# SEMI-ANNUAL MONITORING REPORT

# FIRST HALF 2020

**FRIENDS RECYCLING**
**(FKA Big D Roofing, Inc.)**
**2350 NW 27th Avenue**
**Ocala, Marion County, Florida**

**PREPARED FOR:**

Florida Department of Environmental Protection
Central District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767

**PREPARED BY:**

Robert M. Couch III, P.E.
ENVIRO-TECH, INC.
15290 SE Hwy 42, PO Box 152
Weirsdale, Florida 32195
(352) 694-1799
Registration No. 55311
Certificate of Authorization No. 8692

February 4, 2020

ROBERT M. COUCH III LICENSE No. 55311 STATE OF FLORIDA PROFESSIONAL ENGINEER

ROBERT M. COUCH III LICENSE No. 55311 STATE OF FLORIDA PROFESSIONAL ENGINEER 2/5/2020

Robert M. Couch III, P.E.

Digitally signed by Robert M. Couch III, P.E.
cn=Robert M. Couch III, P.E., ou= PE No.: 55311, COA No.: 8692, o= ENVIRO-TECH, Inc., l= Weirsdale, st= FL, c= US, email= envirotech@ymail.com
Date: 2020.02.05 11:10:06 EST

February 4, 2020

Friends Recycling
2350 NW 27th Avenue
Ocala, FL 34475

Attention: Mr. Nick Giunarelli

RE: Semi-Annual Sampling Activities for the First Half of 2020
Friends Recycling C&D Landfill
Marion County, Florida

Dear Mr. Giunarelli:

Per your request, Enviro-Technologies, Inc. (ETI) has completed the semi-annual groundwater monitoring report for the First Half of 2020 groundwater sampling activities on Monitoring Wells: MW-1, MW-5, MW-6, MW-7, MW-8, and MW-9. Information about the individual wells is provided in the Appendix of this report.

The following is a summary of the semi-annual sampling activities performed on the above listed wells as required by the Florida Department of Environmental Protection (FDEP) for the Friends Recycling C&D Landfill. A PDF copy of this report has been e-mailed to Clark B. Moore at the FDEP, per Laxsamee Levin's request. Please e-mail him with your cover sheet containing the appropriate verbiage regarding report approval periods as stipulated in the operating permit for this facility.

## PROJECT LOCATION

The subject property is located at 2350 NW 27th Avenue in Ocala, Marion County, Florida, as shown on the Site Location Map in the Appendix.

## GROUNDWATER QUALITY ASSESSMENT

On January 23, 2020, (date of the sample collection), ground water samples were collected from MW-1, MW-5, MW-6, MW-7, MW-8, and MW-9, shown in the Topographic Survey provided by Robert L. Rogers Engineering Co., Inc. All collected groundwater samples were delivered to Environmental Conservation Laboratories, Inc. (ENCO) for analyses.

The collected samples were analyzed for the initial sample parameter items listed in the ENCO groundwater sampling reports. Groundwater sampling activities were performed in accordance with procedures and methods required by FDEP standard operating procedures. All laboratory analytical activities were performed in accordance with FDEP standards. A copy of the sampling data sheet is included in the Appendix.

## GROUNDWATER ANALYTICAL RESULTS

Copies of the laboratory analytical results and chain-of-custody forms and a sample detection summary of the analytical results of each monitoring well for the January 23, 2020 sampling event are provided in the Appendix along with a summary of the Groundwater Elevation data. A summary of the identified peaks equal to greater than the Groundwater Cleanup Target Levels for respective analytical methods are provided in the following tables:

**MW-1**

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Ammonia as N | 3.5 | 2.8 | Mg/L | EPA 350.1 |
| Iron - Total | 10300 | 300 | ug/L | EPA 6020B |
| Sulfate | 420 | 250 | mg/L | EPA 300.0 |
| Total Dissolved Solids | 1300 | 500 | mg/L | SM 2540C-2011 |

## MW-5

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Ammonia as N | 4.2 | 2.8 | ug/L | EPA 350.1 |
| Iron - Total | 10300 | 300 | ug/L | EPA 6020B |
| Total Dissolved Solids | 670 | 500 | mg/L | SM 2540C-2011 |

## MW-6

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Iron - Total | 8690 | 300 | ug/L | EPA 6020B |
| Arsenic - Total | 15 | 10 | ug/L | EPA 6020B |
| Total Dissolved Solids | 890 | 500 | mg/L | SM 2540C-2011 |

## MW-7

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Arsenic - Total | 18.3 | 10 | ug/L | EPA 6020B |
| Sulfate | 380 | 250 | mg/L | EPA 300.0 |
| Iron - Total | 73700 | 300 | ug/L | EPA 6020B |
| Total Dissolved Solids | 1100 | 500 | mg/L | SM 2540C-2011 |

## MW-8

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Ammonia as N | 16 | 2.8 | ug/L | EPA 350.1 |
| Iron - Total | 33400 | 300 | ug/L | EPA 6020B |
| Total Dissolved Solids | 760 | 500 | mg/L | SM 2540C-2011 |

## MW-9

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Total Dissolved Solids | 670 | 500 | mg/L | SM 2540C-2011 |

## CONCLUSION

The laboratory analytical results for MW-1, MW-5, MW-6, MW-7, MW-8, and MW-9 indicate that concentrations of all items analyzed during the sampling event, apart from the items above, are well below the Groundwater Cleanup Target Levels (GCTL's). In addition, the measured items in the Groundwater Sampling Logs indicate that the samples should be representative of the surrounding aquifer.

High levels of iron were noted in monitoring wells MW-1, MW-5, MW-6, MW-7 and MW-8. The iron concentration levels in all wells except MW-6 were lower than the previous sampling event. The various levels are likely the result of changes in rainfall in recent months. Although these items may be the result of steel disposal, significant portions of Marion County are known for having iron in the water.

Total Dissolved Solids in all monitoring wells except for MW-6 and MW-8 were higher than or equal to the previous concentrations for this sampling event. Any higher concentrations are expected to be the result of changes in rainfall amounts.

Ammonia as N was noted slightly above GCTL's in MW-1, MW-5, and MW-8. This change in concentration is expected to be the result of changes in rainfall amounts.

Sulfate levels were noted above GCTL's in MW-1 and MW-7. The sulfate concentration levels in MW-1 and MW-7 were lower than the previous sampling event. This change in concentration is expected to be the result of changes in rainfall amounts.

The items that were observed to be above the GCTL's were common to groundwater in the Marion County area, and their concentrations are expected to vary based on rainfall conditions in the area. Variations between monitoring wells can be attributed to the varying soil compositions common in Marion County.

It should be noted that, according to the groundwater sampling logs, the samples were taken in accordance DEP-SOP-001/01 FS 2200.

## RECOMMENDATION

It is the recommendation of ETI that sampling continue as listed in Monitoring Plan Implementation Schedule (6/25/2013 corrected 12/30/2013) for Facility 21012.

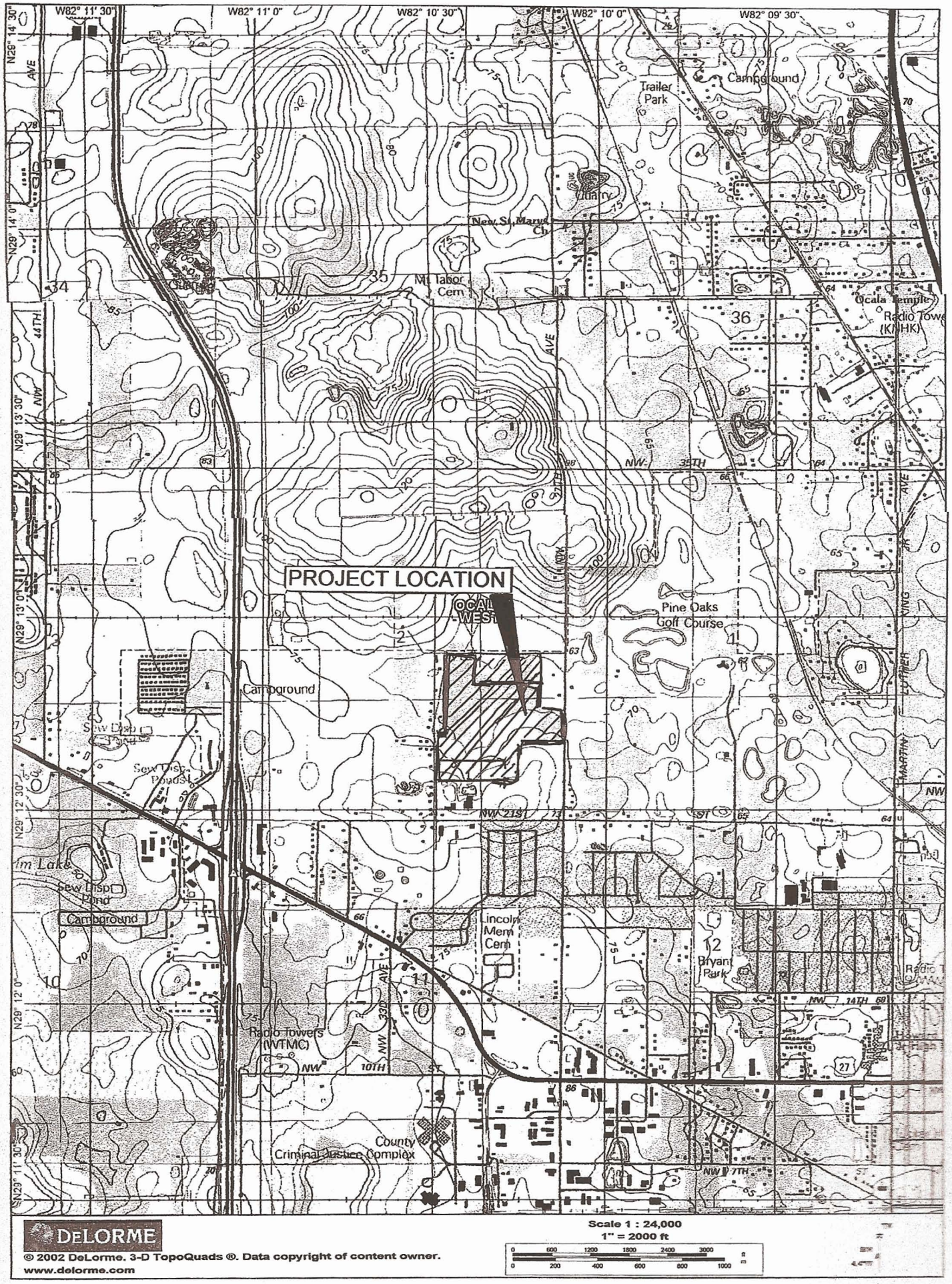
Thank you for the opportunity to provide consulting services to the Friends Recycling C&D Landfill. If you have any questions or comments about this report, please feel free to contact me at (352) 694-1799.

Sincerely,

Robert M. Couch III

Robert M. Couch III, P.E.
President
ENVIRO-TECH, Inc.

# APPENDIX


W82° 11' 30"
W82° 11' 0"
W82° 10' 30"
W82° 10' 0"
W82° 09' 30"
N29° 14' 30"
N29° 14' 0"
N29° 13' 30"
N29° 13' 0"
N29° 12' 30"
N29° 12' 0"
N29° 11' 30"
PROJECT LOCATION
Trailer Park
Campground
Quarry
New St. Marys Ch
Mt Tabor Cem
Ocala Temple
Radio Towe
(KNHK)
Pine Oaks Golf Course
Campground
Sew Disp Pond
Sew Disp Ponds
Im Lake
Sew Disp Pond
Campground
Lincoln Mem Cem
Bryant Park
Radio Towers (WTMC)
County Criminal Justice Complex
34
35
36
10
11
12
44TH AVE
35TH AVE
MARTIN LUTHER KING
NW 21ST ST
NW 14TH ST
NW 10TH ST
NW 7TH ST
330' NW
DELORME
Scale 1 : 24,000
1" = 2000 ft
© 2002 DeLorme. 3-D TopoQuads ®. Data copyright of content owner.
www.delorme.com

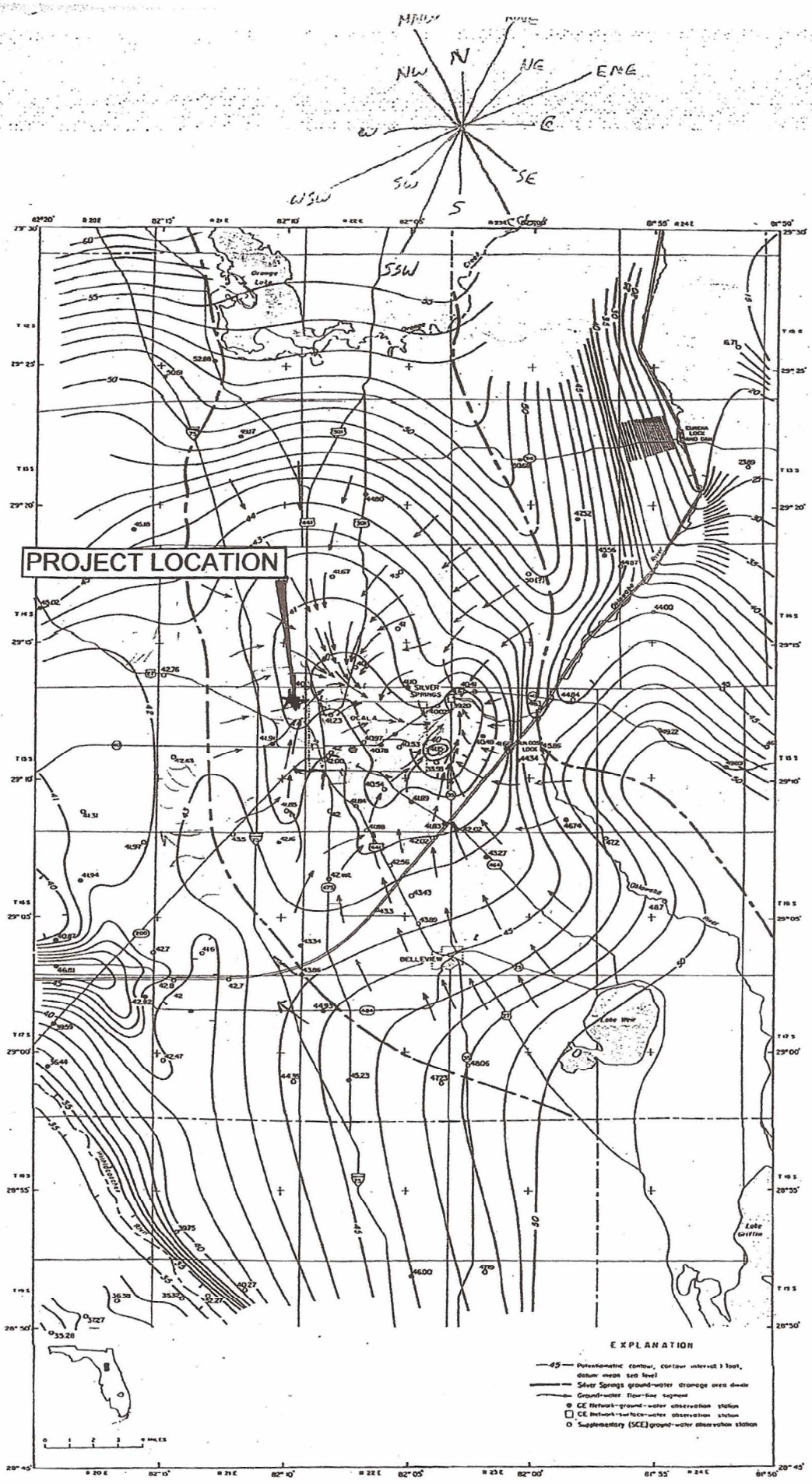



**Figure 25. Potentiometric surface of upper part of Floridan Aquifer in May 1968 (low-water period), Ocala vicinity.**

# TABLE 1
## SUMMARY OF GROUNDWATER ELEVATION DATA
WACS Facility: 21012 Friends Recycling Facility

January 23, 2020

| GROUNDWATER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Well No.** | **WACS No.** | **Latitude** | **Longitude** | **Ground Surface Elevation** | **Top of Casing (TOC) Elevation** | **Total Well Depth** | **Depth to Water (1/23/2020)** | **Water Table Elevation (1/23/2020)** |
| MW-1 | 18811 | 29d 12' 44.009" N | 82d 10' 12.150" W | 72.57 | 74.66 | 43.45 | 30.71 | 43.95 |
| MW-5 | 22912 | 29d 12' 35.218" N | 82d 10' 22.219" W | 85.77 | 88.01 | 67.45 | 44.03 | 43.98 |
| MW-6 | 22913 | 29d 12' 39.697" N | 82d 10' 28.570" W | 77.85 | 78.05 | 53.10 | 33.97 | 44.08 |
| MW-7 | 22914 | 29d 12' 35.488" N | 82d 10' 15.161" W | 85.97 | 88.67 | 53.80 | 44.63 | 44.08 |
| MW-8 | 22915 | 29d 12' 41.519" N | 82d 10' 25.153" W | 67.76 | 71.17 | 34.24 | 27.31 | 43.86 |
| MW-9 | 22916 | 29d 12' 44.853" N | 82d 10' 17.931" W | 65.51 | 68.64 | 32.80 | 24.93 | 43.71 |

MW-3 Monitoring Well Number 3 (Sampling Location)
Elevations based on NAVD-88

**ATTACHMENT E**

# Florida Department of Environmental Protection

3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767

## GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Friends Recycling LLC-C&D Disposal and Recycling

Address 2350 NW 27th Avenue

City Ocala FL Zip 34471 County Marion

Telephone Number (352) 622-5800 E-mail address UNKNOWN

(2) WACS_Facility 21012

(3) DEP Permit Number SO42-0019600-007

(4) Authorized Representative's Name ENVIRO-TECH, Inc., Robert M. Couch III, P.E. Title President

Address PO Box 152

City Weirsdale Zip 32195 County Marion

Telephone Number (352) 694-1799 E-mail address envirotech@ymail.com

(5) Type of Discharge Groundwater

(6) Method of Discharge C&D Landfill

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.

2/4/2020
Date

Robert M. Couch III
Owner or Authorized Representative's Signature

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Comp QAP # Ideal Tech Services, Inc.

Analytical Lab NELAC #/ HRS Certification E83282

Lab Name Environmental Conservation Laboratories (ENCO) Orlando

Address 10775 Central Port Drive Orlando Florida 32824

Phone Number (407) 826-5314

E-mail Address

# IDEAL TECH SERVICES, INC. GROUNDWATER SAMPLE LOG

| | | |
|---|---|---|
| Site Name: Friends Recycling | Site Location: Marion County, Florida | |
| Well No: **MW-1** | WACS Well Number: 18811 | Date: 01/23/20 |

**Purging Data**

| Well Diameter (inches): | Tubing Diameter (inches): | Well Screen Interval (ft): | Static Depth to Water (ft): | Purge Pump Type: |
|---|---|---|---|---|
| 2 | 0.375 | unknown to unknown | 30.71 | SS ESP |

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth To Water) * Well Capacity (gal/ft)

= ( 43.45 Feet - 30.71 Feet) * 0.16 Gallons/Ft= 2.04 Gallons

Equipment Volume Purge: 1 Equipment Vol. = Pump Volume + (Tubing Capacity * Tubing Length) + Flow Cell Volume (FCV)

Gallons + ( 0.006 Gallons/Ft * Feet) + FCV = Gallons

| Initial Pump or Tubing Depth In Well (ft): | Final Pump or Tubing Depth In Well (ft): | Purging Initiated At: | Purging Ended At: | Total Volume Purged (gal): |
|---|---|---|---|---|
| 31.00 | 31.00 | 1056 | 1111 | 9.00 |

| Time | Volume Purged (gallons) | Total Volume Purged (gallons) | Purge Rate (gpm) | Depth to Water (feet) | pH (standard units) | Temp (°C) | COND (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 5.40 | 5.40 | .60 | 30.90 | 6.36 | 24.9 | 1,796 | .03 | .50 | yellow | none |
| 1108 | 1.80 | 7.20 | .60 | 30.90 | 6.36 | 24.9 | 1,798 | .04 | .40 | yellow | none |
| 1111 | 0.80 | 9.00 | .60 | 30.90 | 6.36 | 24.9 | 1,799 | .03 | .30 | yellow | none |
| | | | | | | | | | | | |
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**SAMPLING DATA**

| Sampled By: Ideal Tech Services, Inc. Chris Monaco or Louis Contento | Signature: | Sampling Initiated At: | Sampling Ended At: |
|---|---|---|---|
| | | 1111 | 1116 |

| Pump or Tubing Depth in Well (ft): | Tubing Material Code: | Field Filtered: ☐ YES ☑ NO | Filter Size: |
|---|---|---|---|
| 31.00 | PE | Filtration Equipment Type: polyethersulphone | (µm) |

Field Decontamination Pump: ☑ YES ☐ NO  Tubing Replaced: ☑ YES ☐ NO  Duplicate: ☐ YES ☑ NO

| Sample Container Specifications | | | | Sample Preservation (including wet ice) | | | Intended Analysis and/or Method | Sampling Equipment Code | Sample Flow Rate (milliliters per minute) |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID Code | # Containers | Material Code | Volume | Preservative | Total Volume Added In Field | Final pH | | | |
| **MW-1** | 3 | CG | 40 mL | HCl | None | Not Required | 8260(Arom/ Halo) | SS ESP | 100 |
| **MW-1** | 1 | PE | 250 mL | 4°C | None | Not Required | Chloride, Nitrate, Sulfate, TDS | SS ESP | 2271 |
| **MW-1** | 1 | PE | 250 mL | $HNO_3$ | None | <2 | Metals | SS ESP | 2271 |
| **MW-1** | 1 | PE | 250 mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | SS ESP | 2271 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Remarks:

DTW = 30.71 Reference Elevation = 74.66 GWTE = 43.95 This data is not NGVD compliant. Therefore, ITS does not authorize it to be used in groundwater modeling programs.

**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; **SS ESP** = Stainless Steel Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**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

**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)

ITS Revision 1.0 Date: 11/06/19

# IDEAL TECH SERVICES, INC. GROUNDWATER SAMPLE LOG

| | | |
|---|---|---|
| Site Name: Friends Recycling | Site Location: Marion County, Florida | |
| Well No: **MW-5** | WACS Well Number: 22912 | Date: 1/23/20 |

**Purging Data**

| Well Diameter (inches): | Tubing Diameter (inches): | Well Screen Interval (ft): | Static Depth to Water (ft): | Purge Pump Type: |
|---|---|---|---|---|
| 2 | 0.375 | unknown to unknown | 44.03 | SS ESP |

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth To Water) * Well Capacity (gal/ft)

= ( 67.45 Feet - 44.03 Feet) * 0.16 Gallons/Ft= 3.75 Gallons

Equipment Volume Purge: 1 Equipment Vol. = Pump Volume + (Tubing Capacity * Tubing Length) + Flow Cell Volume (FCV)

Gallons + ( 0.006 Gallons/Ft * Feet) + FCV = Gallons

| Initial Pump or Tubing Depth In Well (ft): | Final Pump or Tubing Depth In Well (ft): | Purging Initiated At: | Purging Ended At: | Total Volume Purged (gal): |
|---|---|---|---|---|
| 45.00 | 45.00 | 1248 | 1300 | 6.00 |

| Time | Volume Purged (gallons) | Total Volume Purged (gallons) | Purge Rate (gpm) | Depth to Water (feet) | pH (standard units) | Temp (°C) | COND (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1256 | 4.00 | 4.00 | .50 | 44.06 | 6.16 | 31.6 | 1334 | .08 | 1.20 | None | None |
| 1258 | 1.00 | 5.00 | .50 | 44.06 | 6.15 | 31.6 | 1323 | .06 | .90 | None | None |
| 1300 | 1.00 | 6.00 | .50 | 44.06 | 6.14 | 31.6 | 1313 | .06 | 1.00 | None | None |
| | | | | | | | | | | | |
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**SAMPLING DATA**

| Sampled By: Ideal Tech Services, Inc. Chris Monaco or Louis Contento | Signature: | Sampling Initiated At: | Sampling Ended At: |
|---|---|---|---|
| | | 1300 | 1305 |

| Pump or Tubing Depth in Well (ft): | Tubing Material Code: | Field Filtered: ☐ YES ☑ NO | Filter Size: |
|---|---|---|---|
| 45.00 | PE | Filtration Equipment Type: polyethersulphone | (µm) |

Field Decontamination Pump: ☑ YES ☐ NO  Tubing Replaced: ☑ YES ☐ NO  Duplicate: ☐ YES ☑ NO

| Sample Container Specifications | | | | Sample Preservation (including wet ice) | | | Intended Analysis and/or Method | Sampling Equipment Code | Sample Flow Rate (milliliters per minute) |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID Code | # Containers | Material Code | Volume | Preservative | Total Volume Added In Field | Final pH | | | |
| **MW-5** | 3 | CG | 40 mL | HCl | None | Not Required | 8260(Arom/ Halo) | SS ESP | 100 |
| **MW-5** | 1 | PE | 250 mL | 4°C | None | Not Required | Chloride, Nitrate, Sulfate, TDS | SS ESP | 1135 |
| **MW-5** | 1 | PE | 250 mL | $HNO_3$ | None | <2 | Metals | SS ESP | 1135 |
| **MW-5** | 1 | PE | 250 mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | SS ESP | 1135 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Remarks: Slowed pump to sample

DTW = 44.03 Reference Elevation = 88.01 GWTE = 43.98 This data is not NGVD compliant. Therefore, ITS does not authorize it to be used in groundwater modeling programs.

**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; **SS ESP** = Stainless Steel Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**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

**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)

ITS Revision 1.0 Date: 11/06/19

# IDEAL TECH SERVICES, INC. GROUNDWATER SAMPLE LOG

| | | |
|---|---|---|
| Site Name: Friends Recycling | Site Location: Marion County, Florida | |
| Well No: **MW-6** | WACS Well Number: 22913 | Date: 1/23/20 |

**Purging Data**

| Well Diameter (inches): | Tubing Diameter (inches): | Well Screen Interval (ft): | | | Static Depth to Water (ft): | Purge Pump Type: |
|---|---|---|---|---|---|---|
| 2 | 0.375 | 40 | to | 50 | 33.97 | SS ESP |

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth To Water) * Well Capacity (gal/ft)

= ( 53.10 Feet - 33.97 Feet) * 0.16 Gallons/Ft= 3.06 Gallons

Equipment Volume Purge: 1 Equipment Vol. = Pump Volume + (Tubing Capacity * Tubing Length) + Flow Cell Volume (FCV)

Gallons + ( 0.006 Gallons/Ft * Feet) + FCV = Gallons

| Initial Pump or Tubing Depth In Well (ft): | Final Pump or Tubing Depth In Well (ft): | Purging Initiated At: | Purging Ended At: | Total Volume Purged (gal): |
|---|---|---|---|---|
| 35.00 | 35.00 | 1312 | 1323 | 5.50 |

| Time | Volume Purged (gallons) | Total Volume Purged (gallons) | Purge Rate (gpm) | Depth to Water (feet) | pH (standard units) | Temp (°C) | COND (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1319 | 3.50 | 3.50 | .50 | 34.50 | 6.17 | 24.0 | 1463 | .04 | 6.10 | lt yellow | None |
| 1321 | 1.00 | 4.50 | .50 | 34.50 | 6.17 | 24.0 | 1459 | .04 | 4.10 | lt yellow | None |
| 1323 | 1.00 | 5.50 | .50 | 34.50 | 6.16 | 24.0 | 1457 | .04 | 2.60 | lt yellow | None |
| | | | | | | | | | | | |
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**SAMPLING DATA**

| Sampled By: Ideal Tech Services, Inc. Chris Monaco or Louis Contento | Signature: | Sampling Initiated At: | Sampling Ended At: |
|---|---|---|---|
| | | 1323 | 1328 |

| Pump or Tubing Depth in Well (ft): | Tubing Material Code: | Field Filtered: ☐ YES ☑ NO | Filter Size: |
|---|---|---|---|
| 35.00 | PE | Filtration Equipment Type: polyethersulphone | (µm) |

Field Decontamination Pump: ☑ YES ☐ NO  Tubing Replaced: ☑ YES ☐ NO  Duplicate: ☐ YES ☑ NO

| Sample Container Specifications | | | | Sample Preservation (including wet ice) | | | Intended Analysis and/or Method | Sampling Equipment Code | Sample Flow Rate (milliliters per minute) |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID Code | # Containers | Material Code | Volume | Preservative | Total Volume Added In Field | Final pH | | | |
| **MW-6** | 3 | CG | 40 mL | HCl | None | Not Required | 8260(Arom/ Halo) | SS ESP | 100 |
| **MW-6** | 1 | PE | 250 mL | 4°C | None | Not Required | Chloride, Nitrate, Sulfate, TDS | SS ESP | 1135 |
| **MW-6** | 1 | PE | 250 mL | $HNO_3$ | None | <2 | Metals | SS ESP | 1135 |
| **MW-6** | 1 | PE | 250 mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | SS ESP | 1135 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Remarks: Slowed pump to sample

DTW = 33.97 Reference Elevation = 78.05 GWTE = 44.08 This data is not NGVD compliant. Therefore, ITS does not authorize it to be used in groundwater modeling programs.

**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; **SS ESP** = Stainless Steel Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**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

**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)

ITS Revision 1.0 Date: 11/06/19

# IDEAL TECH SERVICES, INC. GROUNDWATER SAMPLE LOG

| | | |
|---|---|---|
| Site Name: Friends Recycling | Site Location: Marion County, Florida | |
| Well No: **MW-7** | WACS Well Number: 22914 | Date: 1/23/20 |

**Purging Data**

| Well Diameter (inches): | Tubing Diameter (inches): | Well Screen Interval (ft): | Static Depth to Water (ft): | Purge Pump Type: |
|---|---|---|---|---|
| 2 | 0.375 | 41 to 51 | 44.63 | SS ESP |

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth To Water) * Well Capacity (gal/ft)

= ( 53.80 Feet - 44.63 Feet) * 0.16 Gallons/Ft= 1.47 Gallons

Equipment Volume Purge: 1 Equipment Vol. = Pump Volume + (Tubing Capacity * Tubing Length) + Flow Cell Volume (FCV)

Gallons + ( 0.006 Gallons/Ft * Feet) + FCV = Gallons

| Initial Pump or Tubing Depth In Well (ft): | Final Pump or Tubing Depth In Well (ft): | Purging Initiated At: | Purging Ended At: | Total Volume Purged (gal): |
|---|---|---|---|---|
| 48.00 | 49.00 | 1224 | 1232 | 4.00 |

| Time | Volume Purged (gallons) | Total Volume Purged (gallons) | Purge Rate (gpm) | Depth to Water (feet) | pH (standard units) | Temp (°C) | COND (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1228 | 2.00 | 2.00 | .50 | 47.14 | 6.06 | 24.6 | 1708 | .16 | 4.80 | None | None |
| 1230 | 1.00 | 3.00 | .50 | 47.43 | 5.97 | 24.6 | 1698 | .12 | 4.00 | None | None |
| 1232 | 1.00 | 4.00 | .50 | 47.81 | 5.96 | 24.7 | 1699 | .08 | 3.00 | None | None |
| | | | | | | | | | | | |
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**SAMPLING DATA**

| Sampled By: Ideal Tech Services, Inc. Chris Monaco or Louis Contento | Signature: | Sampling Initiated At: | Sampling Ended At: |
|---|---|---|---|
| | | 1232 | 1237 |

| Pump or Tubing Depth in Well (ft): | Tubing Material Code: | Field Filtered: ☐ YES ☑ NO | Filter Size: |
|---|---|---|---|
| 49.00 | PE | Filtration Equipment Type: polyethersulphone | (µm) |

Field Decontamination Pump: ☑ YES ☐ NO  Tubing Replaced: ☑ YES ☐ NO  Duplicate: ☐ YES ☑ NO

| Sample Container Specifications | | | | Sample Preservation (including wet ice) | | | Intended Analysis and/or Method | Sampling Equipment Code | Sample Flow Rate (milliliters per minute) |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID Code | # Containers | Material Code | Volume | Preservative | Total Volume Added In Field | Final pH | | | |
| **MW-7** | 3 | CG | 40 mL | HCl | None | Not Required | 8260(Arom/ Halo) | SS ESP | 100 |
| **MW-7** | 1 | PE | 250 mL | 4°C | None | Not Required | Chloride, Nitrate, Sulfate, TDS | SS ESP | 1135 |
| **MW-7** | 1 | PE | 250 mL | $HNO_3$ | None | <2 | Metals | SS ESP | 1135 |
| **MW-7** | 1 | PE | 250 mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | SS ESP | 1135 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Remarks: slowed pump to sample. Sheen observed

DTW = 44.63 Reference Elevation = 88.67 GWTE = 44.04 This data is not NGVD compliant. Therefore, ITS does not authorize it to be used in groundwater modeling programs.

**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; **SS ESP** = Stainless Steel Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**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

**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)

ITS Revision 1.0 Date: 11/06/19

# IDEAL TECH SERVICES, INC. GROUNDWATER SAMPLE LOG

| | | |
|---|---|---|
| Site Name: Friends Recycling | Site Location: Marion County, Florida | |
| Well No: **MW-8** | WACS Well Number: 22915 | Date: 1/23/20 |

**Purging Data**

| Well Diameter (inches): | Tubing Diameter (inches): | Well Screen Interval (ft): | | | Static Depth to Water (ft): | Purge Pump Type: |
|---|---|---|---|---|---|---|
| 2 | 0.375 | 20 | to | 30 | 27.31 | SS ESP |

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth To Water) * Well Capacity (gal/ft)

= ( 34.24 Feet - 27.31 Feet) * 0.16 Gallons/Ft= 1.11 Gallons

Equipment Volume Purge: 1 Equipment Vol. = Pump Volume + (Tubing Capacity * Tubing Length) + Flow Cell Volume (FCV)

Gallons + ( 0.006 Gallons/Ft * Feet) + FCV = Gallons

| Initial Pump or Tubing Depth In Well (ft): | Final Pump or Tubing Depth In Well (ft): | Purging Initiated At: | Purging Ended At: | Total Volume Purged (gal): |
|---|---|---|---|---|
| 28.50 | 28.50 | 1155 | 1206 | 3.30 |

| Time | Volume Purged (gallons) | Total Volume Purged (gallons) | Purge Rate (gpm) | Depth to Water (feet) | pH (standard units) | Temp (°C) | COND (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1200 | 1.50 | 1.50 | .30 | 27.40 | 6.22 | 24.8 | 1578 | .15 | 4.80 | None | Yes |
| 1203 | 0.90 | 2.40 | .30 | 27.40 | 6.20 | 25.0 | 1575 | .12 | 1.90 | None | Yes |
| 1206 | 0.90 | 3.30 | .30 | 27.40 | 6.19 | 25.0 | 1567 | .09 | 1.50 | None | Yes |
| | | | | | | | | | | | |
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**SAMPLING DATA**

| Sampled By: Ideal Tech Services, Inc. Chris Monaco or Louis Contento | Signature: | Sampling Initiated At: | Sampling Ended At: |
|---|---|---|---|
| | | 1206 | 1211 |

| Pump or Tubing Depth in Well (ft): | Tubing Material Code: | Field Filtered: ☐ YES ☑ NO | Filter Size: |
|---|---|---|---|
| 28.50 | PE | Filtration Equipment Type: polyethersulphone | (µm) |

Field Decontamination Pump: ☑ YES ☐ NO Tubing Replaced: ☑ YES ☐ NO Duplicate: ☐ YES ☑ NO

| Sample Container Specifications | | | | Sample Preservation (including wet ice) | | | Intended Analysis and/or Method | Sampling Equipment Code | Sample Flow Rate (milliliters per minute) |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID Code | # Containers | Material Code | Volume | Preservative | Total Volume Added In Field | Final pH | | | |
| **MW-8** | 3 | CG | 40 mL | HCl | None | Not Required | 8260(Arom/ Halo) | SS ESP | 100 |
| **MW-8** | 1 | PE | 250 mL | 4°C | None | Not Required | Chloride, Nitrate, Sulfate, TDS | SS ESP | 1136 |
| **MW-8** | 1 | PE | 250 mL | $HNO_3$ | None | <2 | Metals | SS ESP | 1136 |
| **MW-8** | 1 | PE | 250 mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | SS ESP | 1136 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Remarks: white particles observed in purge water. Sheen observed.

DTW = 27.31 Reference Elevation = 71.17 GWTE = 43.86 This data is not NGVD compliant. Therefore, ITS does not authorize it to be used in groundwater modeling programs.

**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; **SS ESP** = Stainless Steel Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**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

**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)

ITS Revision 1.0 Date: 11/06/19

# IDEAL TECH SERVICES, INC. GROUNDWATER SAMPLE LOG

| | | |
|---|---|---|
| Site Name: Friends Recycling | Site Location: Marion County, Florida | |
| Well No: **MW-9** | WACS Well Number: 22916 | Date: 1/23/20 |

**Purging Data**

| Well Diameter (inches): | Tubing Diameter (inches): | Well Screen Interval (ft): | Static Depth to Water (ft): | Purge Pump Type: |
|---|---|---|---|---|
| 2 | 0.375 | Unknown to Unknown | 24.93 | SS ESP |

Well Volume Purge: 1 Well Volume = (Total Well Depth - Static Depth To Water) * Well Capacity (gal/ft)

= ( 32.80 Feet - 24.93 Feet) * 0.16 Gallons/Ft= 1.26 Gallons

Equipment Volume Purge: 1 Equipment Vol. = Pump Volume + (Tubing Capacity * Tubing Length) + Flow Cell Volume (FCV)

Gallons + ( 0.006 Gallons/Ft * Feet) + FCV = Gallons

| Initial Pump or Tubing Depth In Well (ft): | Final Pump or Tubing Depth In Well (ft): | Purging Initiated At: | Purging Ended At: | Total Volume Purged (gal): |
|---|---|---|---|---|
| 26.00 | 26.00 | 1130 | 1140 | 6.00 |

| Time | Volume Purged (gallons) | Total Volume Purged (gallons) | Purge Rate (gpm) | Depth to Water (feet) | pH (standard units) | Temp (°C) | COND (µS/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1134 | 2.40 | 2.40 | .60 | 25.15 | 6.70 | 23.1 | 1050 | .05 | 1.30 | None | None |
| 1137 | 1.80 | 4.20 | .60 | 25.15 | 6.60 | 23.1 | 1056 | .03 | 1.20 | None | None |
| 1140 | 1.80 | 6.00 | .60 | 25.15 | 6.57 | 23.1 | 1057 | .02 | 1.00 | None | None |
| | | | | | | | | | | | |
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**SAMPLING DATA**

| Sampled By: Ideal Tech Services, Inc. Chris Monaco or Louis Contento | Signature: | Sampling Initiated At: | Sampling Ended At: |
|---|---|---|---|
| | | 1140 | 1145 |

| Pump or Tubing Depth in Well (ft): | Tubing Material Code: | Field Filtered: ☐ YES ☑ NO | Filter Size: |
|---|---|---|---|
| 26.00 | PE | Filtration Equipment Type: polyethersulphone | (µm) |

Field Decontamination Pump: ☑ YES ☐ NO  Tubing Replaced: ☑ YES ☐ NO  Duplicate: ☐ YES ☑ NO

| Sample Container Specifications | | | | Sample Preservation (including wet ice) | | | Intended Analysis and/or Method | Sampling Equipment Code | Sample Flow Rate (milliliters per minute) |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID Code | # Containers | Material Code | Volume | Preservative | Total Volume Added In Field | Final pH | | | |
| **MW-9** | 3 | CG | 40 mL | HCl | None | Not Required | 8260(Arom/ Halo) | SS ESP | 100 |
| **MW-9** | 1 | PE | 250 mL | 4°C | None | Not Required | Chloride, Nitrate, Sulfate, TDS | SS ESP | 1135 |
| **MW-9** | 1 | PE | 250 mL | $HNO_3$ | None | <2 | Metals | SS ESP | 1135 |
| **MW-9** | 1 | PE | 250 mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | SS ESP | 1135 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Remarks: MW-9D DTW= 24.89. Slowed pump to sample.

DTW = 24.93 Reference Elevation = 68.64 GWTE = 43.71 This data is not NGVD compliant. Therefore, ITS does not authorize it to be used in groundwater modeling programs.

**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; **SS ESP** = Stainless Steel Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**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

**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)

ITS Revision 1.0 Date: 11/06/19

# CALIBRATION LOG

ITS Work Order Number: FRL-23-012320

CLIENT: Friends Recycling
ADDRESS: 2350 NW 27th Ave.
CITY, STATE: Ocala, Florida 34475
Site: Friends Recycling C&D Landfill
INITIAL CAL DATE @ TIME: 1/20/20 @ 0800
CCV CALIBRATION DATE @ TIME: 1/24/20 @ 0810



**YSI Multi Parameter Meter: YSI-PRO+ ITS #4**

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

| STANDARD Standard Units | METER READING INITIAL | ICV (± 0.2 SU) | CCV (± 0.2 SU) | LOT NUMBER | EXP DATE |
|---|---|---|---|---|---|
| 4.005 | 4.00 | 4.00 | 3.97 | CC583722 | Oct-20 |
| 7.000 | 7.00 | 7.00 | 6.97 | CC591155 | Nov-20 |
| 10.012 | 10.00 | 10.00 | 9.98 | CC596051 | Dec-20 |
| Liquid Temp °C | 17.1 | 17.1 | 15.7 | Standards prepared by USA Blue Book | |

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

**Initial Calibration and CCV Daily for D.O. Date: 1/23/20**

| STANDARD (mg/L) | METER READING INITIAL | CCV (± 0.3 mg/L) | LOT NUMBER | EXPIRATION DATE |
|---|---|---|---|---|
| Barometer mm/Hg | 762.7 | 761.6 | No CCV Limit | |
| 0.00 | .05 | .05 | 8GE557 | May-19 |
| Ambient Air Temperature | | | | |
| 20.0 °C | 9.16 | | | |
| 23.2 °C | | 8.56 | | |

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by USA Blue Book. Limit is ± 0.3 mg/L of theoretical value (see Table FT 1500-1)

**Start: ORP Sensor Per DEP-SOP-001/01 FT 2100 End:**

| STANDARD (mV) | METER READING INITIAL | CCV | LOT NUMBER | EXPIRATION DATE |
|---|---|---|---|---|
| 200 | NM | NM | 9GE744 | Feb-20 |
| 400 | NM | NM | 9GC215 | Mar-20 |

Standard is ORP solution, prepared by USA Blue Book. Cal Limit is ± 5% @ 25° C

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

| STANDARD µmhos/cm | METER READING INITIAL | CCV (± 5%) | LOT NUMBER | EXPIRATION DATE |
|---|---|---|---|---|
| 8,974 | NM | NM | 9GC039 | Mar-20 |
| 2,764 | 2,766 | 2,759 | 9GI321 | Sep-20 |
| 84 | 94 | 91 | 9GB596 | Feb-20 |
| | | | | |

Standards prepared by USA Blue Book. All standards are potassium chloride solutions.

**YSI Temperature Sensor Check Per DEP-SOP-001/01 FT 1400**

| STANDARD °C ERTCO Thermometer ± .5 °C | | YSI METER TEMP READING °C LOW | HIGH | METER NUMBER | DATE PERFORMED (Quarterly) |
|---|---|---|---|---|---|
| LOW | 5.90 | 5.91 | | ITS YSI #2 | 09/27/19 |
| HIGH | 29.30 | | 29.33 | ITS YSI #2 | 09/27/19 |
| LOW | 5.90 | 5.91 | | ITS YSI #4 | 09/27/19 |
| HIGH | 31.10 | | 31.05 | ITS YSI #4 | 09/27/19 |

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. YSI is checked against ERTCO once per quarter

Fluke Infrared Thermoneter S.N. 1370781 | Certified By Aqua Pure Once Per Year 1/25/19 | +0.1°C

**HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 DRT - 15CE**
**Per DEP-SOP-001/01 FT 1600 ITSNTU # 1**

| STANDARD (ntu) | METER READING INITIAL | CCV | CCV Acceptance % of standard value | |
|---|---|---|---|---|
| 1000 | NM | NM | ± 5.0% | |
| 100 | 100 | 100 | ± 6.5% | |
| 10 | 10 | 10 | ± 10% | |
| 0.02 | .02 | .02 | ± 10% | |

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 80516 EXP: May / 2020

**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 (± 10%) | NM | NM | NM | NM |

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

**Remarks:**

**Weather Conditions:**

**Equipment Blank with D.I. water**

**Zephyrhills brand Lot #102219295WF233**

**Exp Date 04/30/21**

Equipment Blank Collected @ None collected

Notes: **NA** - **N**ot **A**pplicable, **NM** - **N**ot **M**easured, **ICV** - **I**nitial **C**alibration **V**erification, **CCV** - **C**ontinuing **C**alibration **V**erification Revision 8.20 11/18/19 calibration solution update

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: Nick Giumarelli

SIGNED:

Chris Monaco or Louis Contento

# ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com


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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




| | |
|---|---|
| Client Name: Friends Recycling (FR008) | Project Number: 21012 |
| Address: 2350 NW 27th Avenue | Project Name/Desc: FRIENDS RECYCLING FORMERLY OCALA RECYCLING |
| City/ST/Zip: Ocala, FL 34475 | PO # / Billing Info: |
| Tel: (352) 268-1853 Fax: (352) 622-4999 | Reporting Contact: Nick Giumarelli |
| Sampler(s) Name, Affiliation (Print): ~~Luis Santana~~ Tidetech | Billing Contact: Nick Giumarelli |
| Sampler(s) Signature: | Site Location / Time Zone: FL EST |

**Requested Analyses**

| 8260D Arom/Halo | Chloride 300,Nitrate as N 300,Sulfate 300,TDS SM2540C | Ammonia 350.1 | Al,As,Cd,Cr,Fe,Hg,Na,Pb | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Preservation** (See Codes) (Combine as necessary) | | | | | | | | | |
| IH | I | IS | N | | | | | | |

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: AD00163

| Item # | Sample ID (Field Identification) | Collection Date | Collection Time | Comp / Grab | Matrix (see codes) | Total # of Containers | IH | I | IS | N | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-4 | 1/23/20 | 1116 | Grab | GW | 6 | X | X | X | X | |
| | MW-5 | | 1305 | Grab | GW | 6 | X | X | X | X | |
| | MW-6 | | 1308 | Grab | GW | 6 | X | X | X | X | |
| | MW-7 | | 1237 | Grab | GW | 6 | X | X | X | X | |
| | MW-8 | | 1211 | Grab | GW | 6 | X | X | X | X | |
| | MW-9 | 1/23/20 | 1145 | Grab | GW | 6 | X | X | X | X | |
| | TRIP BLANK | — | — | Grab | WA | 2 | X | — | — | — | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

<-- Total # of Containers

| | | | | | |
|---|---|---|---|---|---|
| Sample Kit Prepared By: EC6 | Date/Time: 01/17/20 9:30 | Relinquished By | Date/Time: 01/17/20 9:30 | Received By | Date/Time: 1/23/20 1655 |
| Comments/Special Reporting Requirements | | Relinquished By | Date/Time: 1/24/20 0255 | Received By | Date/Time: 1/24/20 0555 |
| | | Relinquished By | Date/Time: 1/24/20 0941 | Received By | Date/Time: 012420 9:42 |
| | | Cooler #'s & Temps on Receipt: MES-442 3.7°C | | 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)

**ENCO Laboratories**

*Accurate. Timely. Responsive. Innovative.*

**10775 Central Port Drive**
**Orlando FL, 32824**
**Phone: 407.826.5314 FAX: 407.850.6945**

Friday, January 31, 2020
Friends Recycling (FR008)
Attn: Nick Giumarelli
2350 NW 27th Avenue
Ocala, FL 34475

**RE: Laboratory Results for**
**Project Number: 21012, Project Name/Desc: FRIENDS RECYCLING FORMERLY OCALA RECYCLING**
**ENCO Workorder(s): AD00163**

Dear Nick Giumarelli,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, January 24, 2020.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Carlene S. Pasipanki

Carlene S Pasipanki

Project Manager

Enclosure(s)

## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID: MW-1** **Lab ID: AD00163-01** **Sampled: 01/23/20 11:16** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | NA | 01/25/20 | 11:16 | | | 01/24/20 | 12:00 | 01/24/20 17:00 |
| EPA 300.0 | NA | 02/20/20 | | | | 01/24/20 | 12:00 | 01/24/20 17:00 |
| EPA 6020B | EPA 3005A | 07/21/20 | | | | 01/27/20 | 10:42 | 01/28/20 14:22 |
| EPA 7470A | EPA 7470A | 02/20/20 | | | | 01/27/20 | 12:21 | 01/28/20 09:30 |
| EPA 8260D | EPA 5030B_MS | 02/06/20 | | | | 01/28/20 | 00:00 | 01/29/20 02:34 |
| Field | NO PREP | 01/23/20 | 11:30 | | | 01/23/20 | 11:16 | 01/23/20 11:16 |
| Field | NO PREP | 01/24/20 | 11:16 | 01/24/20 | 11:16 | 01/23/20 | 11:16 | 01/23/20 11:16 |
| Field | NO PREP | 01/25/20 | 11:16 | | | 01/23/20 | 11:16 | 01/23/20 11:16 |
| SM 2540C-2011 | NO PREP | 01/30/20 | | | | 01/27/20 | 10:49 | 01/28/20 15:34 |

**Client ID: MW-1** **Lab ID: AD00163-01RE1** **Sampled: 01/23/20 11:16** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|---|
| EPA 300.0 | NA | 02/20/20 | 01/27/20 08:31 | 01/27/20 09:51 |
| EPA 6020B | EPA 3005A | 07/21/20 | 01/27/20 10:42 | 01/28/20 14:34 |

**Client ID: MW-1** **Lab ID: AD00163-01RE2** **Sampled: 01/23/20 11:16** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|---|
| EPA 350.1 | Same | 02/20/20 | 01/28/20 08:40 | 01/28/20 12:16 |

**Client ID: MW-5** **Lab ID: AD00163-02** **Sampled: 01/23/20 13:05** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | NA | 01/25/20 | 13:05 | | | 01/24/20 | 12:00 | 01/24/20 17:15 |
| EPA 300.0 | NA | 02/20/20 | | | | 01/24/20 | 12:00 | 01/24/20 17:15 |
| EPA 6020B | EPA 3005A | 07/21/20 | | | | 01/27/20 | 10:42 | 01/28/20 14:47 |
| EPA 7470A | EPA 7470A | 02/20/20 | | | | 01/27/20 | 12:21 | 01/28/20 09:42 |
| EPA 8260D | EPA 5030B_MS | 02/06/20 | | | | 01/28/20 | 00:00 | 01/29/20 03:02 |
| Field | NO PREP | 01/23/20 | 13:19 | | | 01/23/20 | 13:05 | 01/23/20 13:05 |
| Field | NO PREP | 01/24/20 | 13:05 | 01/24/20 | 13:05 | 01/23/20 | 13:05 | 01/23/20 13:05 |
| Field | NO PREP | 01/25/20 | 13:05 | | | 01/23/20 | 13:05 | 01/23/20 13:05 |
| SM 2540C-2011 | NO PREP | 01/30/20 | | | | 01/27/20 | 10:49 | 01/28/20 15:34 |

**Client ID: MW-5** **Lab ID: AD00163-02RE1** **Sampled: 01/23/20 13:05** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|---|
| EPA 350.1 | Same | 02/20/20 | 01/28/20 08:40 | 01/28/20 12:06 |
| EPA 6020B | EPA 3005A | 07/21/20 | 01/27/20 10:42 | 01/28/20 15:18 |

**Client ID: MW-6** **Lab ID: AD00163-03** **Sampled: 01/23/20 13:28** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | NA | 01/25/20 | 13:28 | | | 01/24/20 | 12:00 | 01/24/20 17:30 |
| EPA 300.0 | NA | 02/20/20 | | | | 01/24/20 | 12:00 | 01/24/20 17:30 |
| EPA 350.1 | Same | 02/20/20 | | | | 01/28/20 | 08:40 | 01/28/20 11:57 |
| EPA 6020B | EPA 3005A | 07/21/20 | | | | 01/27/20 | 10:42 | 01/28/20 14:49 |
| EPA 7470A | EPA 7470A | 02/20/20 | | | | 01/27/20 | 12:21 | 01/28/20 09:45 |
| EPA 8260D | EPA 5030B_MS | 02/06/20 | | | | 01/28/20 | 00:00 | 01/29/20 03:31 |
| Field | NO PREP | 01/23/20 | 13:42 | | | 01/23/20 | 13:28 | 01/23/20 13:28 |
| Field | NO PREP | 01/24/20 | 13:28 | 01/24/20 | 13:28 | 01/23/20 | 13:28 | 01/23/20 13:28 |
| Field | NO PREP | 01/25/20 | 13:28 | | | 01/23/20 | 13:28 | 01/23/20 13:28 |
| SM 2540C-2011 | NO PREP | 01/30/20 | | | | 01/27/20 | 10:49 | 01/28/20 15:34 |

**Client ID: MW-6** **Lab ID: AD00163-03RE1** **Sampled: 01/23/20 13:28** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | Analysis Date/Time(s) |
|---|---|---|---|---|
| EPA 300.0 | NA | 02/20/20 | 01/27/20 08:31 | 01/27/20 10:06 |

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## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID: MW-7** **Lab ID: AD00163-04** **Sampled: 01/23/20 12:37** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | NA | 01/25/20 | 12:37 | | | 01/24/20 | 12:00 | 01/24/20 17:45 |
| EPA 300.0 | NA | 02/20/20 | | | | 01/24/20 | 12:00 | 01/24/20 17:45 |
| EPA 350.1 | Same | 02/20/20 | | | | 01/28/20 | 08:40 | 01/28/20 11:59 |
| EPA 6020B | EPA 3005A | 07/21/20 | | | | 01/27/20 | 10:42 | 01/28/20 14:51 |
| EPA 7470A | EPA 7470A | 02/20/20 | | | | 01/27/20 | 12:21 | 01/28/20 09:49 |
| EPA 8260D | EPA 5030B_MS | 02/06/20 | | | | 01/28/20 | 00:00 | 01/29/20 04:00 |
| Field | NO PREP | 01/23/20 | 12:51 | | | 01/23/20 | 12:37 | 01/23/20 12:37 |
| Field | NO PREP | 01/24/20 | 12:37 | 01/24/20 | 12:37 | 01/23/20 | 12:37 | 01/23/20 12:37 |
| Field | NO PREP | 01/25/20 | 12:37 | | | 01/23/20 | 12:37 | 01/23/20 12:37 |
| SM 2540C-2011 | NO PREP | 01/30/20 | | | | 01/27/20 | 10:49 | 01/28/20 15:34 |

**Client ID: MW-7** **Lab ID: AD00163-04RE1** **Sampled: 01/23/20 12:37** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|
| EPA 300.0 | NA | 02/20/20 | 01/27/20 | 08:31 | 01/27/20 10:21 |
| EPA 6020B | EPA 3005A | 07/21/20 | 01/27/20 | 10:42 | 01/28/20 15:20 |

**Client ID: MW-8** **Lab ID: AD00163-05** **Sampled: 01/23/20 12:11** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | NA | 01/25/20 | 12:11 | | | 01/24/20 | 17:15 | 01/24/20 18:01 |
| EPA 300.0 | NA | 02/20/20 | | | | 01/24/20 | 17:15 | 01/24/20 18:01 |
| EPA 6020B | EPA 3005A | 07/21/20 | | | | 01/27/20 | 10:42 | 01/28/20 14:53 |
| EPA 7470A | EPA 7470A | 02/20/20 | | | | 01/27/20 | 12:21 | 01/28/20 09:52 |
| EPA 8260D | EPA 5030B_MS | 02/06/20 | | | | 01/28/20 | 00:00 | 01/29/20 04:29 |
| Field | NO PREP | 01/23/20 | 12:25 | | | 01/23/20 | 12:11 | 01/23/20 12:11 |
| Field | NO PREP | 01/24/20 | 12:11 | 01/24/20 | 12:11 | 01/23/20 | 12:11 | 01/23/20 12:11 |
| Field | NO PREP | 01/25/20 | 12:11 | | | 01/23/20 | 12:11 | 01/23/20 12:11 |
| SM 2540C-2011 | NO PREP | 01/30/20 | | | | 01/27/20 | 10:49 | 01/28/20 15:34 |

**Client ID: MW-8** **Lab ID: AD00163-05RE1** **Sampled: 01/23/20 12:11** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|
| EPA 350.1 | Same | 02/20/20 | 01/28/20 | 08:40 | 01/28/20 12:09 |
| EPA 6020B | EPA 3005A | 07/21/20 | 01/27/20 | 10:42 | 01/28/20 15:22 |

**Client ID: MW-9** **Lab ID: AD00163-06** **Sampled: 01/23/20 11:45** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | NA | 01/25/20 | 11:45 | | | 01/24/20 | 12:00 | 01/24/20 18:16 |
| EPA 300.0 | NA | 02/20/20 | | | | 01/24/20 | 12:00 | 01/24/20 18:16 |
| EPA 350.1 | Same | 02/20/20 | | | | 01/28/20 | 08:40 | 01/28/20 12:01 |
| EPA 6020B | EPA 3005A | 07/21/20 | | | | 01/27/20 | 10:42 | 01/28/20 14:58 |
| EPA 7470A | EPA 7470A | 02/20/20 | | | | 01/27/20 | 12:21 | 01/28/20 09:55 |
| EPA 8260D | EPA 5030B_MS | 02/06/20 | | | | 01/28/20 | 00:00 | 01/29/20 04:57 |
| Field | NO PREP | 01/23/20 | 11:59 | | | 01/23/20 | 11:45 | 01/23/20 11:45 |
| Field | NO PREP | 01/24/20 | 11:45 | 01/24/20 | 11:45 | 01/23/20 | 11:45 | 01/23/20 11:45 |
| Field | NO PREP | 01/25/20 | 11:45 | | | 01/23/20 | 11:45 | 01/23/20 11:45 |
| SM 2540C-2011 | NO PREP | 01/30/20 | | | | 01/27/20 | 10:49 | 01/28/20 15:34 |

**Client ID: MW-9** **Lab ID: AD00163-06RE1** **Sampled: 01/23/20 11:45** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|
| EPA 300.0 | NA | 02/20/20 | 01/27/20 | 08:31 | 01/27/20 10:36 |

**Client ID: TRIP BLANK** **Lab ID: AD00163-07** **Sampled: 01/23/20 00:00** **Received: 01/24/20 09:41**

| Parameter | Preparation | Hold Date/Time(s) | Prep Date/Time(s) | | Analysis Date/Time(s) |
|---|---|---|---|---|---|
| EPA 8260D | EPA 5030B_MS | 02/06/20 | 01/28/20 | 00:00 | 01/29/20 05:26 |

# SAMPLE DETECTION SUMMARY

**Client ID: MW-1** **Lab ID: AD00163-01**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Arsenic - Total | 6.15 | I | 5.00 | 10.0 | ug/L | EPA 6020B | |
| Chloride | 15 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Depth to Water | 30.71 | | | | Ft | Field | |
| Dissolved Oxygen | 0.03 | | 0 | 0 | mg/L | Field | |
| pH | 6.36 | | | | pH Units | Field | |
| Sodium - Total | 27.6 | | 0.320 | 1.00 | mg/L | EPA 6020B | |
| Specific Conductance (EC) | 1799 | | 0 | 0 | umhos/cm | Field | |
| Temperature | 24.9 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 1300 | | 10 | 10 | mg/L | SM 2540C-2011 | |
| Turbidity | 0.3 | | 0 | 0 | NTU | Field | |
| Water Elevation | 43.95 | | | | Ft | Field | |

**Client ID: MW-1** **Lab ID: AD00163-01RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Iron - Total | 10300 | | 250 | 500 | ug/L | EPA 6020B | |
| Sulfate | 420 | | 0.66 | 50 | mg/L | EPA 300.0 | |

**Client ID: MW-1** **Lab ID: AD00163-01RE2**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 3.5 | | 0.049 | 0.10 | mg/L | EPA 350.1 | |

**Client ID: MW-5** **Lab ID: AD00163-02**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Chloride | 23 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Depth to Water | 44.03 | | | | Ft | Field | |
| Dissolved Oxygen | 0.06 | | 0 | 0 | mg/L | Field | |
| Nitrate as N | 0.88 | I | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| o-Xylene | 0.85 | I | 0.53 | 1.0 | ug/L | EPA 8260D | |
| pH | 6.14 | | | | pH Units | Field | |
| Sodium - Total | 25.7 | | 0.320 | 1.00 | mg/L | EPA 6020B | |
| Specific Conductance (EC) | 1313 | | 0 | 0 | umhos/cm | Field | |
| Sulfate | 0.73 | I | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Temperature | 31.6 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 670 | | 10 | 10 | mg/L | SM 2540C-2011 | |
| Turbidity | 1 | | 0 | 0 | NTU | Field | |
| Water Elevation | 43.98 | | | | Ft | Field | |
| Xylenes (Total) | 1.5 | I | 1.3 | 2.0 | ug/L | EPA 8260D | |

**Client ID: MW-5** **Lab ID: AD00163-02RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 4.2 | | 0.049 | 0.10 | mg/L | EPA 350.1 | |
| Iron - Total | 10300 | | 250 | 500 | ug/L | EPA 6020B | |

**Client ID: MW-6** **Lab ID: AD00163-03**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.0 | | 0.0098 | 0.020 | mg/L | EPA 350.1 | |
| Arsenic - Total | 15.0 | | 5.00 | 10.0 | ug/L | EPA 6020B | |
| Chloride | 16 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Depth to Water | 33.97 | | | | Ft | Field | |
| Dissolved Oxygen | 0.04 | | 0 | 0 | mg/L | Field | |
| Iron - Total | 8690 | | 25.0 | 50.0 | ug/L | EPA 6020B | |
| Mercury - Total | 0.0396 | I | 0.0230 | 0.200 | ug/L | EPA 7470A | |
| pH | 6.16 | | | | pH Units | Field | |
| Sodium - Total | 26.5 | | 0.320 | 1.00 | mg/L | EPA 6020B | |
| Specific Conductance (EC) | 1457 | | 0 | 0 | umhos/cm | Field | |
| Temperature | 24 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 890 | | 10 | 10 | mg/L | SM 2540C-2011 | |
| Turbidity | 2.6 | | 0 | 0 | NTU | Field | |
| Water Elevation | 44.08 | | | | Ft | Field | |

## SAMPLE DETECTION SUMMARY

**Client ID: MW-6** **Lab ID: AD00163-03RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Sulfate | 150 | | 0.13 | 10 | mg/L | EPA 300.0 | |

**Client ID: MW-7** **Lab ID: AD00163-04**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 0.63 | | 0.0098 | 0.020 | mg/L | EPA 350.1 | |
| Arsenic - Total | 18.3 | | 5.00 | 10.0 | ug/L | EPA 6020B | |
| Chloride | 22 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Chromium - Total | 6.48 | I | 5.00 | 10.0 | ug/L | EPA 6020B | |
| Depth to Water | 44.63 | | | | Ft | Field | |
| Dissolved Oxygen | 0.08 | | 0 | 0 | mg/L | Field | |
| Mercury - Total | 0.170 | I | 0.0230 | 0.200 | ug/L | EPA 7470A | |
| pH | 5.96 | | | | pH Units | Field | |
| Sodium - Total | 34.5 | | 0.320 | 1.00 | mg/L | EPA 6020B | |
| Specific Conductance (EC) | 1699 | | 0 | 0 | umhos/cm | Field | |
| Temperature | 24.7 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 1100 | | 10 | 10 | mg/L | SM 2540C-2011 | |
| Turbidity | 3 | | 0 | 0 | NTU | Field | |
| Water Elevation | 44.04 | | | | Ft | Field | |

**Client ID: MW-7** **Lab ID: AD00163-04RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Iron - Total | 73700 | | 500 | 1000 | ug/L | EPA 6020B | |
| Sulfate | 380 | | 0.33 | 25 | mg/L | EPA 300.0 | |

**Client ID: MW-8** **Lab ID: AD00163-05**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Arsenic - Total | 5.64 | I | 5.00 | 10.0 | ug/L | EPA 6020B | |
| Chloride | 47 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Depth to Water | 27.31 | | | | Ft | Field | |
| Dissolved Oxygen | 0.09 | | 0 | 0 | mg/L | Field | |
| Nitrate as N | 1.1 | | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| o-Xylene | 0.73 | I | 0.53 | 1.0 | ug/L | EPA 8260D | |
| pH | 6.19 | | | | pH Units | Field | |
| Sodium - Total | 56.7 | | 0.320 | 1.00 | mg/L | EPA 6020B | |
| Specific Conductance (EC) | 1567 | | 0 | 0 | umhos/cm | Field | |
| Sulfate | 0.68 | I | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Temperature | 25 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 760 | | 10 | 10 | mg/L | SM 2540C-2011 | |
| Turbidity | 1.5 | | 0 | 0 | NTU | Field | |
| Water Elevation | 43.86 | | | | Ft | Field | |
| Xylenes (Total) | 1.4 | I | 1.3 | 2.0 | ug/L | EPA 8260D | |

**Client ID: MW-8** **Lab ID: AD00163-05RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 16 | | 0.20 | 0.40 | mg/L | EPA 350.1 | |
| Iron - Total | 33400 | | 250 | 500 | ug/L | EPA 6020B | |

**Client ID: MW-9** **Lab ID: AD00163-06**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 0.070 | | 0.0098 | 0.020 | mg/L | EPA 350.1 | |
| Chloride | 18 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Depth to Water | 24.93 | | | | Ft | Field | |
| Dissolved Oxygen | 0.02 | | 0 | 0 | mg/L | Field | |
| Iron - Total | 151 | | 25.0 | 50.0 | ug/L | EPA 6020B | |
| Mercury - Total | 0.0612 | I | 0.0230 | 0.200 | ug/L | EPA 7470A | |
| pH | 6.57 | | | | pH Units | Field | |
| Sodium - Total | 13.5 | | 0.320 | 1.00 | mg/L | EPA 6020B | |
| Specific Conductance (EC) | 1057 | | 0 | 0 | umhos/cm | Field | |
| Temperature | 23.1 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 670 | | 10 | 10 | mg/L | SM 2540C-2011 | |
| Turbidity | 1 | | 0 | 0 | NTU | Field | |
| Water Elevation | 43.71 | | | | Ft | Field | |

## SAMPLE DETECTION SUMMARY

**Client ID:** MW-9 **Lab ID:** AD00163-06RE1

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Sulfate | 130 | | 0.13 | 10 | mg/L | EPA 300.0 | |

## ANALYTICAL RESULTS

**Description:** MW-1 **Lab Sample ID:** AD00163-01 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 11:16 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Volatile Organic Compounds by GCMS

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane [71-55-6]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | QL-02, QV-01 |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 02:34 | S1R | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *52* | *1* | *50.0* | *105 %* | *41-142* | *0A28041* | *EPA 8260D* | *01/29/20 02:34* | *S1R* | |
| *Dibromofluoromethane* | *47* | *1* | *50.0* | *93 %* | *53-146* | *0A28041* | *EPA 8260D* | *01/29/20 02:34* | *S1R* | |
| *Toluene-d8* | *51* | *1* | *50.0* | *102 %* | *41-146* | *0A28041* | *EPA 8260D* | *01/29/20 02:34* | *S1R* | |

# ANALYTICAL RESULTS

**Description:** MW-1 **Lab Sample ID:** AD00163-01 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 11:16 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Metals by EPA 6000/7000 Series Methods

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury [7439-97-6]^ | 0.0230 | U | ug/L | 1 | 0.0230 | 0.200 | 0A27031 | EPA 7470A | 01/28/20 09:30 | SSE | |

## Metals (total recoverable) by EPA 6000/7000 Series Methods

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5] | 50.0 | U | ug/L | 1 | 50.0 | 100 | 0A27010 | EPA 6020B | 01/28/20 14:22 | JMA | |
| **Arsenic [7440-38-2]** | **6.15** | I | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:22 | JMA | |
| Cadmium [7440-43-9] | 0.500 | U | ug/L | 1 | 0.500 | 3.00 | 0A27010 | EPA 6020B | 01/28/20 14:22 | JMA | |
| Chromium [7440-47-3] | 5.00 | U | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:22 | JMA | |
| **Iron [7439-89-6]** | **10300** | | ug/L | 10 | 250 | 500 | 0A27010 | EPA 6020B | 01/28/20 14:34 | JMA | |
| Lead [7439-92-1] | 2.50 | U | ug/L | 1 | 2.50 | 5.00 | 0A27010 | EPA 6020B | 01/28/20 14:22 | JMA | |
| **Sodium [7440-23-5]** | **27.6** | | mg/L | 1 | 0.320 | 1.00 | 0A27010 | EPA 6020B | 01/28/20 14:22 | JMA | |

## Classical Chemistry Parameters

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N [7664-41-7]^** | **3.5** | | mg/L | 5 | 0.049 | 0.10 | 0A28012 | EPA 350.1 | 01/28/20 12:16 | CSB | |
| **Chloride [16887-00-6]^** | **15** | | mg/L | 1 | 0.29 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 17:00 | RSA | |
| Nitrate as N [14797-55-8]^ | 0.052 | U | mg/L | 1 | 0.052 | 1.0 | 0A24018 | EPA 300.0 | 01/24/20 17:00 | RSA | |
| **Sulfate [14808-79-8]^** | **420** | | mg/L | 10 | 0.66 | 50 | 0A27009 | EPA 300.0 | 01/27/20 09:51 | DFC | |
| **Total Dissolved Solids^** | **1300** | | mg/L | 1 | 10 | 10 | 0A27006 | SM 2540C-2011 | 01/28/20 15:34 | AMP | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water** | **30.71** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 11:16 | CSP | |
| **Dissolved Oxygen** | **0.03** | | mg/L | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:16 | CSP | |
| **pH** | **6.36** | | pH Units | 1 | | | 0A27014 | Field | 01/23/20 11:16 | CSP | |
| **Specific Conductance (EC)** | **1799** | | umhos/cm | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:16 | CSP | |
| **Temperature** | **24.9** | | °C | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:16 | CSP | |
| **Turbidity** | **0.3** | | NTU | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:16 | CSP | |
| **Water Elevation** | **43.95** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 11:16 | CSP | |

## ANALYTICAL RESULTS

**Description:** MW-5 **Lab Sample ID:** AD00163-02 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 13:05 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Volatile Organic Compounds by GCMS

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane [71-55-6]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| **o-Xylene [95-47-6]^** | **0.85** | I | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | QL-02, QV-01 |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |
| **Xylenes (Total) [1330-20-7]^** | **1.5** | I | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 03:02 | S1R | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *51* | *1* | *50.0* | *102 %* | *41-142* | *0A28041* | *EPA 8260D* | *01/29/20 03:02* | *S1R* | |
| *Dibromofluoromethane* | *46* | *1* | *50.0* | *91 %* | *53-146* | *0A28041* | *EPA 8260D* | *01/29/20 03:02* | *S1R* | |
| *Toluene-d8* | *50* | *1* | *50.0* | *100 %* | *41-146* | *0A28041* | *EPA 8260D* | *01/29/20 03:02* | *S1R* | |

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# ANALYTICAL RESULTS

**Description:** MW-5 **Lab Sample ID:** AD00163-02 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 13:05 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Metals by EPA 6000/7000 Series Methods

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury [7439-97-6]^ | 0.0230 | U | ug/L | 1 | 0.0230 | 0.200 | 0A27031 | EPA 7470A | 01/28/20 09:42 | SSE | |

## Metals (total recoverable) by EPA 6000/7000 Series Methods

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5] | 50.0 | U | ug/L | 1 | 50.0 | 100 | 0A27010 | EPA 6020B | 01/28/20 14:47 | JMA | |
| Arsenic [7440-38-2] | 5.00 | U | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:47 | JMA | |
| Cadmium [7440-43-9] | 0.500 | U | ug/L | 1 | 0.500 | 3.00 | 0A27010 | EPA 6020B | 01/28/20 14:47 | JMA | |
| Chromium [7440-47-3] | 5.00 | U | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:47 | JMA | |
| **Iron [7439-89-6]** | **10300** | | ug/L | 10 | 250 | 500 | 0A27010 | EPA 6020B | 01/28/20 15:18 | JMA | |
| Lead [7439-92-1] | 2.50 | U | ug/L | 1 | 2.50 | 5.00 | 0A27010 | EPA 6020B | 01/28/20 14:47 | JMA | |
| **Sodium [7440-23-5]** | **25.7** | | mg/L | 1 | 0.320 | 1.00 | 0A27010 | EPA 6020B | 01/28/20 14:47 | JMA | |

## Classical Chemistry Parameters

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N [7664-41-7]^** | **4.2** | | mg/L | 5 | 0.049 | 0.10 | 0A28012 | EPA 350.1 | 01/28/20 12:06 | CSB | |
| **Chloride [16887-00-6]^** | **23** | | mg/L | 1 | 0.29 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 17:15 | RSA | |
| **Nitrate as N [14797-55-8]^** | **0.88** | I | mg/L | 1 | 0.052 | 1.0 | 0A24018 | EPA 300.0 | 01/24/20 17:15 | RSA | |
| **Sulfate [14808-79-8]^** | **0.73** | I | mg/L | 1 | 0.07 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 17:15 | RSA | |
| **Total Dissolved Solids^** | **670** | | mg/L | 1 | 10 | 10 | 0A27006 | SM 2540C-2011 | 01/28/20 15:34 | AMP | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water** | **44.03** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 13:05 | CSP | |
| **Dissolved Oxygen** | **0.06** | | mg/L | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:05 | CSP | |
| **pH** | **6.14** | | pH Units | 1 | | | 0A27014 | Field | 01/23/20 13:05 | CSP | |
| **Specific Conductance (EC)** | **1313** | | umhos/cm | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:05 | CSP | |
| **Temperature** | **31.6** | | °C | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:05 | CSP | |
| **Turbidity** | **1** | | NTU | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:05 | CSP | |
| **Water Elevation** | **43.98** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 13:05 | CSP | |

## ANALYTICAL RESULTS

**Description:** MW-6 **Lab Sample ID:** AD00163-03 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 13:28 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Volatile Organic Compounds by GCMS

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane [71-55-6]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | QL-02, QV-01 |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 03:31 | S1R | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *50* | *1* | *50.0* | *99 %* | *41-142* | *0A28041* | *EPA 8260D* | *01/29/20 03:31* | *S1R* | |
| *Dibromofluoromethane* | *45* | *1* | *50.0* | *91 %* | *53-146* | *0A28041* | *EPA 8260D* | *01/29/20 03:31* | *S1R* | |
| *Toluene-d8* | *50* | *1* | *50.0* | *101 %* | *41-146* | *0A28041* | *EPA 8260D* | *01/29/20 03:31* | *S1R* | |

# ANALYTICAL RESULTS

**Description:** MW-6 **Lab Sample ID:** AD00163-03 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 13:28 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Metals by EPA 6000/7000 Series Methods

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mercury [7439-97-6]^** | **0.0396** | I | ug/L | 1 | 0.0230 | 0.200 | 0A27031 | EPA 7470A | 01/28/20 09:45 | SSE | |

## Metals (total recoverable) by EPA 6000/7000 Series Methods

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5] | 50.0 | U | ug/L | 1 | 50.0 | 100 | 0A27010 | EPA 6020B | 01/28/20 14:49 | JMA | |
| **Arsenic [7440-38-2]** | **15.0** | | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:49 | JMA | |
| Cadmium [7440-43-9] | 0.500 | U | ug/L | 1 | 0.500 | 3.00 | 0A27010 | EPA 6020B | 01/28/20 14:49 | JMA | |
| Chromium [7440-47-3] | 5.00 | U | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:49 | JMA | |
| **Iron [7439-89-6]** | **8690** | | ug/L | 1 | 25.0 | 50.0 | 0A27010 | EPA 6020B | 01/28/20 14:49 | JMA | |
| Lead [7439-92-1] | 2.50 | U | ug/L | 1 | 2.50 | 5.00 | 0A27010 | EPA 6020B | 01/28/20 14:49 | JMA | |
| **Sodium [7440-23-5]** | **26.5** | | mg/L | 1 | 0.320 | 1.00 | 0A27010 | EPA 6020B | 01/28/20 14:49 | JMA | |

## Classical Chemistry Parameters

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N [7664-41-7]^** | **2.0** | | mg/L | 1 | 0.0098 | 0.020 | 0A28012 | EPA 350.1 | 01/28/20 11:57 | CSB | |
| **Chloride [16887-00-6]^** | **16** | | mg/L | 1 | 0.29 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 17:30 | RSA | |
| Nitrate as N [14797-55-8]^ | 0.052 | U | mg/L | 1 | 0.052 | 1.0 | 0A24018 | EPA 300.0 | 01/24/20 17:30 | RSA | |
| **Sulfate [14808-79-8]^** | **150** | | mg/L | 2 | 0.13 | 10 | 0A27009 | EPA 300.0 | 01/27/20 10:06 | DFC | |
| **Total Dissolved Solids^** | **890** | | mg/L | 1 | 10 | 10 | 0A27006 | SM 2540C-2011 | 01/28/20 15:34 | AMP | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water** | **33.97** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 13:28 | CSP | |
| **Dissolved Oxygen** | **0.04** | | mg/L | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:28 | CSP | |
| **pH** | **6.16** | | pH Units | 1 | | | 0A27014 | Field | 01/23/20 13:28 | CSP | |
| **Specific Conductance (EC)** | **1457** | | umhos/cm | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:28 | CSP | |
| **Temperature** | **24** | | °C | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:28 | CSP | |
| **Turbidity** | **2.6** | | NTU | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 13:28 | CSP | |
| **Water Elevation** | **44.08** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 13:28 | CSP | |

## ANALYTICAL RESULTS

**Description:** MW-7 **Lab Sample ID:** AD00163-04 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 12:37 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Volatile Organic Compounds by GCMS

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane [71-55-6]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | QL-02, QV-01 |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 04:00 | S1R | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *50* | *1* | *50.0* | *100 %* | *41-142* | *0A28041* | *EPA 8260D* | *01/29/20 04:00* | *S1R* | |
| *Dibromofluoromethane* | *45* | *1* | *50.0* | *91 %* | *53-146* | *0A28041* | *EPA 8260D* | *01/29/20 04:00* | *S1R* | |
| *Toluene-d8* | *50* | *1* | *50.0* | *100 %* | *41-146* | *0A28041* | *EPA 8260D* | *01/29/20 04:00* | *S1R* | |

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## ANALYTICAL RESULTS

**Description:** MW-7 **Lab Sample ID:** AD00163-04 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 12:37 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

### Metals by EPA 6000/7000 Series Methods

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mercury [7439-97-6]^** | **0.170** | I | ug/L | 1 | 0.0230 | 0.200 | 0A27031 | EPA 7470A | 01/28/20 09:49 | SSE | |

### Metals (total recoverable) by EPA 6000/7000 Series Methods

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5] | 50.0 | U | ug/L | 1 | 50.0 | 100 | 0A27010 | EPA 6020B | 01/28/20 14:51 | JMA | |
| **Arsenic [7440-38-2]** | **18.3** | | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:51 | JMA | |
| Cadmium [7440-43-9] | 0.500 | U | ug/L | 1 | 0.500 | 3.00 | 0A27010 | EPA 6020B | 01/28/20 14:51 | JMA | |
| **Chromium [7440-47-3]** | **6.48** | I | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:51 | JMA | |
| **Iron [7439-89-6]** | **73700** | | ug/L | 20 | 500 | 1000 | 0A27010 | EPA 6020B | 01/28/20 15:20 | JMA | |
| Lead [7439-92-1] | 2.50 | U | ug/L | 1 | 2.50 | 5.00 | 0A27010 | EPA 6020B | 01/28/20 14:51 | JMA | |
| **Sodium [7440-23-5]** | **34.5** | | mg/L | 1 | 0.320 | 1.00 | 0A27010 | EPA 6020B | 01/28/20 14:51 | JMA | |

### Classical Chemistry Parameters

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N [7664-41-7]^** | **0.63** | | mg/L | 1 | 0.0098 | 0.020 | 0A28012 | EPA 350.1 | 01/28/20 11:59 | CSB | |
| **Chloride [16887-00-6]^** | **22** | | mg/L | 1 | 0.29 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 17:45 | RSA | |
| Nitrate as N [14797-55-8]^ | 0.052 | U | mg/L | 1 | 0.052 | 1.0 | 0A24018 | EPA 300.0 | 01/24/20 17:45 | RSA | |
| **Sulfate [14808-79-8]^** | **380** | | mg/L | 5 | 0.33 | 25 | 0A27009 | EPA 300.0 | 01/27/20 10:21 | DFC | |
| **Total Dissolved Solids^** | **1100** | | mg/L | 1 | 10 | 10 | 0A27006 | SM 2540C-2011 | 01/28/20 15:34 | AMP | |

### Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water** | **44.63** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 12:37 | CSP | |
| **Dissolved Oxygen** | **0.08** | | mg/L | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:37 | CSP | |
| **pH** | **5.96** | | pH Units | 1 | | | 0A27014 | Field | 01/23/20 12:37 | CSP | |
| **Specific Conductance (EC)** | **1699** | | umhos/cm | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:37 | CSP | |
| **Temperature** | **24.7** | | °C | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:37 | CSP | |
| **Turbidity** | **3** | | NTU | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:37 | CSP | |
| **Water Elevation** | **44.04** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 12:37 | CSP | |

## ANALYTICAL RESULTS

**Description:** MW-8 **Lab Sample ID:** AD00163-05 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 12:11 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Volatile Organic Compounds by GCMS

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane [71-55-6]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| **o-Xylene [95-47-6]^** | **0.73** | I | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | QL-02, QV-01 |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |
| **Xylenes (Total) [1330-20-7]^** | **1.4** | I | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 04:29 | S1R | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *50* | *1* | *50.0* | *100 %* | *41-142* | *0A28041* | *EPA 8260D* | *01/29/20 04:29* | *S1R* | |
| *Dibromofluoromethane* | *46* | *1* | *50.0* | *91 %* | *53-146* | *0A28041* | *EPA 8260D* | *01/29/20 04:29* | *S1R* | |
| *Toluene-d8* | *50* | *1* | *50.0* | *99 %* | *41-146* | *0A28041* | *EPA 8260D* | *01/29/20 04:29* | *S1R* | |

# ANALYTICAL RESULTS

**Description:** MW-8 **Lab Sample ID:** AD00163-05 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 12:11 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Metals by EPA 6000/7000 Series Methods

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury [7439-97-6]^ | 0.0230 | U | ug/L | 1 | 0.0230 | 0.200 | 0A27031 | EPA 7470A | 01/28/20 09:52 | SSE | |

## Metals (total recoverable) by EPA 6000/7000 Series Methods

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5] | 50.0 | U | ug/L | 1 | 50.0 | 100 | 0A27010 | EPA 6020B | 01/28/20 14:53 | JMA | |
| **Arsenic [7440-38-2]** | **5.64** | I | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:53 | JMA | |
| Cadmium [7440-43-9] | 0.500 | U | ug/L | 1 | 0.500 | 3.00 | 0A27010 | EPA 6020B | 01/28/20 14:53 | JMA | |
| Chromium [7440-47-3] | 5.00 | U | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:53 | JMA | |
| **Iron [7439-89-6]** | **33400** | | ug/L | 10 | 250 | 500 | 0A27010 | EPA 6020B | 01/28/20 15:22 | JMA | |
| Lead [7439-92-1] | 2.50 | U | ug/L | 1 | 2.50 | 5.00 | 0A27010 | EPA 6020B | 01/28/20 14:53 | JMA | |
| **Sodium [7440-23-5]** | **56.7** | | mg/L | 1 | 0.320 | 1.00 | 0A27010 | EPA 6020B | 01/28/20 14:53 | JMA | |

## Classical Chemistry Parameters

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N [7664-41-7]^** | **16** | | mg/L | 20 | 0.20 | 0.40 | 0A28012 | EPA 350.1 | 01/28/20 12:09 | CSB | |
| **Chloride [16887-00-6]^** | **47** | | mg/L | 1 | 0.29 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 18:01 | RSA | |
| **Nitrate as N [14797-55-8]^** | **1.1** | | mg/L | 1 | 0.052 | 1.0 | 0A24018 | EPA 300.0 | 01/24/20 18:01 | RSA | |
| **Sulfate [14808-79-8]^** | **0.68** | I | mg/L | 1 | 0.07 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 18:01 | RSA | |
| **Total Dissolved Solids^** | **760** | | mg/L | 1 | 10 | 10 | 0A27006 | SM 2540C-2011 | 01/28/20 15:34 | AMP | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water** | **27.31** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 12:11 | CSP | |
| **Dissolved Oxygen** | **0.09** | | mg/L | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:11 | CSP | |
| **pH** | **6.19** | | pH Units | 1 | | | 0A27014 | Field | 01/23/20 12:11 | CSP | |
| **Specific Conductance (EC)** | **1567** | | umhos/cm | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:11 | CSP | |
| **Temperature** | **25** | | °C | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:11 | CSP | |
| **Turbidity** | **1.5** | | NTU | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 12:11 | CSP | |
| **Water Elevation** | **43.86** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 12:11 | CSP | |

## ANALYTICAL RESULTS

**Description:** MW-9 **Lab Sample ID:** AD00163-06 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 11:45 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

## Volatile Organic Compounds by GCMS

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane [71-55-6]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | QL-02, QV-01 |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 04:57 | S1R | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *52* | *1* | *50.0* | *103 %* | *41-142* | *0A28041* | *EPA 8260D* | *01/29/20 04:57* | *S1R* | |
| *Dibromofluoromethane* | *47* | *1* | *50.0* | *94 %* | *53-146* | *0A28041* | *EPA 8260D* | *01/29/20 04:57* | *S1R* | |
| *Toluene-d8* | *52* | *1* | *50.0* | *104 %* | *41-146* | *0A28041* | *EPA 8260D* | *01/29/20 04:57* | *S1R* | |

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## ANALYTICAL RESULTS

**Description:** MW-9 **Lab Sample ID:** AD00163-06 **Received:** 01/24/20 09:41

**Matrix:** Ground Water **Sampled:** 01/23/20 11:45 **Work Order:** AD00163

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING **Sampled By:** Chris Monaco

### Metals by EPA 6000/7000 Series Methods

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mercury [7439-97-6]^** | **0.0612** | I | ug/L | 1 | 0.0230 | 0.200 | 0A27031 | EPA 7470A | 01/28/20 09:55 | SSE | |

### Metals (total recoverable) by EPA 6000/7000 Series Methods

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5] | 50.0 | U | ug/L | 1 | 50.0 | 100 | 0A27010 | EPA 6020B | 01/28/20 14:58 | JMA | |
| Arsenic [7440-38-2] | 5.00 | U | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:58 | JMA | |
| Cadmium [7440-43-9] | 0.500 | U | ug/L | 1 | 0.500 | 3.00 | 0A27010 | EPA 6020B | 01/28/20 14:58 | JMA | |
| Chromium [7440-47-3] | 5.00 | U | ug/L | 1 | 5.00 | 10.0 | 0A27010 | EPA 6020B | 01/28/20 14:58 | JMA | |
| **Iron [7439-89-6]** | **151** | | ug/L | 1 | 25.0 | 50.0 | 0A27010 | EPA 6020B | 01/28/20 14:58 | JMA | |
| Lead [7439-92-1] | 2.50 | U | ug/L | 1 | 2.50 | 5.00 | 0A27010 | EPA 6020B | 01/28/20 14:58 | JMA | |
| **Sodium [7440-23-5]** | **13.5** | | mg/L | 1 | 0.320 | 1.00 | 0A27010 | EPA 6020B | 01/28/20 14:58 | JMA | |

### Classical Chemistry Parameters

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ammonia as N [7664-41-7]^** | **0.070** | | mg/L | 1 | 0.0098 | 0.020 | 0A28012 | EPA 350.1 | 01/28/20 12:01 | CSB | |
| **Chloride [16887-00-6]^** | **18** | | mg/L | 1 | 0.29 | 5.0 | 0A24018 | EPA 300.0 | 01/24/20 18:16 | RSA | |
| Nitrate as N [14797-55-8]^ | 0.052 | U | mg/L | 1 | 0.052 | 1.0 | 0A24018 | EPA 300.0 | 01/24/20 18:16 | RSA | |
| **Sulfate [14808-79-8]^** | **130** | | mg/L | 2 | 0.13 | 10 | 0A27009 | EPA 300.0 | 01/27/20 10:36 | DFC | |
| **Total Dissolved Solids^** | **670** | | mg/L | 1 | 10 | 10 | 0A27006 | SM 2540C-2011 | 01/28/20 15:34 | AMP | |

### Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water** | **24.93** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 11:45 | CSP | |
| **Dissolved Oxygen** | **0.02** | | mg/L | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:45 | CSP | |
| **pH** | **6.57** | | pH Units | 1 | | | 0A27014 | Field | 01/23/20 11:45 | CSP | |
| **Specific Conductance (EC)** | **1057** | | umhos/cm | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:45 | CSP | |
| **Temperature** | **23.1** | | °C | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:45 | CSP | |
| **Turbidity** | **1** | | NTU | 1 | 0 | 0 | 0A27014 | Field | 01/23/20 11:45 | CSP | |
| **Water Elevation** | **43.71** | | Ft | 1 | | | 0A27014 | Field | 01/23/20 11:45 | CSP | |

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## ANALYTICAL RESULTS

**Description:** TRIP BLANK
**Matrix:** Water
**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING

**Lab Sample ID:** AD00163-07
**Sampled:** 01/23/20 00:00
**Sampled By:** ENCO

**Received:** 01/24/20 09:41
**Work Order:** AD00163

## Volatile Organic Compounds by GCMS

*^ - ENCO Orlando certified analyte [NELAC E83182]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane [71-55-6]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | QL-02, QV-01 |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 0A28041 | EPA 8260D | 01/29/20 05:26 | S1R | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *50* | *1* | *50.0* | *100 %* | *41-142* | *0A28041* | *EPA 8260D* | *01/29/20 05:26* | *S1R* | |
| *Dibromofluoromethane* | *45* | *1* | *50.0* | *90 %* | *53-146* | *0A28041* | *EPA 8260D* | *01/29/20 05:26* | *S1R* | |
| *Toluene-d8* | *50* | *1* | *50.0* | *100 %* | *41-146* | *0A28041* | *EPA 8260D* | *01/29/20 05:26* | *S1R* | |

# QUALITY CONTROL DATA

## Volatile Organic Compounds by GCMS - Quality Control

### *Batch 0A28041 - EPA 5030B_MS*

**Blank (0A28041-BLK1)** Prepared: 01/28/2020 00:00 Analyzed: 01/28/2020 22:15

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 0.80 | U | 1.0 | ug/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.54 | U | 1.0 | ug/L | | | | | | | |
| 1,1,2-Trichloroethane | 0.76 | U | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethane | 0.62 | U | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethene | 0.94 | U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichlorobenzene | 0.73 | U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloroethane | 0.63 | U | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloropropane | 0.80 | U | 1.0 | ug/L | | | | | | | |
| 1,3-Dichlorobenzene | 0.77 | U | 1.0 | ug/L | | | | | | | |
| 1,4-Dichlorobenzene | 0.76 | U | 1.0 | ug/L | | | | | | | |
| 2-Chloroethyl Vinyl Ether | 1.9 | U | 5.0 | ug/L | | | | | | | |
| Benzene | 0.71 | U | 1.0 | ug/L | | | | | | | |
| Bromodichloromethane | 0.52 | U | 1.0 | ug/L | | | | | | | |
| Bromoform | 0.75 | U | 1.0 | ug/L | | | | | | | |
| Bromomethane | 0.95 | U | 1.0 | ug/L | | | | | | | |
| Carbon tetrachloride | 0.94 | U | 1.0 | ug/L | | | | | | | |
| Chlorobenzene | 0.72 | U | 1.0 | ug/L | | | | | | | |
| Chloroethane | 0.98 | U | 1.0 | ug/L | | | | | | | |
| Chloroform | 0.80 | U | 1.0 | ug/L | | | | | | | |
| Chloromethane | 0.82 | U | 1.0 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | 0.53 | U | 1.0 | ug/L | | | | | | | |
| cis-1,3-Dichloropropene | 0.59 | U | 1.0 | ug/L | | | | | | | |
| Dibromochloromethane | 0.44 | U | 1.0 | ug/L | | | | | | | |
| Dichlorodifluoromethane | 0.74 | U | 1.0 | ug/L | | | | | | | |
| Ethylbenzene | 0.69 | U | 1.0 | ug/L | | | | | | | |
| m,p-Xylenes | 1.3 | U | 2.0 | ug/L | | | | | | | |
| Methylene chloride | 2.0 | U | 5.0 | ug/L | | | | | | | |
| Methyl-tert-Butyl Ether | 0.60 | U | 1.0 | ug/L | | | | | | | |
| o-Xylene | 0.53 | U | 1.0 | ug/L | | | | | | | |
| Tetrachloroethene | 0.76 | U | 1.0 | ug/L | | | | | | | |
| Toluene | 0.72 | U | 1.0 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | 0.73 | U | 1.0 | ug/L | | | | | | | |
| trans-1,3-Dichloropropene | 0.73 | U | 1.0 | ug/L | | | | | | | |
| Trichloroethene | 0.89 | U | 1.0 | ug/L | | | | | | | |
| Trichlorofluoromethane | 0.94 | U | 1.0 | ug/L | | | | | | | |
| Vinyl chloride | 0.71 | U | 1.0 | ug/L | | | | | | | |
| Xylenes (Total) | 1.3 | U | 2.0 | ug/L | | | | | | | |
| *4-Bromofluorobenzene* | *50* | | | *ug/L* | *50.0* | | *100* | *41-142* | | | |
| *Dibromofluoromethane* | *46* | | | *ug/L* | *50.0* | | *92* | *53-146* | | | |
| *Toluene-d8* | *51* | | | *ug/L* | *50.0* | | *102* | *41-146* | | | |

**LCS (0A28041-BS1)** Prepared: 01/28/2020 00:00 Analyzed: 01/28/2020 20:20

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 18 | | 1.0 | ug/L | 20.0 | | 91 | 47-139 | | | |
| Benzene | 19 | | 1.0 | ug/L | 20.0 | | 97 | 56-136 | | | |
| Chlorobenzene | 21 | | 1.0 | ug/L | 20.0 | | 103 | 51-139 | | | |
| Toluene | 20 | | 1.0 | ug/L | 20.0 | | 99 | 64-131 | | | |

# QUALITY CONTROL DATA

## Volatile Organic Compounds by GCMS - Quality Control

### *Batch 0A28041 - EPA 5030B_MS - Continued*

**LCS (0A28041-BS1) Continued** Prepared: 01/28/2020 00:00 Analyzed: 01/28/2020 20:20

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 21 | | 1.0 | ug/L | 20.0 | | 103 | 62-135 | | | |
| *4-Bromofluorobenzene* | *51* | | | *ug/L* | *50.0* | | *102* | *41-142* | | | |
| *Dibromofluoromethane* | *45* | | | *ug/L* | *50.0* | | *90* | *53-146* | | | |
| *Toluene-d8* | *50* | | | *ug/L* | *50.0* | | *100* | *41-146* | | | |

**Matrix Spike (0A28041-MS1)** Prepared: 01/28/2020 00:00 Analyzed: 01/28/2020 20:48

**Source: AD00155-02**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 21 | | 1.0 | ug/L | 20.0 | 0.94 U | 104 | 47-139 | | | |
| Benzene | 22 | | 1.0 | ug/L | 20.0 | 0.71 U | 109 | 56-136 | | | |
| Chlorobenzene | 23 | | 1.0 | ug/L | 20.0 | 0.72 U | 113 | 51-139 | | | |
| Toluene | 22 | | 1.0 | ug/L | 20.0 | 0.72 U | 110 | 64-131 | | | |
| Trichloroethene | 23 | | 1.0 | ug/L | 20.0 | 0.89 U | 114 | 62-135 | | | |
| *4-Bromofluorobenzene* | *52* | | | *ug/L* | *50.0* | | *103* | *41-142* | | | |
| *Dibromofluoromethane* | *45* | | | *ug/L* | *50.0* | | *91* | *53-146* | | | |
| *Toluene-d8* | *51* | | | *ug/L* | *50.0* | | *103* | *41-146* | | | |

**Matrix Spike Dup (0A28041-MSD1)** Prepared: 01/28/2020 00:00 Analyzed: 01/28/2020 21:17

**Source: AD00155-02**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 21 | | 1.0 | ug/L | 20.0 | 0.94 U | 103 | 47-139 | 1 | 16 | |
| Benzene | 21 | | 1.0 | ug/L | 20.0 | 0.71 U | 107 | 56-136 | 2 | 14 | |
| Chlorobenzene | 23 | | 1.0 | ug/L | 20.0 | 0.72 U | 114 | 51-139 | 0.5 | 13 | |
| Toluene | 22 | | 1.0 | ug/L | 20.0 | 0.72 U | 111 | 64-131 | 0.2 | 16 | |
| Trichloroethene | 23 | | 1.0 | ug/L | 20.0 | 0.89 U | 113 | 62-135 | 0.6 | 20 | |
| *4-Bromofluorobenzene* | *51* | | | *ug/L* | *50.0* | | *102* | *41-142* | | | |
| *Dibromofluoromethane* | *45* | | | *ug/L* | *50.0* | | *90* | *53-146* | | | |
| *Toluene-d8* | *51* | | | *ug/L* | *50.0* | | *102* | *41-146* | | | |

## Metals by EPA 6000/7000 Series Methods - Quality Control

### *Batch 0A27031 - EPA 7470A*

**Blank (0A27031-BLK1)** Prepared: 01/27/2020 12:21 Analyzed: 01/28/2020 09:06

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0230 | U | 0.200 | ug/L | | | | | | | |

**Blank (0A27031-BLK2)** Prepared: 01/27/2020 12:21 Analyzed: 01/28/2020 10:34

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0230 | U | 0.200 | ug/L | | | | | | | |

**LCS (0A27031-BS1)** Prepared: 01/27/2020 12:21 Analyzed: 01/28/2020 09:09

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.98 | | 0.200 | ug/L | 5.00 | | 100 | 80-120 | | | |

# QUALITY CONTROL DATA

## Metals by EPA 6000/7000 Series Methods - Quality Control

### *Batch 0A27031 - EPA 7470A - Continued*

**LCS (0A27031-BS2)** Prepared: 01/27/2020 12:21 Analyzed: 01/28/2020 10:37

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.83 | | 0.200 | ug/L | 5.00 | | 97 | 80-120 | | | |

**Matrix Spike (0A27031-MS1)** Prepared: 01/27/2020 12:21 Analyzed: 01/28/2020 09:15

**Source: AD00155-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 5.28 | | 0.200 | ug/L | 5.00 | 0.0230 U | 106 | 75-125 | | | |

**Matrix Spike Dup (0A27031-MSD1)** Prepared: 01/27/2020 12:21 Analyzed: 01/28/2020 09:18

**Source: AD00155-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 5.39 | | 0.200 | ug/L | 5.00 | 0.0230 U | 108 | 75-125 | 2 | 20 | |

## Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

### *Batch 0A27010 - EPA 3005A*

**Blank (0A27010-BLK1)** Prepared: 01/27/2020 10:42 Analyzed: 01/28/2020 14:16

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 50.0 | U | 100 | ug/L | | | | | | | |
| Arsenic | 5.00 | U | 10.0 | ug/L | | | | | | | |
| Cadmium | 0.500 | U | 3.00 | ug/L | | | | | | | |
| Chromium | 5.00 | U | 10.0 | ug/L | | | | | | | |
| Iron | 25.0 | U | 50.0 | ug/L | | | | | | | |
| Lead | 2.50 | U | 5.00 | ug/L | | | | | | | |
| Sodium | 0.500 | U | 1.00 | mg/L | | | | | | | |

**Blank (0A27010-BLK2)** Prepared: 01/27/2020 10:42 Analyzed: 01/28/2020 14:18

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5.00 | U | 10.0 | ug/L | | | | | | | |
| Arsenic | 0.500 | U | 1.00 | ug/L | | | | | | | |
| Cadmium | 0.0500 | U | 0.300 | ug/L | | | | | | | |
| Chromium | 0.500 | U | 1.00 | ug/L | | | | | | | |
| Iron | 2.50 | U | 5.00 | ug/L | | | | | | | |
| Lead | 0.250 | U | 0.500 | ug/L | | | | | | | |
| Sodium | 0.0500 | U | 0.100 | mg/L | | | | | | | |

**LCS (0A27010-BS1)** Prepared: 01/27/2020 10:42 Analyzed: 01/28/2020 14:20

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1030 | | 100 | ug/L | 1000 | | 103 | 80-120 | | | |
| Arsenic | 483 | | 10.0 | ug/L | 500 | | 97 | 80-120 | | | |
| Cadmium | 49.7 | | 3.00 | ug/L | 50.0 | | 99 | 80-120 | | | |
| Chromium | 521 | | 10.0 | ug/L | 500 | | 104 | 80-120 | | | |
| Iron | 1010 | | 50.0 | ug/L | 1000 | | 101 | 80-120 | | | |
| Lead | 504 | | 5.00 | ug/L | 500 | | 101 | 80-120 | | | |
| Sodium | 24.9 | | 1.00 | mg/L | 25.0 | | 99 | 80-120 | | | |

# QUALITY CONTROL DATA

## Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

### *Batch 0A27010 - EPA 3005A - Continued*

**Matrix Spike (0A27010-MS1)** Prepared: 01/27/2020 10:42 Analyzed: 01/28/2020 14:24

**Source: AD00163-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1010 | | 100 | ug/L | 1000 | 50.0 U | 101 | 75-125 | | | |
| Arsenic | 504 | | 10.0 | ug/L | 500 | 6.15 | 100 | 75-125 | | | |
| Cadmium | 49.5 | | 3.00 | ug/L | 50.0 | 0.500 U | 99 | 75-125 | | | |
| Chromium | 521 | | 10.0 | ug/L | 500 | 5.00 U | 104 | 75-125 | | | |
| Iron | 11700 | L | 50.0 | ug/L | 1000 | 10700 | 100 | 75-125 | | | |
| Lead | 492 | | 5.00 | ug/L | 500 | 2.50 U | 98 | 75-125 | | | |
| Sodium | 54.5 | | 1.00 | mg/L | 25.0 | 27.6 | 108 | 75-125 | | | |

**Matrix Spike Dup (0A27010-MSD1)** Prepared: 01/27/2020 10:42 Analyzed: 01/28/2020 14:26

**Source: AD00163-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1030 | | 100 | ug/L | 1000 | 50.0 U | 103 | 75-125 | 2 | 20 | |
| Arsenic | 506 | | 10.0 | ug/L | 500 | 6.15 | 100 | 75-125 | 0.5 | 20 | |
| Cadmium | 49.8 | | 3.00 | ug/L | 50.0 | 0.500 U | 100 | 75-125 | 0.6 | 20 | |
| Chromium | 521 | | 10.0 | ug/L | 500 | 5.00 U | 104 | 75-125 | 0.07 | 20 | |
| Iron | 11800 | L | 50.0 | ug/L | 1000 | 10700 | 117 | 75-125 | 1 | 20 | |
| Lead | 494 | | 5.00 | ug/L | 500 | 2.50 U | 99 | 75-125 | 0.6 | 20 | |
| Sodium | 54.7 | | 1.00 | mg/L | 25.0 | 27.6 | 109 | 75-125 | 0.4 | 20 | |

## Classical Chemistry Parameters - Quality Control

### *Batch 0A24018 - NO PREP*

**Blank (0A24018-BLK1)** Prepared: 01/24/2020 12:00 Analyzed: 01/24/2020 12:57

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 0.29 | U | 5.0 | mg/L | | | | | | | |
| Nitrate as N | 0.052 | U | 1.0 | mg/L | | | | | | | |
| Sulfate | 0.07 | U | 5.0 | mg/L | | | | | | | |

**LCS (0A24018-BS1)** Prepared: 01/24/2020 12:00 Analyzed: 01/24/2020 13:14

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 48 | | 5.0 | mg/L | 50.0 | | 96 | 90-110 | | | |
| Nitrate as N | 23 | | 1.0 | mg/L | 25.0 | | 92 | 90-110 | | | |
| Sulfate | 48 | | 5.0 | mg/L | 50.0 | | 96 | 90-110 | | | |

**Matrix Spike (0A24018-MS1)** Prepared: 01/24/2020 12:00 Analyzed: 01/24/2020 13:42

**Source: AD00544-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 60 | | 5.0 | mg/L | 50.0 | 12 | 96 | 90-110 | | | |
| Nitrate as N | 23 | | 1.0 | mg/L | 25.0 | 0.052 U | 92 | 90-110 | | | |
| Sulfate | 58 | | 5.0 | mg/L | 50.0 | 11 | 94 | 90-110 | | | |

**Matrix Spike (0A24018-MS2)** Prepared: 01/24/2020 12:00 Analyzed: 01/24/2020 15:13

**Source: AD00544-04**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 58 | | 5.0 | mg/L | 50.0 | 11 | 94 | 90-110 | | | |

# QUALITY CONTROL DATA

## Classical Chemistry Parameters - Quality Control

### *Batch 0A24018 - NO PREP - Continued*

**Matrix Spike (0A24018-MS2) Continued** Prepared: 01/24/2020 12:00 Analyzed: 01/24/2020 15:13

**Source: AD00544-04**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate as N | 22 | | 1.0 | mg/L | 25.0 | 0.067 | 90 | 90-110 | | | |
| Sulfate | 56 | | 5.0 | mg/L | 50.0 | 9.9 | 92 | 90-110 | | | |

**Matrix Spike Dup (0A24018-MSD1)** Prepared: 01/24/2020 12:00 Analyzed: 01/24/2020 13:57

**Source: AD00544-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 61 | | 5.0 | mg/L | 50.0 | 12 | 97 | 90-110 | 0.9 | 10 | |
| Nitrate as N | 23 | | 1.0 | mg/L | 25.0 | 0.052 U | 93 | 90-110 | 0.6 | 10 | |
| Sulfate | 58 | | 5.0 | mg/L | 50.0 | 11 | 95 | 90-110 | 0.7 | 10 | |

**Matrix Spike Dup (0A24018-MSD2)** Prepared: 01/24/2020 12:00 Analyzed: 01/24/2020 15:28

**Source: AD00544-04**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 59 | | 5.0 | mg/L | 50.0 | 11 | 96 | 90-110 | 2 | 10 | |
| Nitrate as N | 23 | | 1.0 | mg/L | 25.0 | 0.067 | 91 | 90-110 | 2 | 10 | |
| Sulfate | 57 | | 5.0 | mg/L | 50.0 | 9.9 | 94 | 90-110 | 1 | 10 | |

### *Batch 0A27006 - NO PREP*

**Blank (0A27006-BLK1)** Prepared: 01/27/2020 10:49 Analyzed: 01/28/2020 15:34

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 10 | U | 10 | mg/L | | | | | | | |

**LCS (0A27006-BS1)** Prepared: 01/27/2020 10:49 Analyzed: 01/28/2020 15:34

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 990 | | 10 | mg/L | 1000 | | 99 | 90-110 | | | |

**Duplicate (0A27006-DUP1)** Prepared: 01/27/2020 10:49 Analyzed: 01/28/2020 15:34

**Source: AD00560-07**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 210 | | 10 | mg/L | | 200 | | | 7 | 20 | |

### *Batch 0A27009 - NO PREP*

**Blank (0A27009-BLK1)** Prepared: 01/27/2020 08:21 Analyzed: 01/27/2020 09:20

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 0.07 | U | 5.0 | mg/L | | | | | | | |

**LCS (0A27009-BS1)** Prepared: 01/27/2020 08:21 Analyzed: 01/27/2020 09:35

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 48 | | 5.0 | mg/L | 50.0 | | 97 | 90-110 | | | |

## QUALITY CONTROL DATA

### Classical Chemistry Parameters - Quality Control

***Batch 0A27009 - NO PREP - Continued***

**LCS Dup (0A27009-BSD1)** Prepared: 01/27/2020 08:21 Analyzed: 01/27/2020 14:25

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 48 | | 5.0 | mg/L | 50.0 | | 96 | 90-110 | 0.6 | 10 | |

***Batch 0A28012 - NO PREP***

**Blank (0A28012-BLK1)** Prepared: 01/28/2020 08:40 Analyzed: 01/28/2020 11:48

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 0.0098 | U | 0.020 | mg/L | | | | | | | |

**LCS (0A28012-BS1)** Prepared: 01/28/2020 08:40 Analyzed: 01/28/2020 11:52

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 0.94 | | 0.020 | mg/L | 1.00 | | 94 | 90-110 | | | |

**Matrix Spike (0A28012-MS2)** Prepared: 01/28/2020 08:40 Analyzed: 01/28/2020 12:07

**Source: AD00163-02RE1**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 5.1 | | 0.10 | mg/L | 1.00 | 4.2 | 95 | 90-110 | | | |

**Matrix Spike Dup (0A28012-MSD2)** Prepared: 01/28/2020 08:40 Analyzed: 01/28/2020 12:08

**Source: AD00163-02RE1**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 5.1 | | 0.10 | mg/L | 1.00 | 4.2 | 95 | 90-110 | 0 | 10 | |

## FLAGS/NOTES AND DEFINITIONS

| | |
|---|---|
| **PQL** | PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL. |
| **B** | Results are based upon membrane filter colony counts that are outside the method indicated ideal range. |
| **I** | The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL). |
| **J** | Estimated value. |
| **K** | Off-scale low; Actual value is known to be less than the value given. |
| **L** | Off-scale high; Actual value is known to be greater than value given. |
| **M** | Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL. |
| **N** | Presumptive evidence of presence of material. |
| **O** | Sampled, but analysis lost or not performed. |
| **Q** | Sample exceeded the accepted holding time. |
| **T** | Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis. |
| **U** | Indicates that the compound was analyzed for but not detected. |
| **V** | Indicates that the analyte was detected in both the sample and the associated method blank. |
| **Y** | The laboratory analysis was from an improperly preserved sample. The data may not be accurate. |
| **Z** | Too many colonies were present (TNTC); the numeric value represents the filtration volume. |
| **?** | Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data. |
| ***** | Not reported due to interference. |
| **[CALC]** | Calculated analyte - MDL/MRL reported to the highest reporting limit of the component analyses. |
| **QL-02** | The associated laboratory control sample exhibited high bias; since the result is ND, there is no impact. |
| **QV-01** | The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact. |

# ENVIRONMENTAL CONSERVATION LABORATORIES — CHAIN-OF-CUSTODY RECORD

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

www.encolabs.com



| | |
|---|---|
| Client Name: Friends Recycling (FR008) | Project Number: 21012 |
| Address: 2350 NW 27th Avenue | Project Name/Desc: FRIENDS RECYCLING FORMERLY OCALA RECYCLING |
| City/ST/Zip: Ocala, FL 34475 | PO # / Billing Info: |
| Tel: (352) 266-4853 Fax: (352) 622-4999 | Reporting Contact: Nick Giumarelli |
| Sampler(s) Name, Affiliation (Print): Louis Contento IdealTech Chris Monaco | Billing Contact: Nick Giumarelli |
| Sampler(s) Signature: | Site Location / Time Zone: FL EST |

**Requested Analyses**

| Item # | Sample ID (Field Identification) | Collection Date | Collection Time | Comp / Grab | Matrix (see codes) | Total # of Containers | 8260D Arom/Halo | Chloride 300,Nitrate as N 300,Sulfate 300,TDS SM2540C | Ammonia 350.1 | Al,As,Cd,Cr,Fe,Hg,Na,Pb | | | | | | | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Preservation (See Codes) (Combine as necessary) | | | | | | | | | | |
| | | | | | | | IH | I | IS | N | | | | | | | |
| | MW-1 | 1/23/20 | 1114 | Grab | GW | 6 | X | X | X | X | | | | | | | |
| | MW-5 | | 1305 | Grab | GW | 6 | X | X | X | X | | | | | | | |
| | MW-6 | | 1308 | Grab | GW | 6 | X | X | X | X | | | | | | | |
| | MW-7 | | 1237 | Grab | GW | 6 | X | X | X | X | | | | | | | |
| | MW-8 | | 1211 | Grab | GW | 6 | X | X | X | X | | | | | | | |
| | MW-9 | 1/23/20 | 1145 | Grab | GW | 6 | X | X | X | X | | | | | | | |
| | TRIP BLANK | — | — | Grab | WA | 2 | X | — | — | — | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

<-- Total # of Containers

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

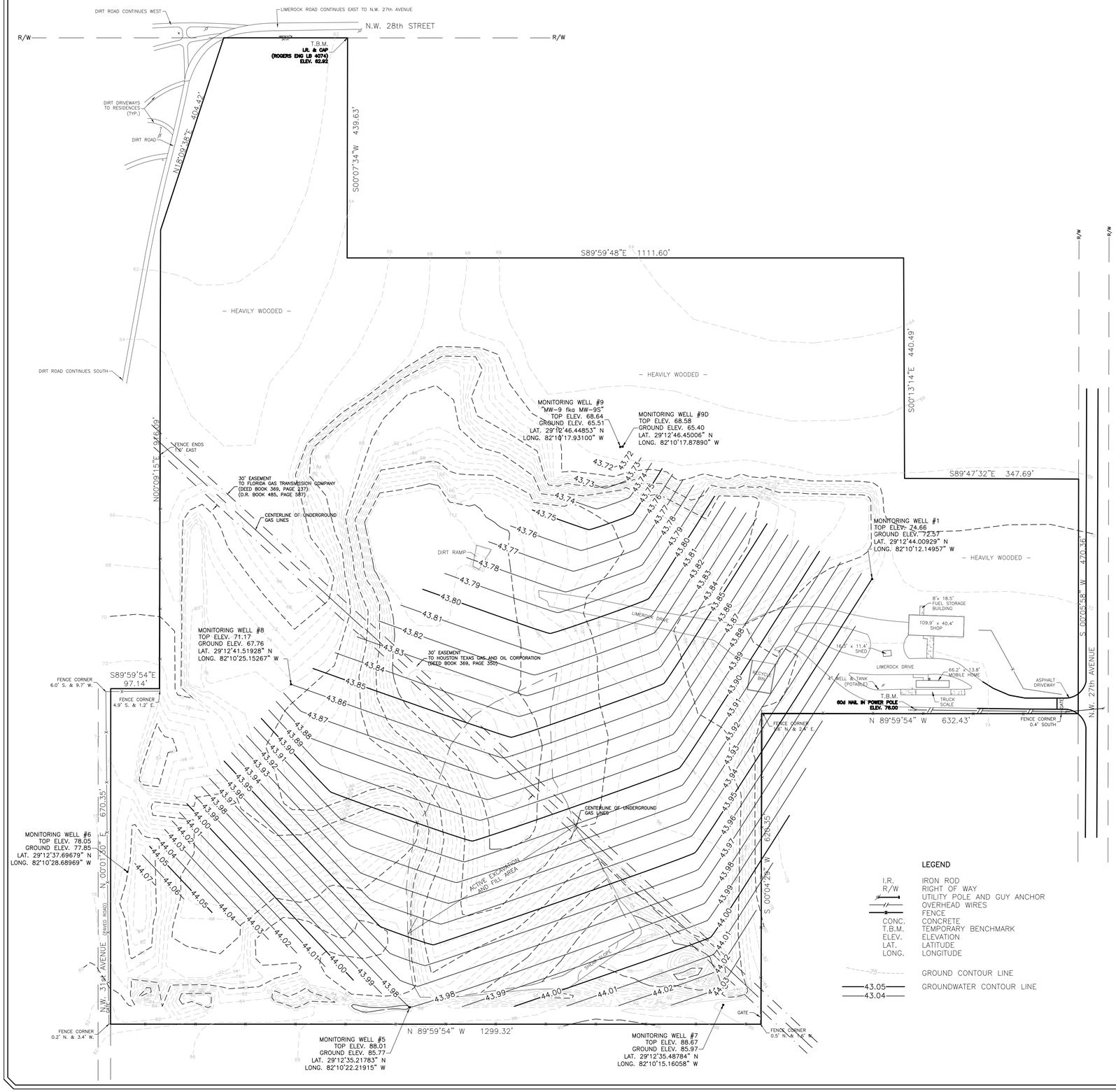
Lab Workorder: AD00163

| | | | |
|---|---|---|---|
| Sample Kit Prepared By: ECG | Date/Time: 01/17/20 9:30 | Relinquished By | Date/Time: 01/17/20 9:30 |
| Comments/Special Reporting Requirements | | Relinquished By | Date/Time: 1/24/20 0255 |
| | | Relinquished By | Date/Time: 1/24/20 0941 |
| | | Cooler #'s & Temps on Receipt: MED-442 3.7°C | |

| | | | |
|---|---|---|---|
| Received By | Date/Time: 1/24/20 1600 | | |
| Received By | Date/Time: 1/24/20 0555 | | |
| Received By | Date/Time: 012420 9:42 | | |
| 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)




N

ETI

GRAPHIC SCALE

100 0 50 100 200

( IN FEET )
1 inch = 100 ft.

**NOTES:**

1. THIS PROPERTY CONTAINS AN ACTIVE LANDFILL OPERATION THAT ALTERS THE GROUND CONTOUR ELEVATIONS IN CERTAIN AREAS ON A DAILY BASIS. THE CONTOUR LINES SHOWN HEREON REPRESENT THE PROPERTY CONDITION ON THE DATE OF THE SURVEY.

2. FIELD SURVEY DATE : 12-21-2012.

3. ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON N.G.V.D. DATUM; CITY OF OCALA BM @ N.W. 27th AVENUE AND N.W. 18th STREET; ELEVATION 69.47 (NAVD-88).

4. THE TOP ELEVATION OF THE MONITORING WELLS, AS SHOWN HEREON, REPRESENT THE ELEVATION OF THE TOP OF THE WELL CASING ON THE NORTH EDGE. THE GROUND ELEVATION REPRESENTS THE ELEVATION OF THE GROUND, NEXT TO THE WELL CASING ON THE NORTH SIDE.

**LEGEND**

| | |
|---|---|
| I.R. | IRON ROD |
| R/W | RIGHT OF WAY |
| | UTILITY POLE AND GUY ANCHOR |
| | OVERHEAD WIRES |
| | FENCE |
| CONC. | CONCRETE |
| T.B.M. | TEMPORARY BENCHMARK |
| ELEV. | ELEVATION |
| LAT. | LATITUDE |
| LONG. | LONGITUDE |
| | GROUND CONTOUR LINE |
| 43.05 | GROUNDWATER CONTOUR LINE |
| 43.04 | |

SURVEY PREPARED BY:

ROBERT L. ROGERS ENGINEERING CO. INC.
LIC. BUS. #4074
1105 S.E. 3rd Ave. OCALA, FLORIDA 34471 (352) 622-9214

ROBERT M. COUCH III, P.E. : _____
FLORIDA REG. No. 55311
DATE : _____
C.O.A. No. 8692

REVISIONS

| | | |
|---|---|---|
| PLOTTED: | RMC-3 | N/A |
| DRAWN: | RMC-3 | N/A |
| DESIGNED: | RMC-3 | N/A |
| CHECKED: | RMC-3 | N/A |
| SCALE: | 1" = 100' | |

Groundwater contours revised 2-4-2020

# GROUNDWATER CONTOURS

## FRIENDS RECYCLING, LLC.
## MARION COUNTY, FLORIDA

ENVIROTECH, INC.
ENVIRONMENTAL & CIVIL ENGINEERING CONSULTANTS
15290 SE HWY 42, PO BOX 152
WEIRSDALE, FLORIDA 32195
PHONE: (352) 694-1799
EMAIL: ENVIROTECH@YMAIL.COM

SITE PLAN
P.N. 2009-
Sht. 1 of 1