# SEMI-ANNUAL MONITORING REPORT

# SECOND HALF 2015

**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


August 11, 2015

August 11, 2015

Friends Recycling
2350 NW 27th Avenue
Ocala, FL 34475

Attention: Mr. Nick Giunarelli

RE: Semi-Annual Sampling Activities for the Second Half of 2015
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 2015 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 July 17, 2015, (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 July 17, 2015 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 | 2.9 | 2.8 | ug/L | EPA 350.1 |
| Arsenic - Total | 15.1 | 10 | ug/L | EPA 6010C |
| Iron - Total | 7590 | 300 | ug/L | EPA 6010C |
| Total Dissolved Solids | 860 | 500 | mg/L | SM 2540C-1997 |

**MW-5**

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Ammonia as N | 2.9 | 2.8 | ug/L | EPA 350.1 |
| Iron - Total | 33900 | 300 | ug/L | EPA 6010C |
| Total Dissolved Solids | 820 | 500 | mg/L | SM 2540C-1997 |

**MW-6**

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| ALL ITEMS BELOW | GROUND WATER | TARGET | CLEAN UP | LEVELS |

**MW-7**

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Aluminum - Total | 209 | 200 | ug/L | EPA 6020A |
| Iron - Total | 3130 | 300 | ug/L | EPA 6010C |
| Total Dissolved Solids | 530 | 500 | mg/L | SM 2540C-1997 |

**MW-8**

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Ammonia as N | 4.8 | 2.8 | ug/L | EPA 350.1 |
| Iron - Total | 15400 | 300 | ug/L | EPA 6010C |
| Total Dissolved Solids | 710 | 500 | mg/L | SM 2540C-1997 |

**MW-9**

| Analyte | Results | Groundwater Criteria | Units | Method |
|---|---|---|---|---|
| Total Dissolved Solids | 570 | 500 | mg/L | SM 2540C-1997 |

## 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 still noted in monitoring wells MW-1, MW-5, MW-7 and MW-8. The iron concentration levels in all wells except MW-7 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-5, MW-7, and MW-8 were lower or equal to the previous concentrations for this sampling event. All of the higher concentrations are 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.

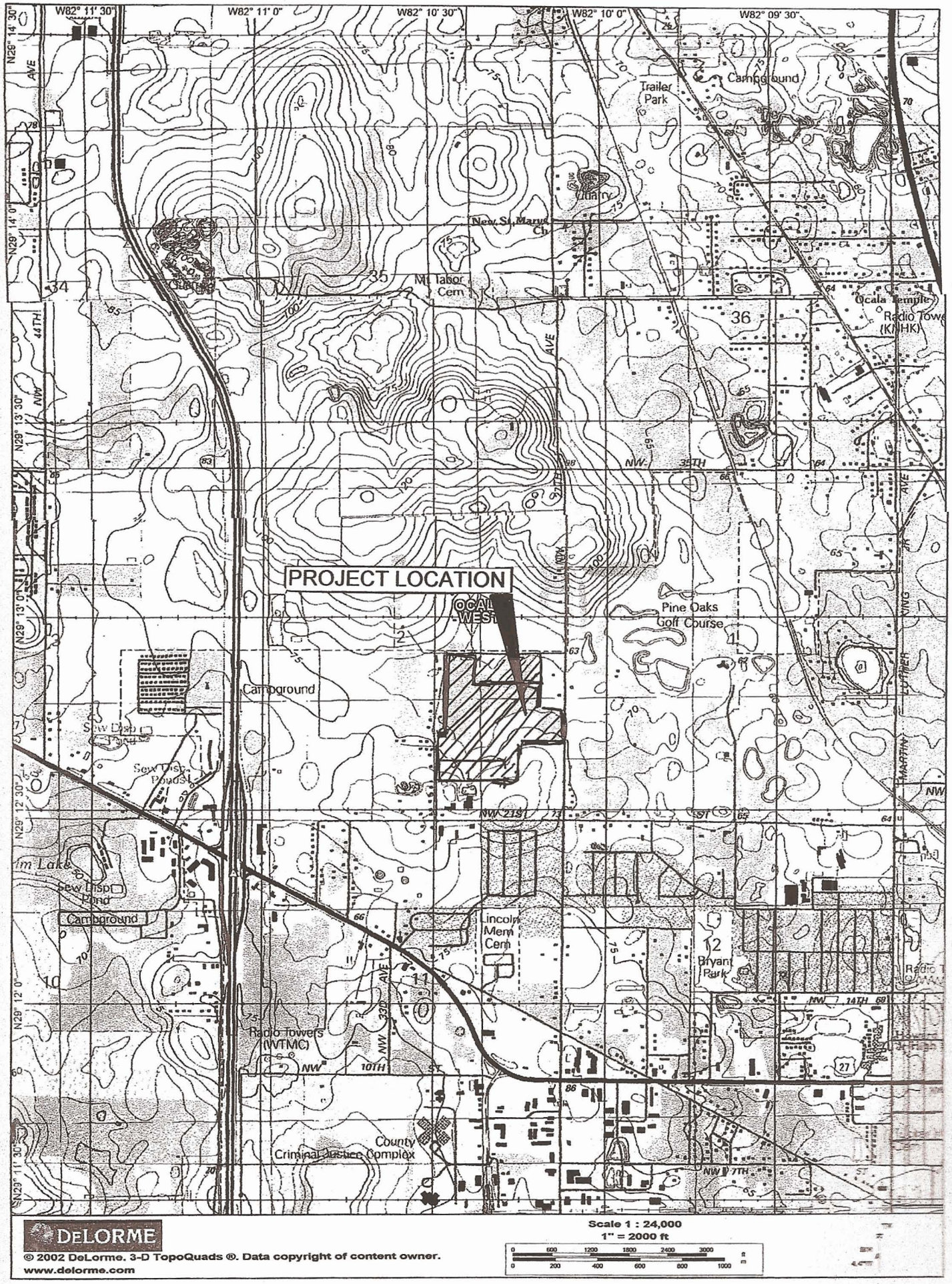
Thank you for the opportunity to provide consulting services to the Friends Recycling C&D Landfill. If you have any questions or comments about this report, please feel free to contact me at (352) 694-1799.

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

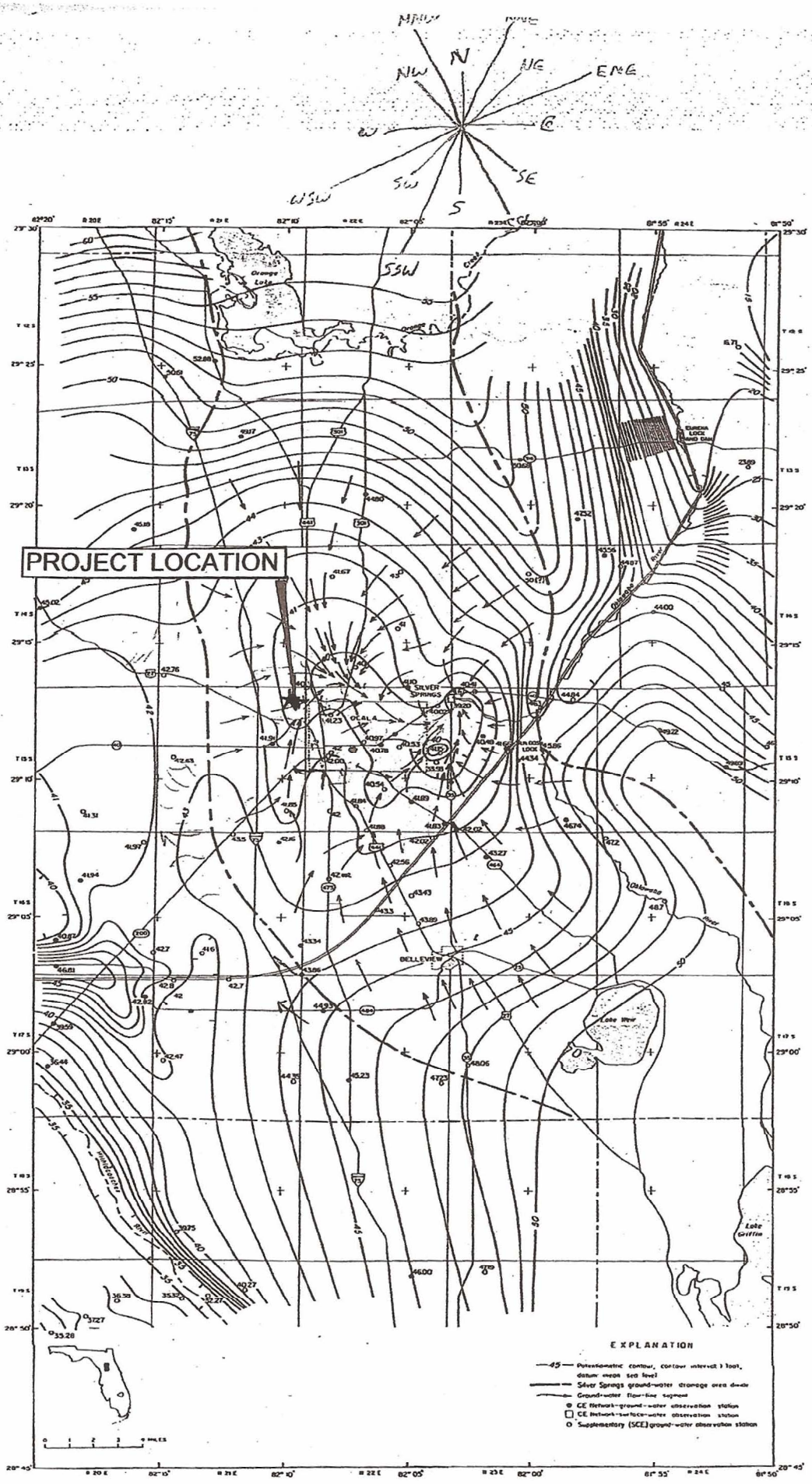



**Figure 25. Potentiometric surface of upper part of Floridan Aquifer in May 1968 (low-water period), Ocala vicinity.**

**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.

8/11/2015
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

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

July 17, 2015

| GROUNDWATER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Well No.** | **WACS No.** | **Latitude** | **Longitude** | **Ground Surface Elevation** | **Top of Casing (TOC) Elevation** | **Total Well Depth (7/17/2015)** | **Depth to Water (7/17/2015)** | **Water Table Elevation (7/17/2015)** |
| MW-1 | 18811 | 29d 12' 44.009" N | 82d 10' 12.150" W | 72.57 | 74.66 | 43.45 | 32.78 | 41.88 |
| MW-5 | 22912 | 29d 12' 35.218" N | 82d 10' 22.219" W | 85.77 | 88.01 | 67.45 | 46.24 | 41.77 |
| MW-6 | 22913 | 29d 12' 39.697" N | 82d 10' 28.570" W | 77.85 | 78.05 | 53.10 | 36.08 | 41.97 |
| MW-7 | 22914 | 29d 12' 35.488" N | 82d 10' 15.161" W | 85.97 | 88.67 | 53.60 | 46.72 | 41.95 |
| MW-8 | 22915 | 29d 12' 41.519" N | 82d 10' 25.153" W | 67.76 | 71.17 | 34.24 | 29.40 | 41.77 |
| MW-9 | 22916 | 29d 12' 44.853" N | 82d 10' 17.931" W | 65.51 | 68.64 | 32.80 | 27.00 | 41.64 |

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

# CALIBRATION LOG

ITS Work Order Number: FRL-14-071715

CLIENT: Friends Recycling

ADDRESS: 2350 NW 27th Ave.

CITY, STATE: Ocala, Fl 34475

Site: Friends Recycling C&D Landfill

START CAL DATE @ TIME: 07/17/15 @ 0740

END CALIBRATION DATE @ TIME: 07/17/15 @ 1310



## YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 5.30

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

| Standard | METER READING | | VERIFY @ START | LOT NUMBER | EXP DATE |
|---|---|---|---|---|---|
| | INITIAL | CCV | | | |
| 4.005 | 4.00 | 3.99 | ✓ | cc286756 | Oct-16 |
| 7.000 | 7.00 | 7.02 | 7.00 | cc286757 | Oct-16 |
| 10.012 | 10.01 | 10.00 | ✓ | cc230314 | Apr-16 |

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

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

| STANDARD (ERTCO Thermometer) | | YSI METER TEMP READING | | LOT NUMBER | DATE PERFORMED (Quarterly) |
|---|---|---|---|---|---|
| | | LOW | HIGH | | |
| LOW | 5.20 | 5.23 | | NA | 01/04/15 |
| HIGH | 29.10 | | 29.14 | | 01/04/15 |

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

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

| STANDARD (ppm) | INITIAL | CCV | LOT NUMBER | EXPIRATION DATE |
|---|---|---|---|---|
| | METER READING | | | |
| 0.00 | .17 | .17 | 4AC373 | Apr-15 |
| | | | | |
| fresh air @ | | | | |
| 24.71 °C | 8.27 | | | |
| 28.93 °C | | 7.63 | | |

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

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

| STANDARD µmhos | INITIAL | CCV | LOT NUMBER | EXPIRATION DATE |
|---|---|---|---|---|
| | METER READING | | | |
| 8,974 | NM | NM | 4AH167 | Aug-15 |
| 2,764 | 2,764 | 2770 | 4AG672 | Jul-15 |
| 447 | NM | NM | No Stock | No Stock |
| 84 | 84 | 84 | 4AJ030 | Oct-15 |

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

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

| STANDARD (mV) | INITIAL | CCV | LOT NUMBER | EXPIRATION DATE |
|---|---|---|---|---|
| | METER READING | | | |
| 200 | NM | NM | 4AD362 | Jan-15 |
| 400 | NM | NM | 4AB414 | Feb-15 |

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

### HACH POCKET COLORIMETER II S/N 06070D052733

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

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

### HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

| STANDARD (ntu) | INITIAL | CCV | LOT NUMBER | EXPIRATION DATE |
|---|---|---|---|---|
| | METER READING | | | |
| 1000 | NM | NM | See Below | Oct-16 |
| 100 | 100 | 100 | See Below | Oct-16 |
| 10 | 10 | 10 | See Below | Oct-16 |
| 0.02 | .02 | .02 | See Below | Oct-16 |

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 41053

Remarks:

**Weather Conditions:** Sunny 90-95°F

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

**Zephyrhills brand Lot #041915109WF2331830**

**Exp Date 10/31/16**

Equipment Blank Data - Collected @ 0923

pH = ✓ Cond = ✓

Temp = ✓ D.O. = ✓

Turbidity = ✓

Notes: **NA** - Not Applicable, **NM** - Not Measured, **CCV** - Continuing Calibration Verification Form Rev 5.30 on 2/27/15: Update for new standard (s)

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: Karen LeBeau

Chris Monaco or Karen LeBeau

Form FD 9000-24

# GROUNDWATER SAMPLING LOG

| SITE NAME: | Friends Recycling | SITE LOCATION: | Marion County, Florida |
|---|---|---|---|
| MONITORING_SITE_NUM: **MW-1** | WACS_WELL: 18811 | DATE: | 07 / 17 / 15 |

## PURGING DATA

| WELL DIAMETER (inches): | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL DEPTH: | STATIC DEPTH TO WATER (feet): | PURGE PUMP TYPE OR BAILER: |
|---|---|---|---|---|
| 2 | .375 | unk. feet to unk. feet | 32.78 | ESP |

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= ( 43.45 feet – 32.78 feet) X .16 gallons/foot = 1.71 gallons

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

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: | PURGING ENDED AT: | TOTAL VOLUME PURGED (gallons): |
|---|---|---|---|---|
| 33.50 | 34.00 | 0923 | 0933 | 5.00 |

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0927 | 2.00 | 2.00 | .50 | 33.01 | 6.48 | 24.31 | 1,241 | .67 | 8.60 | Clear | None |
| 0930 | 1.50 | 3.50 | .50 | 33.01 | 6.47 | 24.34 | 1,247 | .59 | 4.80 | Clear | None |
| 0933 | 1.50 | 5.00 | .50 | 33.02 | 6.48 | 24.35 | 1,252 | .44 | 5.10 | Clear | None |
| | | | | | | | | | | | |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

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

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: | SAMPLING ENDED AT: |
|---|---|---|---|
| Chris Monaco or Karen LeBeau<br>Ideal Tech Services, Inc. | | 0933 | 0937 |

| PUMP OR TUBING DEPTH IN WELL (feet): | TUBING MATERIAL CODE: | FIELD-FILTERED: Y [N] Filtration Equipment Type: | FILTER SIZE: ____ µm |
|---|---|---|---|
| 34.00 | PE | | |

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

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

REMARKS: Slowed pump to sample

DTW = 32.78 Reference Elevation = 74.66 GWTE = 41.88 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; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

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

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

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

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

Revision Date: February 12, 2009

Form FD 9000-24

# GROUNDWATER SAMPLING LOG

| SITE NAME: Friends Recycling | SITE LOCATION: Marion County, Florida | |
|---|---|---|
| MONITORING_SITE_NUM: **MW-5** | WACS_WELL: 22912 | DATE: 07 / 17 / 15 |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): .375 | WELL SCREEN INTERVAL DEPTH: unk. feet to unk. feet | STATIC DEPTH TO WATER (feet): 46.24 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 67.45 feet – 46.24 feet) X .16 gallons/foot = 3.39 gallons

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

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00 | PURGING INITIATED AT: 1101 | PURGING ENDED AT: 1116 | TOTAL VOLUME PURGED (gallons): 6.00 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1110 | 3.60 | 3.60 | .40 | 46.26 | 6.31 | 26.82 | 1,431 | .34 | 1.60 | Clear | None |
| 1113 | 1.20 | 4.80 | .40 | 46.24 | 6.32 | 26.90 | 1,440 | .39 | 1.70 | Clear | None |
| 1116 | 1.20 | 6.00 | .40 | 46.26 | 6.34 | 26.92 | 1,447 | .41 | 1.60 | Clear | None |
| | | | | | | | | | | | |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

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

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc. | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1116 | SAMPLING ENDED AT: 1120 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 47.00 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y [N] Filtration Equipment Type: | FILTER SIZE: _____ µm |
| FIELD DECONTAMINATION: PUMP [Y] N | TUBING Y [N] (replaced) | DUPLICATE: Y [N] | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| MW-5 | 3 | CG | 40mL | HCL | None | Not Req'd | 8260 (Arom / Halo) | ESP | ≈ 100 |
| MW-5 | 1 | PE | 250mL | $HNO_3$ | None | <2 | Metals | ESP | ≈ 1135 |
| MW-5 | 1 | PE | 250mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | ESP | ≈ 1135 |
| MW-5 | 1 | PE | 250mL | 4° C | None | Not Req'd | Chloride, Nitrate, Sulfate, TDS | ESP | ≈ 1135 |
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REMARKS: Slowed pump to sample

DTW = 46.24 Reference Elevation = 88.01 GWTE = 41.77 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; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

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

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

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

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

Revision Date: February 12, 2009

Form FD 9000-24

# GROUNDWATER SAMPLING LOG

| SITE NAME: Friends Recycling | SITE LOCATION: Marion County, Florida | |
|---|---|---|
| MONITORING_SITE_NUM: **MW-6** | WACS_WELL: 22913 | DATE: 07 / 17 / 15 |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): .375 | WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet | STATIC DEPTH TO WATER (feet): 36.08 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 53.10 feet – 36.08 feet) X .16 gallons/foot = 2.72 gallons

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

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.50 | PURGING INITIATED AT: 1024 | PURGING ENDED AT: 1038 | TOTAL VOLUME PURGED (gallons): 4.90 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1032 | 2.80 | 2.80 | .35 | 36.42 | 6.50 | 23.71 | 715 | .74 | 7.40 | Clear | None |
| 1035 | 1.05 | 3.85 | .35 | 36.42 | 6.52 | 23.65 | 725 | .58 | 2.20 | Clear | None |
| 1038 | 1.05 | 4.90 | .35 | 36.42 | 6.55 | 23.58 | 736 | .50 | 1.80 | Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

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

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc. | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1038 | SAMPLING ENDED AT: 1045 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 37.50 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y [N] Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP [Y] N TUBING Y [N] (replaced) | | DUPLICATE: (Y) [N] (MW) 7/17/15 | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| MW-6 | 6 | CG | 40mL | HCL | None | Not Req'd | 8260 (Arom / Halo) | ESP | ≈ 100 |
| MW-6 | 2 | PE | 250mL | $HNO_3$ | None | CZ / LZ | Metals | ESP | ≈ 1325 |
| MW-6 | 2 | PE | 250mL | $H_2SO_4$ | None | LZ / LZ | Ammonia (350.1) | ESP | ≈ 1325 |
| MW-6 | 2 | PE | 250mL | 4° C | None | Not Req'd | Chloride, Nitrate, Sulfate, TDS | ESP | ≈ 1325 |
| | (MW) 7/17/15 | | | | | | | | |
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Dup Sample

REMARKS:

DTW = 36.08 Reference Elevation = 78.05 GWTE = 41.97 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; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

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

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

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

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

Revision Date: February 12, 2009

Form FD 9000-24

# GROUNDWATER SAMPLING LOG

| SITE NAME: | Friends Recycling | SITE LOCATION: | Marion County, Florida |
|---|---|---|---|
| MONITORING_SITE_NUM: **MW-7** | WACS_WELL: 22914 | DATE: | 07 / 17 / 15 |

## PURGING DATA

| WELL DIAMETER (inches): | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL DEPTH: | STATIC DEPTH TO WATER (feet): | PURGE PUMP TYPE OR BAILER: |
|---|---|---|---|---|
| 2 | .375 | 41 feet to 51 feet | 46.72 | ESP |

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 53.80 feet – 46.72 feet) X .16 gallons/foot = 1.13 gallons

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

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: | PURGING ENDED AT: | TOTAL VOLUME PURGED (gallons): |
|---|---|---|---|---|
| 47.50 | 52.50 | 1130 | 1140 | 3.50 |

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1134 | 1.40 | 1.40 | .35 | 51.43 | 6.05 | 24.52 | 990 | .44 | 18.90 | Clear | None |
| 1137 | 1.05 | 2.45 | .35 | 51.43 | 6.15 | 24.56 | 994 | .45 | 16.10 | Clear | None |
| 1140 | 1.05 | 3.50 | .35 | 51.43 | 6.20 | 24.60 | 980 | .54 | 9.50 | Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

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

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: | SAMPLING ENDED AT: |
|---|---|---|---|
| Chris Monaco or Karen LeBeau<br>Ideal Tech Services, Inc. | | 1140 | 1144 |

| PUMP OR TUBING DEPTH IN WELL (feet): | TUBING MATERIAL CODE: | FIELD-FILTERED: Y N | FILTER SIZE: ____ µm |
|---|---|---|---|
| 52.50 | PE | Filtration Equipment Type: | |

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

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION | | | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | | | |
| MW-7 | 3 | CG | 40mL | HCL | None | Not Req'd | 8260 (Arom / Halo) | ESP | ≈ 100 |
| MW-7 | 1 | PE | 250mL | $HNO_3$ | None | <2 | Metals | ESP | ≈ 1325 |
| MW-7 | 1 | PE | 250mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | ESP | ≈ 1325 |
| MW-7 | 1 | PE | 250mL | 4° C | None | Not Req'd | Chloride, Nitrate, Sulfate, TDS | ESP | ≈ 1325 |
| | | | | | | | | | |
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REMARKS:

DTW = 46.72 Reference Elevation = 88.67 GWTE = 41.95 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; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

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

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

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

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

Revision Date: February 12, 2009

Form FD 9000-24

# GROUNDWATER SAMPLING LOG

| SITE NAME: | Friends Recycling | SITE LOCATION: | Marion County, Florida |
|---|---|---|---|
| MONITORING_SITE_NUM: **MW-8** | WACS_WELL: 22915 | DATE: 07 / 17 / 15 | |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): .375 | WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet | STATIC DEPTH TO WATER (feet): 29.40 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 34.24 feet – 29.40 feet) X .16 gallons/foot = .77 gallons

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

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.50 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.50 | PURGING INITIATED AT: 0957 | PURGING ENDED AT: 1008 | TOTAL VOLUME PURGED (gallons): 2.75 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1002 | 1.25 | 1.25 | .25 | 29.44 | 6.36 | 25.32 | 1,190 | .77 | 16.20 | Clear | None |
| 1005 | .75 | 2.00 | .25 | 29.44 | 6.36 | 25.23 | 1,197 | .60 | 3.50 | Clear | None |
| 1008 | .75 | 2.75 | .25 | 29.44 | 6.36 | 25.20 | 1,205 | .48 | 2.60 | Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

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

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc. | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1008 | SAMPLING ENDED AT: 1012 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 30.50 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y [N] Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP [Y] N | TUBING Y [N] (replaced) | DUPLICATE: Y [N] | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| MW-8 | 3 | CG | 40mL | HCL | None | Not Req'd | 8260 (Arom / Halo) | ESP | ≈ 100 |
| MW-8 | 1 | PE | 250mL | $HNO_3$ | None | <2 | Metals | ESP | ≈ 946 |
| MW-8 | 1 | PE | 250mL | $H_2SO_4$ | None | <2 | Ammonia (350.1) | ESP | ≈ 946 |
| MW-8 | 1 | PE | 250mL | 4° C | None | Not Req'd | Chloride, Nitrate, Sulfate, TDS | ESP | ≈ 946 |
| | | | | | | | | | |
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REMARKS:

DTW = 29.40 Reference Elevation = 71.17 GWTE = 41.77 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; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

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

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

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

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

Revision Date: February 12, 2009

Form FD 9000-24

# GROUNDWATER SAMPLING LOG

| SITE NAME: Friends Recycling | SITE LOCATION: Marion County, Florida | |
|---|---|---|
| MONITORING_SITE_NUM: **MW-9** | WACS_WELL: 22916 | DATE: 07 / 17 / 15 |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): .375 | WELL SCREEN INTERVAL DEPTH: unk. feet to unk. feet | STATIC DEPTH TO WATER (feet): 27.00 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 32.80 feet – 27.00 feet) X .16 gallons/foot = .93 gallons

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

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.00 | PURGING INITIATED AT: 0856 | PURGING ENDED AT: 0910 | TOTAL VOLUME PURGED (gallons): 4.20 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0904 | 2.40 | 2.40 | .30 | 27.15 | 6.44 | 22.95 | 870 | 1.70 | 16.50 | Clear | None |
| 0907 | .90 | 3.30 | .30 | 27.15 | 6.48 | 22.96 | 880 | 1.20 | 7.00 | Clear | None |
| 0910 | .90 | 4.20 | .30 | 27.15 | 6.50 | 23.04 | 891 | .90 | 4.20 | Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

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

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc. | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0910 | SAMPLING ENDED AT: 0913 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 28.00 | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y [N] Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP [Y] N TUBING Y [N] (replaced) | | DUPLICATE: Y [N] | |

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

REMARKS: DTW-MW-9D = 26.98

DTW = 27.00 Reference Elevation = 68.64 GWTE = 41.64 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; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

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

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

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

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

Revision Date: February 12, 2009

**ENCO Laboratories**

*Accurate. Timely. Responsive. Innovative.*

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

Thursday, August 6, 2015
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): A504104**

Dear Nick Giumarelli,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, July 18, 2015.

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. 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,

Marcia Colon

Project Manager

Enclosure(s)

## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID: MW-9** **Lab ID: A504104-01** **Sampled: 07/17/15 09:13** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 09:13 | | | 07/18/15 | 10:40 | 07/18/15 | 14:11 |
| EPA 300.0 | 08/14/15 | | | | 07/18/15 | 10:40 | 07/18/15 | 14:11 |
| EPA 350.1 | 08/14/15 | | | | 07/22/15 | 09:36 | 07/22/15 | 11:44 |
| EPA 6010C | 01/13/16 | | | | 07/23/15 | 15:03 | 07/24/15 | 12:17 |
| EPA 6020A | 01/13/16 | | | | 07/21/15 | 10:02 | 07/21/15 | 12:22 |
| EPA 7470A | 08/14/15 | | | | 07/21/15 | 14:05 | 07/22/15 | 08:42 |
| EPA 8260B | 07/31/15 | | | | 07/23/15 | 00:00 | 07/23/15 | 13:39 |
| Field | 07/17/15 | 09:27 | | | 07/17/15 | 09:13 | 07/17/15 | 09:13 |
| Field | 07/18/15 | 09:13 | 07/18/15 | 09:13 | 07/17/15 | 09:13 | 07/17/15 | 09:13 |
| Field | 07/19/15 | 09:13 | | | 07/17/15 | 09:13 | 07/17/15 | 09:13 |
| SM 2540C-1997 | 07/24/15 | | | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

**Client ID: MW-9** **Lab ID: A504104-01RE1** **Sampled: 07/17/15 09:13** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|
| EPA 6010C | 01/13/16 | | 07/23/15 | 15:03 | 07/27/15 | 11:11 |

**Client ID: EQUIPMENT BLANK** **Lab ID: A504104-02** **Sampled: 07/17/15 09:23** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 09:23 | 07/18/15 | 10:40 | 07/18/15 | 14:27 |
| EPA 300.0 | 08/14/15 | | 07/18/15 | 10:40 | 07/18/15 | 14:27 |
| EPA 350.1 | 08/14/15 | | 07/22/15 | 09:36 | 07/22/15 | 11:45 |
| EPA 6010C | 01/13/16 | | 07/23/15 | 15:03 | 07/24/15 | 12:19 |
| EPA 6020A | 01/13/16 | | 07/21/15 | 10:02 | 07/21/15 | 12:16 |
| EPA 7470A | 08/14/15 | | 07/21/15 | 14:05 | 07/22/15 | 09:08 |
| EPA 8260B | 07/31/15 | | 07/23/15 | 00:00 | 07/23/15 | 14:14 |
| SM 2540C-1997 | 07/24/15 | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

**Client ID: MW-1** **Lab ID: A504104-03** **Sampled: 07/17/15 09:37** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 09:37 | | | 07/18/15 | 10:40 | 07/18/15 | 14:43 |
| EPA 300.0 | 08/14/15 | | | | 07/18/15 | 10:40 | 07/18/15 | 14:43 |
| EPA 350.1 | 08/14/15 | | | | 07/22/15 | 09:36 | 07/22/15 | 12:16 |
| EPA 6010C | 01/13/16 | | | | 07/23/15 | 15:03 | 07/24/15 | 12:21 |
| EPA 6020A | 01/13/16 | | | | 07/21/15 | 10:02 | 07/21/15 | 12:46 |
| EPA 7470A | 08/14/15 | | | | 07/21/15 | 14:05 | 07/22/15 | 09:11 |
| EPA 8260B | 07/31/15 | | | | 07/23/15 | 00:00 | 07/23/15 | 14:49 |
| Field | 07/17/15 | 09:51 | | | 07/17/15 | 09:37 | 07/17/15 | 09:37 |
| Field | 07/18/15 | 09:37 | 07/18/15 | 09:37 | 07/17/15 | 09:37 | 07/17/15 | 09:37 |
| Field | 07/19/15 | 09:37 | | | 07/17/15 | 09:37 | 07/17/15 | 09:37 |
| SM 2540C-1997 | 07/24/15 | | | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

**Client ID: MW-1** **Lab ID: A504104-03RE1** **Sampled: 07/17/15 09:37** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|
| EPA 300.0 | 08/14/15 | | 07/20/15 | 14:00 | 07/20/15 | 18:35 |

## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID: MW-8** **Lab ID: A504104-04** **Sampled: 07/17/15 10:12** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 10:12 | | | 07/18/15 | 10:40 | 07/18/15 | 14:59 |
| EPA 300.0 | 08/14/15 | | | | 07/18/15 | 10:40 | 07/18/15 | 14:59 |
| EPA 350.1 | 08/14/15 | | | | 07/22/15 | 09:36 | 07/22/15 | 12:17 |
| EPA 6010C | 01/13/16 | | | | 07/23/15 | 15:03 | 07/24/15 | 12:22 |
| EPA 6020A | 01/13/16 | | | | 07/21/15 | 10:02 | 07/21/15 | 12:48 |
| EPA 7470A | 08/14/15 | | | | 07/21/15 | 14:05 | 07/22/15 | 09:14 |
| EPA 8260B | 07/31/15 | | | | 07/23/15 | 00:00 | 07/23/15 | 15:24 |
| Field | 07/17/15 | 10:26 | | | 07/17/15 | 10:12 | 07/17/15 | 10:12 |
| Field | 07/18/15 | 10:12 | 07/18/15 | 10:12 | 07/17/15 | 10:12 | 07/17/15 | 10:12 |
| Field | 07/19/15 | 10:12 | | | 07/17/15 | 10:12 | 07/17/15 | 10:12 |
| SM 2540C-1997 | 07/24/15 | | | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

**Client ID: MW-6** **Lab ID: A504104-05** **Sampled: 07/17/15 10:45** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 10:45 | | | 07/18/15 | 10:40 | 07/18/15 | 15:14 |
| EPA 300.0 | 08/14/15 | | | | 07/18/15 | 10:40 | 07/18/15 | 15:14 |
| EPA 350.1 | 08/14/15 | | | | 07/22/15 | 09:36 | 07/22/15 | 11:50 |
| EPA 6010C | 01/13/16 | | | | 07/23/15 | 15:03 | 07/24/15 | 12:25 |
| EPA 6020A | 01/13/16 | | | | 07/21/15 | 10:02 | 07/21/15 | 12:51 |
| EPA 7470A | 08/14/15 | | | | 07/21/15 | 14:05 | 07/22/15 | 09:17 |
| EPA 8260B | 07/31/15 | | | | 07/23/15 | 00:00 | 07/23/15 | 15:58 |
| Field | 07/17/15 | 10:59 | | | 07/17/15 | 10:45 | 07/17/15 | 10:45 |
| Field | 07/18/15 | 10:45 | 07/18/15 | 10:45 | 07/17/15 | 10:45 | 07/17/15 | 10:45 |
| Field | 07/19/15 | 10:45 | | | 07/17/15 | 10:45 | 07/17/15 | 10:45 |
| SM 2540C-1997 | 07/24/15 | | | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

**Client ID: MW-6** **Lab ID: A504104-05RE1** **Sampled: 07/17/15 10:45** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|
| EPA 6010C | 01/13/16 | | 07/23/15 | 15:03 | 07/27/15 | 11:13 |

**Client ID: DUPLICATE** **Lab ID: A504104-06** **Sampled: 07/17/15 10:45** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 10:45 | | | 07/18/15 | 10:40 | 07/18/15 | 15:30 |
| EPA 300.0 | 08/14/15 | | | | 07/18/15 | 10:40 | 07/18/15 | 15:30 |
| EPA 350.1 | 08/14/15 | | | | 07/22/15 | 09:36 | 07/22/15 | 11:51 |
| EPA 6010C | 01/13/16 | | | | 07/23/15 | 15:03 | 07/24/15 | 12:27 |
| EPA 6020A | 01/13/16 | | | | 07/21/15 | 10:02 | 07/21/15 | 12:54 |
| EPA 7470A | 08/14/15 | | | | 07/21/15 | 14:05 | 07/22/15 | 09:20 |
| EPA 8260B | 07/31/15 | | | | 07/23/15 | 00:00 | 07/23/15 | 16:33 |
| SM 2540C-1997 | 07/24/15 | | | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

**Client ID: MW-5** **Lab ID: A504104-07** **Sampled: 07/17/15 11:20** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 11:20 | | | 07/18/15 | 10:40 | 07/18/15 | 15:46 |
| EPA 300.0 | 08/14/15 | | | | 07/18/15 | 10:40 | 07/18/15 | 15:46 |
| EPA 350.1 | 08/14/15 | | | | 07/22/15 | 09:36 | 07/22/15 | 12:19 |
| EPA 6010C | 01/13/16 | | | | 07/23/15 | 15:03 | 07/24/15 | 12:29 |
| EPA 6020A | 01/13/16 | | | | 07/21/15 | 10:02 | 07/21/15 | 12:57 |
| EPA 7470A | 08/14/15 | | | | 07/21/15 | 14:05 | 07/22/15 | 09:23 |
| EPA 8260B | 07/31/15 | | | | 07/23/15 | 00:00 | 07/23/15 | 17:08 |
| Field | 07/17/15 | 11:34 | | | 07/17/15 | 11:20 | 07/17/15 | 11:20 |
| Field | 07/18/15 | 11:20 | 07/18/15 | 11:20 | 07/17/15 | 11:20 | 07/17/15 | 11:20 |
| Field | 07/19/15 | 11:20 | | | 07/17/15 | 11:20 | 07/17/15 | 11:20 |
| SM 2540C-1997 | 07/24/15 | | | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

## SAMPLE SUMMARY/LABORATORY CHRONICLE

**Client ID: MW-7** **Lab ID: A504104-08** **Sampled: 07/17/15 11:44** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | | | | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|---|---|---|
| EPA 300.0 | 07/19/15 | 11:44 | | | 07/18/15 | 10:40 | 07/18/15 | 16:02 |
| EPA 300.0 | 08/14/15 | | | | 07/18/15 | 10:40 | 07/18/15 | 16:02 |
| EPA 350.1 | 08/14/15 | | | | 07/22/15 | 09:36 | 07/22/15 | 11:53 |
| EPA 6010C | 01/13/16 | | | | 07/23/15 | 15:03 | 07/24/15 | 12:35 |
| EPA 6020A | 01/13/16 | | | | 07/21/15 | 10:02 | 07/21/15 | 13:00 |
| EPA 7470A | 08/14/15 | | | | 07/21/15 | 14:05 | 07/22/15 | 09:32 |
| EPA 8260B | 07/31/15 | | | | 07/23/15 | 00:00 | 07/23/15 | 17:43 |
| Field | 07/17/15 | 11:58 | | | 07/17/15 | 11:44 | 07/17/15 | 11:44 |
| Field | 07/18/15 | 11:44 | 07/18/15 | 11:44 | 07/17/15 | 11:44 | 07/17/15 | 11:44 |
| Field | 07/19/15 | 11:44 | | | 07/17/15 | 11:44 | 07/17/15 | 11:44 |
| SM 2540C-1997 | 07/24/15 | | | | 07/22/15 | 16:27 | 07/23/15 | 21:21 |

**Client ID: TRIP BLANK** **Lab ID: A504104-09** **Sampled: 07/17/15 00:00** **Received: 07/18/15 11:37**

| Parameter | Hold Date/Time(s) | Prep Date/Time(s) | | Analysis Date/Time(s) | |
|---|---|---|---|---|---|
| EPA 8260B | 07/31/15 | 07/23/15 | 00:00 | 07/23/15 | 18:17 |

# SAMPLE DETECTION SUMMARY

**Client ID: MW-9** **Lab ID: A504104-01**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Chloride | 20 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Dissolved Oxygen | 0.9 | | 0 | 0 | mg/L | Field | |
| Nitrate as N | 0.53 | I | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| pH | 6.5 | | | | pH Units | Field | |
| Sodium - Total | 11.3 | | 0.320 | 1.00 | mg/L | EPA 6020A | |
| Specific Conductance (EC) | 891 | | 0 | 0 | umhos/cm | Field | |
| Sulfate | 73 | | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Temperature | 23.04 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 570 | | 10 | 10 | mg/L | SM 2540C-1997 | |
| Turbidity | 4.2 | | 0 | 0 | NTU | Field | |
| Water Elevation | 41.64 | | | | Ft | Field | |

**Client ID: MW-9** **Lab ID: A504104-01RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Iron - Total | 13.2 | I | 6.00 | 50.0 | ug/L | EPA 6010C | |

**Client ID: MW-1** **Lab ID: A504104-03**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.9 | | 0.015 | 0.040 | mg/L | EPA 350.1 | |
| Arsenic - Total | 15.1 | | 8.00 | 10.0 | ug/L | EPA 6010C | |
| Chloride | 21 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Dissolved Oxygen | 0.44 | | 0 | 0 | mg/L | Field | |
| Iron - Total | 7590 | V | 6.00 | 50.0 | ug/L | EPA 6010C | QB-01 |
| Nitrate as N | 0.35 | I | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| pH | 6.48 | | | | pH Units | Field | |
| Sodium - Total | 30.2 | | 0.320 | 1.00 | mg/L | EPA 6020A | |
| Specific Conductance (EC) | 1252 | | 0 | 0 | umhos/cm | Field | |
| Temperature | 24.35 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 860 | | 10 | 10 | mg/L | SM 2540C-1997 | |
| Turbidity | 5.1 | | 0 | 0 | NTU | Field | |
| Water Elevation | 41.88 | | | | Ft | Field | |

**Client ID: MW-1** **Lab ID: A504104-03RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Sulfate | 200 | | 0.26 | 20 | mg/L | EPA 300.0 | |

**Client ID: MW-8** **Lab ID: A504104-04**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 4.8 | | 0.036 | 0.10 | mg/L | EPA 350.1 | |
| Arsenic - Total | 8.47 | I | 8.00 | 10.0 | ug/L | EPA 6010C | |
| Chloride | 39 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| cis-1,2-Dichloroethene | 0.79 | I | 0.53 | 1.0 | ug/L | EPA 8260B | |
| Dissolved Oxygen | 0.48 | | 0 | 0 | mg/L | Field | |
| Iron - Total | 15400 | V | 6.00 | 50.0 | ug/L | EPA 6010C | QB-01 |
| Nitrate as N | 0.60 | I | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| pH | 6.36 | | | | pH Units | Field | |
| Sodium - Total | 35.6 | | 0.320 | 1.00 | mg/L | EPA 6020A | |
| Specific Conductance (EC) | 1205 | | 0 | 0 | umhos/cm | Field | |
| Sulfate | 1.3 | I | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Temperature | 25.2 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 710 | | 10 | 10 | mg/L | SM 2540C-1997 | |
| Turbidity | 2.6 | | 0 | 0 | NTU | Field | |
| Water Elevation | 41.77 | | | | Ft | Field | |

# SAMPLE DETECTION SUMMARY

**Client ID: MW-6** **Lab ID: A504104-05**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Chloride | 1.7 | I | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Dissolved Oxygen | 0.5 | | 0 | 0 | mg/L | Field | |
| Mercury - Total | 0.0350 | I | 0.0230 | 0.200 | ug/L | EPA 7470A | |
| Nitrate as N | 1.0 | | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| pH | 6.55 | | | | pH Units | Field | |
| Sodium - Total | 3.43 | | 0.320 | 1.00 | mg/L | EPA 6020A | |
| Specific Conductance (EC) | 736 | | 0 | 0 | umhos/cm | Field | |
| Sulfate | 12 | | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Temperature | 23.58 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 450 | | 10 | 10 | mg/L | SM 2540C-1997 | |
| Turbidity | 1.8 | | 0 | 0 | NTU | Field | |
| Water Elevation | 41.97 | | | | Ft | Field | |

**Client ID: MW-6** **Lab ID: A504104-05RE1**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Iron - Total | 8.12 | I | 6.00 | 50.0 | ug/L | EPA 6010C | |

**Client ID: DUPLICATE** **Lab ID: A504104-06**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Chloride | 1.7 | I | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Mercury - Total | 0.0342 | I | 0.0230 | 0.200 | ug/L | EPA 7470A | |
| Nitrate as N | 1.0 | | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| Sodium - Total | 3.53 | | 0.320 | 1.00 | mg/L | EPA 6020A | |
| Sulfate | 12 | | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Total Dissolved Solids | 450 | | 10 | 10 | mg/L | SM 2540C-1997 | |

**Client ID: MW-5** **Lab ID: A504104-07**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.9 | | 0.015 | 0.040 | mg/L | EPA 350.1 | |
| Chloride | 37 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Dissolved Oxygen | 0.41 | | 0 | 0 | mg/L | Field | |
| Iron - Total | 33900 | V | 6.00 | 50.0 | ug/L | EPA 6010C | QB-01 |
| Nitrate as N | 0.73 | I | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| pH | 6.34 | | | | pH Units | Field | |
| Sodium - Total | 28.8 | | 0.320 | 1.00 | mg/L | EPA 6020A | |
| Specific Conductance (EC) | 1447 | | 0 | 0 | umhos/cm | Field | |
| Sulfate | 22 | | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Temperature | 26.92 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 820 | | 10 | 10 | mg/L | SM 2540C-1997 | |
| Turbidity | 1.6 | | 0 | 0 | NTU | Field | |
| Water Elevation | 41.77 | | | | Ft | Field | |

**Client ID: MW-7** **Lab ID: A504104-08**

| Analyte | Results | Flag | MDL | PQL | Units | Method | Notes |
|---|---|---|---|---|---|---|---|
| Aluminum - Total | 209 | | 68.0 | 100 | ug/L | EPA 6020A | |
| Ammonia as N | 0.0086 | I | 0.0073 | 0.020 | mg/L | EPA 350.1 | |
| Chloride | 9.8 | | 0.29 | 5.0 | mg/L | EPA 300.0 | |
| Dissolved Oxygen | 0.54 | | 0 | 0 | mg/L | Field | |
| Iron - Total | 3130 | V | 6.00 | 50.0 | ug/L | EPA 6010C | QB-01 |
| Nitrate as N | 1.7 | | 0.052 | 1.0 | mg/L | EPA 300.0 | |
| pH | 6.2 | | | | pH Units | Field | |
| Sodium - Total | 11.2 | | 0.320 | 1.00 | mg/L | EPA 6020A | |
| Specific Conductance (EC) | 980 | | 0 | 0 | umhos/cm | Field | |
| Sulfate | 83 | | 0.07 | 5.0 | mg/L | EPA 300.0 | |
| Temperature | 24.6 | | 0 | 0 | °C | Field | |
| Total Dissolved Solids | 640 | | 10 | 10 | mg/L | SM 2540C-1997 | |
| Turbidity | 9.5 | | 0 | 0 | NTU | Field | |
| Water Elevation | 41.95 | | | | Ft | Field | |

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## ANALYTICAL RESULTS

**Description:** MW-9 **Lab Sample ID:** A504104-01 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 09:13 **Work Order:** A504104

**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 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 13:39 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *48* | *1* | *50.0* | *97 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 13:39* | *KKW* | |
| *Dibromofluoromethane* | *54* | *1* | *50.0* | *108 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 13:39* | *KKW* | |
| *Toluene-d8* | *54* | *1* | *50.0* | *108 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 13:39* | *KKW* | |

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# ANALYTICAL RESULTS

**Description:** MW-9 **Lab Sample ID:** A504104-01 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 09:13 **Work Order:** A504104

**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 | 5G20015 | EPA 7470A | 07/22/15 08:42 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5]^ | 68.0 | U | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 12:22 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 12:22 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 12:22 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 12:22 | JMA | |
| **Sodium [7440-23-5]^** | **11.3** | | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 12:22 | 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]^ | 0.0073 | U | mg/L | 1 | 0.0073 | 0.020 | 5G22020 | EPA 350.1 | 07/22/15 11:44 | KGonz | |
| **Chloride [16887-00-6]^** | **20** | | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 14:11 | RAlfo | |
| **Nitrate as N [14797-55-8]^** | **0.53** | I | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 14:11 | RAlfo | |
| **Sulfate [14808-79-8]^** | **73** | | mg/L | 1 | 0.07 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 14:11 | RAlfo | |
| **Total Dissolved Solids^** | **570** | | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dissolved Oxygen** | **0.9** | | mg/L | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:13 | MCC | |
| **pH** | **6.5** | | pH Units | 1 | | | 5G31015 | Field | 07/17/15 09:13 | MCC | |
| **Specific Conductance (EC)** | **891** | | umhos/cm | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:13 | MCC | |
| **Temperature** | **23.04** | | °C | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:13 | MCC | |
| **Turbidity** | **4.2** | | NTU | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:13 | MCC | |
| **Water Elevation** | **41.64** | | Ft | 1 | | | 5G31015 | Field | 07/17/15 09:13 | MCC | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic [7440-38-2]^ | 8.00 | U | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:17 | ACV | |
| **Iron [7439-89-6]^** | **13.2** | I | ug/L | 1 | 6.00 | 50.0 | 5G24004 | EPA 6010C | 07/27/15 11:11 | ACV | |

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## ANALYTICAL RESULTS

**Description:** EQUIPMENT BLANK
**Matrix:** Ground Water
**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING

**Lab Sample ID:** A504104-02
**Sampled:** 07/17/15 09:23
**Sampled By:** Chris Monaco

**Received:** 07/18/15 11:37
**Work Order:** A504104

## 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 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 14:14 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *49* | *1* | *50.0* | *98 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 14:14* | *KKW* | |
| *Dibromofluoromethane* | *54* | *1* | *50.0* | *107 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 14:14* | *KKW* | |
| *Toluene-d8* | *55* | *1* | *50.0* | *109 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 14:14* | *KKW* | |

# ANALYTICAL RESULTS

**Description:** EQUIPMENT BLANK
**Matrix:** Ground Water
**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING

**Lab Sample ID:** A504104-02
**Sampled:** 07/17/15 09:23
**Sampled By:** Chris Monaco

**Received:** 07/18/15 11:37
**Work Order:** A504104

## 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 | 5G20015 | EPA 7470A | 07/22/15 09:08 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5]^ | 68.0 | U | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 12:16 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 12:16 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 12:16 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 12:16 | JMA | |
| Sodium [7440-23-5]^ | 0.320 | U | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 12:16 | 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]^ | 0.0073 | U | mg/L | 1 | 0.0073 | 0.020 | 5G22020 | EPA 350.1 | 07/22/15 11:45 | KGonz | |
| Chloride [16887-00-6]^ | 0.29 | U | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 14:27 | RAlfo | |
| Nitrate as N [14797-55-8]^ | 0.052 | U | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 14:27 | RAlfo | |
| Sulfate [14808-79-8]^ | 0.07 | U | mg/L | 1 | 0.07 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 14:27 | RAlfo | |
| Total Dissolved Solids^ | 10 | U | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic [7440-38-2]^ | 8.00 | U | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:19 | ACV | |
| Iron [7439-89-6]^ | 6.00 | U | ug/L | 1 | 6.00 | 50.0 | 5G23013 | EPA 6010C | 07/24/15 12:19 | ACV | |

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## ANALYTICAL RESULTS

**Description:** MW-1 **Lab Sample ID:** A504104-03 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 09:37 **Work Order:** A504104

**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 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 14:49 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *50* | *1* | *50.0* | *100 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 14:49* | *KKW* | |
| *Dibromofluoromethane* | *55* | *1* | *50.0* | *110 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 14:49* | *KKW* | |
| *Toluene-d8* | *57* | *1* | *50.0* | *114 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 14:49* | *KKW* | |

# ANALYTICAL RESULTS

**Description:** MW-1 **Lab Sample ID:** A504104-03 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 09:37 **Work Order:** A504104

**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 | 5G20015 | EPA 7470A | 07/22/15 09:11 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5]^ | 68.0 | U | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 12:46 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 12:46 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 12:46 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 12:46 | JMA | |
| **Sodium [7440-23-5]^** | **30.2** | | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 12:46 | 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]^** | **2.9** | | mg/L | 2 | 0.015 | 0.040 | 5G22020 | EPA 350.1 | 07/22/15 12:16 | KGonz | |
| **Chloride [16887-00-6]^** | **21** | | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 14:43 | RAlfo | |
| **Nitrate as N [14797-55-8]^** | **0.35** | I | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 14:43 | RAlfo | |
| **Sulfate [14808-79-8]^** | **200** | | mg/L | 4 | 0.26 | 20 | 5G20030 | EPA 300.0 | 07/20/15 18:35 | RAlfo | |
| **Total Dissolved Solids^** | **860** | | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dissolved Oxygen** | **0.44** | | mg/L | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:37 | MCC | |
| **pH** | **6.48** | | pH Units | 1 | | | 5G31015 | Field | 07/17/15 09:37 | MCC | |
| **Specific Conductance (EC)** | **1252** | | umhos/cm | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:37 | MCC | |
| **Temperature** | **24.35** | | °C | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:37 | MCC | |
| **Turbidity** | **5.1** | | NTU | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 09:37 | MCC | |
| **Water Elevation** | **41.88** | | Ft | 1 | | | 5G31015 | Field | 07/17/15 09:37 | MCC | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Arsenic [7440-38-2]^** | **15.1** | | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:21 | ACV | |
| **Iron [7439-89-6]^** | **7590** | V | ug/L | 1 | 6.00 | 50.0 | 5G23013 | EPA 6010C | 07/24/15 12:21 | ACV | QB-01 |

## ANALYTICAL RESULTS

**Description:** MW-8 **Lab Sample ID:** A504104-04 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 10:12 **Work Order:** A504104

**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 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| **cis-1,2-Dichloroethene [156-59-2]^** | **0.79** | I | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 15:24 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *48* | *1* | *50.0* | *97 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 15:24* | *KKW* | |
| *Dibromofluoromethane* | *52* | *1* | *50.0* | *103 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 15:24* | *KKW* | |
| *Toluene-d8* | *54* | *1* | *50.0* | *109 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 15:24* | *KKW* | |

# ANALYTICAL RESULTS

**Description:** MW-8 **Lab Sample ID:** A504104-04 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 10:12 **Work Order:** A504104

**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 | 5G20015 | EPA 7470A | 07/22/15 09:14 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5]^ | 68.0 | U | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 12:48 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 12:48 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 12:48 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 12:48 | JMA | |
| **Sodium [7440-23-5]^** | **35.6** | | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 12:48 | 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]^** | **4.8** | | mg/L | 5 | 0.036 | 0.10 | 5G22020 | EPA 350.1 | 07/22/15 12:17 | KGonz | |
| **Chloride [16887-00-6]^** | **39** | | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 14:59 | RAlfo | |
| **Nitrate as N [14797-55-8]^** | **0.60** | I | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 14:59 | RAlfo | |
| **Sulfate [14808-79-8]^** | **1.3** | I | mg/L | 1 | 0.07 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 14:59 | RAlfo | |
| **Total Dissolved Solids^** | **710** | | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dissolved Oxygen** | **0.48** | | mg/L | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:12 | MCC | |
| **pH** | **6.36** | | pH Units | 1 | | | 5G31015 | Field | 07/17/15 10:12 | MCC | |
| **Specific Conductance (EC)** | **1205** | | umhos/cm | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:12 | MCC | |
| **Temperature** | **25.2** | | °C | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:12 | MCC | |
| **Turbidity** | **2.6** | | NTU | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:12 | MCC | |
| **Water Elevation** | **41.77** | | Ft | 1 | | | 5G31015 | Field | 07/17/15 10:12 | MCC | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Arsenic [7440-38-2]^** | **8.47** | I | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:22 | ACV | |
| **Iron [7439-89-6]^** | **15400** | V | ug/L | 1 | 6.00 | 50.0 | 5G23013 | EPA 6010C | 07/24/15 12:22 | ACV | QB-01 |

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## ANALYTICAL RESULTS

**Description:** MW-6 **Lab Sample ID:** A504104-05 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 10:45 **Work Order:** A504104

**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 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 15:58 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *49* | *1* | *50.0* | *99 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 15:58* | *KKW* | |
| *Dibromofluoromethane* | *54* | *1* | *50.0* | *108 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 15:58* | *KKW* | |
| *Toluene-d8* | *56* | *1* | *50.0* | *113 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 15:58* | *KKW* | |

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# ANALYTICAL RESULTS

**Description:** MW-6 **Lab Sample ID:** A504104-05 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 10:45 **Work Order:** A504104

**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]^** | **0.0350** | I | ug/L | 1 | 0.0230 | 0.200 | 5G20015 | EPA 7470A | 07/22/15 09:17 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5]^ | 68.0 | U | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 12:51 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 12:51 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 12:51 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 12:51 | JMA | |
| **Sodium [7440-23-5]^** | **3.43** | | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 12:51 | 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]^ | 0.0073 | U | mg/L | 1 | 0.0073 | 0.020 | 5G22020 | EPA 350.1 | 07/22/15 11:50 | KGonz | |
| **Chloride [16887-00-6]^** | **1.7** | I | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 15:14 | RAlfo | |
| **Nitrate as N [14797-55-8]^** | **1.0** | | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 15:14 | RAlfo | |
| **Sulfate [14808-79-8]^** | **12** | | mg/L | 1 | 0.07 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 15:14 | RAlfo | |
| **Total Dissolved Solids^** | **450** | | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dissolved Oxygen** | **0.5** | | mg/L | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:45 | MCC | |
| **pH** | **6.55** | | pH Units | 1 | | | 5G31015 | Field | 07/17/15 10:45 | MCC | |
| **Specific Conductance (EC)** | **736** | | umhos/cm | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:45 | MCC | |
| **Temperature** | **23.58** | | °C | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:45 | MCC | |
| **Turbidity** | **1.8** | | NTU | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 10:45 | MCC | |
| **Water Elevation** | **41.97** | | Ft | 1 | | | 5G31015 | Field | 07/17/15 10:45 | MCC | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic [7440-38-2]^ | 8.00 | U | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:25 | ACV | |
| **Iron [7439-89-6]^** | **8.12** | I | ug/L | 1 | 6.00 | 50.0 | 5G24004 | EPA 6010C | 07/27/15 11:13 | ACV | |

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## ANALYTICAL RESULTS

**Description:** DUPLICATE
**Lab Sample ID:** A504104-06
**Received:** 07/18/15 11:37
**Matrix:** Ground Water
**Sampled:** 07/17/15 10:45
**Work Order:** A504104
**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 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 16:33 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *50* | *1* | *50.0* | *100 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 16:33* | *KKW* | |
| *Dibromofluoromethane* | *54* | *1* | *50.0* | *108 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 16:33* | *KKW* | |
| *Toluene-d8* | *56* | *1* | *50.0* | *112 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 16:33* | *KKW* | |

# ANALYTICAL RESULTS

**Description:** DUPLICATE
**Matrix:** Ground Water
**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING

**Lab Sample ID:** A504104-06
**Sampled:** 07/17/15 10:45
**Sampled By:** Chris Monaco

**Received:** 07/18/15 11:37
**Work Order:** A504104

## 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]^** | **0.0342** | I | ug/L | 1 | 0.0230 | 0.200 | 5G20015 | EPA 7470A | 07/22/15 09:20 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5]^ | 68.0 | U | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 12:54 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 12:54 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 12:54 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 12:54 | JMA | |
| **Sodium [7440-23-5]^** | **3.53** | | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 12:54 | 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]^ | 0.0073 | U | mg/L | 1 | 0.0073 | 0.020 | 5G22020 | EPA 350.1 | 07/22/15 11:51 | KGonz | |
| **Chloride [16887-00-6]^** | **1.7** | I | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 15:30 | RAlfo | |
| **Nitrate as N [14797-55-8]^** | **1.0** | | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 15:30 | RAlfo | |
| **Sulfate [14808-79-8]^** | **12** | | mg/L | 1 | 0.07 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 15:30 | RAlfo | |
| **Total Dissolved Solids^** | **450** | | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic [7440-38-2]^ | 8.00 | U | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:27 | ACV | |
| Iron [7439-89-6]^ | 6.00 | U | ug/L | 1 | 6.00 | 50.0 | 5G23013 | EPA 6010C | 07/24/15 12:27 | ACV | |

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## ANALYTICAL RESULTS

**Description:** MW-5 **Lab Sample ID:** A504104-07 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 11:20 **Work Order:** A504104

**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 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 17:08 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *49* | *1* | *50.0* | *99 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 17:08* | *KKW* | |
| *Dibromofluoromethane* | *53* | *1* | *50.0* | *107 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 17:08* | *KKW* | |
| *Toluene-d8* | *56* | *1* | *50.0* | *113 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 17:08* | *KKW* | |

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# ANALYTICAL RESULTS

**Description:** MW-5 **Lab Sample ID:** A504104-07 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 11:20 **Work Order:** A504104

**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 | 5G20015 | EPA 7470A | 07/22/15 09:23 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum [7429-90-5]^ | 68.0 | U | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 12:57 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 12:57 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 12:57 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 12:57 | JMA | |
| **Sodium [7440-23-5]^** | **28.8** | | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 12:57 | 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]^** | **2.9** | | mg/L | 2 | 0.015 | 0.040 | 5G22020 | EPA 350.1 | 07/22/15 12:19 | KGonz | |
| **Chloride [16887-00-6]^** | **37** | | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 15:46 | RAlfo | |
| **Nitrate as N [14797-55-8]^** | **0.73** | I | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 15:46 | RAlfo | |
| **Sulfate [14808-79-8]^** | **22** | | mg/L | 1 | 0.07 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 15:46 | RAlfo | |
| **Total Dissolved Solids^** | **820** | | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dissolved Oxygen** | **0.41** | | mg/L | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:20 | MCC | |
| **pH** | **6.34** | | pH Units | 1 | | | 5G31015 | Field | 07/17/15 11:20 | MCC | |
| **Specific Conductance (EC)** | **1447** | | umhos/cm | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:20 | MCC | |
| **Temperature** | **26.92** | | °C | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:20 | MCC | |
| **Turbidity** | **1.6** | | NTU | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:20 | MCC | |
| **Water Elevation** | **41.77** | | Ft | 1 | | | 5G31015 | Field | 07/17/15 11:20 | MCC | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic [7440-38-2]^ | 8.00 | U | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:29 | ACV | |
| **Iron [7439-89-6]^** | **33900** | V | ug/L | 1 | 6.00 | 50.0 | 5G23013 | EPA 6010C | 07/24/15 12:29 | ACV | QB-01 |

## ANALYTICAL RESULTS

**Description:** MW-7 **Lab Sample ID:** A504104-08 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 11:44 **Work Order:** A504104

**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 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 17:43 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *48* | *1* | *50.0* | *97 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 17:43* | *KKW* | |
| *Dibromofluoromethane* | *54* | *1* | *50.0* | *108 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 17:43* | *KKW* | |
| *Toluene-d8* | *57* | *1* | *50.0* | *113 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 17:43* | *KKW* | |

# ANALYTICAL RESULTS

**Description:** MW-7 **Lab Sample ID:** A504104-08 **Received:** 07/18/15 11:37

**Matrix:** Ground Water **Sampled:** 07/17/15 11:44 **Work Order:** A504104

**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 | 5G20015 | EPA 7470A | 07/22/15 09:32 | JMA | |

## Metals (total recoverable) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Aluminum [7429-90-5]^** | **209** | | ug/L | 1 | 68.0 | 100 | 5G20047 | EPA 6020A | 07/21/15 13:00 | JMA | |
| Cadmium [7440-43-9]^ | 1.10 | U | ug/L | 1 | 1.10 | 3.00 | 5G20047 | EPA 6020A | 07/21/15 13:00 | JMA | |
| Chromium [7440-47-3]^ | 4.50 | U | ug/L | 1 | 4.50 | 10.0 | 5G20047 | EPA 6020A | 07/21/15 13:00 | JMA | |
| Lead [7439-92-1]^ | 1.60 | U | ug/L | 1 | 1.60 | 5.00 | 5G20047 | EPA 6020A | 07/21/15 13:00 | JMA | |
| **Sodium [7440-23-5]^** | **11.2** | | mg/L | 1 | 0.320 | 1.00 | 5G20047 | EPA 6020A | 07/21/15 13:00 | 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]^** | **0.0086** | I | mg/L | 1 | 0.0073 | 0.020 | 5G22020 | EPA 350.1 | 07/22/15 11:53 | KGonz | |
| **Chloride [16887-00-6]^** | **9.8** | | mg/L | 1 | 0.29 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 16:02 | RAlfo | |
| **Nitrate as N [14797-55-8]^** | **1.7** | | mg/L | 1 | 0.052 | 1.0 | 5G18003 | EPA 300.0 | 07/18/15 16:02 | RAlfo | |
| **Sulfate [14808-79-8]^** | **83** | | mg/L | 1 | 0.07 | 5.0 | 5G18003 | EPA 300.0 | 07/18/15 16:02 | RAlfo | |
| **Total Dissolved Solids^** | **640** | | mg/L | 1 | 10 | 10 | 5G22033 | SM 2540C-1997 | 07/23/15 21:21 | AH | |

## Field Parameters

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dissolved Oxygen** | **0.54** | | mg/L | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:44 | MCC | |
| **pH** | **6.2** | | pH Units | 1 | | | 5G31015 | Field | 07/17/15 11:44 | MCC | |
| **Specific Conductance (EC)** | **980** | | umhos/cm | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:44 | MCC | |
| **Temperature** | **24.6** | | °C | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:44 | MCC | |
| **Turbidity** | **9.5** | | NTU | 1 | 0 | 0 | 5G31015 | Field | 07/17/15 11:44 | MCC | |
| **Water Elevation** | **41.95** | | Ft | 1 | | | 5G31015 | Field | 07/17/15 11:44 | MCC | |

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

*^ - ENCO Jacksonville certified analyte [NELAC E82277]*

| Analyte [CAS Number] | Results | Flag | Units | DF | MDL | PQL | Batch | Method | Analyzed | By | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic [7440-38-2]^ | 8.00 | U | ug/L | 1 | 8.00 | 10.0 | 5G23013 | EPA 6010C | 07/24/15 12:35 | ACV | |
| **Iron [7439-89-6]^** | **3130** | V | ug/L | 1 | 6.00 | 50.0 | 5G23013 | EPA 6010C | 07/24/15 12:35 | ACV | QB-01 |

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## ANALYTICAL RESULTS

**Description:** TRIP BLANK | **Lab Sample ID:** A504104-09 | **Received:** 07/18/15 11:37

**Matrix:** Ground Water | **Sampled:** 07/17/15 00:00 | **Work Order:** A504104

**Project:** FRIENDS RECYCLING FORMERLY OCALA RECYCLING | **Sampled By:** ENCO

## 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 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,1,2,2-Tetrachloroethane [79-34-5]^ | 0.54 | U | ug/L | 1 | 0.54 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,1,2-Trichloroethane [79-00-5]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,1-Dichloroethane [75-34-3]^ | 0.62 | U | ug/L | 1 | 0.62 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,1-Dichloroethene [75-35-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,2-Dichlorobenzene [95-50-1]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,2-Dichloroethane [107-06-2]^ | 0.63 | U | ug/L | 1 | 0.63 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,2-Dichloropropane [78-87-5]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,3-Dichlorobenzene [541-73-1]^ | 0.77 | U | ug/L | 1 | 0.77 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 1,4-Dichlorobenzene [106-46-7]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| 2-Chloroethyl Vinyl Ether [110-75-8]^ | 1.9 | U | ug/L | 1 | 1.9 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Benzene [71-43-2]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Bromodichloromethane [75-27-4]^ | 0.52 | U | ug/L | 1 | 0.52 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Bromoform [75-25-2]^ | 0.75 | U | ug/L | 1 | 0.75 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Bromomethane [74-83-9]^ | 0.95 | U | ug/L | 1 | 0.95 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Carbon tetrachloride [56-23-5]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Chlorobenzene [108-90-7]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Chloroethane [75-00-3]^ | 0.98 | U | ug/L | 1 | 0.98 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Chloroform [67-66-3]^ | 0.80 | U | ug/L | 1 | 0.80 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Chloromethane [74-87-3]^ | 0.82 | U | ug/L | 1 | 0.82 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| cis-1,2-Dichloroethene [156-59-2]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| cis-1,3-Dichloropropene [10061-01-5]^ | 0.59 | U | ug/L | 1 | 0.59 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Dibromochloromethane [124-48-1]^ | 0.44 | U | ug/L | 1 | 0.44 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Dichlorodifluoromethane [75-71-8]^ | 0.74 | U | ug/L | 1 | 0.74 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Ethylbenzene [100-41-4]^ | 0.69 | U | ug/L | 1 | 0.69 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| m,p-Xylenes [108-38-3/106-42-3]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Methylene chloride [75-09-2]^ | 2.0 | U | ug/L | 1 | 2.0 | 5.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Methyl-tert-Butyl Ether [1634-04-4]^ | 0.60 | U | ug/L | 1 | 0.60 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| o-Xylene [95-47-6]^ | 0.53 | U | ug/L | 1 | 0.53 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Tetrachloroethene [127-18-4]^ | 0.76 | U | ug/L | 1 | 0.76 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Toluene [108-88-3]^ | 0.72 | U | ug/L | 1 | 0.72 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| trans-1,2-Dichloroethene [156-60-5]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| trans-1,3-Dichloropropene [10061-02-6]^ | 0.73 | U | ug/L | 1 | 0.73 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Trichloroethene [79-01-6]^ | 0.89 | U | ug/L | 1 | 0.89 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Trichlorofluoromethane [75-69-4]^ | 0.94 | U | ug/L | 1 | 0.94 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Vinyl chloride [75-01-4]^ | 0.71 | U | ug/L | 1 | 0.71 | 1.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |
| Xylenes (Total) [1330-20-7]^ | 1.3 | U | ug/L | 1 | 1.3 | 2.0 | 5G23013 | EPA 8260B | 07/23/15 18:17 | KKW | |

| *Surrogates* | *Results* | *DF* | *Spike Lvl* | *% Rec* | *% Rec Limits* | *Batch* | *Method* | *Analyzed* | *By* | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *48* | *1* | *50.0* | *96 %* | *41-142* | *5G23013* | *EPA 8260B* | *07/23/15 18:17* | *KKW* | |
| *Dibromofluoromethane* | *53* | *1* | *50.0* | *106 %* | *53-146* | *5G23013* | *EPA 8260B* | *07/23/15 18:17* | *KKW* | |
| *Toluene-d8* | *55* | *1* | *50.0* | *109 %* | *41-146* | *5G23013* | *EPA 8260B* | *07/23/15 18:17* | *KKW* | |

## QUALITY CONTROL DATA

### Volatile Organic Compounds by GCMS - Quality Control

***Batch 5G23013 - EPA 5030B_MS***

**Blank (5G23013-BLK1)** Prepared: 07/23/2015 00:00 Analyzed: 07/23/2015 09:38

| 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* | *51* | | | *ug/L* | *50.0* | | *103* | *41-142* | | | |
| *Dibromofluoromethane* | *51* | | | *ug/L* | *50.0* | | *102* | *53-146* | | | |
| *Toluene-d8* | *55* | | | *ug/L* | *50.0* | | *109* | *41-146* | | | |

**LCS (5G23013-BS1)** Prepared: 07/23/2015 00:00 Analyzed: 07/23/2015 09:03

| 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 | | 92 | 47-139 | | | |
| Benzene | 21 | | 1.0 | ug/L | 20.0 | | 104 | 56-136 | | | |
| Chlorobenzene | 21 | | 1.0 | ug/L | 20.0 | | 103 | 51-139 | | | |
| Toluene | 20 | | 1.0 | ug/L | 20.0 | | 100 | 64-131 | | | |
| Trichloroethene | 19 | | 1.0 | ug/L | 20.0 | | 97 | 62-135 | | | |

## QUALITY CONTROL DATA

### Volatile Organic Compounds by GCMS - Quality Control

***Batch 5G23013 - EPA 5030B_MS - Continued***

**LCS (5G23013-BS1) Continued** Prepared: 07/23/2015 00:00 Analyzed: 07/23/2015 09:03

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *50* | | | *ug/L* | *50.0* | | *100* | *41-142* | | | |
| *Dibromofluoromethane* | *54* | | | *ug/L* | *50.0* | | *109* | *53-146* | | | |
| *Toluene-d8* | *54* | | | *ug/L* | *50.0* | | *107* | *41-146* | | | |

**Matrix Spike (5G23013-MS1)** Prepared: 07/23/2015 00:00 Analyzed: 07/23/2015 19:25

**Source: A504187-28**

| Analyte | Result | Flag | PQL | 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 | | | |
| Benzene | 24 | | 1.0 | ug/L | 20.0 | 0.71 U | 118 | 56-136 | | | |
| Chlorobenzene | 22 | | 1.0 | ug/L | 20.0 | 0.72 U | 111 | 51-139 | | | |
| Toluene | 21 | | 1.0 | ug/L | 20.0 | 0.72 U | 107 | 64-131 | | | |
| Trichloroethene | 23 | | 1.0 | ug/L | 20.0 | 0.89 U | 113 | 62-135 | | | |
| *4-Bromofluorobenzene* | *49* | | | *ug/L* | *50.0* | | *97* | *41-142* | | | |
| *Dibromofluoromethane* | *52* | | | *ug/L* | *50.0* | | *105* | *53-146* | | | |
| *Toluene-d8* | *56* | | | *ug/L* | *50.0* | | *112* | *41-146* | | | |

**Matrix Spike Dup (5G23013-MSD1)** Prepared: 07/23/2015 00:00 Analyzed: 07/23/2015 19:59

**Source: A504187-28**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 19 | | 1.0 | ug/L | 20.0 | 0.94 U | 97 | 47-139 | 6 | 16 | |
| Benzene | 23 | | 1.0 | ug/L | 20.0 | 0.71 U | 116 | 56-136 | 2 | 14 | |
| Chlorobenzene | 22 | | 1.0 | ug/L | 20.0 | 0.72 U | 109 | 51-139 | 2 | 13 | |
| Toluene | 21 | | 1.0 | ug/L | 20.0 | 0.72 U | 104 | 64-131 | 3 | 16 | |
| Trichloroethene | 23 | | 1.0 | ug/L | 20.0 | 0.89 U | 113 | 62-135 | 0.4 | 20 | |
| *4-Bromofluorobenzene* | *50* | | | *ug/L* | *50.0* | | *100* | *41-142* | | | |
| *Dibromofluoromethane* | *55* | | | *ug/L* | *50.0* | | *110* | *53-146* | | | |
| *Toluene-d8* | *58* | | | *ug/L* | *50.0* | | *116* | *41-146* | | | |

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

***Batch 5G20015 - EPA 7470A***

**Blank (5G20015-BLK1)** Prepared: 07/21/2015 14:05 Analyzed: 07/22/2015 08:33

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

**Blank (5G20015-BLK2)** Prepared: 07/21/2015 14:05 Analyzed: 07/22/2015 08:36

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.230 | U | 2.00 | ug/L | | | | | | | |

**LCS (5G20015-BS1)** Prepared: 07/21/2015 14:05 Analyzed: 07/22/2015 08:39

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 5.05 | | 0.200 | ug/L | 5.00 | | 101 | 80-120 | | | |

# QUALITY CONTROL DATA

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

### *Batch 5G20015 - EPA 7470A - Continued*

**Matrix Spike (5G20015-MS1)** Prepared: 07/21/2015 14:05 Analyzed: 07/22/2015 08:46

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.50 | | 0.200 | ug/L | 5.00 | 0.0230 U | 90 | 75-125 | | | |

**Matrix Spike Dup (5G20015-MSD1)** Prepared: 07/21/2015 14:05 Analyzed: 07/22/2015 08:55

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 4.43 | | 0.200 | ug/L | 5.00 | 0.0230 U | 89 | 75-125 | 2 | 20 | |

**Post Spike (5G20015-PS1)** Prepared: 07/22/2015 06:00 Analyzed: 07/22/2015 08:58

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 5.24 | | 0.200 | ug/L | 5.61 | 0.00758 | 93 | 80-120 | | | |

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

### *Batch 5G20047 - EPA 3005A*

**Blank (5G20047-BLK1)** Prepared: 07/21/2015 10:02 Analyzed: 07/21/2015 12:11

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 68.0 | U | 100 | ug/L | | | | | | | |
| Cadmium | 1.10 | U | 3.00 | ug/L | | | | | | | |
| Chromium | 4.50 | U | 10.0 | ug/L | | | | | | | |
| Lead | 1.60 | U | 5.00 | ug/L | | | | | | | |
| Sodium | 0.320 | U | 1.00 | mg/L | | | | | | | |

**Blank (5G20047-BLK2)** Prepared: 07/21/2015 10:02 Analyzed: 07/21/2015 12:13

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 6.80 | U | 10.0 | ug/L | | | | | | | |
| Cadmium | 0.110 | U | 0.300 | ug/L | | | | | | | |
| Chromium | 0.450 | U | 1.00 | ug/L | | | | | | | |
| Lead | 0.160 | U | 0.500 | ug/L | | | | | | | |
| Sodium | 0.0320 | U | 0.100 | mg/L | | | | | | | |

**LCS (5G20047-BS1)** Prepared: 07/21/2015 10:02 Analyzed: 07/21/2015 12:19

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1110 | | 100 | ug/L | 1000 | | 111 | 80-120 | | | |
| Cadmium | 48.7 | | 3.00 | ug/L | 50.0 | | 97 | 80-120 | | | |
| Chromium | 538 | | 10.0 | ug/L | 500 | | 108 | 80-120 | | | |
| Lead | 527 | | 5.00 | ug/L | 500 | | 105 | 80-120 | | | |
| Sodium | 26.1 | | 1.00 | mg/L | 25.0 | | 104 | 80-120 | | | |

**Matrix Spike (5G20047-MS1)** Prepared: 07/21/2015 10:02 Analyzed: 07/21/2015 12:25

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1120 | | 100 | ug/L | 1000 | 68.0 U | 112 | 75-125 | | | |
| Cadmium | 48.3 | | 3.00 | ug/L | 50.0 | 1.10 U | 97 | 75-125 | | | |

# QUALITY CONTROL DATA

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

### *Batch 5G20047 - EPA 3005A - Continued*

**Matrix Spike (5G20047-MS1) Continued** Prepared: 07/21/2015 10:02 Analyzed: 07/21/2015 12:25

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | 533 | | 10.0 | ug/L | 500 | 4.50 U | 107 | 75-125 | | | |
| Lead | 516 | | 5.00 | ug/L | 500 | 1.60 U | 103 | 75-125 | | | |
| Sodium | 37.6 | | 1.00 | mg/L | 25.0 | 11.3 | 105 | 75-125 | | | |

**Matrix Spike Dup (5G20047-MSD1)** Prepared: 07/21/2015 10:02 Analyzed: 07/21/2015 12:27

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1120 | | 100 | ug/L | 1000 | 68.0 U | 112 | 75-125 | 0.2 | 20 | |
| Cadmium | 48.6 | | 3.00 | ug/L | 50.0 | 1.10 U | 97 | 75-125 | 0.7 | 20 | |
| Chromium | 538 | | 10.0 | ug/L | 500 | 4.50 U | 108 | 75-125 | 1 | 20 | |
| Lead | 511 | | 5.00 | ug/L | 500 | 1.60 U | 102 | 75-125 | 0.9 | 20 | |
| Sodium | 37.4 | | 1.00 | mg/L | 25.0 | 11.3 | 104 | 75-125 | 0.4 | 20 | |

**Post Spike (5G20047-PS1)** Prepared: 07/21/2015 12:20 Analyzed: 07/21/2015 12:30

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 108 | | 10.0 | ug/L | 98.0 | 5.18 | 105 | 80-120 | | | |
| Cadmium | 4.63 | | 0.300 | ug/L | 4.90 | -0.000196 | 95 | 80-120 | | | |
| Chromium | 50.6 | | 1.00 | ug/L | 49.0 | 0.0412 | 103 | 80-120 | | | |
| Lead | 49.1 | | 0.500 | ug/L | 49.0 | -0.0348 | 100 | 80-120 | | | |
| Sodium | 3540 | | 100 | ug/L | 2450 | 1110 | 99 | 80-120 | | | |

## Classical Chemistry Parameters - Quality Control

### *Batch 5G18003 - NO PREP*

**Blank (5G18003-BLK1)** Prepared: 07/18/2015 10:40 Analyzed: 07/18/2015 10:56

| 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 (5G18003-BS1)** Prepared: 07/18/2015 10:40 Analyzed: 07/18/2015 11:11

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 54 | | 5.0 | mg/L | 50.0 | | 107 | 90-110 | | | |
| Nitrate as N | 10 | | 1.0 | mg/L | 10.0 | | 104 | 90-110 | | | |
| Sulfate | 51 | | 5.0 | mg/L | 50.0 | | 103 | 90-110 | | | |

**LCS Dup (5G18003-BSD1)** Prepared: 07/18/2015 10:40 Analyzed: 07/18/2015 16:49

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 54 | | 5.0 | mg/L | 50.0 | | 107 | 90-110 | 0.2 | 10 | |
| Nitrate as N | 10 | | 1.0 | mg/L | 10.0 | | 103 | 90-110 | 0.7 | 10 | |
| Sulfate | 52 | | 5.0 | mg/L | 50.0 | | 105 | 90-110 | 2 | 10 | |

# QUALITY CONTROL DATA

## Classical Chemistry Parameters - Quality Control

### *Batch 5G18003 - NO PREP - Continued*

**Matrix Spike (5G18003-MS1)** Prepared: 07/18/2015 10:40 Analyzed: 07/18/2015 12:37

**Source: A504104-05**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 53 | | 5.0 | mg/L | 50.0 | 1.7 | 103 | 90-110 | | | |
| Nitrate as N | 11 | | 1.0 | mg/L | 10.0 | 1.0 | 99 | 90-110 | | | |
| Sulfate | 62 | | 5.0 | mg/L | 50.0 | 12 | 101 | 90-110 | | | |

**Matrix Spike (5G18003-MS2)** Prepared: 07/18/2015 10:40 Analyzed: 07/18/2015 13:08

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 73 | | 5.0 | mg/L | 50.0 | 20 | 106 | 90-110 | | | |
| Nitrate as N | 10 | | 1.0 | mg/L | 10.0 | 0.53 | 100 | 90-110 | | | |
| Sulfate | 120 | L | 5.0 | mg/L | 50.0 | 73 | 92 | 90-110 | | | E |

**Matrix Spike Dup (5G18003-MSD1)** Prepared: 07/18/2015 10:40 Analyzed: 07/18/2015 12:53

**Source: A504104-05**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 57 | | 5.0 | mg/L | 50.0 | 1.7 | 110 | 90-110 | 7 | 10 | |
| Nitrate as N | 12 | | 1.0 | mg/L | 10.0 | 1.0 | 106 | 90-110 | 6 | 10 | |
| Sulfate | 66 | | 5.0 | mg/L | 50.0 | 12 | 108 | 90-110 | 5 | 10 | |

**Matrix Spike Dup (5G18003-MSD2)** Prepared: 07/18/2015 10:40 Analyzed: 07/18/2015 13:24

**Source: A504104-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 74 | | 5.0 | mg/L | 50.0 | 20 | 108 | 90-110 | 1 | 10 | |
| Nitrate as N | 11 | | 1.0 | mg/L | 10.0 | 0.53 | 101 | 90-110 | 2 | 10 | |
| Sulfate | 120 | L | 5.0 | mg/L | 50.0 | 73 | 94 | 90-110 | 0.9 | 10 | E |

### *Batch 5G20030 - NO PREP*

**Blank (5G20030-BLK1)** Prepared: 07/20/2015 10:42 Analyzed: 07/20/2015 11:55

| 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 (5G20030-BS1)** Prepared: 07/20/2015 10:42 Analyzed: 07/20/2015 12:11

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 51 | | 5.0 | mg/L | 50.0 | | 103 | 90-110 | | | |

**LCS Dup (5G20030-BSD1)** Prepared: 07/20/2015 10:42 Analyzed: 07/21/2015 00:30

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 53 | | 5.0 | mg/L | 50.0 | | 106 | 90-110 | 4 | 10 | |

**Matrix Spike (5G20030-MS2)** Prepared: 07/20/2015 14:00 Analyzed: 07/20/2015 21:20

**Source: A504359-02**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 110 | L | 5.0 | mg/L | 50.0 | 65 | 95 | 90-110 | | | E |

# QUALITY CONTROL DATA

## Classical Chemistry Parameters - Quality Control

### *Batch 5G20030 - NO PREP - Continued*

**Matrix Spike (5G20030-MS3)** Prepared: 07/20/2015 14:00 Analyzed: 07/20/2015 21:52

**Source: A504361-01RE1**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 110 | | 10 | mg/L | 50.0 | 52 | 110 | 90-110 | | | |

**Matrix Spike Dup (5G20030-MSD2)** Prepared: 07/20/2015 14:00 Analyzed: 07/20/2015 21:36

**Source: A504359-02**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 110 | L | 5.0 | mg/L | 50.0 | 65 | 98 | 90-110 | 1 | 10 | E |

**Matrix Spike Dup (5G20030-MSD3)** Prepared: 07/20/2015 14:00 Analyzed: 07/20/2015 22:08

**Source: A504361-01RE1**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 110 | | 10 | mg/L | 50.0 | 52 | 109 | 90-110 | 0.6 | 10 | |

### *Batch 5G22020 - NO PREP*

**Blank (5G22020-BLK1)** Prepared: 07/22/2015 09:36 Analyzed: 07/22/2015 11:39

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 0.0073 | U | 0.020 | mg/L | | | | | | | |

**LCS (5G22020-BS1)** Prepared: 07/22/2015 09:36 Analyzed: 07/22/2015 11:43

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 1.1 | | 0.020 | mg/L | 1.00 | | 107 | 90-110 | | | |

**Matrix Spike (5G22020-MS1)** Prepared: 07/22/2015 09:36 Analyzed: 07/22/2015 12:26

**Source: A504500-02**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 1.1 | | 0.020 | mg/L | 1.00 | 0.0073 U | 106 | 90-110 | | | |

**Matrix Spike (5G22020-MS2)** Prepared: 07/22/2015 09:36 Analyzed: 07/22/2015 12:18

**Source: A504104-04**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 5.8 | | 0.10 | mg/L | 1.00 | 4.8 | 96 | 90-110 | | | |

**Matrix Spike Dup (5G22020-MSD1)** Prepared: 07/22/2015 09:36 Analyzed: 07/22/2015 12:27

**Source: A504500-02**

| Analyte | Result | Flag | POL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 1.1 | | 0.020 | mg/L | 1.00 | 0.0073 U | 109 | 90-110 | 3 | 10 | |

### *Batch 5G22033 - NO PREP*

**Blank (5G22033-BLK1)** Prepared: 07/22/2015 16:27 Analyzed: 07/23/2015 21:21

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

# QUALITY CONTROL DATA

## Classical Chemistry Parameters - Quality Control

### *Batch 5G22033 - NO PREP - Continued*

**LCS (5G22033-BS1)** Prepared: 07/22/2015 16:27 Analyzed: 07/23/2015 21:21

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 970 | | 10 | mg/L | 1000 | | 97 | 90-110 | | | |

**Duplicate (5G22033-DUP1)** Prepared: 07/22/2015 16:27 Analyzed: 07/23/2015 21:21

**Source: A503846-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 470 | | 10 | mg/L | | 470 | | | 0.9 | 5 | |

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

### *Batch 5G23013 - EPA 3005A*

**Blank (5G23013-BLK1)** Prepared: 07/23/2015 15:03 Analyzed: 07/24/2015 11:37

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 8.00 | U | 10.0 | ug/L | | | | | | | |
| **Iron** | **169** | | 50.0 | ug/L | | | | | | | O-01 |

**LCS (5G23013-BS1)** Prepared: 07/23/2015 15:03 Analyzed: 07/24/2015 11:39

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 466 | | 10.0 | ug/L | 500 | | 93 | 80-120 | | | |
| Iron | 2410 | | 50.0 | ug/L | 2500 | | 96 | 80-120 | | | |

**Matrix Spike (5G23013-MS1)** Prepared: 07/23/2015 15:03 Analyzed: 07/24/2015 11:41

**Source: B503074-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 467 | | 10.0 | ug/L | 500 | 8.00 U | 93 | 75-125 | | | |
| Iron | 26000 | | 50.0 | ug/L | 2500 | 23500 | 101 | 75-125 | | | |

**Matrix Spike Dup (5G23013-MSD1)** Prepared: 07/23/2015 15:03 Analyzed: 07/24/2015 11:47

**Source: B503074-01**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 471 | | 10.0 | ug/L | 500 | 8.00 U | 94 | 75-125 | 0.8 | 20 | |
| Iron | 26000 | | 50.0 | ug/L | 2500 | 23500 | 101 | 75-125 | 0.007 | 20 | |

### *Batch 5G24004 - EPA 3005A*

**Blank (5G24004-BLK1)** Prepared: 07/24/2015 12:17 Analyzed: 07/27/2015 10:44

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 6.00 | U | 50.0 | ug/L | | | | | | | |

**LCS (5G24004-BS1)** Prepared: 07/24/2015 12:17 Analyzed: 07/27/2015 10:46

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 2510 | | 50.0 | ug/L | 2500 | | 100 | 80-120 | | | |

## QUALITY CONTROL DATA

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

***Batch 5G24004 - EPA 3005A - Continued***

**Matrix Spike (5G24004-MS1)** Prepared: 07/24/2015 12:17 Analyzed: 07/27/2015 10:48

**Source: B503077-02**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 2530 | | 50.0 | ug/L | 2500 | 25.6 | 100 | 75-125 | | | |

**Matrix Spike Dup (5G24004-MSD1)** Prepared: 07/24/2015 12:17 Analyzed: 07/27/2015 10:50

**Source: B503077-02**

| Analyte | Result | Flag | PQL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 2540 | | 50.0 | ug/L | 2500 | 25.6 | 100 | 75-125 | 0.3 | 20 | |

## FLAGS/NOTES AND DEFINITIONS

| | |
|---|---|
| **PQL** | PQL: Practical Quantitation Limit. |
| **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. |
| **E** | The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag). |
| **O-01** | This compound is a common laboratory contaminant. |
| **QB-01** | The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation. |

# ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com


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

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

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




| | |
|---|---|
| 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): Chris Monaco,ENCO | Billing Contact: Nick Giumarelli |
| Sampler(s) Signature: | Site Location / Time Zone: FL/EST |

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: A504104

| Item # | Sample ID (Field Identification) | Collection Date | Collection Time | Comp / Grab | Matrix (see codes) | Total # of Containers | 8260B Arom/Halo | Al,As,Cd,Cr,Fe,Na,Pb, Hg | Ammonia 350.1 | Chloride 300,Nitrate as N 300,Sulfate 300, TDS SM2540C | | | | | | | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Preservation (See Codes) (Combine as necessary) | | | | | | | | | | |
| | | | | | | | H | N | S | I | | | | | | | |
| | MW-9 | 7/17/15 | 0913 | Grab | GW | 6 | x | x | x | x | | | | | | | |
| | Equipment Blank | 7/17/15 | 0923 | Grab | D | 6 | x | x | x | x | | | | | | | D=Field DI Water |
| | MW-1 | 7/17/15 | 0937 | Grab | GW | 6 | x | x | x | x | | | | | | | |
| | MW-8 | 7/17/15 | 1012 | Grab | GW | 6 | x | x | x | x | | | | | | | |
| | MW-6 | 7/17/15 | 1045 | Grab | GW | 6 | x | x | x | x | | | | | | | |
| | Duplicate | 7/17/15 | 1045 | Grab | GW | 6 | x | x | x | x | | | | | | | |
| | MW-5 | 7/17/15 | 1120 | Grab | GW | 6 | x | x | x | x | | | | | | | |
| | MW-7 | 7/17/15 | 1144 | Grab | GW | 6 | x | x | x | x | | | | | | | |
| | trip blank | - | - | Grab | OT | 2 | x | - | - | - | | | | | | | OT=Lab DI Water |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

<-- Total # of Containers

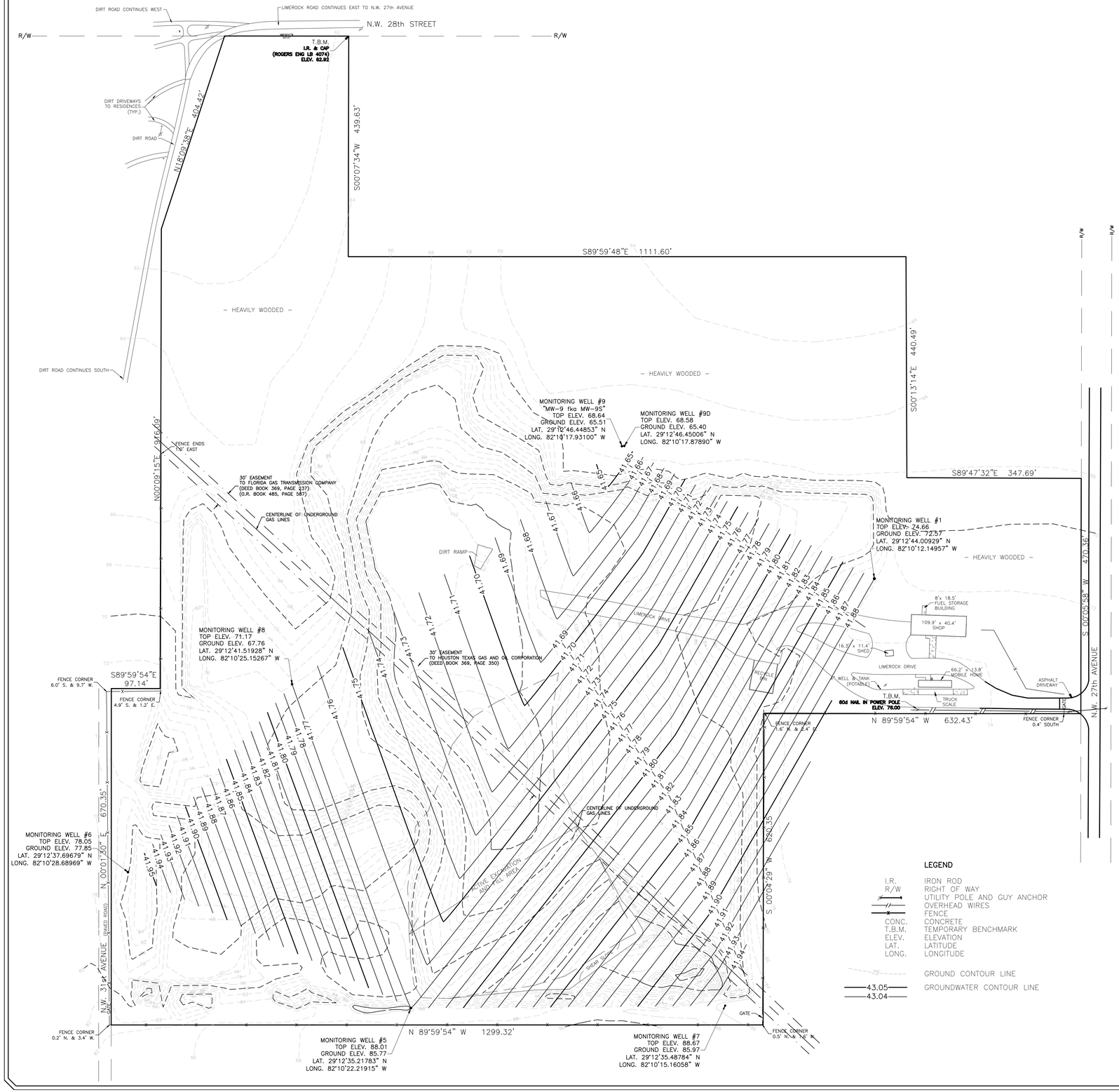
| Sample Kit Prepared By | Date/Time | Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|---|
| BNH | 7/17 1350 | Brandy Hunt | 7/17 1350 | | 7/10/15 1615 |
| Comments/Special Reporting Requirements | | Relinquished By | Date/Time 7/20/15 1137 | Received By | Date/Time 7/18/15 1137 |
| | | Relinquished By | Date/Time | Received By | Date/Time |

Cooler #'s & Temps on Receipt: MED-122 3.8°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)




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

REVISIONS

| | | |
|---|---|---|
| N/A | N/A | Groundwater contours revised 7-25-2015 |
| RMC-3 | RMC-3 | N/A |
| RMC-3 | RMC-3 | N/A |
| RMC-3 | RMC-3 | N/A |
| 1" = 100' | | |

PLOTTED:
DRAWN:
DESIGNED:
CHECKED:
SCALE:

# GROUNDWATER CONTOURS

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


ENVIROTECH SERVICES, INC.
ENVIRONMENTAL & CIVIL ENGINEERING CONSULTANTS
15290 SE HWY 42, PO BOX 152
WEIRSDALE, FLORIDA 32195
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ROBERT M. COUCH III, P.E. :
FLORIDA REG. No. 55311
DATE :
C.O.A. No. 8692

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