Groundwater Monitoring Report

Former Terrace Cleaners
8866 North 56th Street
Temple Terrace, Hillsborough County, Florida
FDEP Facility ID: 299501362

Florida Department of Environmental Protection

May 12, 2016

4019 East Fowler Avenue Tampa, FL 33617

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PROFESSIONAL GEOLOGIST CERTIFICATION

Groundwater Monitoring Report for:

Former Terrace Cleaners
8866 North 56th Street
Temple Terrace, Florida 33671
Facility ID No. 299501362

In accordance with Chapter 492 F.S., hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared and/or reviewed by the undersigned GHD professional who is a registered Florida Professional Geologist.

GABRIELLE M. ENOS
LICENSE No. 605
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

Gabrielle M. Enos, P.G.
Florida License #605

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1. Introduction

GHD Services, Inc. (GHD) has prepared this Groundwater Monitoring Report for the former Terrace Cleaners "Site" which was located at 8866 North 56th Street, Temple Terrace, Hillsborough County, Florida (**Figure 1**). This report is submitted under the Florida Department of Environmental Protection (FDEP) Drycleaning Solvent Cleanup Program.

Initially, GHD prepared a Contamination Assessment Report (CAR) for the Terrace Cleaners facility dated August 12, 1999, which indicated the presence of drycleaning solvents above State standards in vadose zone soils and tetrachloroethene (PCE) and PCE-breakdown products in groundwater. Soil contamination in the unsaturated zone was detected primarily under the floor slab near the drycleaning machine in excess of the Soil Cleanup Target Level (SCTL) for Leaching as established in Chapter 62-777, Florida Administrative Code (FAC) of 30 micrograms per kilogram (µg/kg) at soil borings SB003 (295 µg/kg), SB007 (660 µg/kg), and MW004 (286 µg/kg). Similarly, PCE was detected in groundwater primarily in the vicinity of the drycleaning facility. The highest PCE concentration, 777 µg/L, was detected at direct-push sampling point DP011 at a depth of 11 feet below land surface (ft bls), exceeding the Natural Attenuation Default Source Concentration (NADSC) of 300 micrograms per liter (µg/L). The highest concentration detected in a permanent monitoring well was reported at MW005 (97.2 µg/L). The groundwater concentrations detected onsite did not indicate the presence of dense non-aqueous phase liquids (DNAPL).

In order to remediate the contaminated soil, GHD recommended the use of Soil Vapor Extraction (SVE) technology. An SVE system was installed and operated in accordance with the Remedial Action Plan (RAP), which was submitted on June 4, 2001 and tasked by the FDEP on August 28, 2001. The remedial system operated from October 2001 until April 2003.

Following completion of SVE operation, periodic groundwater sampling was conducted from March 2002 through October 2003. During this period of monitoring, the groundwater analytical results exhibited a general decreasing trend, however, based on an estimate of the time required for the PCE concentrations to decrease to the cleanup level (3 µg/L) at monitoring wells MW003, MW004, and MW005 and apparent lack of natural attenuation occurring at the Site, additional active remediation was recommended. The selected remedial approach included *in situ* bioremediation for addressing the remaining PCE groundwater impacts.

A Limited Remedial Action Plan (LRAP) was prepared by GHD and submitted in January 2005. GHD proposed to administer potassium lactate through a series of 3 newly installed shallow injection wells (IW01, IW02, and IW03) as well as 5 newly installed cluster wells (IW04 through IW08) located within the PCE plume at the exterior of the facility. In addition to potassium lactate, GHD also proposed the injection of nutrients through flushing water that was used to distribute the lactate in the subsurface. During LRAP implementation, the interior injection wells were not utilized because of access limitations, therefore, only exterior injection wells were installed. The lactate injection system included ten injection wells (IW04 through IW08, and IW04D through IW08D) located immediately west of the former drycleaning facility.

Monthly lactate injections were conducted between July 2006 and July 2009. In general, the lactate injections were successful at changing geochemical conditions in the immediate vicinity of the injection wells. This change in geochemical conditions resulted in increased biological activity as evidenced by the increase in the presence of metabolic breakdown products of PCE. Nevertheless,

this increase in biological activity in the injection area did not translate into timely contaminant concentration reduction at downgradient wells. Based on the lack of overall concentration reduction, biostimulation activities were discontinued and annual groundwater monitoring was proposed pending future Site redevelopment activities.

In late 2009, Site redevelopment was being contemplated. At that time, GHD was contacted by the Site developer and source removal activities were discussed. In December 2010, GHD prepared a source removal plan and in August 2011, source removal activities were undertaken on behalf of the property owner following demolition of the existing shopping center and abandonment of all on-Site monitoring wells. A Source Removal Report was prepared in October 2011 that summarized source removal and well abandonment activities. A total of approximately 725 tons of PCE-impacted soil was removed and disposed off-site. In addition, in anticipation of Site redevelopment, nine monitoring wells (MW001-006, MW008, MW009, and MW011) and ten injection wells (IW004-013) were plugged and abandoned.

Site redevelopment activities had stalled for several years and as a result, only three off-site monitoring wells remained: MW007, MW010, and MW012. The location of the former drycleaning facility is currently a paved roadway and parking area. Historical maps depicting the former layout and well locations are included in **Appendix A**.

Due to the delay in Site redevelopment, the onsite monitor wells were re-installed so that current Site groundwater conditions could be established and future Site actions could be considered. This report details the well installations and the result of the latest groundwater sampling event.

2. Groundwater Sampling Plan

2.1 Monitor Well Installation

Prior to installation of the new wells, GHD personnel coordinated with City of Temple Terrace officials to identify well locations in close proximity to the former drycleaner location that would not interfere with future Site re-development. Replacement monitoring wells were installed at the Site from April 18 through April 20, 2016 (**Figure 2**). GHD personnel oversaw the installation of the wells by National Environmental Technology, Inc. (NET, License # 11093). Well completion reports and permits required by the Southwest Florida Water Management District (SWFWMD) are included in **Appendix B**.

In total, seven (7) monitoring wells (MW013 through MW019) were installed at the Site. All wells were installed by a truck mounted drilling rig using hollow stem auger drilling techniques to depths between 20 and 47 ft bls. Each well is constructed of 2-inch diameter, Schedule 40 PVC, with 0.010-inch machine slotted screen and casing blank. The annular area in each well was backfilled with 20/30 gradational silica sand from the bottom of each well to about 2 feet above the top of the screen. A 30/65 gradational silica sand was emplaced on top of the screen pack, and the annulus was then sealed with neat cement grout. Each well is finished at grade within a 2-ft by 2-ft concrete pad and bolt down well cover. Each well is fitted with an expansion cap to prevent runoff and surface debris from entering the well. The total depth and screen interval of each well varied to accommodate conditions within the aquifer and assure sufficient groundwater for collection of representative samples. Boring logs and construction logs for each new well are included in **Appendix B**.

The total depth and screen interval for each of the new wells is listed in the follow table:

Well	Total Depth (ft bls)	Screen Interval (ft bls)
MW013	40	25 – 40
MW014	30	15 – 30
MW015	22	7 – 22
MW016	20	5 – 20
MW017	25	10 – 25
MW018	47	42 – 47
MW019	30	15 – 30

2.2 Groundwater Assessment

Groundwater samples were collected on April 22, 2016 from wells MW007, MW010 and MW012 through MW019 to identify current groundwater quality conditions. Groundwater samples were collected in accordance with FDEP's Field Sampling (FS) 2200 Standard Operating Procedures (SOP) for Groundwater Sampling. All samples were submitted to Jupiter Environmental Laboratories, Inc. (JEL, #E86546) for analysis of volatile organic halocarbons using EPA Method 8260.

2.2.1 Depth to Groundwater Measurements

Following installation, top of casing elevations for the new wells were surveyed relative to the existing downgradient monitoring wells. A complete set of water level measurements were collected from all monitoring wells to determine the groundwater flow direction and hydraulic gradients across the Site. GHD personnel opened the monitor wells to allow atmospheric equilibration prior to collecting depth to water measurements. Depth to water measurements were obtained at each well using a water level indicator with an audible alarm. Groundwater elevations are reported in North American Vertical Datum (NAVD) of 1988. Monitor well construction details are provided in **Table 1**.

2.2.2 Monitor Well Sampling

The monitor wells were purged and sampled in general accordance with the FS 2200 SOP for Groundwater Sampling. A peristaltic pump equipped with polyethylene tubing was used to purge and sample the monitor wells. During the purging, field parameters including pH, temperature, specific conductance, temperature, dissolved oxygen (DO), and turbidity were measured until the parameters stabilized. The stability parameter limits were the following: pH, +/-0.2 standard units (SU); temperature, +/- 0.2 degrees Celsius (ºC); specific conductance, +/- 5.0% of reading; DO, +/- 0.2 milligrams per liter (mg/L) or 10% (whichever is greater); and turbidity, +/- 5 Nephelometric Turbidity Units (NTUs) or 10% (whichever is greater). No limits have been established for oxidation

reduction potential (ORP). Completed groundwater sampling data sheets are included as **Appendix C**.

3. Results and Data Evaluation

3.1 Groundwater Flow and Hydraulic Gradient

The average depth-to-groundwater measurement in the shallow wells at the Site in April 2016 was 13.91 feet below top of casing (ft btoc), while the average depth-to-groundwater measurement in the deep wells was 20.81 ft btoc. The groundwater flow map prepared for the Site indicates a west-southwest direction of groundwater flow (**Figure 3)**, which is consistent with historical observations.

The horizontal hydraulic gradient in the surficial aquifer was calculated at approximately 0.059 feet per foot (ft/ft) between wells MW016 and MW017, and 0.045 ft/ft between well MW016 and MW015. The vertical hydraulic gradient at the Site was calculated by comparing elevation data for paired wells screened within the surficial aquifer with those screened in the Floridan aquifer. A comparison of well pair MW015/MW018 indicates a downward gradient of 0.063 ft/ft, while a comparison of well pair MW007/MW012 indicates a downward gradient of 0.028 ft/ft. Groundwater elevation data are summarized on **Table 2**.

3.2 Groundwater Quality Evaluation

The geochemical parameters measured during sampling were evaluated for both the surficial and Upper Floridan aquifer wells. The pH of groundwater in the shallow wells ranged from 5.64 to 7.17 SU and averaged 6.52 SU. The conductivity values ranged from 253 to 838 microSiemens per centimeter (µS/cm) and averaged 518 µS/cm. The temperature ranged from 25.7 to 28.3ºC and averaged 26.77ºC. The DO concentrations ranged from 0.43 to 3.57 mg/L and averaged 1.79 mg/L. Historical data indicates that the high DO values are commonly measured at the Site. The turbidity values ranged from 0.50 to 4.26 NTU, and averaged 1.26 NTU. The ORP values ranged from -328 to 102 millivolts (mV) and averaged -122 mV.

The data from the Upper Floridan wells indicate that the pH of groundwater ranged from 7.20 to 7.62 SU and averaged 7.41 SU. The conductivity values ranged from 400 to 447 µS/cm and averaged 420 µS/cm. The temperature ranged from 22.2 to 24.7ºC and averaged 29.7ºC. The DO concentrations in the deep wells ranged from 0.28 to 1.42 mg/L and averaged 0.87 mg/L. The turbidity values ranged from 0.32 to 1.88 NTU, and averaged 0.96 NTU. The ORP values ranged from -360 to 33 mV and averaged -239 mV.

A comparison of the field parameters for wells screened within the surficial aquifer and the Upper Floridan aquifer does not indicate significant groundwater quality differences between the different aquifer zones, with the exception of the DO readings which are significantly lower in the Upper Floridan wells. A summary of the field measured groundwater quality data is included as **Table 3**.

3.3 Groundwater Analytical Results Evaluation

The results of the April 2016 groundwater sampling event indicated the presence of the constituents PCE and Trichloroethene (TCE) at concentrations exceeding the applicable default Groundwater Cleanup Target Levels (GCTLs) per Chapter 62-777, FAC. The groundwater analytical results for the subject Site are summarized in **Table 4** and the distribution of contaminants of concern is

presented on **Figure 4**. PCE concentrations exceeded the GCTL in wells MW013 (11.9 µg/L), MW016 (13.9 µg/L), MW017 (30.5 µg/L) and MW019 (3.01 µg/L). The sample from well MW017 also contained TCE (12.9 µg/L) at a concentration in excess of its default GCTL of 3 µg/L. The compounds cis-1,2-dichloroethene and vinyl chloride (VC) were also detected at one or more monitoring well; however, none of the concentrations exceeded applicable GCTLs per Chapter 62-777, FAC. The detection of VC at monitoring well MW017 was the first detection of VC at the Site, suggesting that reductive dechlorination processes are occurring.

4. Quality Assurance/Quality Control Data Review

Groundwater samples from ten (10) monitoring wells were collected on April 22, 2016 and submitted to JEL for analysis using EPA Method 8260. A trip blank and a duplicate sample from well MW018 were included with the sample kit. The results for the duplicate sample (PCE, 0.450i µg/L) and MW018 (PCE, 0.51i µg/L) were comparable. The trip blank also contained a minor concentration of PCE (0.500i µg/L), indicating the possibility of low level cross contamination during sample collection. Laboratory Quality Control samples included Method Blanks (MB), Laboratory Control Samples (LCS), LCS Duplicates (LCSD), and Sample Duplicates.

The LCS/LCSD samples were flagged for the following: (1) chloromethane and PCE having reported values which failed to meet the established quality control for either precision or accuracy; (2) bromomethane having reported values that failed to meet the established quality control criteria; however the compound was not detected in the associated samples; and (3) cis-1,3 dichloropropane and 2,2-dichloropropane with reported values that failed to meet the established quality control criteria, with the LCS value skewed high. However neither compound was detected in the associated samples

The Sample Duplicates were flagged for PCE and chloromethane having reported values which failed to meet the established quality control for either precision or accuracy. The MB was flagged for PCE and chloromethane having reported values which failed to meet the established quality control for either precision or accuracy. All samples were flagged accordingly. Complete laboratory analytical results are presented in **Appendix D**.

5. Conclusions and Recommendations

5.1 Conclusions

The current groundwater quality data for the former Terrace Cleaners Site indicates that:

- Groundwater flow is predominantly toward the west-southwest and is consistent with previous observations;
- A comparison of the field parameters for wells screened within the surficial aquifer and the Upper Floridan aquifer does not indicate significant groundwater quality differences between the different aquifer zones or the impacted and non-impacted wells;
- The compound PCE remains the most prevalent contaminant of concern with the highest concentrations noted nearest the former drycleaner footprint;

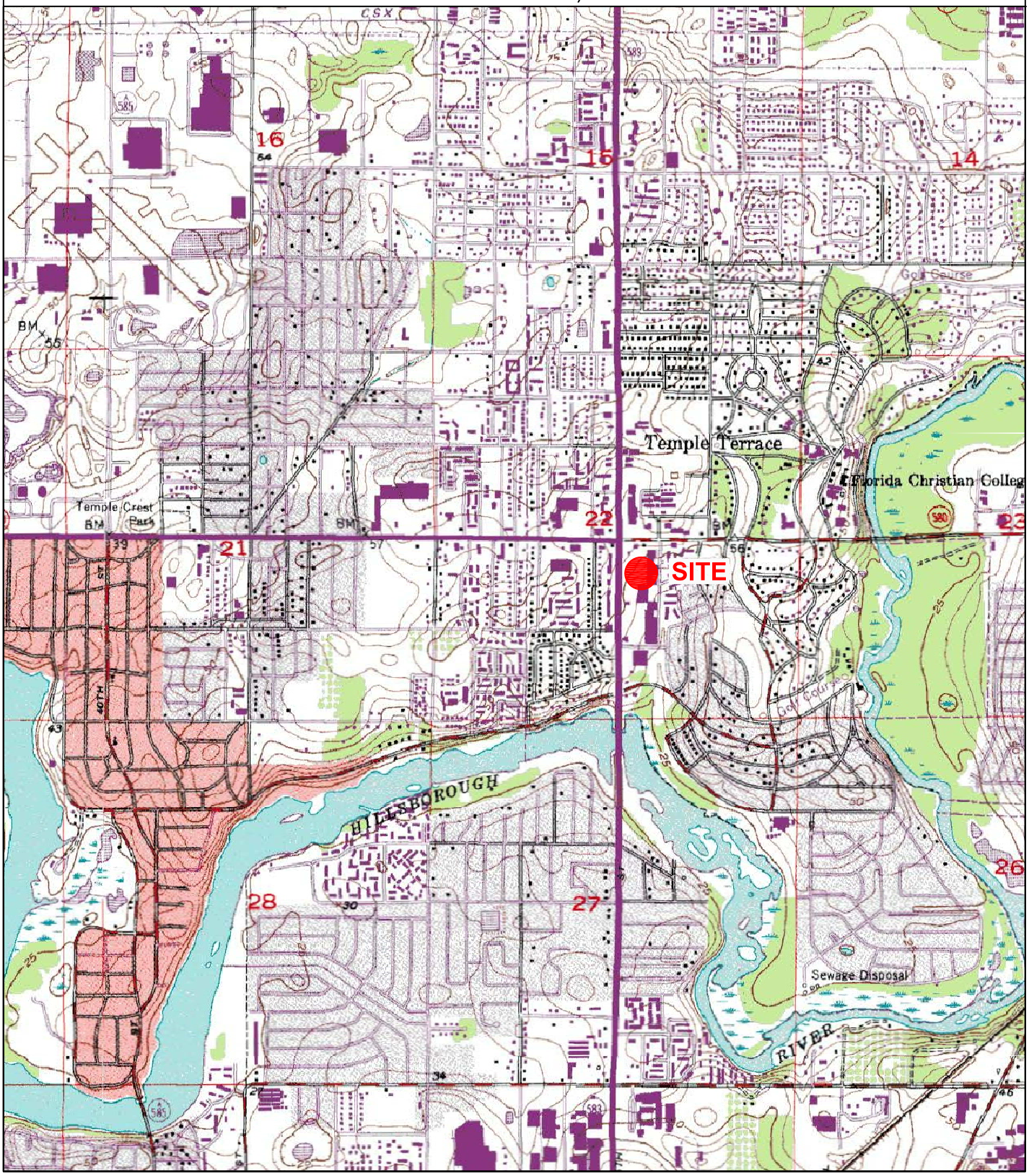
- The presence of breakdown compounds TCE and VC in well MW017, and the comparatively lower DO reading, indicates that anaerobic breakdown of the remaining PCE near the source is occurring;
- The downgradient and offsite wells MW007, MW010 and MW012 did not contain contaminants of concern in excess of GCTLs. The downgradient limit of impacts is now defined by wells MW013 and MW019;
- The vertical extent of impacts is defined by well MW018 with a total depth of 47 feet; and
- There is a downward gradient between the surficial and Upper Florida aquifers.

5.2 Recommendations

The monitor well network at the former Terrace Cleaners Site currently defines the extent of impacts. Previously conducted source removal actions appear to have reduced the PCE mass near the source, and the resultant downgradient extent of impacts has decreased due to dilution and/or dispersion. GHD recommends semi-annual groundwater monitoring to evaluate groundwater quality trends and identify the need for additional remedial measures, if necessary. Groundwater sampling is recommended at monitor wells MW007, MW010, and MW012 through MW019 with analysis for the presence of volatile organic halocarbons by EPA Method 8260.

Figures

SECTION 22, TOWNSHIP 28 SOUTH, RANGE 19 EAST
HILLSBOROUGH COUNTY, FLORIDA



SOURCE: SULPHUR SPRINGS, U.S.G.S. QUADRANGLE MAP 1956, PHOTOREVISED 1987

0 1000 2000

SCALE: 1"=2000'±

N

GHD

TERRACE CLEANERS
8866 N. 56th ST., TEMPLE TERRACE, FL
ANNUAL GW MONITORING REPORT

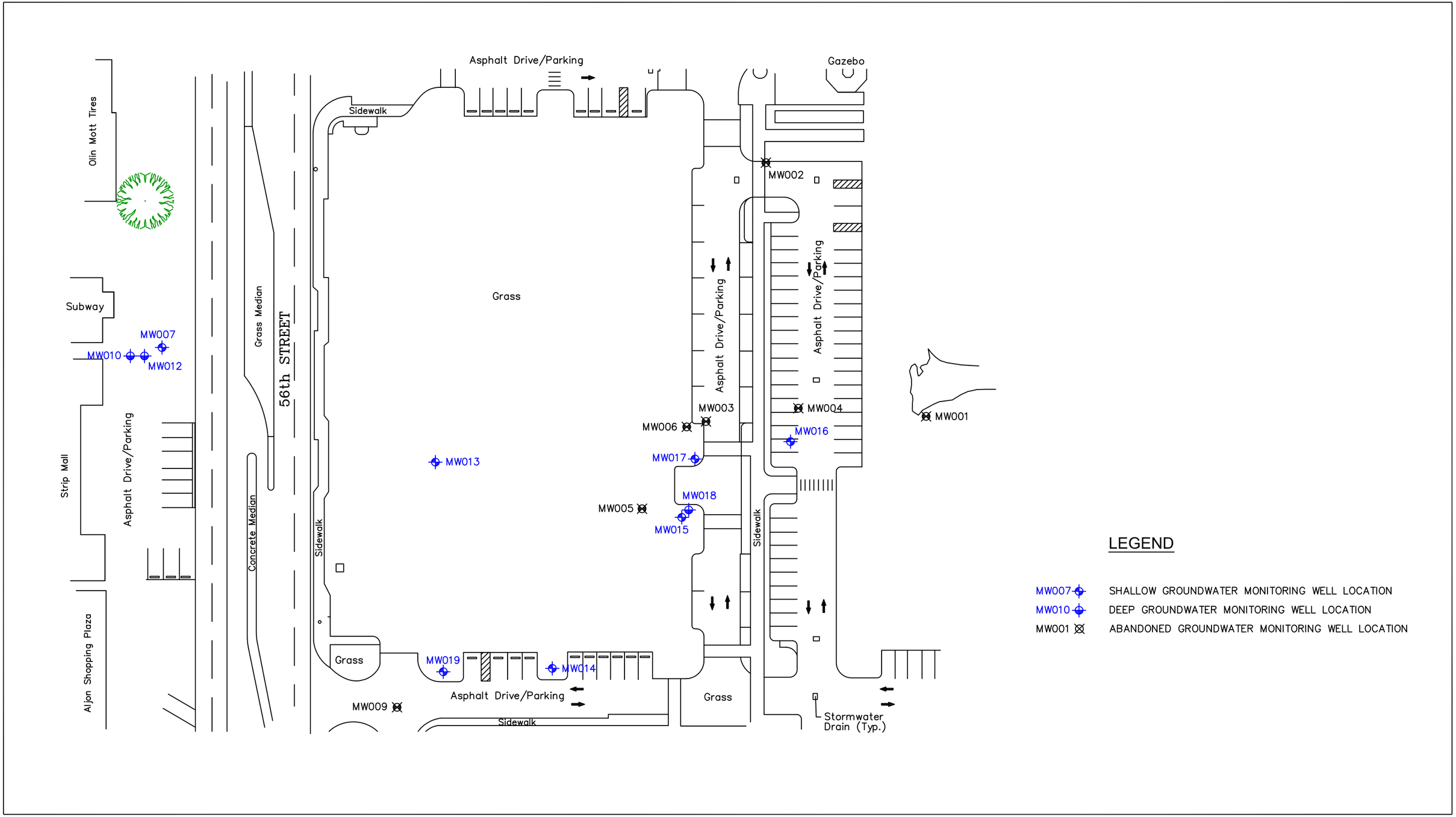
090126

May 5, 2016

SITE VICINITY MAP

FIGURE 1

090126-01



0 30 60

SCALE: 1"=60'±

N

GHD

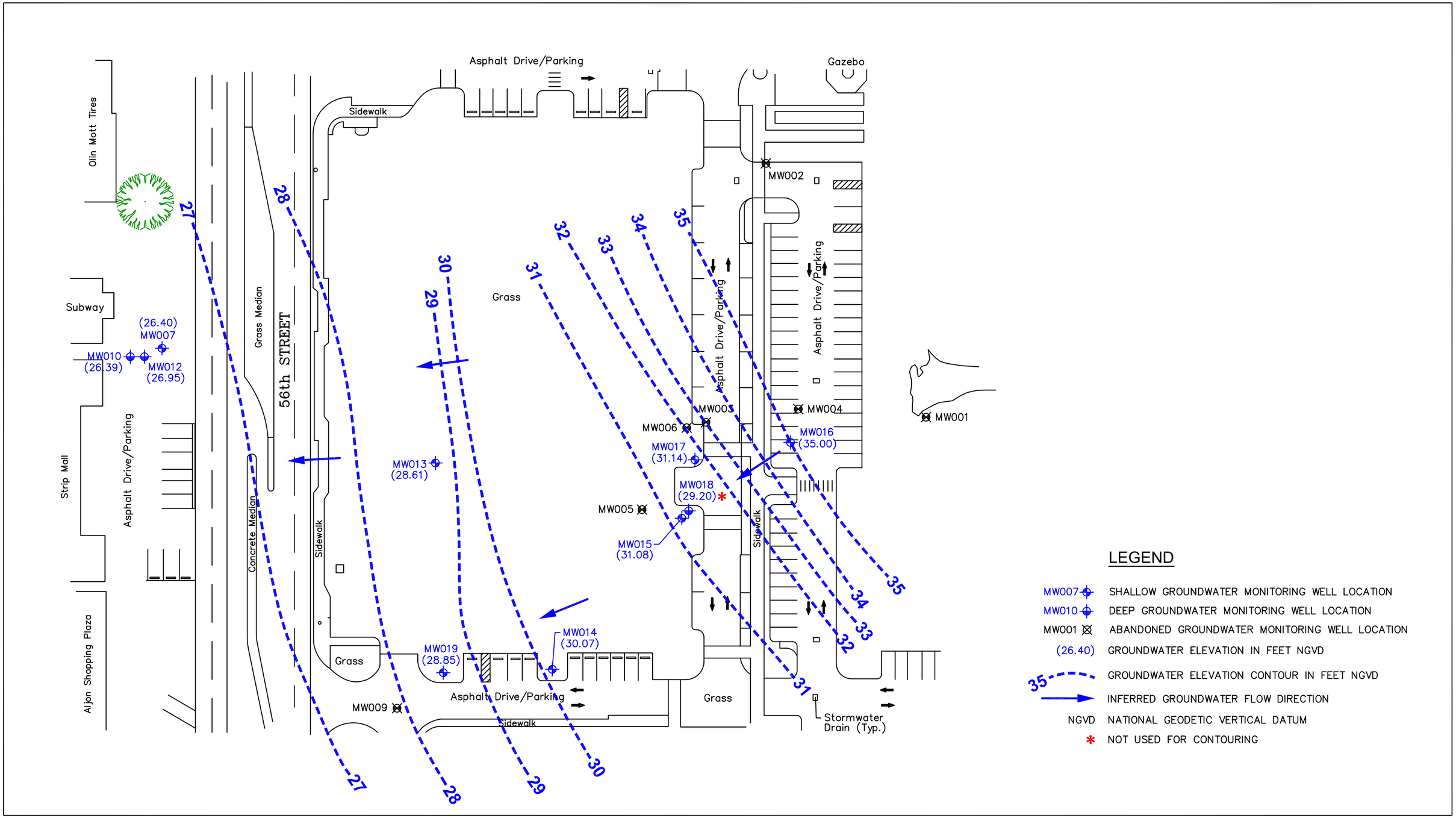
TERRACE CLEANERS
8866 NORTH 56th STREET, TEMPLE TERRACE, FLORIDA
ANNUAL GROUNDWATER MONITORING REPORT

090126
May 5, 2016

SITE MAP/SAMPLE LOCTIONS

FIGURE 2

090126-02



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SCALE: 1"=60'±

N

GHD

TERRACE CLEANERS
8866 NORTH 56th STREET, TEMPLE TERRACE, FLORIDA
ANNUAL GROUNDWATER MONITORING REPORT

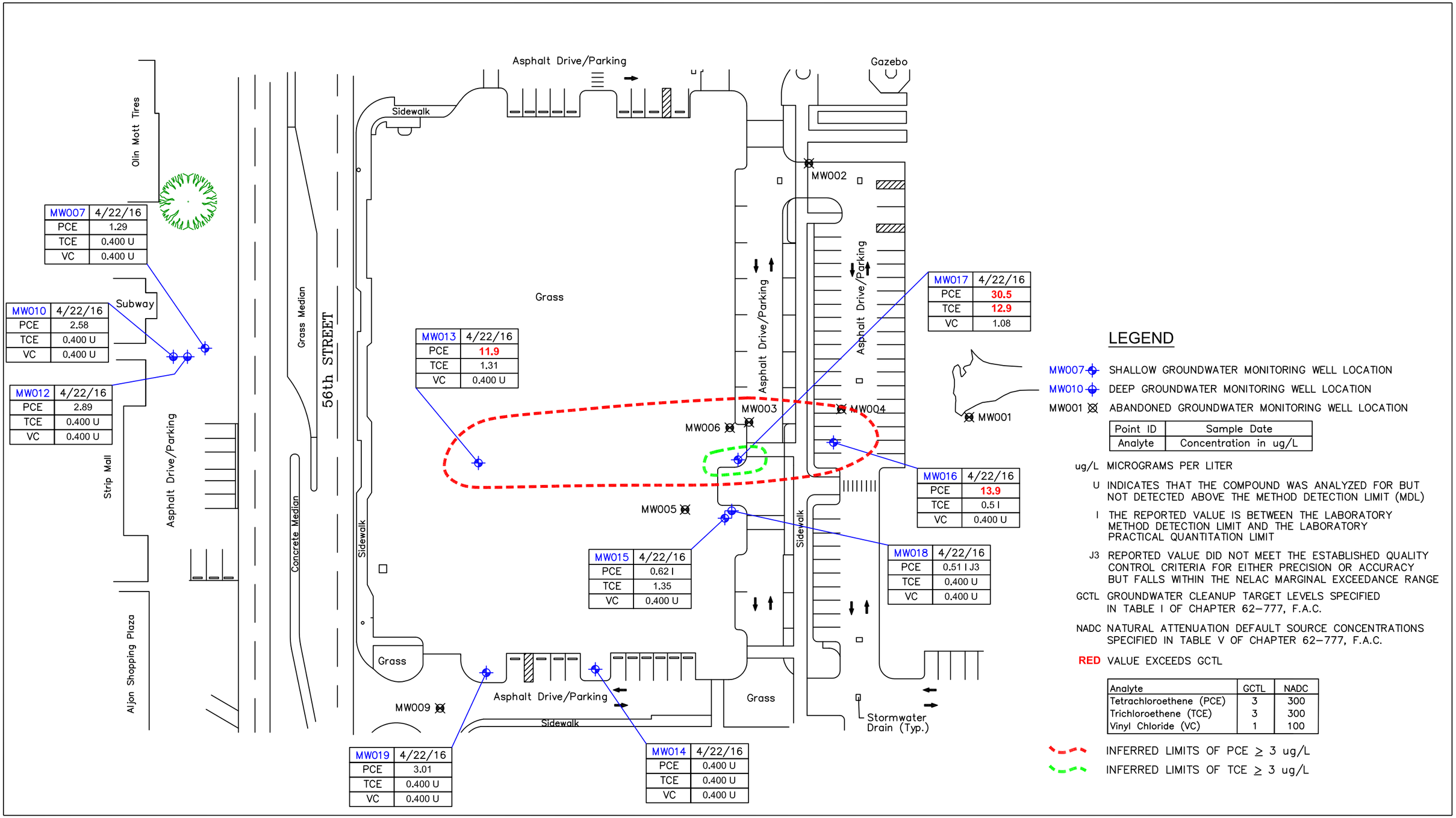
GROUNDWATER FLOW MAP (APRIL 22, 2016)

090126

May 5, 2016

FIGURE 3

090126-03



0 30 60
SCALE: 1"=60'±

TERRACE CLEANERS
8866 NORTH 56th STREET, TEMPLE TERRACE, FLORIDA
ANNUAL GROUNDWATER MONITORING REPORT

090126
May 5, 2016

GROUNDWATER ANALYTICAL RESULTS

FIGURE 4

090126-04

Tables

TABLE 1

MONITORING WELL CONSTRUCTION DETAILS
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	Date Installed	Well Depth (ft bls)	Well Diameter (inches)	Screen Interval (ft bls)	TOC Elevation (ft NGVD)
MW001 *	02/10/99	19	0.75	16-19	40.80
MW002 *	02/10/99	25	0.75	23-25	42.24
MW003 *	02/10/99	22	0.75	17-22	40.82
MW004 *	02/14/99	20	0.75	16-20	41.55
MW005 *	02/15/99	28	2.00	18-28	41.83
MW006 *	02/19/99	47	2.00	42-47	40.95
MW007	02/22/99	31	0.75	24-31	52.30
MW008 *	02/22/99	26	0.75	16-26	43.39
MW009 *	06/04/99	35	2.00	25-35	48.23
MW010	06/04/99	40	2.00	35-40	52.49
MW011 *	06/04/99	30	2.00	25-30	42.84
MW012	01/24/01	52	1.00	42-52	52.43
MW013	04/19/16	40	2.00	25-40	47.25
MW014	04/19/16	30	2.00	15-30	44.63
MW015	04/18/16	22	2.00	7-22	42.23
MW016	04/18/16	20	2.00	5-20	41.80
MW017	04/18/16	25	2.00	10-25	42.29
MW018	04/20/16	47	2.00	42-47	42.20
MW019	04/19/16	30	2.00	15-30	46.32

Notes:
ft bls - feet below land surface
TOC - top of casing
NGVD - National Geodetic Vertical Datum 1929
* - Indicates Wells Abandoned in 2010

TABLE 2

SUMMARY OF GROUNDWATER ELEVATION DATA
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	TOC Elevation (ft NGVD)	Depth to Groundwater (ft bls)	Groundwater Elevation (ft NGVD)
February 1999			
MW001	40.80	18.70	22.10
MW002	42.24	9.87	32.37
MW003	40.82	10.50	30.32
MW004	41.55	10.75	30.80
MW005	41.83	12.11	29.72
April 1999			
MW001	40.80	11.23	29.57
MW002	42.24	14.08	28.16
MW003	40.82	12.14	28.68
MW004	41.55	12.47	29.08
MW005	41.83	13.68	28.15
MW006	40.95	14.02	26.93
MW007	52.30	28.40	23.90
MW008	43.39	15.70	27.69
June 1999			
MW009	48.23	23.58	24.65
MW010	52.49	30.21	22.28
MW011	42.84	17.00	25.84
January 2001			
MW001	40.80	13.70	27.10
MW002	42.24	14.77	27.47
MW003	40.82	14.57	26.25
MW004	41.55	17.87	23.68
MW005	41.83	15.98	25.85
MW006	40.95	15.82	25.13
MW007	52.30	29.57	22.73
MW008	43.39	18.30	2.00
MW009	48.23	23.31	24.92
MW010	52.49	14.56	37.93
MW011	42.84	17.53	25.31
MW012	52.43	28.88	23.55
March 2002			
MW001	40.80	12.55	28.25
MW002	42.24	15.97	26.27
MW003	40.82	13.43	27.39
MW004	41.55	13.72	27.83
MW005	41.83	14.85	26.98
MW006	40.95	14.42	26.53
MW007	52.30	28.42	23.88
MW008	43.39	16.41	26.98
MW009	48.23	22.76	25.47
MW010	52.49	28.65	23.84
MW011	42.84	14.84	28.00
MW012	52.43	27.90	24.53
August 2002			
MW001	40.80	11.61	29.19
MW002	42.24	15.02	27.22
MW003	40.82	12.52	28.30
MW004	41.55	12.59	28.96
MW005	41.83	14.24	27.59
MW006	40.95	14.01	26.94
MW007	52.30	27.62	24.68
MW008	43.39	15.71	27.68
MW009	48.23	22.31	25.92
MW010	52.49	27.98	24.51
MW011	42.84	14.27	28.57
MW012	52.43	27.37	25.06

TABLE 2

SUMMARY OF GROUNDWATER ELEVATION DATA
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	*TOC Elevation (ft NGVD)*	*Depth to Groundwater (ft bls)*	*Groundwater Elevation (ft NGVD)*
March 2003			
MW001	40.80	8.75	32.05
MW002	42.24	12.73	29.51
MW003	40.82	9.93	30.89
MW004	41.55	10.05	31.50
MW005	41.83	11.59	30.24
MW006	40.95	11.63	29.32
MW007	52.30	25.70	26.60
MW008	43.39	14.31	29.08
MW009	48.23	20.29	27.94
MW010	52.49	25.81	26.68
MW011	42.84	13.75	29.09
MW012	52.43	25.21	27.22
October 2003			
MW001	40.80	8.27	32.53
MW002	42.24	11.62	30.62
MW003	40.82	9.47	31.35
MW004	41.55	9.61	31.94
MW005	41.83	11.09	30.74
MW006	40.95	11.11	29.84
MW007	52.30	24.74	27.56
MW008	43.39	14.08	29.31
MW009	48.23	19.60	28.63
MW010	52.49	24.90	27.59
MW011	42.84	12.95	29.89
MW012	52.43	24.41	28.02
July 2004			
MW001	40.80	NA	NA
MW002	42.24	10.90	31.34
MW003	40.82	11.94	28.88
MW004	41.55	9.93	31.62
MW005	41.83	11.97	29.86
MW006	40.95	11.02	29.93
MW007	52.30	25.01	27.29
MW008	43.39	15.71	27.68
MW009	48.23	20.21	28.02
MW010	52.49	24.98	27.51
MW011	42.84	14.58	28.26
MW012	52.43	24.42	28.01
August 2005			
MW001	40.80	NA	NA
MW002	42.24	10.40	31.84
MW003	40.82	8.28	32.54
MW004	41.55	NA	NA
MW005	41.83	10.10	31.73
MW006	40.95	9.72	31.23
MW007	52.30	23.63	28.67
MW008	43.39	13.15	30.24
MW009	48.23	18.90	29.33
MW010	52.49	23.72	28.77
MW011	42.84	13.20	29.64
MW012	52.43	23.23	29.20

TABLE 2

SUMMARY OF GROUNDWATER ELEVATION DATA
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	TOC Elevation (ft NGVD)	Depth to Groundwater (ft bls)	Groundwater Elevation (ft NGVD)
5/3/2006			
MW002	42.24	10.38	31.86
MW003	40.82	14.65	26.17
MW005	41.83	16.02	25.81
MW006	40.95	16.05	24.9
MW007	52.3	29.85	22.45
MW008	43.39	13.13	30.26
MW009	48.23	23.89	24.34
MW010	52.49	29.95	22.54
MW011	42.84	13.58	29.26
MW012	52.43	29.62	22.81
7/18/2006			
MW003	40.82	14.72	26.1
MW005	41.83	17.28	24.55
MW006	40.95	15.14	25.81
MW007	52.3	dry	--
MW009	48.23	24.2	24.03
MW010	52.49	29.82	22.67
8/2/2006			
MW003	40.82	13.62	27.2
MW005	41.83	15.81	26.02
MW006	40.95	15.96	24.99
MW009	48.23	23.8	24.43
MW010	52.49	28.76	23.73
9/15/2006			
MW003	40.82	13.85	26.97
MW005	41.83	14.92	26.91
MW006	40.95	14.15	26.8
MW007	52.3	dry	--
MW009	48.23	23.05	25.18
MW010	52.49	27.91	24.58
10/26/2006			
MW001	40.8	11.99	28.81
MW002	42.24	10.41	31.83
MW003	40.82	13.89	26.93
MW005	41.83	15.46	26.37
MW006	40.95	15.03	25.92
MW007	52.3	dry	--
MW008	43.39	18.51	24.88
MW009	48.23	23.52	24.71
MW010	52.49	28.86	23.63
MW011	42.84	18.01	24.83
MW012	52.43	28.02	24.41
1/8/2007			
MW001	40.8	14.09	26.71
MW003	40.82	14.85	25.97
MW005	41.83	16.43	25.4
MW006	40.95	15.73	25.22
MW007	52.3	dry	--
MW009	48.23	24.11	24.12
MW010	52.49	29.18	23.31
MW012	52.43	28.46	23.97
5/9/2007			
MW003	40.82	16.4	24.42
MW005	41.83	17.24	24.59
MW006	40.95	17.32	23.63
MW007	52.3	dry	--
MW009	48.23	25.01	23.22
MW010	52.49	30.44	22.05
MW012	52.43	29.73	22.7

TABLE 2

SUMMARY OF GROUNDWATER ELEVATION DATA
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	TOC Elevation (ft NGVD)	Depth to Groundwater (ft bls)	Groundwater Elevation (ft NGVD)
5/24/2007			
MW002	42.24	16.68	25.56
MW003	40.82	16.42	24.4
MW005	41.83	17.81	24.02
MW006	40.95	17.55	23.4
MW007	52.3	dry	--
MW008	43.39	20.18	23.21
MW010	52.49	30.5	21.99
MW011	42.84	19.62	23.22
MW012	52.43	29.87	22.56
6/24/2008			
MW002	42.24	17.51	24.73
MW003	40.82	18.03	22.79
MW005	41.83	16.88	24.95
MW006	40.95	16.55	24.4
MW007	52.3	dry	--
MW008	43.39	18.97	24.42
MW009	48.23	24.68	23.55
MW010	52.49	30.23	22.26
MW011	42.84	18.92	23.92
MW012	52.43	29.3	23.13
MW010	40.99	30.23	10.76
1/6/2009			
MW002	42.24	8.68	33.56
MW003	40.82	16.51	24.31
MW005	41.83	16.64	25.19
MW006	40.95	16.3	24.65
MW007	52.3	30.15	22.15
MW008	43.39	18.96	24.43
MW009	48.23	24.43	23.8
MW010	52.49	30.14	22.35
MW011	42.84	18.55	24.29
MW012	52.43	29.2	23.23
7/22/2009			
MW002	42.24	9.48	32.76
MW003	40.82	12.73	28.09
MW005	41.83	13.86	27.97
MW006	40.95	12.77	28.18
MW007	52.3	26.22	26.08
MW008	43.39	16.61	26.78
MW009	48.23	21.97	26.26
MW010	52.49	26.23	26.26
MW011	42.84	16.2	26.64
MW012	52.43	25.68	26.75
6/24/2010			
MW002	42.24	8.96	33.28
MW003	40.82	13.79	27.03
MW005	41.83	15.61	26.22
MW006	40.95	15.09	25.86
MW007	52.3	28.6	23.7
MW008	43.39	18.63	24.76
MW009	48.23	23.63	24.6
MW010	52.49	28	24.49
MW011	42.84	18.22	24.62
MW012	52.43	28.62	23.81

TABLE 2

SUMMARY OF GROUNDWATER ELEVATION DATA
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	*TOC Elevation (ft NGVD)*	*Depth to Groundwater (ft bls)*	*Groundwater Elevation (ft NGVD)*
10/30/2012			
MW007	52.3	22.09	30.21
MW010	52.49	22.32	30.17
MW012	52.43	21.83	30.60
2/19/2014			
MW007	52.3	26.98	25.32
MW010	52.49	27.18	25.31
MW012	52.43	26.44	25.99
1/9/2015			
MW007	52.3	24.35	27.95
MW010	52.49	24.51	27.98
MW012	52.43	23.9	28.53
4/22/2016			
MW007	52.30	25.90	26.40
MW010	52.49	26.10	26.39
MW012	52.43	25.48	26.95
MW013	47.25	18.64	28.61
MW014	44.63	14.56	30.07
MW015	42.23	11.15	31.08
MW016	41.80	6.80	35.00
MW017	42.29	11.15	31.14
MW018	42.20	13.00	29.20
MW019	46.32	17.47	28.85

Notes:

ft - feet

ft NGVD - feet National Geodetic Vertical Datum

TABLE 3

SUMMARY OF GROUNDWATER QUALITY FIELD PARAMETERS
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	pH (S.U.)	Conductivity (umhos/cm)	Temperature (^{o}C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
February 1999						
MW001	7.15	263	25.9	3.5	NM	20
MW003	7.19	337	25.6	5.3	NM	18
MW004	11.00	361	25.6	5.0	NM	160
MW005	7.45	338	28.2	5.4	NM	8
April 1999						
MW001	7.50	270	27.0	7.9	NM	1
MW003	7.11	342	24.8	5.3	NM	10
MW004	11.18	171	24.8	4.2	NM	168
MW005	6.90	250	27.1	6.5	NM	12
MW006	7.66	280	25.5	3.5	NM	1
MW008	7.42	305	29.5	4.9	NM	4
June 1999						
MW009	7.63	271	30.6	9.2	NM	26
MW010	7.99	296	28.1	5.0	NM	2600
MW011	9.61	150	31.2	7.0	NM	31
January 2001						
MW001	7.45	291	19.1	4.9	NM	0.4
MW003	7.46	367	25.4	2.6	NM	4
MW004	9.39	310	22.8	2.6	NM	2
MW005	6.53	206	27.3	3.8	NM	2
MW006	8.08	286	25.2	1.9	NM	1
MW008	7.65	318	27.6	4.6	NM	1
MW009	7.95	326	26.6	4.0	NM	1
MW010	7.94	254	22.4	5.7	NM	120
MW011	8.27	263	23.2	3.0	NM	5
MW012	8.18	245	24.4	6.4	NM	39
March 2002						
MW003	6.92	305	24.6	3.3	35	2
MW004	7.32	291	24.6	3.3	23	10
MW005	5.75	111	27.1	3.9	52	1
MW006	7.68	238	25.0	1.7	30	9
MW009	7.50	297	28.6	3.8	22	0.3
MW010	7.82	196	26.8	4.2	22	9
August 2002						
MW003	7.40	395	27.9	2.7	98	5
MW004	7.50	380	25.7	2.5	82	0.4
MW005	7.00	128	31.4	3.19	69	0.5
MW006	8.00	254	28.7	1.65	77	0.3
MW009	7.90	318	28.1	3.51	71	1.3
MW010	7.90	239	28.9	2.05	93	0.8
March 2003						
MW003	5.71	575	24.8	2.90	33	1.0
MW004	5.72	549	23.8	2.97	28	1.0
MW005	4.77	187	27.5	4.19	104	1.0
MW006	6.26	382	26.0	1.16	-27	13
MW009	6.05	549	29.1	3.95	36	1.0
MW010	6.23	340	28.0	3.76	20	1.0
October 2003						
MW003	6.86	314	26.2	2.86	-2	2.8
MW004	6.98	296	24.5	3.39	-9	0.8
MW005	5.74	113	29.8	4.87	-75	6.7
MW006	7.56	231	27.1	1.07	-49	3
MW009	7.29	329	20.9	4.25	-27	2.3
MW010	7.89	216	27.2	1.87	-64	4.1

TABLE 3

SUMMARY OF GROUNDWATER QUALITY FIELD PARAMETERS
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	pH (S.U.)	Conductivity (umhos/cm)	Temperature (^{o}C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
July 2004						
MW003	7.28	380	26.1	3.91	NM	1.0
MW004	7.45	363	24.6	2.71	NM	1.0
MW005	5.86	126	32.8	3.94	NM	1.0
MW006	8.06	249	31.0	1.14	NM	0.1
MW009	7.14	183	33.1	2.38	NM	4.0
MW010	8.27	243	29.5	3.64	NM	7.0
August 2005						
MW003	6.99	393	28.6	2.00	76	1.9
MW005	5.34	136	31.3	4.83	190	1.3
MW006	7.85	268	29.9	1.06	179	1.2
MW007	7.04	554	32.7	0.46	227	4.0
MW008	7.21	366	32.1	3.36	87	1.6
MW009	7.32	460	31.5	4.71	68	2.4
MW010	8.19	262	33.5	1.85	182	6.0
June 2010						
MW003	6.63	907	32.9	0.96	126	11
MW004	6.95	322	23.8	2.62	105	0.15
MW005	5.26	159	33	1.36	154	6.3
MW006	7.57	281	34	0.29	-170	12
MW007	6.39	601	32	1.39	-31	3
MW009	5.71	406	33	1.29	-136	4.8
MW010	5.96	240	32.1	2.86	101	7.7
October 2012						
MW007	6.46	584	26.1	0.67	-54	0.41
MW010	6.81	259	22.2	1.37	-64	1.23
MW012	6.46	267	25.3	1.31	-45	0.35
February 2014						
MW007	6.95	712	28.2	1.03	59	0.36
MW010	8.06	288	23	6.97	10	2.44
MW012	7.89	322	28.1	3.8	33	0.8
January 2015						
MW007	6.74	673	16.6	1.44	88	0.59
MW010	7.14	308.9	18.2	2.45	83	1.12
MW012	7.6	342.7	18.7	2.43	69	0.62
April 2016						
MW007	6.79	838	26.6	0.64	-320	0.82
MW010	7.21	411.8	26.3	0.46	-336	0.44
MW012	7.62	419.1	27.3	1.42	-292	0.32
MW013	7.2	447	24.7	1.33	33	1.88
MW014	5.64	253	26.4	3.57	102	0.5
MW015	6.6	563	27.7	0.47	-311	4.26
MW016	5.97	396	25.9	3.15	86	0.73
MW017	6.95	656	28.3	0.43	-328	0.72
MW018	7.62	400.4	29.7	0.28	-360	1.2
MW019	7.17	401	25.7	2.48	38	0.63

Notes:
S.U. - standard units
umhos/cm - micromhos per centimeter
^{o}C - degrees celsius
mg/L - milligrams per liter
mV - millivolts
NTU - nephelometric turbidity units
NM - not measured

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	Date Sampled	Sample Interval (ft bls)	PCE (mg/L)	TCE (mg/L)	cDCE (mg/L)	tDCE (mg/L)	VC (mg/L)
GCTL			3	3	70	100	1
NADSC			300	300	700	1000	100
MW001	2/18/1999	16-19	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6
	4/2/1999	16-19	< 0.98	< 0.77	< 0.87	< 0.85	< 0.81
	1/25/2001	16-19	< 1	< 1	< 1	< 1	< 1
MW002	2/18/1999	23-25	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6
	4/2/1999	23-25	< 0.98	< 0.77	< 0.87	< 0.85	< 0.81
MW003	2/18/1999	17-22	**50**	< 0.8	< 0.7	< 0.5	< 0.6
	4/2/1999	17-22	**27**	< 0.77	< 0.87	< 0.85	< 0.81
	1/26/2001	17-22	**21**	< 1	< 1	< 1	< 1
	3/22/2002	17-22	**27**	< 1	< 1	< 1	< 1
	8/5/2002	17-22	**21.4**	< 1	< 1	< 1	< 1
	3/14/2003	17-22	**16.0**	< 1	< 1	< 1	< 1
	10/20/2003	17-22	**11.2**	< 1	< 1	< 1	< 1
	7/30/2004	17-22	**10.8**	< 1	< 1	< 1	< 1
	8/25/2005	17-22	**5.2**	< 1	< 1	< 1	< 1
	5/3/2006	17-22	**6.2**	< 0.13	< 0.098	< 0.11	< 0.31
	9/15/2006	17-22	**6.5**	< 0.13	< 0.098	< 0.11	< 0.31
	10/26/2006	17-22	**4.8**	< 0.2	1.6	< 0.2	< 0.09
	1/8/2007	17-22	2.7	< 0.23	5.4	< 0.25	< 0.21
	5/9/2007	17-22	2.6	< 0.23	4.1	< 0.25	< 0.21
	6/24/2008	17-22	< 0.56	< 0.36	1.8	< 0.26	< 0.4
	1/6/2009	17-22	2.7	< 0.42	1.8	< 0.23	< 0.28 J3
	7/22/2009	17-22	**3.1**	< 0.42	1.3	< 0.23	< 0.28
	6/24/2010	17-22	1.8	0.54	1.6	< 0.33	< 0.18
MW004	2/18/1999	16-20	**25**	< 0.8	< 0.7	< 0.5	< 0.6
	4/2/1999	16-20	**53**	< 0.77	< 0.87	< 0.85	< 0.81
	1/25/2001	16-20	**25**	< 1	< 1	< 1	< 1
	3/22/2002	16-20	**30**	< 1	< 1	< 1	< 1
	8/5/2002	16-20	**27.6**	< 1	< 1	< 1	< 1
	3/14/2003	16-20	**19.6**	< 1	< 1	< 1	< 1
	10/20/2003	16-20	**17.2**	< 1	< 1	< 1	< 1
	7/30/2004	16-20	**9.2**	< 1	< 1	< 1	< 1
	5/25/2010	16-20	2.3	< 0.19	< 0.19	< 0.33	< 0.18
MW005	2/18/1999	18-28	**97**	< 0.8	< 0.7	< 0.5	< 0.6
	4/2/1999	18-28	**26**	< 0.77	< 0.87	< 0.85	< 0.81
	1/26/2001	18-28	**92**	< 1	< 1	< 1	< 1
	3/22/2002	18-28	**69**	< 1	< 1	< 1	< 1
	8/5/2002	18-28	**37.7**	< 1	< 1	< 1	< 1
	3/14/2003	18-28	**25.0**	< 1	< 1	< 1	< 1
	10/20/2003	18-28	**29.7**	< 1	< 1	< 1	< 1
	7/30/2004	18-28	**65.2**	< 1	< 1	< 1	< 1
	8/25/2005	18-28	**39.3**	< 1	< 1	< 1	< 1
	5/3/2006	18-28	**56.6**	< 0.13	< 0.098	< 0.11	< 0.31
	9/15/2006	18-28	**32.9**	1	3.3	< 0.11	< 0.31
	10/26/2006	18-28	**30**	0.4 I	6.9	< 0.2	< 0.09
	1/8/2007	18-28	**43.8**	< 0.23	7.4	< 0.25	< 0.21
	5/9/2007	18-28	**35.1**	1.7	19	< 0.25	< 0.21
	6/24/2008	18-28	**24.6**	1.2	16.3	< 0.26	< 0.4
	1/6/2009	18-28	**26.5**	1.4	12.7	< 0.23	< 0.28 J3
	7/22/2009	18-28	**23.3**	2.3	15.5	< 0.23	< 0.28
	6/24/2010	18-28	**16.6**	2.1	7	< 0.33	< 0.18

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	Date Sampled	Sample Interval (ft bls)	PCE (mg/L)	TCE (mg/L)	cDCE (mg/L)	tDCE (mg/L)	VC (mg/L)
MW006	4/2/1999	42-47	< 0.98	< 0.77	< 0.87	< 0.85	< 0.81
	1/26/2001	42-47	1.4	< 1	< 1	< 1	< 1
	3/22/2002	42-47	**8.5**	< 1	< 1	< 1	< 1
	8/5/2002	42-47	**11.4**	< 1	< 1	< 1	< 1
	3/14/2003	42-47	**5.0**	< 1	< 1	< 1	< 1
	10/20/2003	42-47	3.0	< 1	< 1	< 1	< 1
	7/30/2004	42-47	**6.3**	< 1	< 1	< 1	< 1
	8/25/2005	42-47	**4.8**	< 1	< 1	< 1	< 1
	5/3/2006	42-47	2.5	< 0.13	< 0.098	< 0.11	< 0.31
	9/15/2006	42-47	1.1	< 0.13	< 0.098	< 0.11	< 0.31
	10/26/2006	42-47	1.9	< 0.2	< 0.2	< 0.2	< 0.09
	1/8/2007	42-47	1.6	< 0.23	< 0.29	< 0.25	< 0.21
	5/9/2007	42-47	1.5	< 0.23	< 0.29	< 0.25	< 0.21
	6/24/2008	42-47	1.3	< 0.36	< 0.46	< 0.26	< 0.4
	1/6/2009	42-47	0.36 I	< 0.42	< 0.29	< 0.23	< 0.28 J3
	7/22/2009	42-47	**4.3**	< 0.42	0.71 I	< 0.23	< 0.28
MW007	4/2/1999	24-31	< 0.98	< 0.77	< 0.87	< 0.85	< 0.81
	8/25/2005	24-31	1.6	< 1	< 1	< 1	< 1
	7/22/2009	24-31	**3.9**	< 0.42	< 0.29	< 0.23	< 0.28
	6/24/2010	24-31	0.98	< 0.19	0.51	< 0.33	< 0.18
	10/30/2012	24-31	0.85	0.19 U	0.19 U	0.33 U	0.18 U
	2/19/2014	24-31	3.1	0.19 U	0.19 U	0.33 U	0.18 U
	1/9/2015	24-31	1.2	0.19 U	0.19 U	0.33 U	0.18 U
	4/22/2016	24-31	1.29	0.400 U	0.400 U	0.400 U	0.400 U
MW008	4/2/1999	16-26	1.40	< 0.77	< 0.87	< 0.85	< 0.81
	1/26/2001	16-26	< 1	< 1	< 1	< 1	< 1
	8/25/2005	16-26	1.7	< 1	< 1	< 1	< 1
MW009	6/8/1999	25-35	**3.3**	< 0.36	< 0.2	< 0.42	< 0.25
	1/26/2001	25-35	**6.0**	< 1	< 1	< 1	< 1
	3/22/2002	25-35	**4.6**	< 1	< 1	< 1	< 1
	8/5/2002	25-35	< 1	< 1	< 1	< 1	< 1
	3/14/2003	25-35	**3.4**	< 1	< 1	< 1	< 1
	10/20/2003	25-35	**3.3**	< 1	< 1	< 1	< 1
	7/30/2004	25-35	1.6	< 1	< 1	< 1	< 1
	8/25/2005	25-35	**4.2**	< 1	< 1	< 1	< 1
	5/3/2006	25-35	**3.8**	< 0.13	< 0.098	< 0.11	< 0.31
	9/15/2006	25-35	**4**	< 0.13	< 0.098	< 0.11	< 0.31
	10/26/2006	25-35	**4.4**	< 0.2	< 0.2	< 0.2	< 0.09
	1/8/2007	25-35	**4.4**	< 0.23	< 0.29	< 0.25	< 0.21
	5/9/2007	25-35	2.2	< 0.23	< 0.29	< 0.25	< 0.21
	6/24/2008	25-35	**3.2**	< 0.36	< 0.46	< 0.26	< 0.4
	1/6/2009	25-35	**12.5**	< 0.42	< 0.29	< 0.23	< 0.28 J3
	7/22/2009	25-35	**3.1**	< 0.42	< 0.29	< 0.23	< 0.28
	6/24/2010	25-35	**21.6**	0.97	1.2	< 0.33	< 0.18

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
TERRACE CLEANERS
TEMPLE TERRACE, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID#: 299501362

Point ID	Date Sampled	Sample Interval (ft bls)	PCE (mg/L)	TCE (mg/L)	cDCE (mg/L)	tDCE (mg/L)	VC (mg/L)
MW010	6/8/1999	35-40	**7.0**	< 0.36	< 0.2	< 0.42	< 0.25
	1/25/2001	35-40	**5.1**	< 1	< 1	< 1	< 1
	3/22/2002	35-40	**4.6**	< 1	< 1	< 1	< 1
	8/5/2002	35-40	**8.3**	< 1	< 1	< 1	< 1
	3/14/2003	35-40	**6.1**	< 1	< 1	< 1	< 1
	10/20/2003	35-40	**4.8**	< 1	< 1	< 1	< 1
	7/30/2004	35-40	**6.5**	< 1	< 1	< 1	< 1
	8/25/2005	35-40	**9.0**	< 1	< 1	< 1	< 1
	5/3/2006	35-40	**8.9**	< 0.13	< 0.098	< 0.11	< 0.31
	9/15/2006	35-40	**8.3**	0.64	0.12	< 0.11	< 0.31
	10/26/2006	35-40	**11**	0.65 I	< 0.2	< 0.2	< 0.09
	1/8/2007	35-40	**8.7**	< 0.23	< 0.29	< 0.25	< 0.21
	6/24/2008	35-40	1.9	< 0.36	< 0.46	< 0.26	< 0.4
	1/6/2009	35-40	**17.4**	0.67 I	< 0.29	< 0.23	< 0.28 J3
	7/22/2009	35-40	**16**	1.3	< 0.29	< 0.23	< 0.28
	6/24/2010	35-40	**16.1**	1.4	0.24 I	< 0.33	< 0.18
	10/30/2012	35-40	**6.4**	0.32 I	0.19 U	0.33 U	0.18 U
	2/19/2014	35-40	2.2	0.19 U	0.19 U	0.33 U	0.18 U
	1/9/2015	35-40	**4.4**	0.19 U	0.19 U	0.33 U	0.18 U
	4/22/2016	35-40	2.58	0.400 U	0.400 U	0.400 U	0.400 U
MW011	6/8/1999	25-30	0.36	< 0.36	< 0.2	< 0.42	< 0.25
	1/26/2001	25-30	< 1	< 1	< 1	< 1	< 1
MW012	1/25/2001	42-52	2.7	< 1	< 1	< 1	< 1
	10/30/2012	42-52	**5.2**	0.25 I	0.19 U	0.33 U	0.18 U
	2/19/2014	42-52	**3.7**	0.19 U	0.19 U	0.33 U	0.18 U
	1/9/2015	45-52	3	0.19 U	0.19 U	0.33 U	0.18 U
	4/22/2016	45-52	2.89	0.400 U	0.400 U	0.400 U	0.400 U
MW013	4/22/2016	25-40	**11.9**	1.31	1.37	0.400 U	0.400 U
MW014	4/22/2016	15-30	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
MW015	4/22/2016	7-22	0.620 I	1.35	1.33	0.400 U	0.400 U
MW016	4/22/2016	5-20	**13.9**	0.500 I	0.400 U	0.400 U	0.400 U
MW017	4/22/2016	10-25	**30.5**	**12.9**	18.9	6.97	1.08
MW018	4/22/2016	42-47	0.510 I J3	0.400 U	0.400 U	0.400 U	0.400 U
MW019	4/22/2016	15-30	3.01	0.400 U	0.400 U	0.400 U	0.400 U

Notes:

ft bls - feet below land surface

mg/L - micrograms per liter

PCE - tetrachloroethene

TCE -trichloroethene

cDCE - cis-1,2-dichloroethene

tDCE - trans-1,2-dichloroethene

VC - vinyl chloride

< - Indicates that the compound was analyzed for but not detected above the methoddetection limit (MDL)

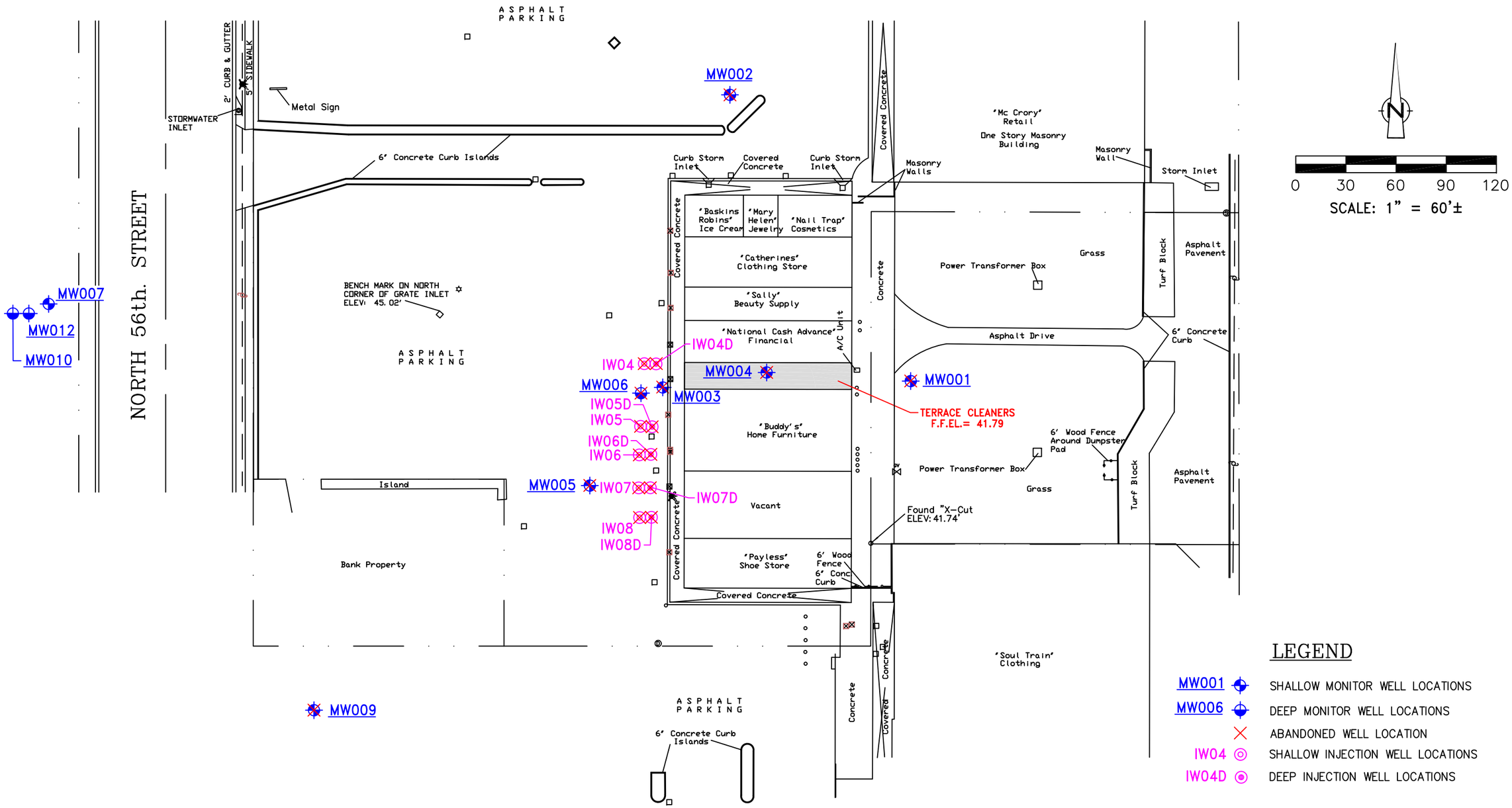
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

Red indicates values exceed GCTL value

Blue indicates value exceeds NADSC

Shaded indicates most recent sampling event

Appendix A
Historical Site Data

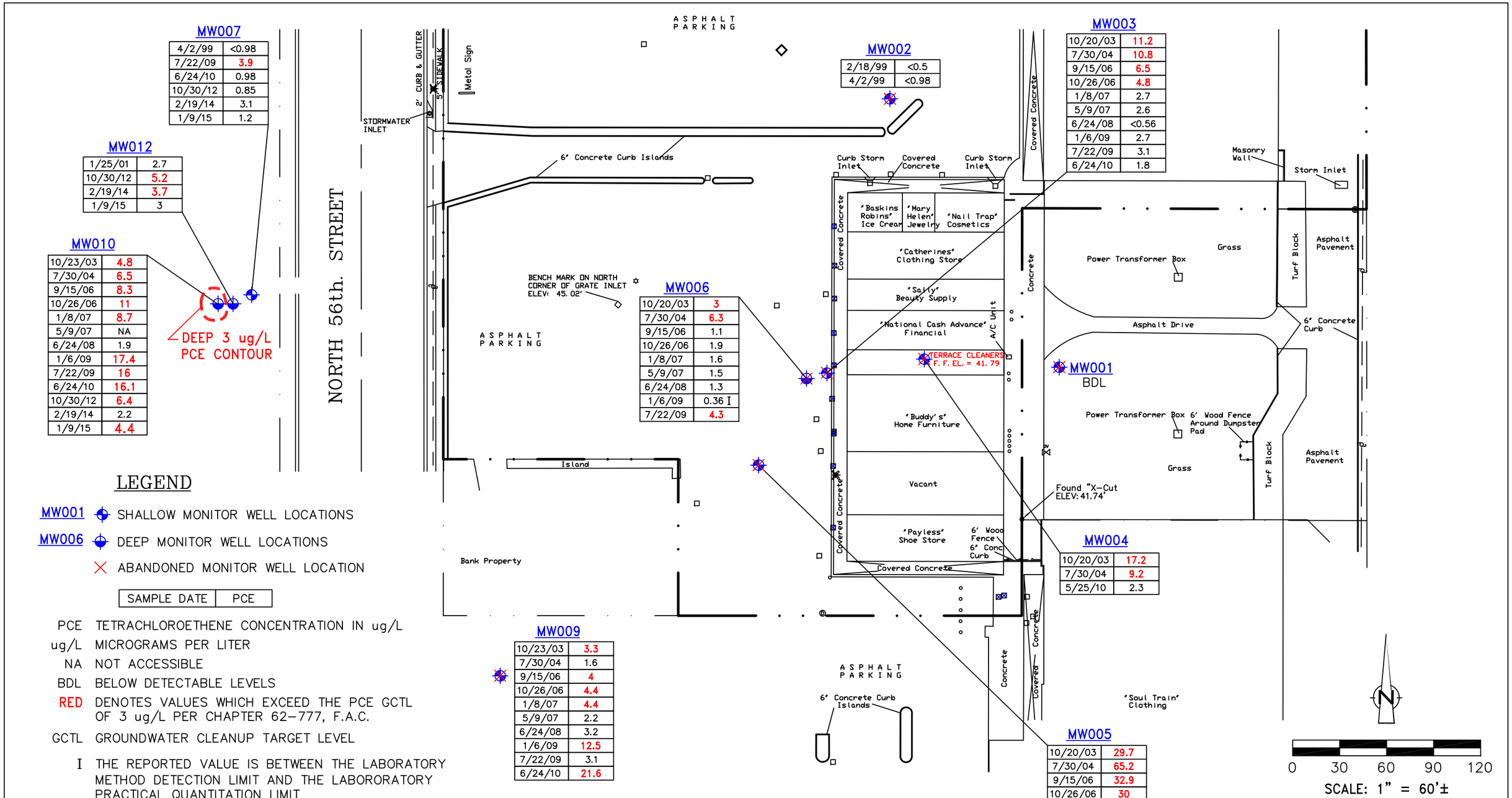


NOTE:
SITE PLAN SHOWN IS HISTORICAL AND FOR REFERENCE, CURRENT LOT IS A PAVED AREA

MW008 MW011

Figure 2
MONITORING WELL and INJECTON WELL LOCATION PLAN
TERRACE CLEANERS
8866 NORTH 56th STREET
TEMPLE TERRACE, FLORIDA

090126



MW007

4/2/99	<0.98
7/22/09	3.9
6/24/10	0.98
10/30/12	0.85
2/19/14	3.1
1/9/15	1.2

MW012

1/25/01	2.7
10/30/12	5.2
2/19/14	3.7
1/9/15	3

MW010

10/23/03	4.8
7/30/04	6.5
9/15/06	8.3
10/26/06	11
1/8/07	8.7
5/9/07	NA
6/24/08	1.9
1/6/09	17.4
7/22/09	16
6/24/10	16.1
10/30/12	6.4
2/19/14	2.2
1/9/15	4.4

MW002

2/18/99	<0.5
4/2/99	<0.98

MW003

10/20/03	11.2
7/30/04	10.8
9/15/06	6.5
10/26/06	4.8
1/8/07	2.7
5/9/07	2.6
6/24/08	<0.56
1/6/09	2.7
7/22/09	3.1
6/24/10	1.8

MW006

10/20/03	3
7/30/04	6.3
9/15/06	1.1
10/26/06	1.9
1/8/07	1.6
5/9/07	1.5
6/24/08	1.3
1/6/09	0.36 I
7/22/09	4.3

MW001
BDL

MW004

10/20/03	17.2
7/30/04	9.2
5/25/10	2.3

MW009

10/23/03	3.3
7/30/04	1.6
9/15/06	4
10/26/06	4.4
1/8/07	4.4
5/9/07	2.2
6/24/08	3.2
1/6/09	12.5
7/22/09	3.1
6/24/10	21.6

MW005

10/20/03	29.7
7/30/04	65.2
9/15/06	32.9
10/26/06	30
1/8/07	43.8
5/9/07	35.1
6/24/08	24.6
1/6/09	26.5
7/22/09	23.3
6/24/10	16.6

LEGEND

MW001 SHALLOW MONITOR WELL LOCATIONS

MW006 DEEP MONITOR WELL LOCATIONS

ABANDONED MONITOR WELL LOCATION

SAMPLE DATE	PCE

PCE TETRACHLOROETHENE CONCENTRATION IN ug/L

ug/L MICROGRAMS PER LITER

NA NOT ACCESSIBLE

BDL BELOW DETECTABLE LEVELS

RED DENOTES VALUES WHICH EXCEED THE PCE GCTL OF 3 ug/L PER CHAPTER 62-777, F.A.C.

GCTL GROUNDWATER CLEANUP TARGET LEVEL

I THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE LABORORATORY PRACTICAL QUANTITATION LIMIT

NOTE:
SITE PLAN SHOWN IS HISTORICAL AND FOR REFERENCE, CURRENT LOT IS A PAVED AREA

MW008

4/2/99	1.4
1/26/01	<1

MW011

6/8/99	0.39
1/26/01	<1

Figure 4
VOC CONCENTRATION MAP
TERRACE CELANERS
8866 NORTH 56th STREET
TEMPLE TERRACE, FLORIDA

09620806

Appendix B
Boring Logs and Completion Diagrams

BORING LOG

Boring/Well Number: MW013	Permit Number:	FDEP Facility Identification Number: 299501362
Site Name: Former Terrace Cleaners	Borehole Start Date: 04/19/16 End Date: 04/19/16	Borehole Start Time: 11:35 ☑ AM ☐ PM End Time: 13:30 ☐ AM ☑ PM
Environmental Contractor: GHD Services, Inc	Geologist's Name: G. Enos	Environmental Technician's Name: --
Drilling Company: National Enviornmental Tech	Pavement Thickness (inches): grassed	Borehole Diameter (inches): 6¼
Borehole Depth (feet): 40		
Drilling Method(s): Hollow stem	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):
OVA (list model and check type): ☐ FID ☐ PID		

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
PH							1 2 3 4	SAND - Light gray to light brown, very fine to fine grained	SP	D	
DC							5 6 7 8 9 10	SAND - very light gray to white, very fine to fine grained	SP	D	
							11 12	SAND - yellowish orange, fine grained, trace clay			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:
MW013	299501362	Former Terrace Cleaners	04/19/16
			End Date: 04/19/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							13	CLAYEY SAND - light brown to dark yellowish orange			
							14		SP/SC		
							15				
							16				
								CLAY - dark yellowish orange, trace sand, soft			
							17				
							18				
							19				
							20				
DC							21				
							22		CL		
							23				
							24				
							25				
							26				
							27				
								Slight bit chatter, no returns, possible top of limestone			
							28				
							29		LS		
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:
MW013	299501362	Former Terrace Cleaners	04/19/16
			End Date: 04/19/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
								No Returns			
							31				
							32				
							33	Bit chatter			
							34		LS		
DC							35				
							36				
							37				
							38				
								SANDY CLAY - grey, with limestone fragments			
							39		CL	S	
							40				
								EOB at 40 ft. Install well, TD=40 ft, SI - 25 to 40 ft			
							41				
							42				
							43				
							44				
							45				
							46				
							47				
							48				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: MW014	Permit Number:	FDEP Facility Identification Number: 299501362
Site Name: Former Terrace Cleaners	Borehole Start Date: 04/19/16 End Date: 04/19/16	Borehole Start Time: 08:45 ☑ AM ☐ PM End Time: 09:55 ☑ AM ☐ PM
Environmental Contractor: GHD Services, Inc	Geologist's Name: G. Enos	Environmental Technician's Name: --

Drilling Company: National Enviornmental Tech	Pavement Thickness (inches): grassed	Borehole Diameter (inches): 6¼	Borehole Depth (feet): 30
Drilling Method(s): Hollow stem	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
PH							1	SAND - very pale orange to white, very fine to fine grained	SP	D	
							2				
							3				
							4				
DC							5				
							6				
							7	CLAYEY SAND/SANDY CLAY - dark yellowish orange	SP/SC	D	
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:	
MW014	299501362	Former Terrace Cleaners	End Date:	04/19/16
				04/19/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							13	CLAYEY SAND/SANDY CLAY - dark yellowish orange	SP/SC	D	
							14	SANDY CLAY - reddish orange, soft	SC		
							15	CLAY - dark yellowish orange, soft, trace sand	CL		
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23				
							24				
							25			M	
							26				
							27				
							28	No returns while drilling. Limestone and clay on augers hwen retracted from boring. Slight bit chatter at 29 feet. EOB at 30 feet. TD = 30, SI = 15 to 30 feet	LS	S	
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:	
MW015	299501362	Former Terrace Cleaners	End Date:	04/18/16
				04/18/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							13	CLAY - dark yellowish orange, soft, trace sand	CL	D	
							14				
							15				
							16	CLAY - dark yellowish orange to light greenish gray, soft, trace sand	CL		
							17				
							18				
							19			W	
							20				
							21				
							22				
							23	EOB at 22 feet. Install well TD = 22 ft, SI=7-22 ft			
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:	
MW015	299501362	Former Terrace Cleaners	End Date:	04/18/16
				04/18/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							13	CLAY - dark yellowish orange, soft, trace sand	CL	D	
							14				
							15	CLAY - dark yellowish orange to light greenish gray, soft, trace sand	CL		
							16				
							17				
							18				
							19			W	
							20				
							21				
							22	EOB at 22 feet. Install well TD = 22 ft, SI=7-22 ft			
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: MW016	Permit Number:	FDEP Facility Identification Number: 299501362
Site Name: Former Terrace Cleaners	Borehole Start Date: 04/18/16 End Date: 04/18/16	Borehole Start Time: 09:40 ☑ AM ☐ PM End Time: 10:40 ☑ AM ☐ PM
Environmental Contractor: GHD Services, Inc	Geologist's Name: G. Enos	Environmental Technician's Name: --
Drilling Company: National Enviornmental Tech	Pavement Thickness (inches): asphalt with base - 10"	Borehole Diameter (inches): 6¼ / Borehole Depth (feet): 20
Drilling Method(s): Hollow stem	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well): / OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
PH							1, 2, 3, 4	SAND - Light to moderate brown, very fine to fine grained	SP	D	
DC							5, 6, 7, 8, 9, 10, 11, 12	SAND - Light to moderate brown, very fine to fine grained, with trace soft clay			

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:	
MW016	299501362	Former Terrace Cleaners	End Date:	04/18/16
				04/18/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							13	SAND - moderate brown, fine grained, trace clay	SP	D	
							14				
								CLAYEY SAND - dark yellowish orange	SC		
							15	CLAY - dark yellowish orange, trace sand, soft	CL	W	
							16				
							17				
							18				
							19				
							20	EOB at 20 feet. Install Well TD=20 ft, SI = 5-20 feet			
							21				
							22				
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: MW017	Permit Number:	FDEP Facility Identification Number: 299501362
Site Name: Former Terrace Cleaners	Borehole Start Date: 04/18/16 End Date: 04/18/16	Borehole Start Time: 11:50 ☑ AM ☐ PM End Time: 13:11 ☐ AM ☑ PM
Environmental Contractor: GHD Services, Inc	Geologist's Name: G. Enos	Environmental Technician's Name: --
Drilling Company: National Enviornmental Tech	Pavement Thickness (inches): grassed	Borehole Diameter (inches): 6¼ / Borehole Depth (feet): 25
Drilling Method(s): Hollow stem	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well): / OVA (list model and check type): ☐ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
PH							1 2 3 4	SAND - Light gray to light brown, grading to white, very fine to fine grained	SP	D	
DC							5 6 7 8 9 10	SAND - light brown, very fine to fine grained	SP	D	
							11 12	SANDY CLAY - light yellowish orange, soft	SC		

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date: / End Date:
MW017	299501362	Former Terrace Cleaners	04/18/16 / 04/18/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							13	CLAY - light grey to light yellowish orange, trace sand, soft	CL	D	
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23	Bit chatter at 22 ft, possible top of limestone. Augers returned CLAYEY SAND/SANDY CLAY - light gray	SC/LS	S	
							24				
							25				
							26				
							27				
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: MW018	Permit Number:	FDEP Facility Identification Number: 299501362
Site Name: Former Terrace Cleaners	Borehole Start Date: 04/20/16 End Date: 04/20/16	Borehole Start Time: 09:00 ☑ AM ☐ PM End Time: 13:35 ☐ AM ☑ PM
Environmental Contractor: GHD Services, Inc	Geologist's Name: G. Enos	Environmental Technician's Name: --
Drilling Company: National Enviornmental Tech	Pavement Thickness (inches): grassed	Borehole Diameter (inches): 6¼
Borehole Depth (feet): 47		
Drilling Method(s): Hollow stem	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):
OVA (list model and check type): ☐ FID ☐ PID		

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
PH							1	SAND - very light gray to white, very fine to fine grained	SP	D	
							2				
							3				
							4				
DC							5				
							6				
							7				
							8				
							9	SAND - dark yellowish orange, fine grained, trace clay			
							10				
							11	as above, grading to a CLAYEY SAND/SANDY CLAY	SP/SC		
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:	
MW018	299501362	Former Terrace Cleaners	End Date:	04/19/16
				04/19/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
								CLAYEY SAND/SANDY CLAY			
							13		SP/SC		
							14	CLAY - dark yellowish orange, trace sand, soft			
							15				
							16				
								CLAY - light greenish gray, soft			
							17				
							18				
							19				
							20		CL		
DC							21			D	
							22				
							23				
							24				
								Bit chatter at 24 ft, possible limestone, minimal returns as still light greenish gray clay			
							25				
							26				
							27		CL/LS		
							28				
							29				
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date:	
MW018	299501362	Former Terrace Cleaners	End Date:	04/20/16
				04/20/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							31	As above, minimal returnd. Hard drilling	CL/LS	D	
							32				
							33				
							34				
							35	Drilling speed increased			
							36				
							37				
							38				
							39				
							40				
							41				
							42				
							43	returns show light gray clay and limestone fragments		S	
							44				
							45	Hard drilling, no returns			
							46				
							47	EOB at 47 feet, Install well, TD = 47 ft, SI = 42-47 ft			
							48				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: MW019	Permit Number:	FDEP Facility Identification Number: 299501362
Site Name: Former Terrace Cleanrs	Borehole Start Date: 04/19/16 End Date: 04/19/16	Borehole Start Time: 10:00 ☑ AM ☐ PM End Time: 11:35 ☑ AM ☐ PM
Environmental Contractor: GHD Services, Inc	Geologist's Name: G. Enos	Environmental Technician's Name: --
Drilling Company: National Enviornmental Tech	Pavement Thickness (inches): grassed	Borehole Diameter (inches): 6¼
Borehole Depth (feet): 40		
Drilling Method(s): Hollow stem	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):
OVA (list model and check type): ☐ FID ☐ PID		

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☑ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
PH							1	SAND - very light gray to white, fine grained	SP	D	
							2				
							3				
							4				
DC							5				
							6				
							7	CLAYEY SAND/SANDY CLAY - dark yelllowish orange to reddish orange	SP/SC		
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	FDEP Facility Identification Number:	Site Name:	Borehole Start Date: / End Date:
MW019	299501362	Former Terrace Cleaners	04/19/16 / 04/19/16

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							13	CLAYEY SAND/SANDY CLAY - dark yelllowish orange to reddish orange	SP/SC	D	
							14				
							15				
							16				
							17				
							18	CLAY - dark yellowish orange, trace sand	CL		
							19				
							20				
							21				
							22				
							23				
							24				
							25	Slight bit chatter, possible limestone, minimal returns, clay - dark yellowish orange	CL/LS	M	
							26				
							27				
							28				
							29	EOB at 30 feet. Install well, TD = 30 ft, SI = 15-30 ft		S	
							30				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

MONITORING WELL COMPLETION DIAGRAM

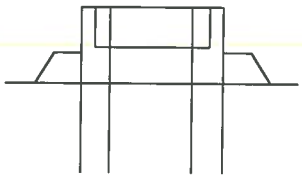
Project Name: Terrace Cleaners | Project Number: 090126 | Date Installed: 4/19/2016 | Well #: MW019

Installation Supervised by: G. Enos | Well Location: SSW

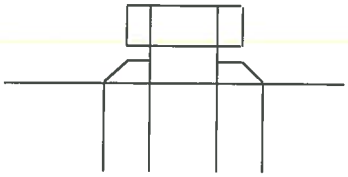
Drilling Method: Direct Push

Driller: National Environmental Technology, Inc. | Well Head Finish Type: A B C X

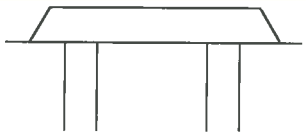
A: Concrete Pad with Locking Protective Cover and Stickup

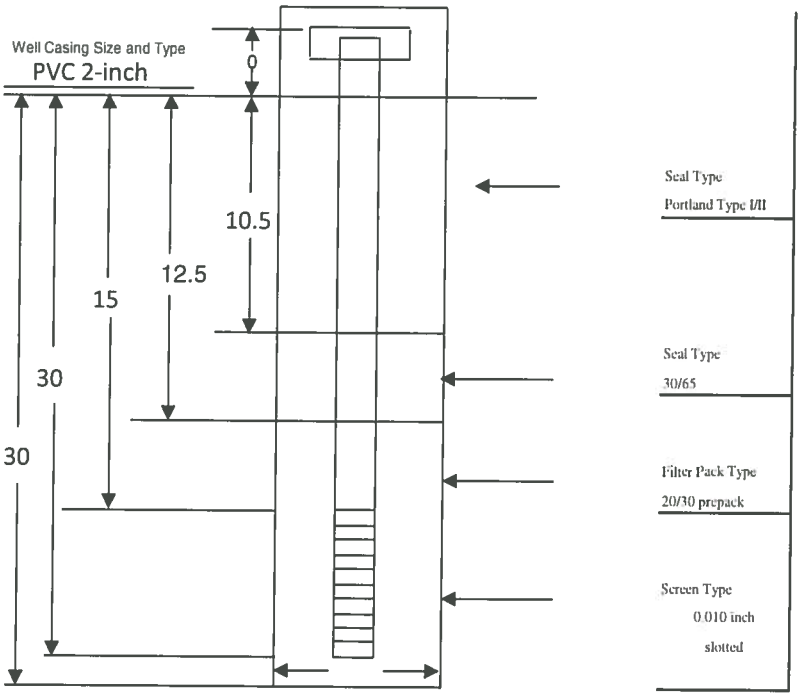


B: Concrete Pad with Locking Cap - No protective Cover



C: Flush - Steel Manhole with Locking Cap





MONITORING WELL COMPLETION DIAGRAM

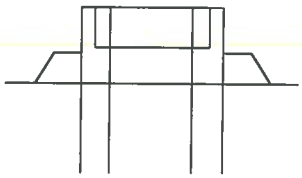
Project Name Terrace Cleaners Project Number 090126 Date Installed 4/18/2016 Well # MW018

Installation Supervised by G. Enos Well Location paired with MW015, near former facility entrance

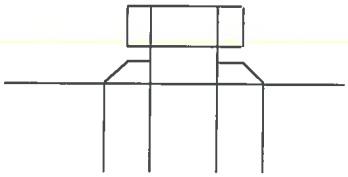
Drilling Method Direct Push

Driller National Environmental Technology, Inc. Well Head Finish Type A B C X

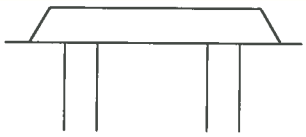
A: Concrete Pad with Locking Protective Cover and Stickup



B: Concrete Pad with Locking Cap - No protective Cover

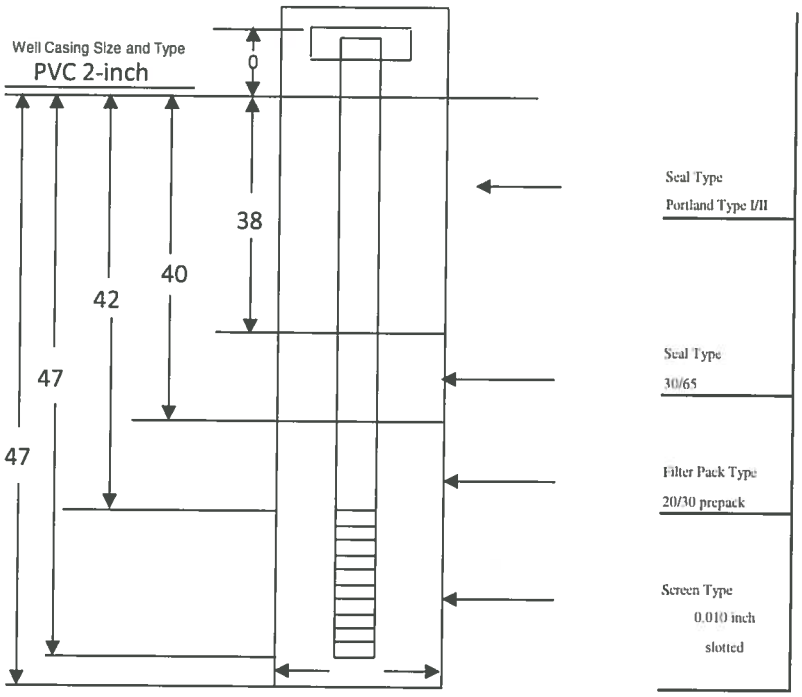


C: Flush - Steel Manhole with Locking Cap



Well Casing Size and Type

PVC 2-inch



MONITORING WELL COMPLETION DIAGRAM

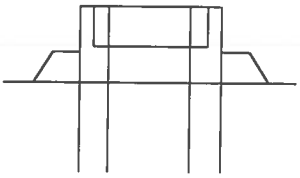
Project Name: Terrace Cleaners | Project Number: 090126 | Date Installed: 4/18/2016 | Well #: MW017

Installation Supervised by: G. Enos | Well Location: near former entrance

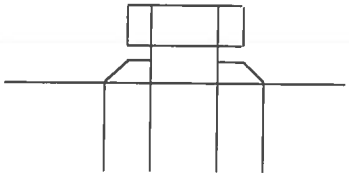
Drilling Method: Direct Push

Driller: National Environmental Technology, Inc. | Well Head Finish Type: A B C X

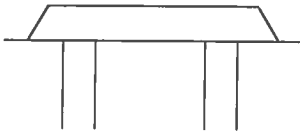
A: Concrete Pad with Locking Protective Cover and Stickup



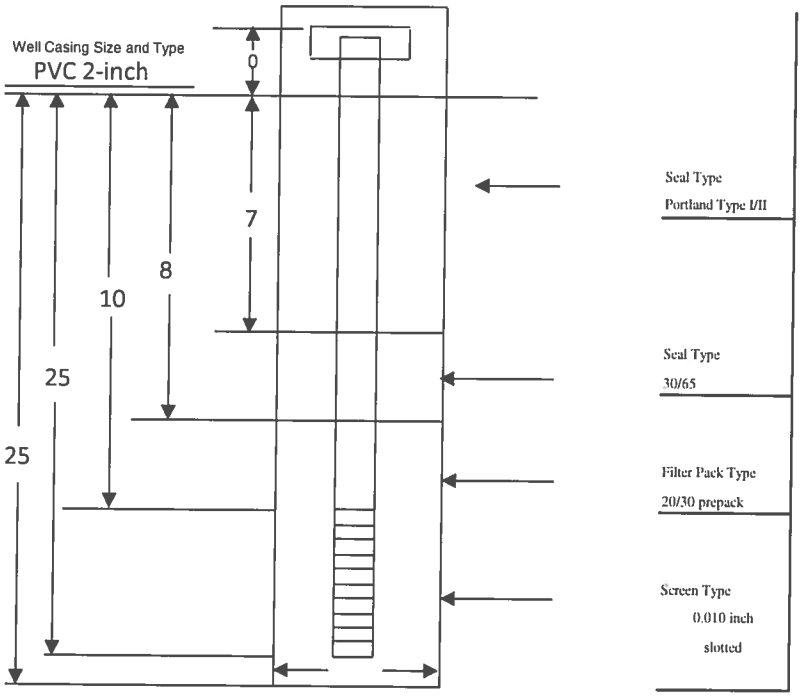
B: Concrete Pad with Locking Cap - No protective Cover



C: Flush - Steel Manhole with Locking Cap



Well Casing Size and Type
PVC 2-inch



MONITORING WELL COMPLETION DIAGRAM

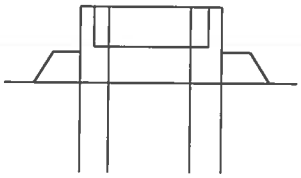
Project Name Terrace Cleaners Project Number 090126 Date Installed 4/18/2016 Well # MW016

Installation Supervised by G. Enos Well Location near former facility footprint

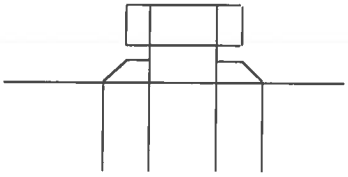
Drilling Method Direct Push

Driller National Environmental Technology, Inc. Well Head Finish Type A B C X

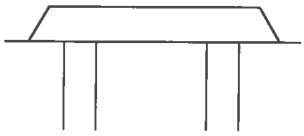
A: Concrete Pad with Locking Protective Cover and Stickup

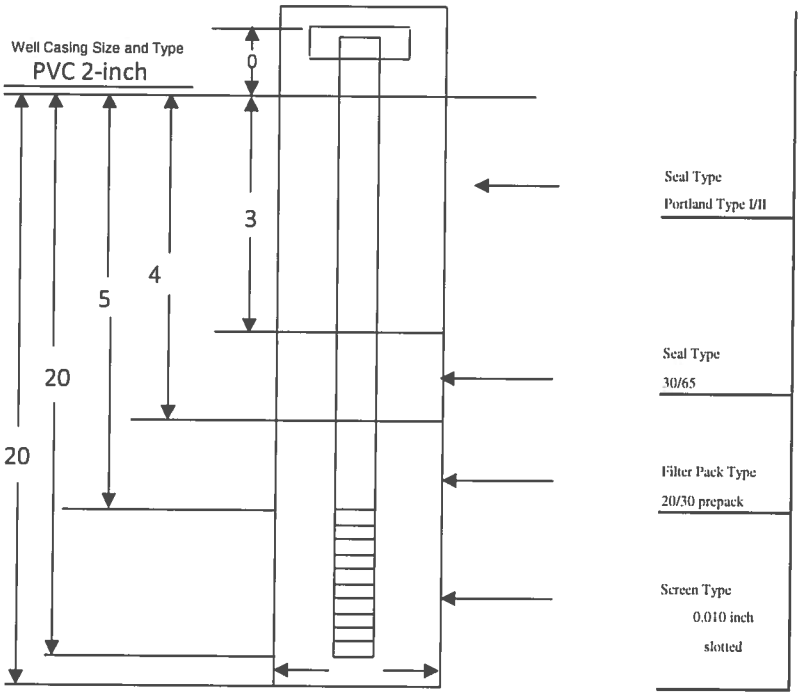


B: Concrete Pad with Locking Cap - No protective Cover



C: Flush - Steel Manhole with Locking Cap





MONITORING WELL COMPLETION DIAGRAM

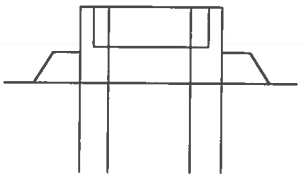
Project Name Terrace Cleaners Project Number 090126 Date Installed 4/18/2016 Well # MW015

Installation Supervised by G. Enos Well Location paired with MW018, near former facility entrance

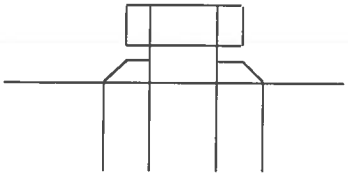
Drilling Method Direct Push

Driller National Environmental Technology, Inc. Well Head Finish Type A B C X

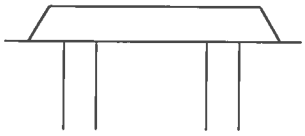
A: Concrete Pad with Locking Protective Cover and Stickup



B: Concrete Pad with Locking Cap - No protective Cover

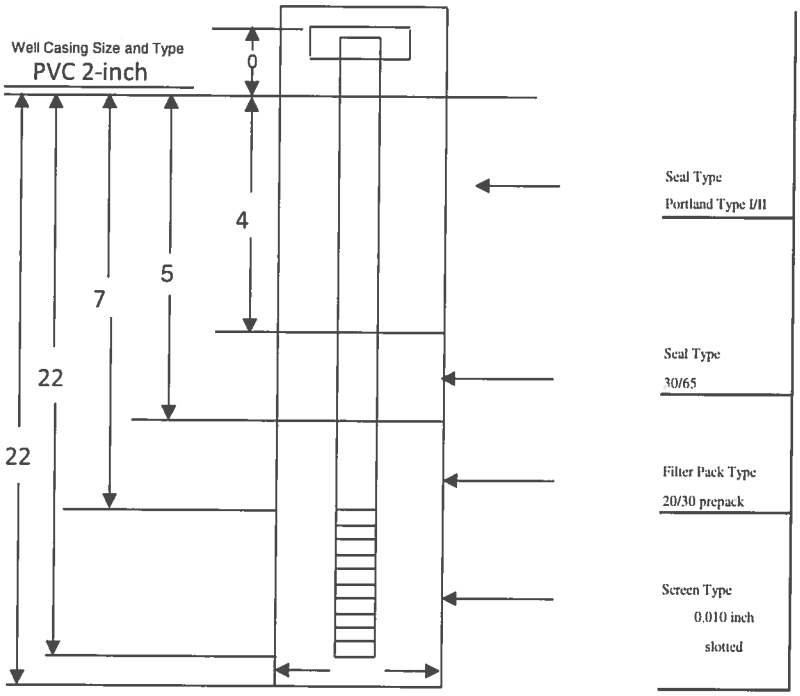


C: Flush - Steel Manhole with Locking Cap



Well Casing Size and Type

PVC 2-inch



MONITORING WELL COMPLETION DIAGRAM

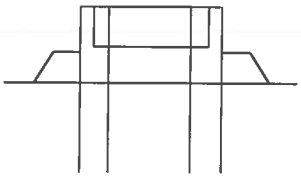
Project Name Terrace Cleaners Project Number 090126 Date Installed 4/19/2016 Well # MW014

Installation Supervised by G. Enos Well Location SSW

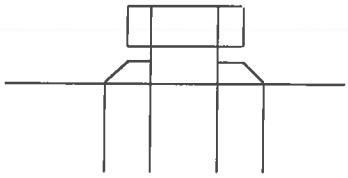
Drilling Method Direct Push

Driller National Environmental Technology, Inc. Well Head Finish Type A B C X

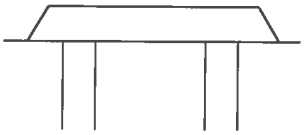
A: Concrete Pad with Locking Protective Cover and Stickup

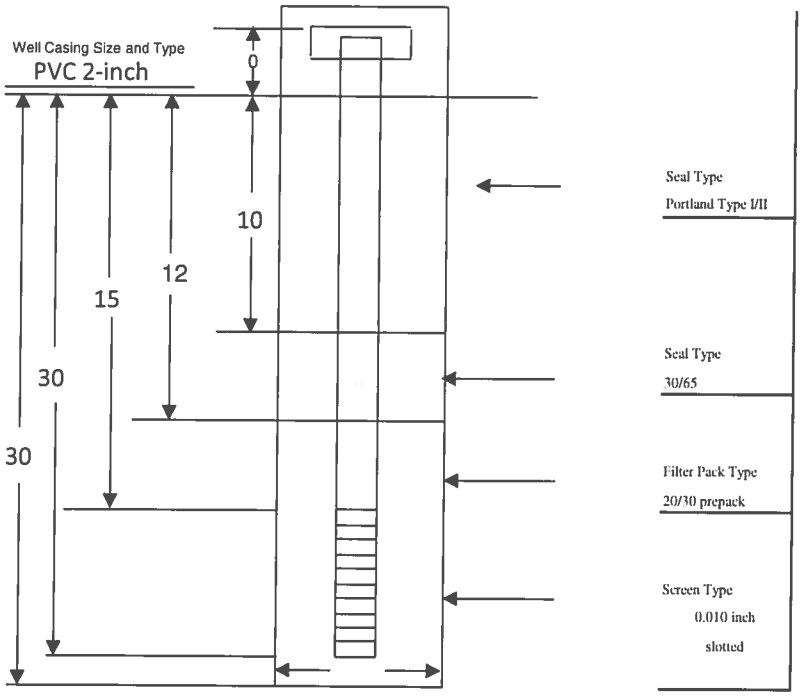


B: Concrete Pad with Locking Cap - No protective Cover



C: Flush - Steel Manhole with Locking Cap





MONITORING WELL COMPLETION DIAGRAM

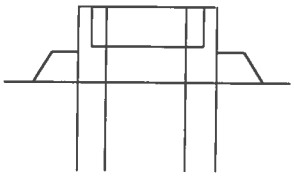
Project Name Terrace Cleaners Project Number 090126 Date Installed 4/19/2016 Well # MW013

Installation Supervised by G. Enos Well Location Center of site near fire hydrant

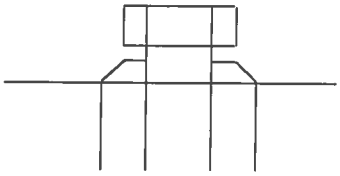
Drilling Method Hollow Stem Auger

Driller National Environmental Technology, Inc. Well Head Finish Type A ☐ B ☐ C X

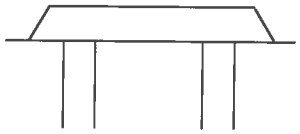
A: Concrete Pad with Locking Protective Cover and Stickup

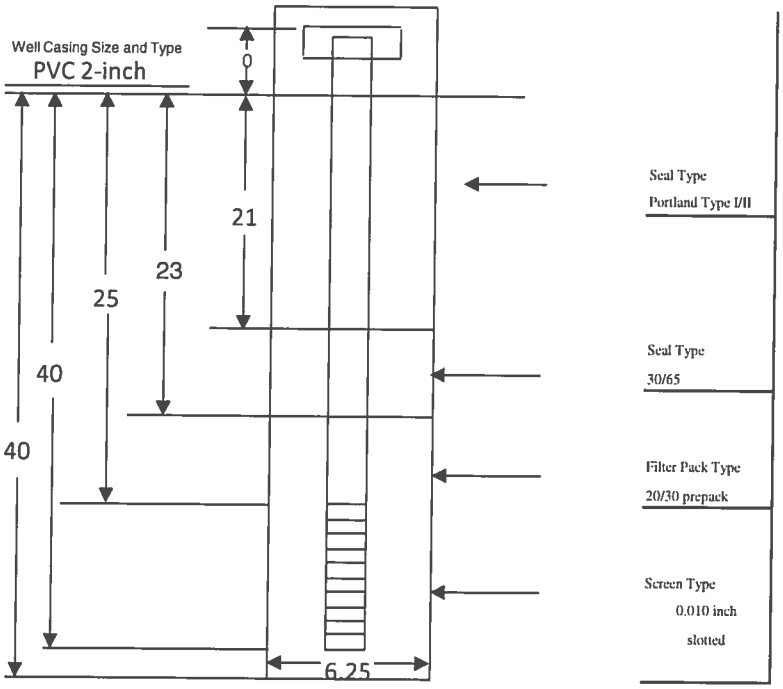


B: Concrete Pad with Locking Cap - No protective Cover



C: Flush - Steel Manhole with Locking Cap





STATE OF FLORIDA WELL COMPLETION REPORT

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

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

Date Stamp
Received:
Apr 23, 2016 10:19 am

Official Use Only

1. *Permit Number 850908 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

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

3. *Owner's Name Vlass Temple Terrace, LLC/ CITY OF TEMPLE TERRACI 4. *Completion Date 04/20/2016 5. Florida Unique ID _____

6. 8913 N 56TH ST Temple Terrace 33617
*Well Location - Address, Road Name or Number, City, ZIP

7. *County HILLSBOROUGH *Section 22 Land Grant _____ *Township 28 *Range 19

8. Latitude 28 01 48.41 Longitude 82 23 33.37

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

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

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

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage
Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____
___ Other (Describe) _____

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

13. *Measured Static Water Level 14.0 ft. Measured Pumping Water Level 20 ft. After 6 Hours at 1 GPM

14. *Measuring Point (Describe) TOP OF CAS Which is 0.3 ft. ___ Above X Below Land Surface *Flowing: ___ Yes ___ No

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

16. *Total Well Depth 47.0 ft. Cased Depth 42.0 ft. *Open Hole: From ___ To ___ ft. *Screen: From 42 To 47 ft. Slot Size ___

17. *Abandonment: ___ Other (Explain) _____
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

19. *Primary Casing Diameter and Depth:
Dia 2.00 in. From 0.00 ft. To 42.00 ft. No. of Bags 20.00 Seal Material (Check One): X Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:
Dia 2.00 in. From 42.00 ft. To 47.00 ft. No. of Bags 6.00 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Sand
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

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

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

24. Water Well Contractor:

*Contractor Name Ross A. Chinander *License Number 11093 E-mail Address netross@tampabay.rr.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) ALEXANDER T STACKPOOLE
(I certify that the information provided in this report is accurate and true.)

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

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

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

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

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

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

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

From	To	Color	Grain Size (F, M, C)	Material
0.0 ft.	11.0 ft.	TAN	VERY FINE	SAND
11.0 ft.	29.0 ft.	ORANGE	NOT APPLI	SANDY CLAY
29.0 ft.	47.0 ft.	TAN	VERY FINE	SAND, LIMESTONE AND CLAY
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
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ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			

Comments: Finish: SCREENED OR SANDPOINT

INSTALLATION OF MW006.

***Detailed Site Map of Well Location**

N

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

STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

- [x] Southwest
- [ ] Northwest
- [ ] St. Johns River
- [ ] South Florida
- [ ] Suwannee River
- [ ] DEP
- [ ] Delegated Authority (If Applicable) _____

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

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. 850908
Florida Unique ID _____
Permit Stipulations Required (See Attached)
23, 39
62-524 Quad No. Q3320 Delineation No. _____
CUP/WUP Application No. _____

ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. Vlass Temple Terrace, LLC/ CITY OF 13334 Peachtree Road, Suite 1703 | Atlanta | GA | 30326 | _____
*Owner, Legal Name if Corporation | *Address | *City | *State | *ZIP | *Telephone Number

2. 8913 N 56TH ST | Temple Terrace
*Well Location - Address, Road Name or Number, City

3. 19282255Z0000D1000000T | _____ | _____ | _____
*Parcel ID No. (PIN) or Alternate Key (Circle One) | Lot | Block | Unit

4. 22 | 28 | 19 | HILLSBOROUGH | _____ | Check if 62-524: ___ Yes X No
*Section or Land Grant | *Township | *Range | *County | Subdivision

5. Ross A. Chinander | 11093 | (813) 655-3612 | netross@tampabay.rr.com
*Water Well Contractor | *License Number | *Telephone Number | E-mail Address

6. 12435 JESS WALDEN ROAD | DOVER | FL | 33527
*Water Well Contractor's Address | City | State | ZIP

7. *Type of Work: X Construction ___ Repair ___ Modification ___ Abandonment _____
*Reason for Repair, Modification, or Abandonment

8. *Number of Proposed Wells 2

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

___ Domestic ___ Landscape Irrigation ___ Agricultural Irrigation ___ Site Investigation
___ Bottled Water Supply ___ Recreation Area Irrigation ___ Livestock X Monitoring
___ Public Water Supply (Limited Use/DOH) ___ Nursery Irrigation ___ Test
___ Public Water Supply (Community or Non-Community/DEP) ___ Commercial/Industrial ___ Earth-Coupled Geothermal
___ Class I Injection ___ Golf Course Irrigation ___ HVAC Supply
___ HVAC Return
Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage
Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____
___ Other (Describe) _____ (Note: Not all types of wells are permitted by a given permitting authority)

Date Stamp
Received:
Apr 14, 2016 9:02 pm
Official Use Only

10. *Distance from Septic System if ≤200 ft. _____ 11. Facility Description VACANT PARCEL 12. Estimated Start Date 04/14/2016

13. *Estimated Well Depth 0 ft. *Estimated Casing Depth 42.0 ft. *Primary Casing Diameter 2 in. Open Hole: From ___ To ___ ft.

14. Estimated Screen Interval: From 42.0 To 47.0 ft.

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

16. Secondary Casing: ___ Telescope Casing ___ Liner ___ Surface Casing Diameter ___ in.

17. Secondary Casing Material: ___ Black Steel ___ Galvanized ___ PVC ___ Stainless Steel ___ Other _____

18. *Method of Construction, Repair, or Abandonment: X Auger ___ Cable Tool ___ Jetted ___ Rotary ___ Sonic
___ Combination (Two or More Methods) ___ Hand Driven (Well Point, Sand Point) ___ Hydraulic Point (Direct Push)
___ Horizontal Drilling ___ Plugged by Approved Method ___ Other (Describe) _____

19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0.0 To 35.0 Seal Material (___ Bentonite X Neat Cement ___ Other _____)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other _____)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other _____)
From ___ To ___ Seal Material (___ Bentonite ___ Neat Cement ___ Other _____)

20. Indicate total number of existing wells on site 4 List number of existing unused wells on site 0

21. *Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ___ Yes X No If yes, complete the following: CUP/WUP No. _____ District Well ID No. _____

22. Latitude 28 01 48.36 Longitude 82 23 33.31

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

I hereby certify that I will comply with the applicable rules of Title 40, Florida Administration Code, and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided in this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after completion of the construction, repair, modification, or abandonment authorized by this permit, or the permit expiration, whichever occurs first.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well; or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to allowing personnel of this WMD or Delegated Authority access to the well site during the construction, repair, modification, or abandonment authorized by this permit.

Digitally Signed | 11093 | Digitally Signed | 4/15/2016
*Signature of Contractor | *License No. | *Signature of Owner or Agent | *Date

DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE ONLY

Approval Granted By Victoria Rayborn STATUS: ISSUED Issue Date 04/15/2016 Expiration Date 07/14/2016 Hydrologist Approval _____ Initials

Fee Received $ 50.00 Receipt No. 23739111 Check No. _____

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.

This permit is valid for 90 days from the date of Issue.

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

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

Comments:

INSTALLATION OF 1 - 2" DIA. MONITORING WELL TO 47' + 1 EXTRA IF NEEDED. (MW006).

General Site Map of Proposed Well Location

N

US-301 NORTH TO TEMPLE TERRACE HWY WEST TO N. 56TH STREET SOUTH 600 FEET TO SITE. SITE IS VACANT PARCEL LOCATED ON THE EAST SIDE OF N. 56TH STREET.

Identify known roads and landmarks. Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources, if applicable.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION # 23 - TEST/MONITOR WELL

A. This well is to be used as a test/monitor well. If it is to be converted into a production well, an additional permit shall be obtained.

B. There shall be no injection of fluids into the monitor well without prior written approval from the Florida Department of Environmental Protection (DEP) or the District. This includes, but is not limited to treated ground water, or the introduction of microbes for in-situ aquifer restoration.

C. The well shall be constructed in such a manner to prevent the unauthorized interchange of water between different water bearing zones (i.e., breaching of confining beds, clays or hardpan intervals) as per Chapter 62-532.500 (3)(e), Florida Administrative Code (F.A.C.).

D. Prior written approval from the District shall be required if the monitor well will be pumped for use in hydrodynamic control and/or contaminant plume management, if quantities reach or exceed requirement of a Water Use Permit.

E. All monitor wells constructed at any facility which has been designated as a ground water contamination site, or a possible ground water contamination site, shall adhere to the construction standards set forth by the DEP and other applicable rules.

F. In the event the well needs to be abandoned, an abandonment permit shall be obtained prior to commencing with abandonment operations.

G. An observer from our Regulation Department is required on all abandonments to ensure compliance with applicable 40D-3 regulations. Please contact the Field Service Supervisor in the Tampa Office at (813) 985-7481 for additional information.

Permit No. 850908

COPY TO OWNER TO BE PROVIDED BY CONTRACTOR

(11/03)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION NUMBER 39 - WELL AND DRILLHOLE ABANDONMENT

It will be the **water well contractor's** responsibility to have any incomplete well or drillhole attempted under this permit properly abandoned.
Any incomplete or abandoned well or drill hole as described in Chapter 40D-3, Florida Administrative Code (F.A.C.), shall be abandoned as follows:

A. The well shall be examined from land surface to the original depth of construction for debris or obstructions (any debris or obstruction shall be removed prior to abandonment).

B. The well shall be plugged from bottom to top by an approved method of grouting with either Portland neat cement grout or an approved Bentonite product as specified in Rule 40D-3.517(2)(b), F.A.C.

It will be the **owner's** responsibility to have any well completed under this permit, or any existing well on this property, which meets the definition of an abandoned well as defined in Rule 40D-3.021(1), F.A.C., properly abandoned in accordance with Rule 40D-3.531, F.A.C.

If any well constructed under this permit will replace any existing well deemed abandoned per Rule 40D-3.021 (1), F.A.C., or triggers an unauthorized Water Use situation, then the existing well must be plugged within 30 days of new well completion. A plugging permit will be required.

It will be the **owner's** responsibility to have any inactive well, which does not meet the above criteria and is no threat to the water resource properly capped in an air and watertight manner with a threaded, welded or bolted cover or valve. If the pump and well seal are water tight, the pump may be left in place. If practical, a protective cover two (2) feet in height shall be placed around the well casing.

A. Wells with a diameter of six (6) inches or more without pumping equipment shall have the well casing extended a minimum of two (2) feet above land surface.

B. Wells with a diameter of less than six (6) inches without pumping equipment shall be securely set in a concrete slab and have either the well casing extended a minimum height of two (2) feet above land surface or a protective cover centered over the well casing. The concrete slab shall be a minimum of four (4) inches in thickness by two (2) feet by two (2) feet square. The protective cover shall be set in the concrete slab and extend a minimum of two (2) feet above land surface.

In flood prone areas all wells shall extend a minimum of one (1) foot above the 100 year flood elevation, if practical, in accordance with Rule 40D-3.521(4), F.A.C.

Any plugging operations shall be permitted separately from this permit by the Southwest Florida Water Management District and be witnessed by a designated District representative. Arrangement for a District representative shall be made with the local District Field Services office a minimum of 24 hours in advance of these operations. A District representative will be available for assignment during normal working hours (8:00 AM - 4:30 PM), Monday through Friday. Travel time must be taken into consideration. Exemptions may be made for extenuating circumstances. For scheduling, please contact the Field Service Supervisor in the Tampa office at (813) 985-7481.

Permit No: 850908

COPY TO OWNER TO BE PROVIDED BY CONTRACTOR
(Updated 12/12)

STATE OF FLORIDA WELL COMPLETION REPORT

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

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

Date Stamp
Received:
Apr 23, 2016 10:36 am
Official Use Only

1.*Permit Number 850907 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2.*Number of permitted wells constructed, repaired, or abandoned 6 *Number of permitted wells not constructed, repaired, or abandoned 0

3.*Owner's Name Vlass Temple Terrace, LLC 4.*Completion Date 04/20/2016 5. Florida Unique ID _____

6. 8913 N 56TH ST Temple Terrace
*Well Location - Address, Road Name or Number, City, ZIP

7. *County HILLSBOROUGH *Section 22 Land Grant _____ *Township 28 *Range 19

8. Latitude 28 01 48.46 Longitude 82 23 34.23

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

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

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

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

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

___ Other (Describe) _____

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

13.*Measured Static Water Level 14.0 ft. Measured Pumping Water Level 22 ft. After 5 Hours at 2 GPM

14.*Measuring Point (Describe) TOP OF CAS Which is 0.3 ft. ___ Above X Below Land Surface *Flowing: ___ Yes ___ No

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

16.*Total Well Depth 22.0 ft. Cased Depth 7.0 ft. *Open Hole: From ___ To ___ ft. *Screen: From 7 To 22 ft. Slot Size _____

17.*Abandonment: ___ Other (Explain) _____
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

19.*Primary Casing Diameter and Depth:
Dia 2.00 in. From 0.00 ft. To 7.00 ft. No. of Bags 1.00 Seal Material (Check One): X Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20.*Liner Casing Diameter and Depth:
Dia 2.00 in. From 7.00 ft. To 22.00 ft. No. of Bags 10.00 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Sand
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

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

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

24. Water Well Contractor:

*Contractor Name Ross A. Chinander *License Number 11093 E-mail Address netross@tampabay.rr.com

*Contractor's Signature Digitally Signed
(I certify that the information provided in this report is accurate and true.)
*Driller's Name (Print or Type) MICHAEL T JONES

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

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
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***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
0.0 ft.	11.0 ft.	TAN	VERY FINE	SAND
11.0 ft.	22.0 ft.	ORANGE	VERY FINE	SANDY CLAY
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
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ft.	ft.			
ft.	ft.			
ft.	ft.			

Comments: Finish: SCREENED OR SANDPOINT

INSTALLATION OF MW003

***Detailed Site Map of Well Location**

N

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

STATE OF FLORIDA WELL COMPLETION REPORT

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

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

Date Stamp
Received:
Apr 23, 2016 10:42 am
Official Use Only

1.*Permit Number 850907 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2.*Number of permitted wells constructed, repaired, or abandoned 6 *Number of permitted wells not constructed, repaired, or abandoned 0

3.*Owner's Name Vlass Temple Terrace, LLC 4.*Completion Date 04/20/2016 5. Florida Unique ID _____

6. 8913 N 56TH ST Temple Terrace
*Well Location - Address, Road Name or Number, City, ZIP

7. *County HILLSBOROUGH *Section 22 Land Grant _____ *Township 28 *Range 19

8. Latitude 28 01 48.84 Longitude 82 23 32.69

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

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

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

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

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

___ Other (Describe) _____

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

13.*Measured Static Water Level 14.0 ft. Measured Pumping Water Level 20 ft. After 6 Hours at 2 GPM

14.*Measuring Point (Describe) TOP OF CAS Which is 0.3 ft. ___ Above X Below Land Surface *Flowing: ___ Yes ___ No

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

16.*Total Well Depth 20.0 ft. Cased Depth 5.0 ft. *Open Hole: From ___ To ___ ft. *Screen: From 5 To 20 ft. Slot Size ___

17.*Abandonment: ___ Other (Explain) _____
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

19.*Primary Casing Diameter and Depth:
Dia 2.00 in. From 0.00 ft. To 5.00 ft. No. of Bags 1.00 Seal Material (Check One): X Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20.*Liner Casing Diameter and Depth:
Dia 2.00 in. From 5.00 ft. To 20.00 ft. No. of Bags 10.00 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Sand
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

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

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

24. Water Well Contractor:

*Contractor Name Ross A. Chinander *License Number 11093 E-mail Address netross@tampabay.rr.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) MICHAEL T JONES
(I certify that the information provided in this report is accurate and true.)

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

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

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

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

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

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

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

From	To	Color	Grain Size (F, M, C)	Material
From 0.0 ft.	To 11.0 ft.	Color TAN	Grain Size (F, M, C) VERY FINE	Material SAND
From 11.0 ft.	To 20.0 ft.	Color ORANGE	Grain Size (F, M, C) VERY FINE	Material SANDY CLAY
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material

Comments: Finish: SCREENED OR SANDPOINT

INSTALLATION OF MW004.

***Detailed Site Map of Well Location**

N

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

STATE OF FLORIDA WELL COMPLETION REPORT

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

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

Date Stamp
Received:
Apr 23, 2016 10:46 am
Official Use Only

1. *Permit Number 850907 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 6 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name Vlass Temple Terrace, LLC 4. *Completion Date 04/20/2016 5. Florida Unique ID _____

6. 8913 N 56TH ST Temple Terrace
*Well Location - Address, Road Name or Number, City, ZIP

7. *County HILLSBOROUGH *Section 22 Land Grant _____ *Township 28 *Range 19

8. Latitude 28 01 48.77 Longitude 82 23 33.33

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

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

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

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage
Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) _____
___ Other (Describe) _____

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

13. *Measured Static Water Level 14.0 ft. Measured Pumping Water Level 23 ft. After 5 Hours at 2 GPM

14. *Measuring Point (Describe) TOP OF CAS Which is 0.3 ft. ___ Above X Below Land Surface *Flowing: ___ Yes ___ No

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

16. *Total Well Depth 25.0 ft. Cased Depth 10.0 ft. *Open Hole: From ___ To ___ ft. *Screen: From 10 To 25 ft. Slot Size ___

17. *Abandonment: ___ Other (Explain) _____
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

19. *Primary Casing Diameter and Depth:
Dia 2.00 in. From 0.00 ft. To 10.00 ft. No. of Bags 3.00 Seal Material (Check One): X Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:
Dia 2.00 in. From 10.00 ft. To 25.00 ft. No. of Bags 10.00 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Sand
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

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

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

24. Water Well Contractor:

*Contractor Name Ross A. Chinander *License Number 11093 E-mail Address netross@tampabay.rr.com

*Contractor's Signature Digitally Signed
(I certify that the information provided in this report is accurate and true.)
*Driller's Name (Print or Type) MICHAEL T JONES

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

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
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NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

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

From	To	Color	Grain Size (F, M, C)	Material
From 0.0 ft.	To 11.0 ft.	Color TAN	Grain Size (F, M, C) VERY FINE	Material SAND
From 11.0 ft.	To 25.0 ft.	Color ORANGE	Grain Size (F, M, C) VERY FINE	Material SANDY CLAY
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material
From ft.	To ft.	Color	Grain Size (F, M, C)	Material

Comments: Finish: SCREENED OR SANDPOINT

INSTALLATION OF MW005.

***Detailed Site Map of Well Location**

N

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

STATE OF FLORIDA WELL COMPLETION REPORT

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

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

Date Stamp
Received:
Apr 23, 2016 10:49 am

Official Use Only

1. *Permit Number 850907 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 6 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name Vlass Temple Terrace, LLC 4. *Completion Date 04/20/2016 5. Florida Unique ID _____

6. 8913 N 56TH ST Temple Terrace
*Well Location - Address, Road Name or Number, City, ZIP

7. *County HILLSBOROUGH *Section 22 Land Grant _____ *Township 28 *Range 19

8. Latitude 28 01 47.63 Longitude 82 23 35.22

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

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

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

___ Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
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___ Agricultural Irrigation
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___ Nursery Irrigation
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___ Golf Course Irrigation
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___ HVAC Supply
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Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage

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

___ Other (Describe) _____

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

13. *Measured Static Water Level 14.0 ft. Measured Pumping Water Level 22 ft. After 5 Hours at 2 GPM

14. *Measuring Point (Describe) TOP OF CAS Which is 0.3 ft. ___ Above X Below Land Surface *Flowing: ___ Yes ___ No

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

16. *Total Well Depth 30.0 ft. Cased Depth 15.0 ft. *Open Hole: From ___ To ___ ft. *Screen: From 15 To 30 ft. Slot Size ___

17. *Abandonment: ___ Other (Explain) _____

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

18. *Surface Casing Diameter and Depth:

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

19. *Primary Casing Diameter and Depth:

Dia 2.00 in. From 0.00 ft. To 15.00 ft. No. of Bags 4.00 Seal Material (Check One): X Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:

Dia 2.00 in. From 15.00 ft. To 30.00 ft. No. of Bags 10.00 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Sand
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:

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

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

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

24. Water Well Contractor:

*Contractor Name Ross A. Chinander *License Number 11093 E-mail Address netross@tampabay.rr.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) MICHAEL T JONES
(I certify that the information provided in this report is accurate and true.)

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

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
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152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
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SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
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SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
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***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
0.0 ft.	11.0 ft.	TAN	VERY FINE	SAND
11.0 ft.	29.0 ft.	ORANGE	VERY FINE	SANDY CLAY
29.0 ft.	30.0 ft.	TAN	VERY FINE	SAND, LIMESTONE AND CLAY
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			

Comments: Finish: SCREENED OR SANDPOINT

INSTALLATION OF MW009.

***Detailed Site Map of Well Location**

N

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

STATE OF FLORIDA WELL COMPLETION REPORT

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

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

Date Stamp
Received:
Apr 23, 2016 10:54 am

Official Use Only

1.*Permit Number 860907 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2.*Number of permitted wells constructed, repaired, or abandoned 6 *Number of permitted wells not constructed, repaired, or abandoned 0

3.*Owner's Name Vlass Temple Terrace, LLC 4.*Completion Date 04/20/2016 5. Florida Unique ID _____

6. 8913 N 56TH ST Temple Terrace
*Well Location - Address, Road Name or Number, City, ZIP

7. *County HILLSBOROUGH *Section 22 Land Grant _____ *Township 28 *Range 19

8. Latitude 28 01 47.66 Longitude 82 23 34.56

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

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

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

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

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

___ Other (Describe) _____

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

13.*Measured Static Water Level 14.0 ft. Measured Pumping Water Level 22 ft. After 5 Hours at 2 GPM

14.*Measuring Point (Describe) TOP OF CAS Which is 0.3 ft. ___ Above X Below Land Surface *Flowing: ___ Yes ___ No

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

16.*Total Well Depth 30.0 ft. Cased Depth 15.0 ft. *Open Hole: From ___ To ___ ft. *Screen: From 15 To 30 ft. Slot Size _____

17.*Abandonment: ___ Other (Explain) _____

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

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

19.*Primary Casing Diameter and Depth:
Dia 2.00 in. From 0.00 ft. To 15.00 ft. No. of Bags 4.00 Seal Material (Check One): X Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

20.*Liner Casing Diameter and Depth:
Dia 2.00 in. From 15.00 ft. To 30.00 ft. No. of Bags 10.00 Seal Material (Check One): ___ Neat Cement ___ Bentonite X Other Sand
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___
Dia ___ in. From ___ ft. To ___ ft. No. of Bags ___ Seal Material (Check One): ___ Neat Cement ___ Bentonite ___ Other ___

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

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

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

24. Water Well Contractor:

*Contractor Name Ross A. Chinander *License Number 11093 E-mail Address netross@tampabay.rr.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) MICHAEL T JONES
(I certify that the information provided in this report is accurate and true.)

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

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

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

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

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

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

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

From	To	Color	Grain Size (F, M, C)	Material
0.0 ft.	11.0 ft.	TAN	VERY FINE	SAND
11.0 ft.	29.0 ft.	ORANGE	VERY FINE	SANDY CLAY
29.0 ft.	30.0 ft.	TAN	VERY FINE	SAND, LIMESTONE AND CLAY
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
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ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			

Comments: Finish: SCREENED OR SANDPOINT

INSTALLATION OF MW014.

***Detailed Site Map of Well Location**

N

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

STATE OF FLORIDA WELL COMPLETION REPORT

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

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

Date Stamp
Received:
Apr 23, 2016 10:57 am
Official Use Only

1. *Permit Number 850907 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. *Number of permitted wells constructed, repaired, or abandoned 6 *Number of permitted wells not constructed, repaired, or abandoned 0

3. *Owner's Name Vlass Temple Terrace, LLC 4. *Completion Date 04/20/2016 5. Florida Unique ID _____

6. 8913 N 56TH ST Temple Terrace
*Well Location - Address, Road Name or Number, City, ZIP

7. *County HILLSBOROUGH *Section 22 Land Grant _____ *Township 28 *Range 19

8. Latitude 28 01 48.75 Longitude 82 23 35.32

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

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

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

Class V Injection: ____ Recharge ____ Commercial/Industrial Disposal ____ Aquifer Storage and Recovery ____ Drainage
Remediation: ____ Recovery ____ Air Sparge ____ Other (Describe) _____
____ Other (Describe) _____

12. *Drill Method: X Auger ____ Cable Tool ____ Rotary ____ Combination (Two or More Methods) ____ Jetted ____ Sonic
____ Horizontal Drilling ____ Hydraulic Point (Direct Push) ____ Other _____

13. *Measured Static Water Level 14.0 ft. Measured Pumping Water Level 22 ft. After 5 Hours at 2 GPM

14. *Measuring Point (Describe) TOP OF CAS Which is 0.3 ft. ____ Above X Below Land Surface *Flowing: ____ Yes ____ No

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

16. *Total Well Depth 40.0 ft. Cased Depth 25.0 ft. *Open Hole: From ____ To ____ ft. *Screen: From 25 To 40 ft. Slot Size _____

17. *Abandonment: ____ Other (Explain) _____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

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

19. *Primary Casing Diameter and Depth:
Dia 2.00 in. From 0.00 ft. To 25.00 ft. No. of Bags 8.00 Seal Material (Check One): X Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

20. *Liner Casing Diameter and Depth:
Dia 2.00 in. From 25.00 ft. To 40.00 ft. No. of Bags 17.00 Seal Material (Check One): ____ Neat Cement ____ Bentonite X Other Sand
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____
Dia ____ in. From ____ ft. To ____ ft. No. of Bags ____ Seal Material (Check One): ____ Neat Cement ____ Bentonite ____ Other ____

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

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

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

24. Water Well Contractor:

*Contractor Name Ross A. Chinander *License Number 11093 E-mail Address netross@tampabay.rr.com

*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) MICHAEL T JONES
(I certify that the information provided in this report is accurate and true.)

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

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

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
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152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
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***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	To	Color	Grain Size (F, M, C)	Material
0.0 ft.	11.0 ft.	TAN	VERY FINE	SAND
11.0 ft.	29.0 ft.	ORANGE	VERY FINE	SANDY CLAY
29.0 ft.	40.0 ft.	TAN	VERY FINE	SAND, LIMESTONE AND CLAY
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
ft.	ft.			
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ft.	ft.			

Comments: Finish: SCREENED OR SANDPOINT

INSTALLATION OF MW013.

***Detailed Site Map of Well Location**

N

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

STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

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

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

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. 850907
Florida Unique ID _____
Permit Stipulations Required (See Attached)
23, 39
62-524 Quad No. Q3320 Delineation No. _____
CUP/WUP Application No. _____

ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. Vlass Temple Terrace, LLC | 3334 Peachtree Road, Suite 1703 | Atlanta | GA | 30326 | _____
*Owner, Legal Name if Corporation | *Address | *City | *State | *ZIP | *Telephone Number

2. 8913 N 56TH ST | Temple Terrace
*Well Location - Address, Road Name or Number, City

3. 19282255Z0000D1000000T | _____ | _____ | _____
*Parcel ID No. (PIN) or Alternate Key (Circle One) | Lot | Block | Unit

4. 22 | 28 | 19 | HILLSBOROUGH | _____ | Check if 62-524: ___ Yes _X_ No
*Section or Land Grant | *Township | *Range | *County | Subdivision

5. Ross A. Chinander | 11093 | (813) 655-3612 | netross@tampabay.rr.com
*Water Well Contractor | *License Number | *Telephone Number | E-mail Address

6. 12435 JESS WALDEN ROAD | DOVER | FL | 33527
*Water Well Contractor's Address | City | State | ZIP

7. *Type of Work: _X_ Construction ___Repair ___Modification ___Abandonment
*Reason for Repair, Modification, or Abandonment _____

8. *Number of Proposed Wells 6

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

___Domestic ___Landscape Irrigation ___Agricultural Irrigation ___Site Investigation
___Bottled Water Supply ___Recreation Area Irrigation ___Livestock _X_Monitoring
___Public Water Supply (Limited Use/DOH) ___Nursery Irrigation ___Test
___Public Water Supply (Community or Non-Community/DEP) ___Commercial/Industrial ___Earth-Coupled Geothermal
___Class I Injection ___Golf Course Irrigation ___HVAC Supply
___HVAC Return

Class V Injection: ___Recharge ___Commercial/Industrial Disposal ___Aquifer Storage and Recovery ___Drainage

Remediation: ___Recovery ___Air Sparge ___Other (Describe) _____

___Other (Describe) _____ (Note: Not all types of wells are permitted by a given permitting authority)

Date Stamp
Received:
Apr 14, 2016 8:50 pm
Official Use Only

10. *Distance from Septic System if ≤200 ft. 0 11. Facility Description VACANT PARCEL 12. Estimated Start Date 04/18/2016

13. *Estimated Well Depth 30 ft. *Estimated Casing Depth 15.0 ft. *Primary Casing Diameter 2 in. Open Hole: From ___ To ___ ft.

14. Estimated Screen Interval: From 15.0 To 30.0 ft.

15. *Primary Casing Material: ___Black Steel ___Galvanized _X_PVC ___Stainless Steel
___Not Cased ___Other: _____

16. Secondary Casing: ___Telescope Casing ___Liner ___Surface Casing Diameter ___ in.

17. Secondary Casing Material: ___Black Steel ___Galvanized ___PVC ___Stainless Steel ___Other _____

18. *Method of Construction, Repair, or Abandonment: _X_Auger ___Cable Tool ___Jetted ___Rotary ___Sonic
___Combination (Two or More Methods) ___Hand Driven (Well Point, Sand Point) ___Hydraulic Point (Direct Push)
___Horizontal Drilling ___Plugged by Approved Method ___Other (Describe) _____

19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0.0 To 10.0 Seal Material (___Bentonite ___Neat Cement _x_Other Slurry Grout)
From ___ To ___ Seal Material (___Bentonite ___Neat Cement ___Other ___)
From ___ To ___ Seal Material (___Bentonite ___Neat Cement ___Other ___)
From ___ To ___ Seal Material (___Bentonite ___Neat Cement ___Other ___)

20. Indicate total number of existing wells on site 4 List number of existing unused wells on site 0

21. *Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ___Yes _X_No If yes, complete the following: CUP/WUP No. _____ District Well ID No. _____

22. Latitude 28 01 48.40 Longitude 82 23 34.20

23. Data Obtained From: ___GPS _X_Map ___Survey Datum: ___NAD 27 _X_NAD 83 ___WGS 84

I hereby certify that I will comply with the applicable rules of Title 40, Florida Administration Code, and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided in this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after completion of the construction, repair, modification, or abandonment authorized by this permit, or the permit expiration, whichever occurs first.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well, or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to allowing personnel of this WMD or Delegated Authority access to the well site during the construction, repair, modification, or abandonment authorized by this permit.

Digitally Signed | 11093 | Digitally Signed | 4/14/2016
*Signature of Contractor | *License No. | *Signature of Owner or Agent | *Date

DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE ONLY

Approval Granted By Automatically Issued Issue Date 04/14/2016 Expiration Date 07/13/2016 Hydrologist Approval _____ Initials

Fee Received $50.00 Receipt No. 23739025 Check No. _____

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.

This permit is valid for 90 days from the date of Issue.

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

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
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NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
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PHONE: (561) 686-8800
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SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

Comments:

INSTALLATION OF 6 - 2" DIA. MONITORING WELLS TO 30' IN DEPTH

MW003, MW004, MW005, MW009, MW013, & MW014.

General Site Map of Proposed Well Location

N

US-301 NORTH TO TEMPLE TERRACE HWY WEST TO N. 56TH STREET SOUTH 600 FEET TO SITE. SITE IS VACANT PARCEL ON EAST SIDE OF N. 56TH STREET.

Identify known roads and landmarks. Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources, if applicable.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION # 23 - TEST/MONITOR WELL

A. This well is to be used as a test/monitor well. If it is to be converted into a production well, an additional permit shall be obtained.

B. There shall be no injection of fluids into the monitor well without prior written approval from the Florida Department of Environmental Protection (DEP) or the District. This includes, but is not limited to treated ground water, or the introduction of microbes for in-situ aquifer restoration.

C. The well shall be constructed in such a manner to prevent the unauthorized interchange of water between different water bearing zones (i.e., breaching of confining beds, clays or hardpan intervals) as per Chapter 62-532.500 (3)(e), Florida Administrative Code (F.A.C.).

D. Prior written approval from the District shall be required if the monitor well will be pumped for use in hydrodynamic control and/or contaminant plume management, if quantities reach or exceed requirement of a Water Use Permit.

E. All monitor wells constructed at any facility which has been designated as a ground water contamination site, or a possible ground water contamination site, shall adhere to the construction standards set forth by the DEP and other applicable rules.

F. In the event the well needs to be abandoned, an abandonment permit shall be obtained prior to commencing with abandonment operations.

G. An observer from our Regulation Department is required on all abandonments to ensure compliance with applicable 40D-3 regulations. Please contact the Field Service Supervisor in the Tampa Office at (813) 985-7481 for additional information.

Permit No. 850907

COPY TO OWNER TO BE PROVIDED BY CONTRACTOR

(11/03)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION NUMBER 39 - WELL AND DRILLHOLE ABANDONMENT

It will be the **water well contractor's** responsibility to have any incomplete well or drillhole attempted under this permit properly abandoned.
Any incomplete or abandoned well or drill hole as described in Chapter 40D-3, Florida Administrative Code (F.A.C.), shall be abandoned as follows:

A. The well shall be examined from land surface to the original depth of construction for debris or obstructions (any debris or obstruction shall be removed prior to abandonment).

B. The well shall be plugged from bottom to top by an approved method of grouting with either Portland neat cement grout or an approved Bentonite product as specified in Rule 40D-3.517(2)(b), F.A.C.

It will be the **owner's** responsibility to have any well completed under this permit, or any existing well on this property, which meets the definition of an abandoned well as defined in Rule 40D-3.021(1), F.A.C., properly abandoned in accordance with Rule 40D-3.531, F.A.C.

If any well constructed under this permit will replace any existing well deemed abandoned per Rule 40D-3.021 (1), F.A.C., or triggers an unauthorized Water Use situation, then the existing well must be plugged within 30 days of new well completion. A plugging permit will be required.

It will be the **owner's** responsibility to have any inactive well, which does not meet the above criteria and is no threat to the water resource properly capped in an air and watertight manner with a threaded, welded or bolted cover or valve. If the pump and well seal are water tight, the pump may be left in place. If practical, a protective cover two (2) feet in height shall be placed around the well casing.

A. Wells with a diameter of six (6) inches or more without pumping equipment shall have the well casing extended a minimum of two (2) feet above land surface.

B. Wells with a diameter of less than six (6) inches without pumping equipment shall be securely set in a concrete slab and have either the well casing extended a minimum height of two (2) feet above land surface or a protective cover centered over the well casing. The concrete slab shall be a minimum of four (4) inches in thickness by two (2) feet by two (2) feet square. The protective cover shall be set in the concrete slab and extend a minimum of two (2) feet above land surface.

In flood prone areas all wells shall extend a minimum of one (1) foot above the 100 year flood elevation, if practical, in accordance with Rule 40D-3.521(4), F.A.C.

Any plugging operations shall be permitted separately from this permit by the Southwest Florida Water Management District and be witnessed by a designated District representative. Arrangement for a District representative shall be made with the local District Field Services office a minimum of 24 hours in advance of these operations. A District representative will be available for assignment during normal working hours (8:00 AM - 4:30 PM), Monday through Friday. Travel time must be taken into consideration. Exemptions may be made for extenuating circumstances. For scheduling, please contact the Field Service Supervisor in the Tampa office at (813) 985-7481.

Permit No: 850907

COPY TO OWNER TO BE PROVIDED BY CONTRACTOR
(Updated 12/12)

Appendix C
Groundwater Sampling Forms and Calibration Documentation

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners/600-5-1936	SITE LOCATION: Tampa	FACILITY ID: 9501362
WELL NO: MW013	SAMPLE ID: GW 269	DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 40 feet	STATIC DEPTH TO WATER (feet): 18.64	PURGE PUMP TYPE OR BAILER: Peristaltic

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
.117 = gallons + (.0026 gallons/foot X 45 feet) + .125 gallons = .24 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 10:30	PURGING ENDED AT: 10:54	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (µS/cm)	TEMP. (°C)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
10:45	.75		0.25	18.75	7.20	452	24.7	1.32	2	35	None
10:48	.15	.90	"	18.75	7.20	453	24.7	1.32	2	34	"
10:51	.15	1.05	"	18.75	7.20	458	24.7	1.31	1.87	33	"
10:54	.15	1.20	"	18.75	7.20	447	24.7	1.33	1.88	33	"

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. McKinney	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 10:55	SAMPLING ENDED AT: 10:58
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	SAMPLE PUMP FLOW RATE (mL per minute): <200	TUBING MATERIAL CODE: HDPE	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	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
MW013 GW269	3	CG	40mL	HCL	—	—	8260/VOA's	APP

REMARKS:

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

S

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners		SITE LOCATION: 56th St. N	
WELL NO: MW007	SAMPLE ID: GW265		DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): .75	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 24 feet to 31 feet	STATIC DEPTH TO WATER (feet): 25.9	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 5.1 = (31 feet – 25.9 feet) X .02 gallons/foot = .10 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): 28.45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.45	PURGING INITIATED AT: 9:06	PURGING ENDED AT: 9:18	TOTAL VOLUME PURGED (gallons): .37

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or mS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
9:09	.10	.10	.03	26.5	6.74	838	26.4	.66	2.04	-285.5	NONE
9:12	.09	.19	.03	26.5	6.79	838	26.6	.63	1.81	-304.4	|
9:15	.09	.28	.03	26.5	6.79	838	26.6	.64	.70	-318.2	|
9:18	.09	.37	.03	26.5	6.79	838	26.6	.64	.82	-320.3	|

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: Joe Orfanides GHP	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:21	SAMPLING ENDED AT: 9:24
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
GW265	3	CG	40mL	HCL	—	—	8260	APP	<400

REMARKS:

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

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

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

S

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners	SITE LOCATION: 56th St N
WELL NO: MW 012	SAMPLE ID: GW 266 — DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 42 feet to 52 feet	STATIC DEPTH TO WATER (feet): 25.48	PURGE PUMP TYPE OR BAILER: PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
.156 = gallons + (.0026 gallons/foot X 60 feet) + .125 gallons = .281 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47	PURGING INITIATED AT: 9:29	PURGING ENDED AT: 9:50	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or µS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
9:41	.60	.60	.05	25.62	7.63	417.5	27.3	1.43	.52	-289.7	NONE
9:44	.15	.75	.05	25.62	7.61	418.3	27.3	1.42	.59	-289.9	
9:47	.15	.90	.05	25.62	7.61	418.9	27.3	1.41	.47	-289.2	
9:50	.15	1.05	.05	25.62	7.62	419.1	27.3	1.42	.32	-291.7	

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: Joe Orfanides GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:53	SAMPLING ENDED AT: 9:56
PUMP OR TUBING DEPTH IN WELL (feet): 47	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
GW 266	3	CG	40mL	HCL	—	—	8260	APP	<400

REMARKS:

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners	SITE LOCATION: 56th St N
WELL NO: MW 010	SAMPLE ID: GW 267 / DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 35 feet to 40 feet	STATIC DEPTH TO WATER (feet): 26.10	PURGE PUMP TYPE OR BAILER: PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
.13 = gallons + (.0026 gallons/foot X 50 feet) + .125 gallons = .26 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	PURGING INITIATED AT: 10:05	PURGING ENDED AT: 10:26	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or mS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
10:17	.60	.60	.05	26.22	7.21	411.9	26.3	.50	1.05	-325.1	NONE
10:20	.15	.75	.05	26.22	7.21	411.7	26.3	.47	.73	-333.9	|
10:23	.15	.90	.05	26.22	7.21	411.8	26.3	.44	.56	-334.8	|
10:26	.15	1.05	.05	26.22	7.21	411.8	26.3	.46	.44	-335.8	|

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: Joe Orfanides GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:29	SAMPLING ENDED AT: 10:32
PUMP OR TUBING DEPTH IN WELL (feet): 37.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N)(replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
GW267	3	CG	40mL	HCL	—	—	8260	APP	<400

REMARKS:

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

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

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

S

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners	SITE LOCATION: 56th St N	
WELL NO: MW 015	SAMPLE ID: GW 270	DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 7 feet to 22 feet	STATIC DEPTH TO WATER (feet): 11.15	PURGE PUMP TYPE OR BAILER: PP

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

10.85 = (22 feet – 11.15 feet) X .16 gallons/foot = 1.74 gallons

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16.58	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16.58	PURGING INITIATED AT: 10:56	PURGING ENDED AT: 11:40	TOTAL VOLUME PURGED (gallons): 2.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or mS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
11:31	1.75	1.75	.05	11.85	6.58	562	27.5	.74	4.33	-263.6	NONE
11:34	.15	1.90	.05	11.86	6.59	563	27.6	.61	4.25	-292.3	
11:37	.15	2.05	.05	11.87	6.60	564	27.6	.49	4.24	-307.9	
11:40	.15	2.20	.05	11.88	6.60	563	27.7	.47	4.26	-311.3	

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: Joe Orfanides GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:43	SAMPLING ENDED AT: 11:46
PUMP OR TUBING DEPTH IN WELL (feet): 16.58	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
GW270	3	CG	40mL	HCL	—	~	8260	APP	<400

REMARKS:

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

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

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

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

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

S

MS/MSD - QC048/ MW276

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners	SITE LOCATION: 56th St N
WELL NO: MW018	SAMPLE ID: GW271 — DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .25	WELL SCREEN INTERVAL DEPTH: 42 feet to 47 feet	STATIC DEPTH TO WATER (feet): 13.00	PURGE PUMP TYPE OR BAILER: PP

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
0.143 = gallons + (.0026 gallons/foot X 55 feet) + .125 gallons = .268 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44.7	PURGING INITIATED AT: 11:56	PURGING ENDED AT: 12:17	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or mS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
12:08	.60	.60	.05	13.30	7.62	400.3	29.8	.26	1.47	-355.8	NONE
12:11	.15	.75	.05	13.30	7.62	400.2	29.8	.28	1.28	-346.9	
12:14	.15	.90	.05	13.30	7.62	400.3	29.8	.27	1.21	-353.2	
12:17	.15	1.05	.05	13.30	7.62	400.4	29.8	.28	1.20	-360.2	

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: Joe Orfanides	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 12:20	SAMPLING ENDED AT: 12:28
PUMP OR TUBING DEPTH IN WELL (feet): 44.7	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
GW271	3	CG	40mL	HCL			8260	APP	200
~~MS/MSD~~	6	CG	40mL	HCL			8260	APP	400
	MS/MSD is QC049 / GW276								

REMARKS:

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

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

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

S

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners	SITE LOCATION: 56th S. N
WELL NO: MW017	SAMPLE ID: GW 274 — DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 10 feet to 25 feet	STATIC DEPTH TO WATER (feet): 11.15	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 13.85 = (25 feet – 11.15 feet) X 0.16 gallons/foot = 2.21 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): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 12:33	PURGING ENDED AT: 13:27	TOTAL VOLUME PURGED (gallons): 2.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or mS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
13:18	2.25	2.25	.05	11.42	6.95	659	28.0	.44	1.34	-328.1	NONE
13:21	.15	2.40	.05	11.42	6.94	652	27.9	.49	.95	-332.1	
13:24	.15	2.55	.05	11.42	6.95	657	28.3	.42	.69	-331.5	
13:27	.15	2.70	.05	11.42	6.95	656	28.3	.43	.72	-328.4	

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: Joe Orlando GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:30	SAMPLING ENDED AT: 13:33
PUMP OR TUBING DEPTH IN WELL (feet): 18	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
GW274	3	CG	40ml	HCL	—	—	8260	APP	<400

REMARKS:

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

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

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners/600-5-1936	SITE LOCATION: Temple Terrace	FACILITY ID: 9501362
WELL NO: MW016	SAMPLE ID: GW 272	DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 20 feet	STATIC DEPTH TO WATER (feet): 6.80	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
13.20 = (20 feet – 6.80 feet) X .16 gallons/foot = 2.11 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.5	PURGING INITIATED AT: 11:10	PURGING ENDED AT: 11:59	TOTAL VOLUME PURGED (gallons): 2.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (µS/cm)	TEMP. (°C)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
11:40	2.0		.07	6.82	6.03	404	25.8	3.19	1.23	87	None
11:50	.50	2.50	.05	6.82	6.00	400	25.9	3.05	.46	87	"
11:53	.15	2.65	"	6.82	5.99	400	25.9	3.08	1.45	87	"
11:56	.15	2.80	"	6.82	5.98	398	25.9	3.11	1.16	86	"
11:59	.15	2.95	"	6.82	5.97	396	25.9	3.15	.73	86	"

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. McKinney	SAMPLER(S) SIGNATURES: BMcK	SAMPLING INITIATED AT: 12:00	SAMPLING ENDED AT: 12:03
PUMP OR TUBING DEPTH IN WELL (feet): 13.50	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: HDPE	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW016 GW 272	3	CG	40ml	HCL	—	—	8260/VOH's	APP

REMARKS:

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

S

Revision Date: February 1, 2004

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners/600-5-1936	SITE LOCATION: Terrace	FACILITY ID: 9501362
WELL NO: MW014	SAMPLE ID: GW 273	DATE: 4.22.16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet): 14.56	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
15.44 = (30 feet – 14.56 feet) X .16 gallons/foot = 2.47 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): 22.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.25	PURGING INITIATED AT: 12:20	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (µS/cm)	TEMP. (°C)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
12:52	250		.08	14.60	5.66	251	26.2	3.51	.69	102	None
13:02	.50	3.00	.05	14.60	5.66	252	26.3	3.46	.61	101	"
13:05	.15	3.15	"	14.60	5.66	252	26.4	3.60	.51	102	"
13:08	.15	3.30	"	14.60	5.64	253	26.4	3.51	.50	102	"

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. McKinney	SAMPLER(S) SIGNATURES: W. McK	SAMPLING INITIATED AT: 13:10	SAMPLING ENDED AT: 13:13
PUMP OR TUBING DEPTH IN WELL (feet): 22.25	SAMPLE PUMP FLOW RATE (mL per minute): <200	TUBING MATERIAL CODE: HDPE	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW014 GW273	3	CG	40ml.	HCL	—	—	8260/VOH	APP

REMARKS:

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

S

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners/600-5-1936	SITE LOCATION: Tampa	FACILITY ID: 9501362
WELL NO: MW019	SAMPLE ID: GW 268	DATE: 4-22-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet): 17.47	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
12.53 = (30 feet – 17.47 feet) X .16 gallons/foot = 2.00 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): 23.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23.75	PURGING INITIATED AT: 9:30	PURGING ENDED AT: 10:16	TOTAL VOLUME PURGED (gallons): 2.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (µS/cm)	TEMP. (°C)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
10:00	2.0		0.07	17.54	7.16	402	25.7	2.39	.79	37	None
10:10	.50	2.50	0.05	17.54	7.17	401	25.7	2.45	1	38	"
10:13	.15	2.65	"	17.54	7.17	402	25.7	2.48	1	38	"
10:16	.15	2.80	"	17.54	7.17	401	25.7	2.48	.63	38	"

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. McKinney	SAMPLER(S) SIGNATURES: B. McK	SAMPLING INITIATED AT: 10:20	SAMPLING ENDED AT: 10:23
PUMP OR TUBING DEPTH IN WELL (feet): 23.75	SAMPLE PUMP FLOW RATE (mL per minute): <200	TUBING MATERIAL CODE: HDPE	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW019 GW 268	3	CG	40 ml.	HCL	—	—	8260/VOH's	APP

REMARKS:

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

S

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners/600-5-1936	SITE LOCATION:	FACILITY ID: 9501362
WELL NO: QC049	SAMPLE ID: GW 276	DATE: 4/22/16

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

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

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

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

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. McKinney	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS: MS/MSD

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

S

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Terrace Cleaners/600-5-1936	SITE LOCATION: Terrace	FACILITY ID: 9501362
WELL NO: RC048	SAMPLE ID: GW 275	DATE: 4.22.16

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

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

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

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

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. McKinney	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
RC048 GW275	1	CG	40ml	HCL	—	—	8260/VOH's	A

REMARKS: Trip Blank

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **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)

S

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI Pro Plus **INSTRUMENT #** US Enviro. / 10D101382

☒ **pH**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A pH 7.00 Buffer Capsule, US Enviro., Lot # 4AL-315, EXP. 12/16

Standard B pH 4.00 Buffer CapsuleUS Enviro. Lot # 4AL-447, Exp. 12/16

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4.22.16	9:30	A	7.00	7.04	.57	Y	Init.	S.M.
"	"	B	4.00	4.01	.25	Y	"	S.M.
"	13:20	A	7.00	7.00	0	Y	Final	S.M.
"	"	B	4.00	4.02	.50	Y	"	S.M.

☒ **CONDUCTIVITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000us/cm @ 25 degrees C, US Environmental, Exp.10-16, Lot # 151007E

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
9:75 4.22.16	9:30	A	1000	953/23.7°c	2.26	Y	Init.	S.M
11:56 "	13:20	A	1000	1034 / 33.2°c	3.02	Y	Final	S.M.

☒ **DO**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Saturated Air Chamber/100%

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4.22.16	9:30	A	100	100.3	.3	Y	Init.	S.M.
"	13:20	A	100	100.2	.2	Y	Final	S.M.

INSTRUMENT (MAKE/MODEL#) Hach 2100Q **INSTRUMENT #** NF07613

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 20.0 ntu,Hach, Lot # A5105, Exp. 7/16

Standard B 100 ntu, Hach, Lot # A5093, Exp. 7/16

Standard C 800ntu,Hach, Lot # A5104, Exp. 7/16

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4.22.16	9:30	A	20	20.1	.5	Y	Init.	JM
"	"	B	100	101	1	Y	"	
"	"	C	800	792	1	Y	"	
"	13:20	A	20	19.6	2	Y	Final	
"	"	B	100	98.7	1.3	Y	"	
"	"	C	800	788	1.5	Y	"	

9.88
10.01

INSTRUMENT (MAKE/MODEL#) LaMotte 2020E **INSTRUMENT #** _____

☒ **ORP**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 0.0ntu, AMCO Primary, Exp. 3/16, Lot # C364648

Standard B 1.0ntu, AMCO Primary, Exp. 10/16, Lot # C577685

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS

DEP-SOP-001/01: Form FD 9000-8

Field Instrument Calibration Records (pH)

INSTRUMENT (MAKE/MODEL#) YSI Pro Plus **INSTRUMENT Kit # 2(NF07612)**

☒ **pH**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A pH 7.00 Buffer Capsule, US Environmental, Exp. 1/17, Lot # 150626A

Standard B pH 4.00 Buffer Capsule, US Environmental, Exp. 4-16, Lot # 150415B

Standard C pH 10.00 Buffer Capsule, US Environmental, Exp. 5-16, Lot # 4AA918

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4-22-16	8:48	A	7.00	7.00	0	Yes	Init.	JO
4-22-16	8:52	B	4.00	3.95	1.25	Yes	"	JO
4-22-16	15:38	A	7.00	7.00	0	Yes	Final	JO
4-22-16	15:42	B	4.00	4.00	0	Yes	"	JO

☒ **CONDUCTIVITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000us/cm @ 25 degrees C, US Environmental, Exp.10-16, Lot # 151007E

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4-22-16	8:44	A	1000	963@23.1	.20	Yes	Init.	JO
4-22-16	15:33	A	1000	1004@25.2	.02	Yes	Final	JO

☒ **DO**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Saturated Air Chamber

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4-22-16	8:56	A	100	100.3	.3	Yes	Init.	JO
4-22-16	15:45	A	100	100.1	.1	Yes	Final	JO

INSTRUMENT (MAKE/MODEL#) Hach 2100 Q **INSTRUMENT # Kit # 2 (NF7713)**

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 20.0 ntu,Hach, Lot # A5105, Exp. 7/16

Standard B 100 ntu, Hach, Lot # A5093, Exp. 7/16

Standard C *800ntu,Hach, Lot # A5104, Exp. 7/16*

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4-22-16	8:42	A	20	20.0	0	Yes	Init.	JO
	8:44	B	100	103	3	Yes	"	JO
	8:46	C	800	830	3.75	Yes	"	JO
	15:35	A	20	20.1	2	Yes	Final	JO
	15:37	B	100	102	2		"	JO
↓	15:40	C	800	816	2		"	JO

INSTRUMENT (MAKE/MODEL#) _____ **INSTRUMENT #** _____

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A _____

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS

Appendix D
Laboratory Analytical Report

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118
www.jupiterlabs.com
clientservices@jupiterlabs.com

April 29, 2016

Brian Moore
GHD Tampa
4019 E. Fowler Ave
Tampa, FL 33617

RE:	LOG#	1646244
	Project ID:	TERRACE CLEANER 090126
	COC#	646244

Dear Brian Moore:

Enclosed are the analytical results for sample(s) received by the laboratory on Saturday, April 23, 2016. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Shourjo Ghose for
Kacia Baldwin
V.P. of Operations

FDOH# E86546

CERTIFICATE OF ANALYSIS

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Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID	Sample ID	Method	Analytes Reported
1646244001	MW007 GW265	EPA 8260B	40
1646244002	MW012 GW266	EPA 8260B	40
1646244003	MW010 GW267	EPA 8260B	40
1646244004	MW019 GW268	EPA 8260B	40
1646244005	MW013 GW269	EPA 8260B	40
1646244006	MW015 GW270	EPA 8260B	40
1646244007	MW016 GW272	EPA 8260B	40
1646244008	MW014 GW273	EPA 8260B	40
1646244009	MW017 GW274	EPA 8260B	40
1646244010	QC048 GW275	EPA 8260B	40
1646244011	MW018/GW271	EPA 8260B	40
1646244012	QC049/GW276	EPA 8260B	40

FDOH# E86546

CERTIFICATE OF ANALYSIS

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Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE SUMMARY

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1646244001	MW007 GW265	Aqueous Liquid	4/22/2016 09:21	4/23/2016 09:10
1646244002	MW012 GW266	Aqueous Liquid	4/22/2016 09:53	4/23/2016 09:10
1646244003	MW010 GW267	Aqueous Liquid	4/22/2016 10:29	4/23/2016 09:10
1646244004	MW019 GW268	Aqueous Liquid	4/22/2016 10:20	4/23/2016 09:10
1646244005	MW013 GW269	Aqueous Liquid	4/22/2016 10:55	4/23/2016 09:10
1646244006	MW015 GW270	Aqueous Liquid	4/22/2016 11:43	4/23/2016 09:10
1646244007	MW016 GW272	Aqueous Liquid	4/22/2016 12:00	4/23/2016 09:10
1646244008	MW014 GW273	Aqueous Liquid	4/22/2016 13:10	4/23/2016 09:10
1646244009	MW017 GW274	Aqueous Liquid	4/22/2016 13:30	4/23/2016 09:10
1646244010	QC048 GW275	Aqueous Liquid	4/22/2016 00:00	4/23/2016 09:10
1646244011	MW018/GW271	Aqueous Liquid	4/22/2016 12:28	4/23/2016 09:10
1646244012	QC049/GW276	Aqueous Liquid	4/22/2016 12:28	4/23/2016 09:10

FDOH# E86546

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Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID: **1646244001** Date Received: 4/23/2016 09:10 Matrix: Aqueous Liquid

Sample ID: **MW007 GW265** Date Collected: 4/22/2016 09:21

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Tetrachloroethene	1.29	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Dibromofluoromethane (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	
Toluene d8 (S)	103	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	

FDOH# E86546

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244001**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW007 GW265**	Date Collected:	4/22/2016 09:21		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	100	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 18:02	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244002**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW012 GW266**	Date Collected:	4/22/2016 09:53		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Tetrachloroethene	2.89	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Dibromofluoromethane (S)	101	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	
Toluene d8 (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244002**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW012 GW266**	Date Collected:	4/22/2016 09:53		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	100	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 18:53	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244003**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW010 GW267**	Date Collected:	4/22/2016 10:29		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Tetrachloroethene	2.58	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Dibromofluoromethane (S)	101	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	
Toluene d8 (S)	103	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244003**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW010 GW267**	Date Collected:	4/22/2016 10:29		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	101	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 19:18	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244004**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW019 GW268**	Date Collected:	4/22/2016 10:20		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Tetrachloroethene	3.01	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Dibromofluoromethane (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	
Toluene d8 (S)	103	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244004**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW019 GW268**	Date Collected:	4/22/2016 10:20		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	100	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 19:44	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244005**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW013 GW269**	Date Collected:	4/22/2016 10:55		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Tetrachloroethene	11.9	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Trichloroethene	1.31	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
cis-1,2-Dichloroethene	1.37	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Dibromofluoromethane (S)	100	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	
Toluene d8 (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244005**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW013 GW269**	Date Collected:	4/22/2016 10:55		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	101	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 20:09	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244006**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW015 GW270**	Date Collected:	4/22/2016 11:43		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Tetrachloroethene	0.620i	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Trichloroethene	1.35	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
cis-1,2-Dichloroethene	1.33	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Dibromofluoromethane (S)	98	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	
Toluene d8 (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244006**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW015 GW270**	Date Collected:	4/22/2016 11:43		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	99	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 20:35	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID: **1646244007** Date Received: 4/23/2016 09:10 Matrix: Aqueous Liquid

Sample ID: **MW016 GW272** Date Collected: 4/22/2016 12:00

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Tetrachloroethene	13.9	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Trichloroethene	0.500i	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Dibromofluoromethane (S)	99	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	
Toluene d8 (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244007**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW016 GW272**	Date Collected:	4/22/2016 12:00		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	100	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:00	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244008**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW014 GW273**	Date Collected:	4/22/2016 13:10		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Tetrachloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Dibromofluoromethane (S)	99	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	
Toluene d8 (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244008**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW014 GW273**	Date Collected:	4/22/2016 13:10		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	101	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:26	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID: **1646244009** Date Received: 4/23/2016 09:10 Matrix: Aqueous Liquid

Sample ID: **MW017 GW274** Date Collected: 4/22/2016 13:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Tetrachloroethene	30.5	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Trichloroethene	12.9	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Vinyl chloride	1.08	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
cis-1,2-Dichloroethene	18.9	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
trans-1,2-Dichloroethene	6.97	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Dibromofluoromethane (S)	98	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	
Toluene d8 (S)	101	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244009**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW017 GW274**	Date Collected:	4/22/2016 13:30		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 21:51	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244010**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**QC048 GW275**	Date Collected:	4/22/2016 00:00		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Tetrachloroethene	0.500i	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Dibromofluoromethane (S)	100	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	
Toluene d8 (S)	102	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244010**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**QC048 GW275**	Date Collected:	4/22/2016 00:00		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	100	%	70-130		1	4/25/2016 08:00	KT	4/25/2016 22:17	KT	

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID: **1646244011** Date Received: 4/23/2016 09:10 Matrix: Aqueous Liquid

Sample ID: **MW018/GW271** Date Collected: 4/22/2016 12:28

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Tetrachloroethene	0.510i	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Dibromofluoromethane (S)	95	%	70-130		1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	
Toluene d8 (S)	99	%	70-130		1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	

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Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244011**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**MW018/GW271**	Date Collected:	4/22/2016 12:28		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	89	%	70-130		1	4/27/2016 08:10	KT	4/27/2016 12:06	KT	

FDOH# E86546

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244012**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**QC049/GW276**	Date Collected:	4/22/2016 12:28		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260B (W)					Preparation Method: EPA 5030B					
					Analytical Method: EPA 8260B					
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,2-DBCP	U	ug/L	1.00	0.550	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Bromochloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Bromodichloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Bromoform	U	ug/L	1.00	0.550	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Bromomethane	U	ug/L	1.00	0.660	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Chlorobenzene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Chloroethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Chloroform	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Chloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Dibromochloromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Dibromomethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Methylene chloride	U	ug/L	4.00	2.00	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Tetrachloroethene	0.450i	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Trichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Vinyl chloride	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Dibromofluoromethane (S)	94	%	70-130		1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	
Toluene d8 (S)	100	%	70-130		1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	

FDOH# E86546

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ANALYTICAL RESULTS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID:	**1646244012**	Date Received:	4/23/2016 09:10	Matrix:	Aqueous Liquid
Sample ID:	**QC049/GW276**	Date Collected:	4/22/2016 12:28		

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	89	%	70-130		1	4/27/2016 08:10	KT	4/27/2016 12:55	KT	

FDOH# E86546

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

PARAMETER QUALIFIERS

PROJECT COMMENTS

1646244	A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.

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QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

QC Batch: VXX/6714 Analysis Method: EPA 8260B

QC Batch Method: EPA 5030B

Associated Lab Samples: 1646244001 1646244002 1646244003 1646244004 1646244005 1646244006 1646244007 1646244008 1646244009 1646244010 1646260001 1646260002 1646260003 1646260004

METHOD BLANK: 96399

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Volatiles by GC/MS				
Dibromofluoromethane (S)	%	100	70-130	
Toluene d8 (S)	%	101	70-130	
4-Bromofluorobenzene (S)	%	102	70-130	
Dichlorodifluoromethane	ug/L	U	0.400	
Chloromethane	ug/L	U	0.400	
Vinyl chloride	ug/L	U	0.400	
Bromomethane	ug/L	U	0.660	
Chloroethane	ug/L	U	0.400	
Trichlorofluoromethane	ug/L	U	0.400	
1,1-Dichloroethene	ug/L	U	0.400	
Methylene chloride	ug/L	U	2.00	
trans-1,2-Dichloroethene	ug/L	U	0.400	
1,1-Dichloroethane	ug/L	U	0.400	
cis-1,2-Dichloroethene	ug/L	U	0.400	
Bromochloromethane	ug/L	U	0.400	
Chloroform	ug/L	U	0.400	
2,2-Dichloropropane	ug/L	U	0.400	
1,2-Dichloroethane	ug/L	U	0.400	
1,1,1-Trichloroethane	ug/L	U	0.400	
1,1-Dichloropropene	ug/L	U	0.400	
Carbon tetrachloride	ug/L	U	0.400	
Dibromomethane	ug/L	U	0.400	
1,2-Dichloropropane	ug/L	U	0.400	
Trichloroethene	ug/L	U	0.400	
Bromodichloromethane	ug/L	U	0.400	
cis-1,3-Dichloropropene	ug/L	U	0.400	
trans-1,3-Dichloropropene	ug/L	U	0.400	
1,1,2-Trichloroethane	ug/L	U	0.400	
1,3-Dichloropropane	ug/L	U	0.400	
Dibromochloromethane	ug/L	U	0.400	
1,2-Dibromoethane (EDB)	ug/L	U	0.400	
Tetrachloroethene	ug/L	U	0.400	
1,1,1,2-Tetrachloroethane	ug/L	U	0.400	
Chlorobenzene	ug/L	U	0.400	
Bromoform	ug/L	U	0.550	
1,1,2,2-Tetrachloroethane	ug/L	U	0.200	
1,3-Dichlorobenzene	ug/L	U	0.400	

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QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

METHOD BLANK: 96399

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,4-Dichlorobenzene	ug/L	U	0.400	
1,2-Dichlorobenzene	ug/L	U	0.400	
1,2-DBCP	ug/L	U	0.550	

LABORATORY CONTROL SAMPLE & LCSD: 96400 96401

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				104	103	70-130	0.5	25	
Toluene d8 (S)	%				104	103	70-130	1	25	
4-Bromofluorobenzene (S)	%				98	99	70-130	0.8	25	
Dichlorodifluoromethane	ug/L	49.2	63.1	59.7	128	121	70-130	6	25	
Chloromethane	ug/L	50	53.3	51.4	107	103	60-130	4	25	
Vinyl chloride	ug/L	50.5	64.2	60.7	127	120	70-130	6	25	
Bromomethane	ug/L	50.2	23.7	31.3	47	62	60-130	28	25	J3p
Chloroethane	ug/L	50.1	57.9	54.6	116	109	70-130	6	25	
Trichlorofluoromethane	ug/L	49.5	63.0	59.3	127	120	70-130	6	25	
1,1-Dichloroethene	ug/L	49.5	61.8	57.8	125	117	70-130	7	25	
Methylene chloride	ug/L	50	59.0	56.4	118	113	60-130	5	25	
trans-1,2-Dichloroethene	ug/L	49.5	61.0	58.2	123	118	70-130	5	25	
1,1-Dichloroethane	ug/L	49.5	61.8	58.7	125	119	70-130	5	25	
cis-1,2-Dichloroethene	ug/L	49.7	58.4	55.4	118	112	70-130	5	25	
Bromochloromethane	ug/L	49.6	58.5	56.0	118	113	70-130	4	25	
Chloroform	ug/L	49.7	55.4	52.9	111	106	70-130	5	25	
2,2-Dichloropropane	ug/L	49.7	69.5	64.5	140	130	50-130	7	25	J3a
1,2-Dichloroethane	ug/L	50.1	56.5	53.8	113	107	70-130	5	25	
1,1,1-Trichloroethane	ug/L	49.4	61.3	57.0	124	115	70-130	7	25	
1,1-Dichloropropene	ug/L	49.6	59.4	54.9	120	111	70-130	8	25	
Carbon tetrachloride	ug/L	50.1	61.5	57.4	123	115	60-130	7	25	
Dibromomethane	ug/L	49.7	58.9	57.1	119	115	70-130	3	25	
1,2-Dichloropropane	ug/L	50.1	58.2	54.7	116	109	70-130	6	25	
Trichloroethene	ug/L	49.1	60.6	56.7	124	116	70-130	7	25	
Bromodichloromethane	ug/L	50.1	53.8	51.4	107	103	70-130	5	25	
cis-1,3-Dichloropropene	ug/L	47.8	64.4	60.7	135	127	60-130	6	25	J3a
trans-1,3-Dichloropropene	ug/L	46.1	59.8	56.5	130	122	60-130	6	25	
1,1,2-Trichloroethane	ug/L	49.7	60.6	57.5	122	116	70-130	5	25	
1,3-Dichloropropane	ug/L	50	55.7	53.7	111	107	70-130	4	25	
Dibromochloromethane	ug/L	50.1	64.3	61.4	129	123	70-130	5	25	
1,2-Dibromoethane (EDB)	ug/L	50	59.1	56.8	118	114	70-130	4	25	
Tetrachloroethene	ug/L	49.8	60.3	57.3	121	115	70-130	5	25	
1,1,1,2-Tetrachloroethane	ug/L	49.3	63.8	60.2	129	122	70-130	6	25	

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QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

LABORATORY CONTROL SAMPLE & LCSD: 96400 96401

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chlorobenzene	ug/L	50.1	59.3	56.5	119	113	70-130	5	25	
Bromoform	ug/L	50	61.7	59.2	123	119	70-130	4	25	
1,1,2,2-Tetrachloroethane	ug/L	50.1	60.8	57.7	121	115	70-130	5	25	
1,3-Dichlorobenzene	ug/L	50	59.6	57.8	119	115	70-130	3	25	
1,4-Dichlorobenzene	ug/L	50	58.1	57.3	116	114	70-130	1	25	
1,2-Dichlorobenzene	ug/L	49.6	59.4	58.3	120	118	70-130	2	25	
1,2-DBCP	ug/L	50.1	59.0	58.2	118	116	60-130	1	25	

SAMPLE DUPLICATE: 96597 Original: 1646244001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Volatiles by GC/MS						
Dibromofluoromethane (S)	%	40.4		0.5	25	
Toluene d8 (S)	%	40.5		0.2	25	
4-Bromofluorobenzene (S)	%	40.1		2	25	
Dichlorodifluoromethane	ug/L	0	U	0	25	
Chloromethane	ug/L	0	U	0	25	
Vinyl chloride	ug/L	0	U	0	25	
Bromomethane	ug/L	0	U	0	25	
Chloroethane	ug/L	0	U	0	25	
Trichlorofluoromethane	ug/L	0	U	0	25	
1,1-Dichloroethene	ug/L	0	U	0	25	
Methylene chloride	ug/L	0	U	0	25	
trans-1,2-Dichloroethene	ug/L	0	U	0	25	
1,1-Dichloroethane	ug/L	0	U	0	25	
cis-1,2-Dichloroethene	ug/L	0	U	0	25	
Bromochloromethane	ug/L	0	U	0	25	
Chloroform	ug/L	0	U	0	25	
2,2-Dichloropropane	ug/L	0	U	0	25	
1,2-Dichloroethane	ug/L	0	U	0	25	
1,1,1-Trichloroethane	ug/L	0	U	0	25	
1,1-Dichloropropene	ug/L	0	U	0	25	
Carbon tetrachloride	ug/L	0	U	0	25	
Dibromomethane	ug/L	0	U	0	25	
1,2-Dichloropropane	ug/L	0	U	0	25	
Trichloroethene	ug/L	0	U	0	25	
Bromodichloromethane	ug/L	0	U	0	25	
cis-1,3-Dichloropropene	ug/L	0	U	0	25	
trans-1,3-Dichloropropene	ug/L	0	U	0	25	
1,1,2-Trichloroethane	ug/L	0	U	0	25	

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QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

SAMPLE DUPLICATE: 96597 Original: 1646244001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/L	0	U	0	25	
Dibromochloromethane	ug/L	0	U	0	25	
1,2-Dibromoethane (EDB)	ug/L	0	U	0	25	
Tetrachloroethene	ug/L	1.29	1.32	2	25	
1,1,1,2-Tetrachloroethane	ug/L	0	U	0	25	
Chlorobenzene	ug/L	0	U	0	25	
Bromoform	ug/L	0	U	0	25	
1,1,2,2-Tetrachloroethane	ug/L	0	U	0	25	
1,3-Dichlorobenzene	ug/L	0	U	0	25	
1,4-Dichlorobenzene	ug/L	0	U	0	25	
1,2-Dichlorobenzene	ug/L	0	U	0	25	
1,2-DBCP	ug/L	0	U	0	25	

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QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

QC Batch: VXX/6726 Analysis Method: EPA 8260B

QC Batch Method: EPA 5030B

Associated Lab Samples: 1646224001 1646224002 1646224003 1646224004 1646224005 1646244011 1646244012

METHOD BLANK: 96561

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Volatiles by GC/MS				
Dibromofluoromethane (S)	%	94	70-130	
Toluene d8 (S)	%	101	70-130	
4-Bromofluorobenzene (S)	%	90	70-130	
Dichlorodifluoromethane	ug/L	U	0.400	
Chloromethane	ug/L	U	0.400	J3
Vinyl chloride	ug/L	U	0.400	
Bromomethane	ug/L	U	0.660	
Chloroethane	ug/L	U	0.400	
Trichlorofluoromethane	ug/L	U	0.400	
1,1-Dichloroethene	ug/L	U	0.400	
Methylene chloride	ug/L	U	2.00	
trans-1,2-Dichloroethene	ug/L	U	0.400	
1,1-Dichloroethane	ug/L	U	0.400	
cis-1,2-Dichloroethene	ug/L	U	0.400	
Bromochloromethane	ug/L	U	0.400	
Chloroform	ug/L	U	0.400	
2,2-Dichloropropane	ug/L	U	0.400	
1,2-Dichloroethane	ug/L	U	0.400	
1,1,1-Trichloroethane	ug/L	U	0.400	
1,1-Dichloropropene	ug/L	U	0.400	
Carbon tetrachloride	ug/L	U	0.400	
Dibromomethane	ug/L	U	0.400	
1,2-Dichloropropane	ug/L	U	0.400	
Trichloroethene	ug/L	U	0.400	
Bromodichloromethane	ug/L	U	0.400	
cis-1,3-Dichloropropene	ug/L	U	0.400	
trans-1,3-Dichloropropene	ug/L	U	0.400	
1,1,2-Trichloroethane	ug/L	U	0.400	
1,3-Dichloropropane	ug/L	U	0.400	
Dibromochloromethane	ug/L	U	0.400	
1,2-Dibromoethane (EDB)	ug/L	U	0.400	
Tetrachloroethene	ug/L	U	0.400	J3
1,1,1,2-Tetrachloroethane	ug/L	U	0.400	
Chlorobenzene	ug/L	U	0.400	
Bromoform	ug/L	U	0.550	
1,1,2,2-Tetrachloroethane	ug/L	U	0.200	
1,3-Dichlorobenzene	ug/L	U	0.400	
1,4-Dichlorobenzene	ug/L	U	0.400	

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QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

METHOD BLANK: 96561

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dichlorobenzene	ug/L	U	0.400	
1,2-DBCP	ug/L	U	0.550	

LABORATORY CONTROL SAMPLE & LCSD: 96562 96563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				95	96	70-130	0.5	25	
Toluene d8 (S)	%				103	103	70-130	0	25	
4-Bromofluorobenzene (S)	%				94	92	70-130	1	25	
Dichlorodifluoromethane	ug/L	49.2	54.3	48.1	110	98	70-130	12	25	
Chloromethane	ug/L	50	31.8	28.6	64	57	60-130	11	25	J3
Vinyl chloride	ug/L	50.5	37.6	37.9	74	75	70-130	0.8	25	
Bromomethane	ug/L	50.2	9.92	13.1	20	26	60-130	28	25	J3p
Chloroethane	ug/L	50.1	44.1	39.4	88	79	70-130	11	25	
Trichlorofluoromethane	ug/L	49.5	43.6	38.1	88	77	70-130	13	25	
1,1-Dichloroethene	ug/L	49.5	55.5	51.9	112	105	70-130	7	25	
Methylene chloride	ug/L	50	54.7	53.3	109	107	60-130	3	25	
trans-1,2-Dichloroethene	ug/L	49.5	57.4	53.4	116	108	70-130	7	25	
1,1-Dichloroethane	ug/L	49.5	56.9	53.5	115	108	70-130	6	25	
cis-1,2-Dichloroethene	ug/L	49.7	57.3	52.2	115	105	70-130	9	25	
Bromochloromethane	ug/L	49.6	56.1	52.7	113	106	70-130	6	25	
Chloroform	ug/L	49.7	51.3	46.5	103	94	70-130	10	25	
2,2-Dichloropropane	ug/L	49.7	61.3	54.2	123	109	50-130	12	25	
1,2-Dichloroethane	ug/L	50.1	50.4	46.8	101	93	70-130	7	25	
1,1,1-Trichloroethane	ug/L	49.4	57.0	50.4	115	102	70-130	12	25	
1,1-Dichloropropene	ug/L	49.6	59.6	51.9	120	105	70-130	14	25	
Carbon tetrachloride	ug/L	50.1	58.0	50.9	116	102	60-130	13	25	
Dibromomethane	ug/L	49.7	54.3	49.8	109	100	70-130	9	25	
1,2-Dichloropropane	ug/L	50.1	57.4	52.4	115	105	70-130	9	25	
Trichloroethene	ug/L	49.1	63.7	55.8	130	114	70-130	13	25	
Bromodichloromethane	ug/L	50.1	50.1	44.5	100	89	70-130	12	25	
cis-1,3-Dichloropropene	ug/L	47.8	59.7	54.7	125	114	60-130	9	25	
trans-1,3-Dichloropropene	ug/L	46.1	58.7	53.5	127	116	60-130	9	25	
1,1,2-Trichloroethane	ug/L	49.7	56.3	51.4	113	103	70-130	9	25	
1,3-Dichloropropane	ug/L	50	63.3	56.0	127	112	70-130	12	25	
Dibromochloromethane	ug/L	50.1	57.7	50.9	115	102	70-130	13	25	
1,2-Dibromoethane (EDB)	ug/L	50	63.4	56.3	127	113	70-130	12	25	
Tetrachloroethene	ug/L	49.8	67.9	57.4	136	115	70-130	17	25	J3a,J3
1,1,1,2-Tetrachloroethane	ug/L	49.3	62.6	56.1	127	114	70-130	11	25	
Chlorobenzene	ug/L	50.1	64.6	57.2	129	114	70-130	12	25	

FDOH# E86546

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Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

LABORATORY CONTROL SAMPLE & LCSD: 96562 96563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromoform	ug/L	50	53.0	46.3	106	93	70-130	13	25	
1,1,2,2-Tetrachloroethane	ug/L	50.1	57.2	49.5	114	99	70-130	14	25	
1,3-Dichlorobenzene	ug/L	50	58.6	52.1	117	104	70-130	12	25	
1,4-Dichlorobenzene	ug/L	50	60.9	53.0	122	106	70-130	14	25	
1,2-Dichlorobenzene	ug/L	49.6	56.0	49.8	113	100	70-130	12	25	
1,2-DBCP	ug/L	50.1	50.4	42.7	101	85	60-130	17	25	

SAMPLE DUPLICATE: 96603 Original: 1646244011

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Volatiles by GC/MS						
Dibromofluoromethane (S)	%	37.6		1	25	
Toluene d8 (S)	%	39		1	25	
4-Bromofluorobenzene (S)	%	35.8		0.8	25	
Dichlorodifluoromethane	ug/L	0	U	0	25	
Chloromethane	ug/L	0	U	0	25	J3
Vinyl chloride	ug/L	0	U	0	25	
Bromomethane	ug/L	0	U	0	25	
Chloroethane	ug/L	0	U	0	25	
Trichlorofluoromethane	ug/L	0	U	0	25	
1,1-Dichloroethene	ug/L	0	U	0	25	
Methylene chloride	ug/L	0	U	0	25	
trans-1,2-Dichloroethene	ug/L	0	U	0	25	
1,1-Dichloroethane	ug/L	0	U	0	25	
cis-1,2-Dichloroethene	ug/L	0	U	0	25	
Bromochloromethane	ug/L	0	U	0	25	
Chloroform	ug/L	0	U	0	25	
2,2-Dichloropropane	ug/L	0	U	0	25	
1,2-Dichloroethane	ug/L	0	U	0	25	
1,1,1-Trichloroethane	ug/L	0	U	0	25	
1,1-Dichloropropene	ug/L	0	U	0	25	
Carbon tetrachloride	ug/L	0	U	0	25	
Dibromomethane	ug/L	0	U	0	25	
1,2-Dichloropropane	ug/L	0	U	0	25	
Trichloroethene	ug/L	0	U	0	25	
Bromodichloromethane	ug/L	0	U	0	25	
cis-1,3-Dichloropropene	ug/L	0	U	0	25	
trans-1,3-Dichloropropene	ug/L	0	U	0	25	
1,1,2-Trichloroethane	ug/L	0	U	0	25	
1,3-Dichloropropane	ug/L	0	U	0	25	

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QUALITY CONTROL DATA

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

SAMPLE DUPLICATE: 96603 Original: 1646244011

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Dibromochloromethane	ug/L	0	U	0	25	
1,2-Dibromoethane (EDB)	ug/L	0	U	0	25	
Tetrachloroethene	ug/L	0.51	0.530i	4	25	J3
1,1,1,2-Tetrachloroethane	ug/L	0	U	0	25	
Chlorobenzene	ug/L	0	U	0	25	
Bromoform	ug/L	0	U	0	25	
1,1,2,2-Tetrachloroethane	ug/L	0	U	0	25	
1,3-Dichlorobenzene	ug/L	0	U	0	25	
1,4-Dichlorobenzene	ug/L	0	U	0	25	
1,2-Dichlorobenzene	ug/L	0	U	0	25	
1,2-DBCP	ug/L	0	U	0	25	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

QUALITY CONTROL PARAMETER QUALIFIERS

J3	The reported value failed to meet the established quality control for either precision or accuracy.
J3a	The reported value failed to meet the established quality control criteria. LCS value skewed high. Target analyte was not detected in associated samples.
J3p	The reported value failed to meet the established quality control criteria for precision. Target analyte was not detected in associated samples.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 1646244

Project ID: TERRACE CLEANER 090126

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1646244001	**MW007 GW265**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244002	**MW012 GW266**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244003	**MW010 GW267**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244004	**MW019 GW268**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244005	**MW013 GW269**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244006	**MW015 GW270**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244007	**MW016 GW272**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244008	**MW014 GW273**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244009	**MW017 GW274**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244010	**QC048 GW275**	EPA 5030B	VXX/6714	EPA 8260B	VMS/6514
1646244011	**MW018/GW271**	EPA 5030B	VXX/6726	EPA 8260B	VMS/6525
1646244012	**QC049/GW276**	EPA 5030B	VXX/6726	EPA 8260B	VMS/6525

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J.E.L. Log # 1646244
P.O. # 34007353
Quote # _____

Company Name GHD
Address 4019 E. Fowler Av.
City Tampa State FL Zip 33617
Sampling Site Address 56th St.
Attn: Brian Moore Email
Project Name Terrace Cleaners Project # 090126
Sampler Name/Signature W. McKinney / W. M-K

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
X Standard
___ Expedited
Due___/___/___

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Parameters: 8260/VOH's	Field Filtered (Y/N)	Comments
1	MW007 GW265	4-22-16	9:21	GW	3		3		WACS Name: Terrace Cleaners
2	MW012 GW266	"	9:53	"	"		3		WACS ID: 299501362
3	MW010 GW267	"	10:29	"	"		3		EDD: Dryclenner
4	MW019 GW268	"	10:20	"	"		3		
5	MW013 GW269	"	10:55	"	"		3		
6	MW015 GW270	"	11:43	"	"		3		
7	MW016 GW272	"	12:00	"	"		3		
8	MW014 GW273	"	13:10	"	"		3		① Changed Per
9	MW017 GW274	"	13:30	"	"		3		Client.
0	QC048 GW ~~271~~ 275 ①	"	—	W	1		1		CF 4/26/16

Matrix Codes*

S	Soil/Solid Sediment	SW	Surface Water
GW	Ground Water	SL	Sludge
WW	Waste Water	O	Other (Please Specify)
DW	Drinking Water		

Pres Codes

A- none		I- Ice	
B- HNO_3		O- Other	
C- H_2SO_4		M- MeOH	
D- NaOH		N- $Na_2S_2O_3$	
E- HCl		Z- ZnAc	

Relinquished by	Date	Time	Received by	Date	Time
W. M-K	4.22.16	15:45	Jaamal Smith	4.22.16	1644
Jaamal Smith	4.22.16	2100	Crown Courier	4.22.16	2100
Crown Courier	4/23/16	910	ATBL	4/23/16	910

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ☐ FDEP UST Pre-Approval ☐
SFWMD ☐ ADaPT ☒ DOT ☐

Temp Control: 2.2 °C

Page 1 of 1

646244

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J.E.L. Log # 1646244
P.O. # _____
Quote # _____

Company Name GHD
Address 4019 E. Fowler Ave
City Tampa State FL Zip 33617
Sampling Site Address 56th St
Attn: Brian Moore Email
Project Name Terrace Cleaners Project # 090126
Sampler Name/Signature

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
X Standard
___ Expedited
Due__/__/__

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Parameters: 8260/VOH's	Field Filtered (Y/N)	Comments
1	MW018/GW271	4/22	~~12:20~~ 12:28	GW	3		✓		Page added
2	QC049/GW276	4/22	~~12:20~~ 12:26	GW	5		✓		per client
3									email.
4									cf 4/26/16
5									① Time change
6									per client
7									email. cf 4/26/16
8									
9									
0									

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none; I- Ice; B- HNO_3; O- Other; C- H_2SO_4; M- MeOH; D- NaOH; N- $Na_2S_2O_3$; E- HCl; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
			Crown		
Crown	4/23	0910	ABE	4/23	0910

QA/QC level with report
None ___1___2___3___ See price guide for applicable fees

FDEP Dry Cleaning ☐ FDEP UST Pre-Approval ☐
SFWMD ☐ ADaPT ☑ DOT ☐

Temp Control: 2.2 °C

Page_____of_____

1646244

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	1646244	Req:	2116
Client:	GHD Tampa	Project:	TERRACE CLEANER 090126
Level:	1	Date Rec'd:	4/23/2016 9:10:00 AM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Secutity Tape Present	Secutity Tape Intact	Method of Receipt	Comments
	2.2	12	☐	☐		

Checked By: ABE

Sample Verification

Loose Caps?	No	All Samples on COC accounted For?	Yes
Broken Containers?	No	All Samples on COC?	Yes
pH Verified?	No	Written on Internal COC?	No
Acid Preserved Samples Lot #		Sample Vol. Suff. For Analysis?	Yes
Base Preserved Samples Lot #		Samples Rec'd W/I Hold Time?	Yes
Samples Received From	courier	Are All Samples to be Analyzed?	Yes
Soil Origin (Domestic/Foreign		Correct Sample Containers?	Yes
Site Location/Project on COC?	Yes	COC Comments written on COC?	No
Client Project # on COC?	Yes	Samplers Initials on COC?	Yes
Project Mgr. Indicated on COC	Yes	Sample Date/Time Indicated?	Yes
COC relinquished/Dated by Client?	Yes	TAT Requested:	STD
COC Received/Dated by JEL	Yes	Client Requests Verbal Results?	No
JEL to Conduct ALL Analyses?	Yes		

Subcontract Analysis

Parameter	Via	Lab Name	Comments

Sample Receiving

From: Melissa Mills
Sent: Monday, April 25, 2016 2:44 PM
To: Sample Receiving
Subject: FW: LOA and COC Terrace Cleaners JEL 1646244

Please see below from Gabrielle.

Best Regards,

Melissa Mills | Senior Project Manager | www.jupiterlabs.com | 561-575-0030 (ext. 129)
NELAP . DoD ELAP . ISO 17025 . WMBE

Jupiter Environmental Laboratories
150 S. Old Dixie Hwy.
Jupiter, FL 33458
office: 561.575.0030 ext. 129
Email: mmills@jupiterlabs.com

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From: Enos, Gabrielle [mailto:Gabrielle.Enos@ghd.com]
Sent: Monday, April 25, 2016 2:40 PM
To: Melissa Mills <mmills@jupiterlabs.com>
Cc: John Heyman <jheyman@jupiterlabs.com>
Subject: RE: LOA and COC Terrace Cleaners JEL 1646244

Melissa:

Can you please have the lab check for an extra set of vials marked for MW018? The well was sampled but not put on the COC. I need to know if it was in the cooler.
Thank you,
G

Gabrielle M. Enos, PG
Senior Geologist

GHD
T: +1 813 971 3882 | M: +1 813 781 1335 | E: gabrielle.enos@ghd.com
4019 East Fowler Avenue Tampa Florida 33617 USA | www.ghd.com
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From: Melissa Mills [mailto:mmills@jupiterlabs.com]

Melissa Mills

From: Enos, Gabrielle
Sent: Monday, April 25, 2016 3:45 PM
To: Melissa Mills
Cc: John Heyman
Subject: RE: LOA and COC Terrace Cleaners JEL 1646244

Melissa:
Please relabel the QC sample as "QC048 GW275" The three vials that are labelled as "MW018 GW271" should be logged in as labelled. The MS/MSD sample should be relabeled as QC049 GW276.

Sorry for the confusion.
G

Gabrielle M. Enos, PG
Senior Geologist

GHD
T: +1 813 971 3882 | M: +1 813 781 1335 | E: gabrielle.enos@ghd.com
4019 East Fowler Avenue Tampa Florida 33617 USA | www.ghd.com

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From: Melissa Mills [mailto:mmills@jupiterlabs.com]
Sent: Monday, April 25, 2016 3:08 PM
To: Enos, Gabrielle
Cc: John Heyman
Subject: RE: LOA and COC Terrace Cleaners JEL 1646244

Hi Gabrielle,

It looks like we have 3 vials that are labeled "MW018 GW271", and we also have 5 more that appear to be labelled "MW018 GW271 MS/MSD". This brings up another question, because sample #10 on the chain is labelled "QC048 GW271" is that correct? Please let us know how you would like us to proceed. Thank you.

Best Regards,

Melissa Mills | Senior Project Manager | www.jupiterlabs.com | 561-575-0030 (ext. 129)
NELAP . DoD ELAP . ISO 17025 . WMBE

Jupiter Environmental Laboratories
150 S. Old Dixie Hwy.
Jupiter, FL 33458
office: 561.575.0030 ext. 129
Email: mmills@jupiterlabs.com

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