20	<38.0
MW-6	<0.0073	4.6 I	0.61 I	38	<20.0	<2.20	64.6
MW-6B	<0.0073	3.7 I	0.99 I	160	<20.0	<2.20	38.5 I
MW-7A	0.026	8.9	0.14 I	82	<20.0	<2.20	767
MW-7BR	<0.0073	5.4	1.0	140	<20.0	<2.20	<38.0
MW-8B	1.1	11	<0.052	320	150	<2.20	4730
MW-9B	<0.0073	6.9	5.8	310	<20.0	<2.20	<38.0
MW-10B	<0.0073	6.8	3.1	190	<20.0	<2.20	<38.0
MW-10B DUP	<0.0073	7.0	3.2	190	<20.0	<2.20	<38.0
MW-17B	<0.0073	7.7	2.7	310	<20.0	<2.20	<38.0
Other, Water Supply							
Supply Well	<0.0073	10	3.7	220	<20.0	<2.20	<38.0

LEGEND

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1 = No Standard
- = Not analyzed
I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time
U = Indicates that the compound was analyzed for but not detectec

Enterprise Class III Landfill and Recycling Facility

Parameters At or Above Laboratory Detection Limit

2016 - Second Semiannual Compliance Monitoring Sampling Results

PARAMETER	MERCURY	NICKEL	SODIUM	VANADIUM	ZINC
STANDARD	2 µg/L*	100 µg/L*	160 mg/L*	49 µg/L***	5000 µg/L**
UNITS	µg/L	µg/L	mg/L	µg/L	µg/L
Background					
BW-1B	<0.0230	<3.20	10.9	<2.00	<16.0
Detection					
MW-3B	<0.0230	<3.20	4.93	3.26 I	<16.0
MW-4	<0.0230	<3.20	8.98	4.18 I	<16.0
MW-4B	<0.0230	<3.20	4.30	4.09 I	<16.0
MW-5A	<0.0230	<3.20	2.60	<2.00	22.1 I
MW-5B	<0.0230	<3.20	2.99	7.02 I	<16.0
MW-6	<0.0230	<3.20	3.93	<2.00	<16.0
MW-6B	<0.0230	<3.20	3.64	5.74 I	<16.0
MW-7A	0.0940 I	13.2	7.78	<2.00	<16.0
MW-7BR	<0.0230	<3.20	3.51	8.22 I	<16.0
MW-8B	<0.0230	3.54 I	9.39	<2.00	<16.0
MW-9B	<0.0230	<3.20	6.42	5.08 I	<16.0
MW-10B	<0.0230	<3.20	5.04	3.76 I	<16.0
MW-10B DUP	<0.0230	<3.20	5.40	3.64 I	<16.0
MW-17B	1.16	<3.20	7.55	<2.00	<16.0
Other, Water Supply					
Supply Well	<0.0230	<3.20	6.50	4.69 I	<16.0

LEGEND

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1 = No Standard
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I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time
U = Indicates that the compound was analyzed for but not detectec

Attachment 4
Field Forms

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **BW-1A**	WACS_WELL:	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 57.50 feet to 77.50 feet	STATIC DEPTH TO WATER (feet): 51.10	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (77.50 feet – feet) X .16 gallons/foot = / gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: /
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
BW-1A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
BW-1A	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
BW-1A	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
BW-1A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
BW-1A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Not enough water for valid sample
well will draw dry from this depth
ORP= No Sample

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **BW-1B**	WACS_WELL:	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 88.50 feet to 108.50 feet	STATIC DEPTH TO WATER (feet): 51.95	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (108.50 feet – 51.95 feet) X .16 gallons/foot = 9.05 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 54.00	PURGING INITIATED AT: 1523	PURGING ENDED AT: 1547	TOTAL VOLUME PURGED (gallons): 14.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1539	9.60	9.60	.60	53.06	6.62	24.43	257	7.02	.80	Clear	None
1543	2.40	12.00	.60	53.06	6.59	24.40	260	7.00	.30	Clear	None
1547	2.40	14.40	.60	53.06	6.71	24.41	265	7.02	.30	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1547	SAMPLING ENDED AT: 1552
PUMP OR TUBING DEPTH IN WELL (feet): 54.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
BW-1B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
BW-1B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
BW-1B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
BW-1B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
BW-1B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample

ORP= +212.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-3**	WACS_WELL: **19571**	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: 9.50 feet to 14.50 feet	STATIC DEPTH TO WATER (feet): DRY	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.45 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	PP	≈ 100
MW-3	1	PE	250 mL	HNO_3	None		Metals	PP	≈
MW-3	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	PP	≈
MW-3	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈
MW-3	2	CG	40 mL	4° C	None	Not Req'd	8011	PP	≈ 100

REMARKS: Dry well No Sample

ORP=

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill		SITE LOCATION: Pasco County, Florida
WELL NO: **MW-3B**	WACS_WELL: **21964**	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: 28.75 feet to 43.75 feet	STATIC DEPTH TO WATER (feet): 13.90	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (43.75 feet – 13.90 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.0012 gallons/foot X 50.00 feet) + .032 gallons = .10 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40.00	PURGING INITIATED AT: 1143	PURGING ENDED AT: 1153	TOTAL VOLUME PURGED (gallons): 1.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1147	.60	.60	.15	13.91	7.27	24.17	391	1.16	1.20	Clear	None
1150	.45	1.05	.15	13.91	7.27	24.10	391	1.16	1.10	↓	↓
1153	.45	1.50	.15	13.92	7.27	24.04	391	1.15	.90	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1153	SAMPLING ENDED AT: 1159
PUMP OR TUBING DEPTH IN WELL (feet): 40.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	PP	≈ 100
MW-3B	1	PE	250 mL	HNO_3	None	<2	Metals	PP	≈ 567
MW-3B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP	≈ 567
MW-3B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈ 567
MW-3B	2	CG	40 mL	4° C	None	Not Req'd	8011	PP	≈ 100

REMARKS:

ORP= +146.3

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-4**	WACS_WELL: **19572**	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 6.50 feet to 26.50 feet	STATIC DEPTH TO WATER (feet): 20.67	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (26.56 feet – 20.67 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.006 gallons/foot X 25.00 feet) + .032 gallons = .18 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	PURGING INITIATED AT: 0951	PURGING ENDED AT: 0957	TOTAL VOLUME PURGED (gallons): .60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0957	.60	.60	.10	22.72	6.20	24.52	596	.87	14.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0957	SAMPLING ENDED AT: 1003
PUMP OR TUBING DEPTH IN WELL (feet): 25.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-4	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-4	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 378
MW-4	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 378
MW-4	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 378
MW-4	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Used purge dry method Filled Metals Container First

ORP= +197.1 Dtw @ sample end: 25.10 Ntu @ Sample end = 190.0 for one bottle 250ml unpreserved

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-4B**	WACS_WELL: **21965**	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 43.50 feet to 58.50 feet	STATIC DEPTH TO WATER (feet): 29.91	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (58.50 feet – 29.91 feet) X .16 gallons/foot = 4.57 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31.00	PURGING INITIATED AT: 1016	PURGING ENDED AT: 1027	TOTAL VOLUME PURGED (gallons): 11.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1021	5.00	5.00	1.00	30.04	7.53	23.92	299	2.97	.50	Clear	None
1024	3.00	8.00	1.00	30.04	7.53	23.90	299	2.91	.20	Clear	None
1027	3.00	11.00	1.00	30.04	7.52	23.92	298	2.87	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1027	SAMPLING ENDED AT: 1031
PUMP OR TUBING DEPTH IN WELL (feet): 31.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-4B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-4B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-4B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-4B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-4B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample

ORP= +117.0

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

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

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-5A**	WACS_WELL: **19573**	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: 10 feet to 30 feet	STATIC DEPTH TO WATER (feet): 13.30	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.10 feet – 13.30 feet) X .16 gallons/foot = 2.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.0012 gallons/foot X 35.00 feet) + .032 gallons = .08 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 1306	PURGING ENDED AT: 1339	TOTAL VOLUME PURGED (gallons): 3.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1333	2.70	2.70	.10	14.03	5.64	23.81	59	4.54	1.20	Clear	None
1336	.30	3.00	.10	14.03	5.64	23.84	59	4.44	1.20	Clear	None
1339	.30	3.30	.10	14.03	5.64	23.85	59	4.46	.80	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1339	SAMPLING ENDED AT: 1344
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-5A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	PP	≈ 100
MW-5A	1	PE	250 mL	HNO_3	None	<2	Metals	PP	≈ 378
MW-5A	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP	≈ 378
MW-5A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈ 378
MW-5A	2	CG	40 mL	4° C	None	Not Req'd	8011	PP	≈ 100

REMARKS:

ORP= +244.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-5B**	WACS_WELL: **19574**	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: 37 feet to 47 feet	STATIC DEPTH TO WATER (feet): 14.91	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (47.00 feet – 14.91 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.0012 gallons/foot X 52.00 feet) + .032 gallons = .09 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.00	PURGING INITIATED AT: 1226	PURGING ENDED AT: 1235	TOTAL VOLUME PURGED (gallons): 1.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1229	.60	.60	.20	15.01	7.76	24.39	246	3.80	3.80	Clear	none
1232	.60	1.20	.20	15.01	7.70	24.37	246	3.79	2.50	✓	✓
1235	.60	1.80	.20	15.01	7.68	24.36	246	3.78	2.30	✓	✓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1235	SAMPLING ENDED AT: 1241
PUMP OR TUBING DEPTH IN WELL (feet): 42.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-5B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-5B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 757
MW-5B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 757
MW-5B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 757
MW-5B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP= +117.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-6**	WACS_WELL: **19575**	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: 10 feet to 30 feet	STATIC DEPTH TO WATER (feet): 17.25	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.05 feet – 17.25 feet) X .16 gallons/foot = 2.05 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.0012 gallons/foot X 25.00 feet) + .032 gallons = .06 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.50	PURGING INITIATED AT: 1355	PURGING ENDED AT: 1422	TOTAL VOLUME PURGED (gallons): 2.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1416	2.10	2.10	.10	20.05	5.41	25.30	48	3.04	3.80	Clear	None
1419	.30	2.40	.10	20.69	5.40	25.27	48	3.16	3.50	Clear	None
1422	.30	2.70	.10	21.04	5.42	25.25	49	3.22	3.00	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1422	SAMPLING ENDED AT: 1427
PUMP OR TUBING DEPTH IN WELL (feet): 22.50	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-6	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	PP	≈ 100
MW-6	1	PE	250 mL	HNO_3	None	<2	Metals	PP	≈ 378
MW-6	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP	≈ 378
MW-6	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈ 378
MW-6	2	CG	40 mL	4° C	None	Not Req'd	8011	PP	≈ 100

REMARKS:
Final DTW = 21.99

ORP= +211.4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-6B**	WACS_WELL:	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 37 feet to 57 feet	STATIC DEPTH TO WATER (feet): 18.21	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (57.15 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.0012 gallons/foot X 52.00 feet) + .032 gallons = .109 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	PURGING INITIATED AT: 1400	PURGING ENDED AT: 1436	TOTAL VOLUME PURGED (gallons): 10.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1430	9.00	9.00	.30	18.24	7.63	23.97	260	2.32	16.90	Clear	None
1433	.90	9.90	.30	18.24	7.66	23.92	260	2.32	11.90	Clear	None
1436	.90	10.80	.30	18.24	7.66	23.88	261	2.31	8.90	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1436	SAMPLING ENDED AT: 1445
PUMP OR TUBING DEPTH IN WELL (feet): 47.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-6B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-6B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-6B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-6B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-6B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Purge water Ntu begins at <1,000, Ntu drops throughout purge

ORP= +129.4 Ntu @ metals = 7.70

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-7A**	WACS_WELL: **19576**	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 25.80 feet to 45.80 feet	STATIC DEPTH TO WATER (feet): 50.09	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45.80 feet – 30.09 feet) X .16 gallons/foot = 2.51 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41.00	PURGING INITIATED AT: 1525	PURGING ENDED AT: 1546	TOTAL VOLUME PURGED (gallons): 4.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1538	2.60	2.60	20	36.65	5.00	25.09	176	.27	17.80	Clear	None
1542	.80	3.40	.20	38.34	4.99	25.10	170	.27	9.30	Clear	None
1546	.80	4.20	.20	39.30	5.04	25.06	170	.24	7.00	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1546	SAMPLING ENDED AT: 1551
PUMP OR TUBING DEPTH IN WELL (feet): 41.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-7A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-7A	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 757
MW-7A	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 757
MW-7A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 757
MW-7A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP= + 210.5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-7BR**	WACS_WELL: 22592	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 46 feet to 61 feet	STATIC DEPTH TO WATER (feet): 32.39	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (61.00 feet – 32.39 feet) X .16 gallons/foot = 4.58 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33.50	PURGING INITIATED AT: 1600	PURGING ENDED AT: 1616	TOTAL VOLUME PURGED (gallons): 8.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1610	5.00	5.00	.50	32.46	7.58	24.54	279	1.27	12.60	Clear	None
1613	1.50	6.50	.50	32.46	7.58	24.49	279	1.19	15.80	Clear	None
1616	1.50	8.00	.50	32.46	7.58	24.58	279	.92	9.90	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1616	SAMPLING ENDED AT: 1621
PUMP OR TUBING DEPTH IN WELL (feet): 33.50	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-7BR	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-7BR	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-7BR	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-7BR	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-7BR	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: slowed pump to sample
black particles observed in purge water
N+u metals = 6.90
ORP= +95.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-8**	WACS_WELL: **19578**	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 15.90 feet to 35.90 feet	STATIC DEPTH TO WATER (feet): 35.35	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.90 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-8	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-8	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-8	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-8	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-8	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Not enough water to sustain flow
No Sample

ORP=

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-8B**	WACS_WELL: **21323**	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 42 feet to 57 feet	STATIC DEPTH TO WATER (feet): 37.57	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (57.00 feet – 37.57 feet) X .16 gallons/foot = 3.11 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.50	PURGING INITIATED AT: 1442	PURGING ENDED AT: 1458	TOTAL VOLUME PURGED (gallons): 5.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1452	3.50	3.50	.35	37.64	6.81	26.74	617	.17	.40	Clear	None
1455	1.05	4.55	.35	37.64	6.82	26.71	610	.17	.40	Clear	None
1458	1.05	5.60	.35	37.64	6.83	26.72	601	.13	.30	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1458	SAMPLING ENDED AT: 1503
PUMP OR TUBING DEPTH IN WELL (feet): 38.50	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-8B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-8B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1325
MW-8B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1325
MW-8B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1325
MW-8B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS:

ORP= −93.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-9**	WACS_WELL: **19579**	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 9.70 feet to 29.70 feet	STATIC DEPTH TO WATER (feet): Dry	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (29.70 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: ✓
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-9	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-9	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-9	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-9	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-9	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Dry Well No Sample

ORP=

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-9B**	WACS_WELL: **21324**	DATE: 12/27/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 33.90 feet to 48.90 feet	STATIC DEPTH TO WATER (feet): 38.64	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (48.90 feet – 38.64 feet) X .16 gallons/foot = 1.64 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.50	PURGING INITIATED AT: 1416	PURGING ENDED AT: 1427	TOTAL VOLUME PURGED (gallons): 4.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1421	2.00	2.00	.40	38.80	7.01	26.74	506	2.17	3.30	Clear	None
1424	1.20	3.20	.40	38.80	7.02	26.69	515	2.09	1.40	Clear	None
1427	1.20	4.40	.40	38.80	7.03	26.62	512	2.12	.60	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1427	SAMPLING ENDED AT: 1432
PUMP OR TUBING DEPTH IN WELL (feet): 39.50	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-9B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-9B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-9B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-9B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-9B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample

ORP= +127.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-10**	WACS_WELL: **19580**	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 17.65 feet to 37.65 feet	STATIC DEPTH TO WATER (feet): 37.25	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37.65 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-10	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-10	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-10	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-10	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-10	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Not enough water to sustain flow

No Sample

ORP=

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

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

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-10B**	WACS_WELL: **21325**	DATE: 12/27/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 38.88	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (61.90 feet – 38.88 feet) X .16 gallons/foot = 3.68 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40.00	PURGING INITIATED AT: 1346	PURGING ENDED AT: 1357	TOTAL VOLUME PURGED (gallons): 11.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1351	5.00	5.00	1.00	38.99	6.58	25.71	318	.12	.40	Clear	None
1354	3.00	8.00	1.00	38.99	6.65	25.71	325	.12	.30	Clear	None
1357	3.00	11.00	1.00	38.99	6.70	25.72	329	.16	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1357	SAMPLING ENDED AT: 1405
PUMP OR TUBING DEPTH IN WELL (feet): 40.00	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-10B	x6	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-10B	x2	PE	250 mL	HNO_3	None	<2 / <2	Metals	Stainless ESP	≈ 1135
MW-10B	x2	PE	250 mL	H_2SO_4	None	<2 / <2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-10B	x2	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-10B	x4	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100
	@ 12/27/16				Sample / Dup				

REMARKS: slowed pump to sample

ORP= + 113.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill		SITE LOCATION: Pasco County, Florida
WELL NO: **MW-17B**	WACS_WELL:	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: 60.60 feet to 80.60 feet	STATIC DEPTH TO WATER (feet): 16.23	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (80.60 feet – 16.23 feet) X .16 gallons/foot = 10.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.50	PURGING INITIATED AT: 1452	PURGING ENDED AT: 1509	TOTAL VOLUME PURGED (gallons): 17.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1503	11.00	11.00	1.00	16.42	6.87	23.57	584	3.81	2.50	Clear	None
1506	3.00	14.00	1.00	16.42	6.89	23.56	580	3.92	1.20	Clear	None
1509	3.00	17.00	1.00	16.42	6.91	23.57	570	3.99	.80	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1509	SAMPLING ENDED AT: 1513
PUMP OR TUBING DEPTH IN WELL (feet): 17.50	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP [Y] N TUBING Y [N (replaced)] DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-17B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-17B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-17B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-17B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-17B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample

ORP= +162.5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **SUPPLY WELL (SW)**	WACS_WELL: **21326**	DATE: 12/28/16

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): **.375**	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): In Place Plumbing	PURGE PUMP TYPE OR BAILER: **IN PLACE PLUMBING**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): In Place Plumbing	FINAL PUMP OR TUBING DEPTH IN WELL (feet): In Place Plumbing	PURGING INITIATED AT: 1046	PURGING ENDED AT: 1056	TOTAL VOLUME PURGED (gallons): 7.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1050	3.00	3.00	.75	In	7.35	24.12	382	1.26	.20	Clear	None
1053	2.25	5.25	.75	Place	7.35	24.12	382	1.27	.20	Clear	None
1056	2.25	7.50	.75	Plumbing	7.35	24.11	382	1.26	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1056	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): In Place Plumbing	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SW	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	In Place Plumbing	≈ 100
SW	1	PE	250 mL	HNO_3	None	<2	Metals	In Place Plumbing	≈ 1135
SW	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	In Place Plumbing	≈ 1135
SW	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	In Place Plumbing	≈ 1135
SW	2	CG	40 mL	4° C	None	Not Req'd	8011	In Place Plumbing	≈ 100

REMARKS: Slowed pump to sample

ORP= +140.6

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

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

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

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

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

CALIBRATION LOG

ITS Work Order Number: ARM-EL-35-122716

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539

Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 12/27/16 @ 0800

END CALIBRATION DATE @ TIME: 12/27/16 @ 1600

YSI 556 MULTI PARAMETER METER - S/N 05G1942 AI (ITS #2) REV 5.35

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING INITIAL	METER READING CCV	VERIFY @ START	LOT NUMBER	EXP DATE
4.005	4.00	3.99	—	CC321306	May-17
7.000	7.00	7.02	7.00	CC381652	Oct-17
10.012	10.01	9.99	—	CC375186	Sep-17

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)		YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW	5.20	5.22		NA	10/18/16
HIGH	29.10		29.09		10/18/16

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
0.00	.18	.18	6GC1072	Mar-17
fresh air @				
20.09 °C	9.06			
25.15 °C		8.20		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
8,974	NM	NM	6GC051	Mar-17
2,764	2,764	2759	6GB696	Feb-17
447	NM	NM	No Stock	No Stock
84	84	84	6GB199	Feb-17

Standards prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
200	200	199	6GA1036	Oct-16
400	400	402	5GL455	Dec-16

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book

HACH POCKET COLORIMETER II S/N 06070D052733

STANDARD ID	BLANK	1	2	3
MFGR VALUE mg/L	0.00	.21	0.90	1.61
VERIFIED VALUE mg/L	0.00	0.22	0.92	1.60
CCV METER mg/L	NM	NM	NM	NM

Standard is HACH DPD Chlorine LR secondary GEL Standard. Lot A5318 Verified 02/09/15

HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 S/N 910285 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 1)

STANDARD (ntu)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
1000	NM	NM	See Below	Sep-18
100	100	100	See Below	Sep-18
10	10	10	See Below	Sep-18
0.02	.02	.02	See Below	Sep-18

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 60973

Remarks:

Weather Conditions: Sunny 75-80°F

Equipment Blank with D.I. water

Zephyrhills brand Lot #102716301WF2330710

Exp Date 04/30/18

Equipment Blank Data - Collected @ 1305 ITS553

pH = — Cond = —

Temp = — D.O. = —

Turbidity = —

Notes: **NA** - Not Applicable, **NM** - Not Measured, **CCV** - Continuing Calibration Verification Form Rev 5.35 on 11/28/16: Update for Calibration Solutions

All equipment used to obtain data at this site is owned, operated, and maintained by Ideal Tech Services Inc., unless otherwise noted. All equipment was purchased new from the manufacturers or authorized distributors. Preventative maintenance will be performed at the intervals specified by the manufacturer of each piece of equipment, or when equipment calibration results are out of tolerance. Equipment maintenance logs will be maintained by Ideal Tech Services Inc.

COPY TO: John Arnold, P.E.

SIGNED: Karen LeBeau

Chris Monaco or Karen LeBeau

CALIBRATION LOG

ITS Work Order Number: ARM-EL-35-122816

CLIENT: Angelo's Recycled Materials
ADDRESS: 41111 Enterprise Road
CITY, STATE: Dade City, FL 33525-1539
Site: Enterprise Class III Landfill
START CAL DATE @ TIME: 12/28/16 @ 0745
END CALIBRATION DATE @ TIME: 12/28/16 @ 1815

YSI 556 MULTI PARAMETER METER - S/N 05G1942 AI (ITS #2) REV 5.35

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING INITIAL	METER READING CCV	VERIFY @ START	LOT NUMBER	EXP DATE
4.005	4.00	3.99	–	CC321306	May-17
7.000	7.00	7.01	7.00	CC381652	Oct-17
10.012	10.01	10.00	/	CC375186	Sep-17

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)		YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW	5.20	5.22		NA	10/18/16
HIGH	29.10		29.09		10/18/16

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
0.00	.18	.17	6GC1072	Mar-17
fresh air @				
19.11 °C	9.22			
24.37 °C		8.30		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD °mhos	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
8,974	NM	NM	6GC051	Mar-17
2,764	2764	2799	6GB696	Feb-17
447	NM	NM	No Stock	No Stock
84	84	85	6GB199	Feb-17

Standards prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
200	200	199	6GA1036	Oct-16
400	400	401	5GL455	Dec-16

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book

HACH POCKET COLORIMETER II S/N 06070D052733

STANDARD ID	BLANK	1	2	3
MFGR VALUE mg/L	0.00	.21	0.90	1.61
VERIFIED VALUE mg/L	0.00	0.22	0.92	1.60
CCV METER mg/L	NM	NM	NM	NM

Standard is HACH DPD Chlorine LR secondary GEL Standard. Lot A5318 Verified 02/09/15

HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 S/N 910285 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 1)

STANDARD (ntu)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
1000	NM	NM	See Below	Sep-18
100	100	100	See Below	Sep-18
10	10	10	See Below	Sep-18
0.02	.02	.02	See Below	Sep-18

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 60973

Remarks:

Weather Conditions: Sunny 75-85°F

Equipment Blank with D.I. water

Zephyrhills brand Lot #102716301WF2330710

Exp Date 04/30/18

Equipment Blank Data - Collected @ none collected

pH = – Cond = –

Temp = – D.O. = –

Turbidity = –

Notes: **NA** - Not Applicable, **NM** - Not Measured, **CCV** - Continuing Calibration Verification Form Rev 5.35 on 11/28/16: Update for Calibration Solutions

All equipment used to obtain data at this site is owned, operated, and maintained by Ideal Tech Services Inc., unless otherwise noted. All equipment was purchased new from the manufacturers or authorized distributors. Preventative maintenance will be performed at the intervals specified by the manufacturer of each piece of equipment, or when equipment calibration results are out of tolerance. Equipment maintenance logs will be maintained by Ideal Tech Services Inc.

COPY TO: John Arnold, P.E.

SIGNED: Karen LeBeau

Chris Monaco or Karen LeBeau

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Angelo's Recycled Materials (AN010)	Project Number: 87895
Address: 41111 Enterprise Road	Project Name/Desc: ENTERPRISE LF & RECYC (FKA SID LARKIN & SON, INC.)
City/ST/Zip: Dade City, FL 33525	PO # / Billing Info:
Tel: (352) 521-3607 Fax:	Reporting Contact: Walker Wrenn
Sampler(s) Name, Affiliation (Print): Chris Monaco Ideal Tech Services Inc.	Billing Contact: John Arnold
Sampler(s) Signature:	Site Location / Time Zone: FL/EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: AZ08288

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8011 (I)	8260B Appendix 1 FL (H)	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb,Sb,Se,Tl,V,Zn,Hg (N)	Ammonia 350.1 (S)	Chloride 300,Nitrate as N 300 (I)	TDS SM2540C (I)					Sample Comments
	MW-10B	12-27-16	1405	Grab	GW	8	X	X	X	X	X	X					
	~~MW-9B~~	12-27-16	1432	Grab	GW	8	X	X	X	X	X	X					
	MW-8B	12-27-16	1503	Grab	GW	8	X	X	X	X	X	X					
	MW-7A	12-27-16	1551	Grab	GW	8	X	X	X	X	X	X					
	MW-7BR	12-27-16	1621	Grab	GW	8	X	X	X	X	X	X					
	FG Blank	12-27-16	1305	Grab	O	8	X	X	X	X	X	X					O=Field DI Water
	Duplicate	12-27-16	1405	Grab	~~GW~~	8	X	X	X	X	X	X					OT=Lab DI Water
	trip blank	—	—	Grab	OT	2	-	X	-	-	-	-					
	MW-4	12-28-16	1063	Grab	GW	8	X	X	X	X	X	X					
	MW-4B	12-28-16	1031	Grab	GW	8	X	X	X	X	X	X					
	Supply Well	12-28-16	1100	Grab	GW	8	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
ECG	12/07/16 12:00	[signature]	12/07/16 12:00	[signature]	12-8-16 1400
Comments/Special Reporting Requirements		Relinquished By: [signature]	Date/Time: 12-28-16 1108	Received By: [signature]	Date/Time: 12-28-16 1108
		Relinquished By: [signature]	Date/Time: 12-28-16 1200	Received By: [signature]	Date/Time: 12/28 1200
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Client Name: Angelo's Recycled Materials (AN010)	Project Number: 87895
Address: 41111 Enterprise Road	Project Name/Desc: ENTERPRISE LF & RECYC (FKA BID LARKIN & SOIL INC.)
City/ST/Zip: Dade City, FL 33525	PO # / Billing Info:
Tel: (352) 521-3807 Fax:	Reporting Contact: Walker Wrenn
Sampler(s) Name, Affiliation (Print): Chris Monaco Ideal Tech Services Inc.	Billing Contact: John Arnold
Sampler(s) Signature:	Site Location / Time Zone: FL/EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: AZ08288

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8011 (I)	8260B Appendix 1 FL (H)	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb,Sb,Se,Tl,V,Zn,Hg (N)	Ammonia 350.1 (S)	Chloride 300,Nitrate as N 300 (I)	TDS SM2540C (I)					Sample Comments
	MW-3B	12-28-16	1159	Grab	GW	8	X	X	X	X	X	X					
	MW-5B	12-28-16	1241	Grab	GW	8	X	X	X	X	X	X					
	MW-5A	12-28-16	1344	Grab	GW	8	X	X	X	X	X	X					
	triplank	—	—	Grab	O	2	—	X	-	-	-	—					O: Lab DI water
	MW-6	12-28-16	1427	Grab	GW	8	X	X	X	X	X	X					
	MW-6B	12-28-16	1445	Grab	GW	8	X	X	X	X	X	X					
	MW-17B	12-28-16	1513	Grab	GW	8	X	X	X	X	X	X					
	BW-1B	12-28-16	1552	Grab	GW	8	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By: ECG	Date/Time: 12/07/16 12:00	Relinquished By: [signature]	Date/Time: 12/07/16 12:00	Received By: [signature]	Date/Time: 12-8-16 1400
Comments/Special Reporting Requirements:		Relinquished By: [signature]	Date/Time: 12-28-16 1600	Received By: [signature]	Date/Time: 12-28-16 1600
		Relinquished By: [signature]	Date/Time: 12-28-16 1737	Received By: [signature]	Date/Time: 12/28/16 @ 1737
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Attachment 5
4th Quarter Landfill Gas Data

Mr. John Arnold, P.E.
Angelo's Recycled Materials
41111 Enterprise Road
Dade City, Fl 33525-1539

December 30, 2016

Subject Site: Enterprise Class III Landfill and Recycling Facility (Angelo's Recycled Materials) Fourth Quarter 2016 LEL Data

Dear Mr. Arnold,

Ideal Tech services, Inc. (ITS) is pleased to present the following notes pertaining to the site of Enterprise Class III Landfill and Recycling Facility (Angelo's Recycled Materials). The fourth quarterly landfill gas monitoring event of 2016 was performed on 12/28/2016.

12/28/16 Tuesday:
ITS personnel C. Monaco completed calibration of the gas meter and entered the site to begin landfill gas monitoring. On this day all of the Landfill Gas wells and the Scale House were measured for % LEL as required by the permit. The results of the measurements are presented in the table located in Attachment A. The instrument calibration was performed at the site and the calibration record for the instrument is included in Attachment B.
ITS personnel logged offsite.

Please don't hesitate to contact us with any questions you may have about the enclosed documents.

Respectfully submitted,

Christopher J. Monaco
Ideal Tech Services, Inc.

Enc: Attachment A, LANDFILL GAS MEASUREMENTS
Attachment B, EQUIPMENT CALIBRATION LOG

P.O. BOX 772016
Ocala, Florida 34477
Telephone: (352) 502-3407
Facsimile: (352) 732-5572
Email: Idealtechservices@earthlink.net
Web Site: http://www.groundwatersamplepro.com

Attachment A

LANDFILL GAS MEASUREMENTS

LANDFILL GAS READINGS ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY FOURTH QUARTER 2016

LOCATION	% LEL	REMARKS
GP-1	-	not installed at this time
GP-2	-	not installed at this time
GP-3	-	not installed at this time
GP-4	-	not installed at this time
GP-5	-	not installed at this time
GP-6	0%	
GP-7	0%	
GP-8	0%	
GP-9	-	abandoned
GP-9R	0%	
GP-10R	0%	
GP-11	0%	
GP-12	0%	well marked 12A
GP-13	0%	well marked 13A
GP-14	0%	
GP-15	0%	
GP-16	-	not installed at this time
SCALE HOUSE	0%	staff occupied structure
Date of measurement 12/28/16		

Attachment B

EQUIPMENT CALIBRATION LOGS

LANDFILL GAS CALIBRATION RECORD
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY FOURTH QUARTERLY 2016

IDEAL TECH SERVICES, INC. W.O.# ARM-EL-35 BW Technologies Model: GasAlert Max XT II, Serial # MA212-42142		
Date: 12/28/16	START	END
20 % LEL	20%	20%
Zero Air	0.0	0.0
Ambient Background	0.0	0.0
Within Limits Yes or No		YES
PRINTED NAME OF PERSON WHO PERFORMED CALIBRATION	SIGNATURE OF PERSON WHO PERFORMED CALIBRATION	
Chris Monaco		
Calibration gases prepared by Eagle Instruments. Zero Air = Lot Number CAM-1-5 EXP 2/2016, 20% LEL Methane Lot Number KAP-135A-1-7 EXP 10/29/2019		