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Florida Department of
Environmental Protection

THIRD SEMI-ANNUAL WATER QUALITY MONITORING REPORT

Oak Hammock Disposal Facility

Osceola County, Florida

Prepared for

Omni Waste

Omni Waste of Osceola County, LLC
1501 Omni Way
St. Cloud, Florida

Prepared by

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Project Number FQ0709
October 2005

GeoSyntec Consultants

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SECTION 1

1. INTRODUCTION

1.1 Terms of Reference

This report documents the implementation of the Water Quality Monitoring Plan (Plan) for the Oak Hammock Disposal Facility (OHDF). The Plan was prepared as a part of the OHDF permit application. The requirements for executing the Plan are presented in Exhibit I of the permit to construct and operate Phase 1 of the OHDF (Permit Numbers SC49-0199726-001 and SO49-0199726-002) issued by the Florida Department of Environmental Protection (FDEP) on 18 October 2002. This report presents the results for the third semi-annual water quality (groundwater, surface water and leachate) monitoring event conducted between 25 July 2005 and 05 August 2005.

This report was prepared on behalf of Omni Waste of Osceola County (Omni) by Mr. Kirk E. Wills of GeoSyntec Consultants (GeoSyntec). In accordance with GeoSyntec's peer review procedures, Mr. Donald J. Strickland, P.G. and Mr. Kenneth W. Cargill P.E. reviewed this report.

1.2 Overview

The Plan and Exhibit I describe a water quality monitoring program at the OHDF with the intent to: (i) measure and report groundwater and surface water conditions for the monitoring network; (ii) monitor the groundwater flow direction; (iii) monitor the groundwater and surface water quality on a semi-annual basis; and (iv) monitor leachate on an annual basis. The third semi-annual water quality monitoring has been completed. This report includes presentation and discussions of the sample locations, sampling procedures, laboratory analyses, field data measurements and analytical results, groundwater level measurements, groundwater flow direction, leachate sampling, and surface water quality monitoring. In addition, this report includes a comparison of the analytical results of this sampling event to applicable Groundwater Cleanup Target Levels (GWCTLS) as promulgated in Chapter 62-777, Florida Administrative Code.

1.3 Site Description

The OHDF is located in eastern Osceola County, Florida, west of highway U.S. 441, and approximately 6.5 miles south of Holopaw. The facility includes a Class I landfill, which is linked to highway U.S. 441 by a 2.86-mile access road. The OHDF site comprises a total of approximately 2,179 acres. The landfill footprint at build-out is approximately 264 acres and consists of a total of 21 landfill cells that provide available waste capacity for a period of approximately 30 years. The first five-year construct and

operate permit is referenced as Phase 1 and includes up to four landfill cells (Cells 1 through 4), in the northern part of the landfill at build-out and covering approximately 52 acres. For monitoring purposes, the OHDF was given the Water Assurance Compliance System (WACS) facility identification number 89544.

SECTION 2

2. MONITORING WELL DETAILS

2.1 Well Layout and Construction

Forty five (45) groundwater monitoring wells were installed in fifteen (15) clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. Monitoring well clusters were located such that the spacing between well clusters was no greater than 500 ft, in accordance with the FDEP permit requirements. Vertically, three (3) groundwater monitoring wells were installed across the water table to monitor: (i) upper limit of the surfical aquifer below the ground surface identified as A-zone (shallow) wells; (ii) lower limit of the upper surficial aquifer above the intermediate clay layer identified as C-zone (deep) wells; and (iii) an intermediate depth between the shallow and deep wells identified as B-zone (intermediate) wells.

A layout depicting the location of groundwater monitoring wells and previously installed piezometers is included as Figures 1A and 1B. As shown, groundwater monitoring well clusters MW-1 through MW-13 were installed along the top outer edge of the landfill perimeter berm. The ground surface at the location of the wells in the perimeter berm is at approximately Elevation 92 feet with respect to National Geodetic Vertical Datum of 1929 (NGVD29). Groundwater monitoring well clusters MW-14 and MW-15 were installed along the berm at the southern limit of the Phase 1 development at approximately Elevation 84 feet (NGVD29). The locations, in Florida state plane coordinates, and elevation (in NGVD29 datum) was measured by Johnston Surveying, Inc. of Kissimmee, Florida, a registered land surveyor.

Wells were constructed with 2-in diameter schedule 40 PVC casing. The well screens were 10-ft in length with #6-slot (0.006-in.). A 30/45 graded silica sand was placed around the screen to a height of 2 to 3 ft. above the top of the screen. A seal of 30/65 graded silica sand was placed above the sand filter around the screen. The remaining annular space from the top of the fine sand filter seal to the existing ground surface was grouted using a tremie pipe with a cement/bentonite mixture containing no more than 5 percent bentonite by dry weight. The PVC well casings were extended approximately 2.5 to 3 ft above the existing ground surface. Surface completion consisted of a protective steel casing with a lockable cover set in a concrete pad. Each well was provided with a well cap, padlock, and an identification label. A summary of the monitoring well construction details are presented in Table 1.

2.2 Turbidity Issues

As discussed in the baseline water quality report, the formation around the screened intervals consists primarily of a fine, brown to dark brown, silty sand. Due to the subsurface formation properties, fine-grained and colloidal material are able to pass through the sand filter pack in many wells, primarily in the B-zone and C-zone wells. Most of the intermediate and deep wells had turbidity values in excess of the 20-NTU criterion even after extended well development and the removal of multiple well volumes of water.

The difficulty in attaining the desired turbidity criterion was discussed at a meeting between GeoSyntec and FDEP on 12 January 2004. In accordance with these discussions, it was agreed to collect field-filtered (1-micron) and unfiltered samples for metals analyses for any sample with a turbidity value greater than 20 NTU. The data generated by the dual sampling is expected to help demonstrate: (i) what effect turbidity may have on metal analyses (i.e., compare total and dissolved metal concentrations); and (ii) whether groundwater samples with turbidities greater than 20 NTU showed higher concentrations of metals than those samples with turbidities less than 20 NTU. The overall goal is to establish a site-specific turbidity level at which samples could be collected in future sampling events without the need of collecting filtered samples.

SECTION 3

3. MONITORING WELL SAMPLING

3.1 Sampling Locations and Procedures

All forty five (45) monitoring wells installed as part of the Phase 1 monitoring plan were sampled. Low-flow sampling techniques were used for groundwater sample collection. Except for the turbidity considerations as described in the previous section, all groundwater sampling was performed in accordance with the current FDEP Standard Operating Procedures (SOP's, February 2004) for groundwater sampling. Additionally for quality control (QC) purposes, two sample duplicates and two equipment rinsate samples were collected and analyzed.

Peristaltic pumps were used to purge and sample all A-zone (shallow) groundwater monitoring wells. Stainless steel submersible pumps were used to purge and sample all B-zone (intermediate) and C-zone (deep) groundwater wells. New tubing (silicone and/or polyethylene) was used at each monitoring well.

Prior to collection of groundwater samples, the monitoring wells were purged using a peristaltic or submersible pump. During the purging process, a YSI 556 water quality meter with flow-through cell was used to monitor the following field parameters: pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen. Field parameters were recorded on sample collection forms, which are contained in Appendix A. When the field parameters stabilized to within the acceptable tolerances required by the FDEP SOP, well purging was considered complete and groundwater samples were collected. For wells where the turbidity was not less than 20 NTU, turbidity stability was established by purging at least 5 well volumes and observing variations in the turbidity measurements. For these wells, once the turbidity had stabilized and all other parameters conformed to the guidance set forth in the FDEP SOP's, samples were collected. A non-filtered and field-filtered (1-micron) metals sample was collected for each monitoring well where turbidity measurements exceeded the 20 NTU level.

For monitoring wells where peristaltic pumps were used, volatile organic compound (VOC) sample vials were filled by removing the down well tubing, disconnecting the tubing from the water quality meter flow through cell, and reversing the flow direction on the peristaltic pump.

For the monitoring wells that were purged and sampled with a submersible pump, all sample aliquots were filled directly from the down-well tubing.

The calibration of the water quality monitoring instruments was checked on a daily basis. Instruments were re-calibrated as necessary. Water quality instrument calibration forms are presented in Appendix B. Samples were placed in coolers and packed with bagged ice for transport to the analytical laboratory. Chain-of-Custody forms were completed and accompanied the samples to the analytical laboratory. Chain-of-Custody forms have been included in Appendix C of this report. Trip blank samples accompanied all sample coolers with VOC samples. Temperature blanks were packed in each sample cooler.

3.2 Sample Analyses

Samples were analyzed by Accutest Laboratories Southeast, Inc. of Orlando, Florida (Accutest) in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) standards. Accutest holds certification from the Florida Department of Health (FDOH) for the analytical test methods used for this project and is certified in the State of Florida for analysis of environmental samples. A copy of Accutest's Florida Department of Health certificate is included in Appendix D.

Groundwater samples were analyzed by Accutest for total ammonia as nitrogen (N), chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium, and the 40 CFR, Part 258 Appendix I parameters. Other required parameters (i.e., pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen) were field measured during collection of the groundwater samples.

SECTION 4

4. ANALYTICAL RESULTS

4.1 Field Parameters

Table 2 provides a summary of the final measured field parameter values and field data for this semi-annual monitoring event.

4.2 Groundwater Monitoring Wells

The analytical results for groundwater samples collected are written on a compact disc (CD) in Appendix E. Analytical results on the CD are presented in the FDEP electronic validator spreadsheet format. Analytical results have been summarized in Table 3 to show all parameters where a constituent concentration was reported above the method detection limit. Any parameter exceeding GCTLs has been highlighted. The following discussion regarding groundwater quality is organized by analytical methods.

40 CFR, Part 258, Appendix I Volatile Compounds (Method 8260)

Five (5) wells (MW-1A, 2B, 8B, 12B and 14A) contained detectable concentrations of toluene ranging between 1.1 µg/L and 3.3 µg/L, which are all below the GCTL of 40 ug/L.

Total Metals (Method 6010 and Method 7470 for Mercury)

Two (2) wells (MW-11A and 13A) contained detectable concentrations of arsenic (0.021 and 0.016 mg/L, respectively), which are below the GCTL of 0.05 mg/L. Arsenic was not detected in any dissolved (filtered) metals samples.

Two (2) wells (MW-8B and 9B) contained detectable concentrations of chromium (0.019 and 0.015 mg/L, respectively), which are all below the GCTL of 0.1 mg/L. Chromium was not detected in any dissolved (filtered) metals samples.

Iron was detected in all forty five (45) monitoring wells in concentrations ranging between 0.39 and 23.6 mg/L, all of which are above the GCTL of 0.3 mg/L. For the eleven wells (11) where dissolved (filtered) metals samples were collected, concentrations of iron ranged between 0.65 and 1.23 mg/L, which are all above the GCTL.

Seven (7) wells (MW-2B, 6B, 8B, 9B, 12A, 12B and 13B) contained detectable concentrations of lead ranging between 0.005 and 0.02 mg/L. The reported

concentrations are all below the GCTL of 0.015 mg/L except for MW-8B, where the reported concentration is 0.02 mg/L. Lead was not detected in any dissolved (filtered) metals samples.

Sodium was detected in twenty six (26) monitoring wells in concentrations ranging between 5.1 and 15.1 mg/L, which are all below the GCTL of 160 mg/L. Sodium was detected in six (6) of the dissolved (filtered) metals samples. Concentrations of sodium ranged between 5.1 and 7.5 mg/L in the dissolved (filtered) metals samples, which are all below the GWCTL.

One (1) well (MW-14A) contained detectable concentration of zinc (0.045 mg/L), which is below the GCTL of 5.0 mg/L. Zinc was not detected in any dissolved (filtered) metals samples.

Anions by IC (Method 325.3)

With the exclusion of MW-2C, Chloride was detected in all monitoring wells. Concentrations varied between 3.0 mg/L and 27.2 mg/L. All reported concentrations are less than the GCTL for chloride of 250 mg/L.

Ammonia-N (Method 350.1)

Ammonia-N was detected in all forty five (45) monitoring wells. Concentrations varied between 0.11 mg/L and 10.5 mg/L. All reported concentrations are less than the GCTL for ammonia-N of 2.8 mg/L except for MW-3A, 5A, 9A, 9B, 10A, 11A and 14C, where the reported concentrations ranged between 3.0 and 10.5 mg/L.

Nitrate-N (Method 353.2)

Nitrate-N was detected in only one well (MW-3A) at a concentration of 3.0 mg/L, which is below the GCTL for nitrate-N of 10 mg/L.

Total Dissolved Solids (TDS) (Method 160.1)

All forty five (45) wells contained detectable concentrations of TDS ranging between 38 and 5,900 mg/L. All reported concentrations are below the GCTL of 500 mg/L except for MW-1A, where the reported concentration was 5,900 mg/L.

4.3 Data Validation

All analyses were performed within the method specified holding times.

Two equipment blanks were collected using the same equipment set up used for collection of the groundwater samples. One equipment blank was collected using the peristaltic pump set up, and the other was collected from the stainless steel submersible pump set up. De-ionized water supplied by Accutest was pumped through the peristaltic and submersible tubing and analyzed for the same parameters as the groundwater samples. Extractable organic samples were collected through the decontaminated purge and trap assembly. All constituents analyzed for were non-detect for all analyses performed.

A total of two blind field duplicates were collected: Dup-01 was a blind duplicate of sample MW-3A; Dup-02 was a blind duplicate of sample MW-3C. A review of the analytical data shows that the blind duplicate sample data is in general agreement to the original sample data for most variables.

The primary quality control parameters found to be out of acceptable quality control limits were due to matrix interferences in the samples and abundance of the target analyte in samples. Based on the detection summary for these constituents, it does not appear that these anomalies had any demonstrable impact on data quality.

4.4 Impact of Turbidity on Metals Concentrations

As discussed in Section 2.2 of this report, extended well development was not successful in clearing up the majority of the B-zone (intermediate) and C-zone (deep) groundwater monitoring wells.

Turbidity levels were less than the FDEP guidance of 20 NTU for thirty four (34) of the forty five (45) wells sampled. A review of the analytical results for these thirty four low-turbidity wells shows that only arsenic, iron, lead and sodium were reported above the method detection limits. Arsenic was detected in two wells (MW-11A and 13A) at concentrations of 0.021 and 0.016 mg/L, respectively. Lead was detected in one well (MW-12A) at a concentration of 0.007 mg/L. Iron and sodium were detected in thirty four (34) and nineteen (19) monitoring wells, respectively. The reported concentrations are comparable to those reported for samples with turbidity levels greater than 20 NTU. Analytical results for metals and the corresponding turbidity levels for the thirty four (34) wells sampled with turbidity levels less than 20 NTU are presented in Table 4.

Table 5 presents the total metals (unfiltered) and dissolved metals (filtered) analytical results for the eleven (11) wells that were sampled with turbidity levels greater than 20 NTU. Turbidity values for the total metals samples varied between 44.3 and 157 NTU. A review of the analytical results for these eleven (11) wells shows that only chromium and zinc were detected in samples with turbidity levels greater than 20 NTU

and not in samples with turbidities less than 20 NTU. With the exception of iron, no other metal had a reported value above the GCTL in an unfiltered sample with a reported concentration above the GCTL in its comparison filtered sample.

From a review of the data, chromium, lead and zinc were the metals for which a greater number of detections were made in the unfiltered samples than the filtered samples. Four (4) of the eleven (11) wells for which unfiltered and filtered samples were collected showed no difference in the type of metals detected, and the analytical results showed little deviation in the concentration levels. The turbidity levels for these four (4) wells ranged between 44.3 and 114 NTU. Chromium was detected in two (2) unfiltered samples at concentrations of 0.019 and 0.015 mg/L, respectively and not in the corresponding filtered samples. Lead was detected in six (6) unfiltered samples, ranging between 0.005 and 0.02 mg/L and not in the corresponding filtered samples. Zinc was detected in one (1) unfiltered sample at a concentration of 0.045 mg/L and not in the corresponding filtered sample.

Filtering of the samples did not appear to have a significant impact on iron, and sodium concentrations. The presence and concentrations of these metals were comparable between the unfiltered and filtered samples. Chromium, lead and zinc appear to be the metals most affected by turbidity levels greater than 20 NTU.

The turbidity levels for the seven (7) well samples where the presence of certain metals was somewhat different between the unfiltered and filtered samples (MW-2B, 6B, 8B, 9B, 12B, 13B, and 14A) ranged between 30 and 157 NTU.

SECTION 5

5. GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

5.1 Field Measurements

Groundwater level measurements were obtained on 25 July 2005, from the 45 monitoring wells installed as part of the Phase I groundwater monitoring program, as well as the 25 piezometers installed between October 2001 and February 2002 as part of the hydrogeologic investigation conducted during landfill permitting activities. All groundwater levels measurements were made within an approximate 4-hr period. The groundwater level measurements from the monitoring wells and piezometers are presented in Table 6.

It should be noted that as part of the site hydrogeological investigation a total of 27 piezometers were installed. Two piezometers located at the northern part of the site were decommissioned and abandoned on 3 October 2003 for construction of the first disposal cell. The piezometers were grouted in place from the bottom up using a tremie pipe. The protective steel casing and well casing were cut-off approximately 2 ft below the ground surface. The two piezometers were decommissioned by Ambient Technologies, Inc. (ATI) of St. Petersburg, Florida. GeoSyntec monitored the decommissioning activities.

5.2 Water level Contours

The water level contour maps prepared from groundwater level measurements for the three upper surficial aquifer zones (i.e., A-zone, B-zone and C-zone) are presented in Figures 2, 3 and 4.

Based on a review of the groundwater level elevation data collected from the A-zone or shallow monitoring well network, the direction of the horizontal component of groundwater flow is predominantly east-northeast toward Bull Creek. Likewise, the data for the B-zone or intermediate monitoring well network also shows that the general horizontal component of groundwater flow is predominantly east-northeast. The predominant direction of the horizontal component of flow in the C-zone or deep monitoring well network is east-northeast as well. The average horizontal hydraulic gradient in all three zones is approximately $1E^{-3}$ ft/ft.

Comparison of water levels between the A, B and C wells shows a similar vertical gradient ($1E^{-3}$ ft/ft). These gradients are consistent with the regional gradient in the upper

surficial aquifer and indications of an interconnected, sluggish flow regime in the saturated zone above the intermediate confining units.

SECTION 6

6.0 SURFACE WATER SAMPLING

6.1 Sampling Locations and Procedures

Two (2) surface water sampling locations established during the initial hydrogeological investigation were selected by FDEP for routine water quality monitoring. Surface water samples will only be collected when there is flow in Bull Creek. The surface water sampling locations are shown on Figure 5.

Collection of surface water samples commenced at the downstream monitoring station (SW-3) followed by the upstream monitoring location (SW-4). Bull Creek was visually observed to ensure creek was flowing at the time of sampling. Surface water samples were collected from the approximate center of Bull Creek. An YSI 556 water quality meter was used to measure field parameters including temperature, pH, dissolved oxygen, specific conductance, Eh, and turbidity at each sampling location. Surface water samples were collected in accordance with FDEP surface water sampling SOP.

6.2 Sample Analyses

Surface water samples were analyzed by Accutest-Orlando in accordance with the NELAC (National Environmental Laboratory Accreditation Conference) standards for unionized ammonia, total hardness as $CaCO_3$, total organic carbon, chlorides, nitrate, total dissolved solids (TDS), total suspended solids (TSS), biological oxygen demand (BOD), chemical oxygen demand (COD), total nitrogen as N, nitrate as N, total phosphates as P, chlorophyll A, iron, mercury, and the 40 CFR, Part 258 Appendix I parameters. Other required parameters (e.g., pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen) were field measured during collection of the surface water samples.

6.3 Field Measurements and Analytical Results

Table 7 provides a summary of the final field parameter values and field data measured for the surface water samples.

The analytical results for the surface water samples collected are presented on a CD in Appendix E. Analytical results are presented in the FDEP electronic validator spreadsheet format. Analytical results have been summarized in Table 7 to show all parameters where a constituent concentration was reported above the method detection limit and any parameter exceeding Surface Water Quality Criteria (SWQC) Class III concentrations.

The dissolved oxygen concentrations at SW-3 and 4 were both below the SWQC for a Class III water body minimum of 5 mg/L. The pH concentrations at SW-3 and 4 were both lower than the SWQC range of 6-8.5 standard units.

SECTION 7

7.0 LEACHATE SAMPLING

7.1 Sampling Location and Procedures

In accordance with the permit requirements, a leachate sample is to be collected from each disposal cell on an annual basis. To date, Cell 1 and Cell 4 have been constructed. However, at the time of the sampling event, waste placement within Cell 4 had not yet commenced. Therefore, a leachate sample for this third semi-annual sampling event was only collected from the Cell 1 leachate sump riser. This leachate sample collected as part of the third semi-annual sampling event fulfills the lechate sampling requirement for the year 2005.

The leachate sample was collected from the Cell 1 leachate sump riser using a peristaltic pump. An YSI 556 water quality meter was used to measure field parameters including temperature, pH, dissolved oxygen, specific conductance, Eh, and turbidity. The leachate sample was collected in accordance with FDEP SOP.

7.2 Sample Analyses

The leachate sample was analyzed by Accutest-Orlando in accordance with the NELAC standards for total ammonia-N, bicarbonate, chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium and the 40 CFR, Part 258 Appendix II parameters. Other required parameters (i.e., pH; temperature; specific conductance; turbidity; Eh; and dissolved oxygen) were field measured during collection of the leachate sample.

7.3 Field Measurements and Analytical Results

Table 8 provides a summary of the final field parameter values and field data measured for the leachate sample.

The analytical results for the leachate sample are presented on a CD in Appendix E. Analytical results are presented in the FDEP electronic validator spreadsheet format. Analytical results have been summarized in Table 8 to show all parameters where a constituent concentration was reported above the method detection limit. It should be noted that the leachate from the Oak Hammock Disposal Facility is removed from the site for treatment.

TABLES

Table 1
(1 of 2)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Summary of Monitoring Well Construction Details

Well Designation	WACS ID	Date Installed	Well Diameter (inches)	Screen Type	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1A	19900	9-Dec-03	2	PVC	95.1	23.0	13.0	23.0	82.1	72.1	10.6	8.2
MW-2A	19903	10-Dec-03	2	PVC	95.2	22.6	12.6	22.6	82.6	72.6	10.3	8.9
MW-3A	19906	11-Dec-03	2	PVC	94.6	22.8	12.8	22.8	81.9	71.9	10.4	9.0
MW-4A	19909	12-Dec-03	2	PVC	95.5	23.1	13.1	23.1	82.4	72.4	10.8	9.4
MW-5A	19912	24-Nov-03	2	PVC	95.3	22.5	12.5	22.5	82.8	72.8	10.1	9.1
MW-6A	19915	25-Nov-03	2	PVC	94.7	22.6	12.6	22.6	82.2	72.2	10.6	8.6
MW-7A	19918	26-Nov-03	2	PVC	95.5	23.3	13.3	23.3	82.2	72.2	10.3	9.3
MW-8A	19921	5-Dec-03	2	PVC	94.7	22.5	12.5	22.5	82.2	72.2	10.2	8.6
MW-9A	19924	4-Dec-03	2	PVC	94.7	22.4	12.4	22.4	82.3	72.3	10.0	8.6
MW-10A	19927	3-Dec-03	2	PVC	96.3	22.1	12.1	22.1	84.1	74.1	9.8	7.6
MW-11A	19930	3-Dec-03	2	PVC	93.6	22.8	12.8	22.8	80.7	70.7	10.5	9.1
MW-12A	19933	2-Dec-03	2	PVC	95.1	23.0	13.0	23.0	82.1	72.1	10.7	9.3
MW-13A	19936	8-Dec-03	2	PVC	95.2	22.5	12.5	22.5	82.7	72.7	10.2	7.7
MW-14A	19939	1-Dec-03	2	PVC	85.9	15.4	5.4	15.4	80.5	70.5	4.4	4.1
MW-15A	19942	2-Dec-03	2	PVC	85.9	23.0	13.0	23.0	72.9	62.9	10.0	9.0
MW-1B	19901	9-Dec-03	2	PVC	95.0	47.9	37.9	47.9	57.1	47.1	35.6	33.1
MW-2B	19904	10-Dec-03	2	PVC	95.2	48.3	38.3	48.3	56.9	46.9	36.0	34.6
MW-3B	19907	11-Dec-03	2	PVC	94.7	47.6	37.6	47.6	57.1	47.1	35.3	33.9
MW-4B	19910	12-Dec-03	2	PVC	95.2	47.4	37.4	47.4	57.8	47.8	35.1	33.5
MW-5B	19913	24-Nov-03	2	PVC	95.3	47.1	37.1	47.1	58.2	48.2	34.4	32.7
MW-6B	19916	25-Nov-03	2	PVC	94.6	47.4	37.4	47.4	57.2	47.2	34.9	33.5
MW-7B	19919	26-Nov-03	2	PVC	95.3	47.5	37.5	47.5	57.8	47.8	34.5	33.5
MW-8B	19922	5-Dec-03	2	PVC	94.6	49.6	39.6	49.6	55.0	45.0	37.1	35.6
MW-9B	19925	4-Dec-03	2	PVC	94.6	49.1	39.1	49.1	55.5	45.5	36.8	35.3
MW-10B	19928	3-Dec-03	2	PVC	96.2	48.3	38.3	48.3	58.0	48.0	35.9	33.9
MW-11B	19931	2-Dec-03	2	PVC	93.6	47.9	37.9	47.9	55.7	45.7	35.5	34.0
MW-12B	19934	1-Dec-03	2	PVC	95.0	49.0	39.0	49.0	56.1	46.1	36.6	35.1
MW-13B	19937	8-Dec-03	2	PVC	95.1	47.2	37.2	47.2	58.0	48.0	34.8	33.4
MW-14B	19940	1-Dec-03	2	PVC	85.8	37.8	27.8	37.8	58.0	48.0	25.4	23.1
MW-15B	19943	2-Dec-03	2	PVC	85.7	48.4	38.4	48.4	47.3	37.3	35.4	34.4

Table 1
(2 of 2)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Summary of Monitoring Well Construction Details

Well Designation	WACS ID	Date Installed	Well Diameter (inches)	Screen Type	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1C	19902	9-Dec-03	2	PVC	95.2	75.2	65.2	75.2	30.0	20.0	62.9	61.4
MW-2C	19905	10-Dec-03	2	PVC	95.3	68.4	58.4	68.4	36.9	26.9	56.1	53.7
MW-3C	19908	11-Dec-03	2	PVC	94.7	68.7	58.7	68.7	36.0	26.0	56.3	54.8
MW-4C	19911	12-Dec-03	2	PVC	95.4	72.5	62.5	72.5	32.9	22.9	61.2	59.6
MW-5C	19914	24-Nov-03	2	PVC	95.4	73.0	63.0	73.0	32.4	22.4	60.7	58.7
MW-6C	19917	25-Nov-03	2	PVC	94.6	73.2	63.2	73.2	31.4	21.4	60.2	57.7
MW-7C	19920	25-Nov-03	2	PVC	94.9	73.3	63.3	73.3	31.6	21.6	60.3	59.3
MW-8C	19923	5-Dec-03	2	PVC	94.5	73.9	63.9	73.9	30.6	20.6	61.6	59.8
MW-9C	19926	4-Dec-03	2	PVC	94.5	73.8	63.8	73.8	30.8	20.8	61.4	59.4
MW-10C	19929	3-Dec-03	2	PVC	96.4	73.7	63.7	73.7	32.7	22.7	61.4	60.0
MW-11C	19932	2-Dec-03	2	PVC	93.7	73.4	63.4	73.4	30.3	20.3	61.0	59.6
MW-12C	19935	1-Dec-03	2	PVC	95.1	73.6	63.6	73.6	31.5	21.5	60.2	58.7
MW-13C	19938	8-Dec-03	2	PVC	95.0	73.0	63.0	73.0	32.1	22.1	60.7	58.2
MW-14C	19941	26-Nov-03	2	PVC	85.9	62.2	52.2	62.2	33.7	23.7	48.9	45.9
MW-15C	19944	1-Dec-03	2	PVC	85.9	72.6	62.6	72.6	23.3	13.3	59.6	58.6

Table 2
(1 of 2)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Summary of Final Field Parameter Results and Field Data

Monitoring Well	pH (Standard Units)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	DO (mg/l)	Purging Method
MW-1A	4.61	24.93	0.136	0.5	-116.9	0.29	Peristaltic Pump
MW-2A	4.34	24.81	0.102	1.5	-79.5	0.43	Peristaltic Pump
MW-3A	5.11	24.18	0.288	1.3	-7.6	0.78	Peristaltic Pump
MW-4A	4.66	24.83	0.201	0.5	-147.5	1.51	Peristaltic Pump
MW-5A	4.36	25.35	0.130	10.5	-32.8	1.00	Peristaltic Pump
MW-6A	4.84	25.47	0.104	2.5	-149.0	0.84	Peristaltic Pump
MW-7A	4.86	24.88	0.116	0.8	-179.6	0.99	Peristaltic Pump
MW-8A	4.39	24.83	0.133	3.6	-76.2	0.40	Peristaltic Pump
MW-9A	4.47	24.97	0.135	10.4	-136.5	0.86	Peristaltic Pump
MW-10A	4.49	25.41	0.155	8.8	-17.5	0.31	Peristaltic Pump
MW-11A	5.18	25.50	0.216	6.3	-63.9	1.09	Peristaltic Pump
MW-12A	3.57	25.70	0.126	0.9	-47.6	0.40	Peristaltic Pump
MW-13A	4.86	25.42	0.155	0.9	-121.4	1.12	Peristaltic Pump
MW-14A	4.65	26.48	0.123	101.0	-147.8	0.45	Peristaltic Pump
MW-15A	4.66	24.79	0.138	1.1	-167.9	0.91	Peristaltic Pump
MW-1B	4.12	23.66	0.048	14.2	-176.1	0.31	Submersible Pump
MW-2B	4.11	23.75	0.050	55.0	-238.6	0.32	Submersible Pump
MW-3B	4.66	23.61	0.090	44.3	-184.1	0.82	Submersible Pump
MW-4B	4.52	23.95	0.094	18.6	-183.7	0.90	Submersible Pump
MW-5B	4.13	24.20	0.074	3.3	-197.7	1.23	Submersible Pump
MW-6B	4.52	24.04	0.065	63.5	-282.1	0.31	Submersible Pump
MW-7B	4.72	23.69	0.087	62.0	-250.5	0.76	Submersible Pump
MW-8B	4.65	24.24	*	157.0	-200.3	0.76	Submersible Pump
MW-9B	4.87	24.32	0.086	49.0	-209.0	0.58	Submersible Pump
MW-10B	4.42	24.09	0.088	2.4	-208.6	0.82	Submersible Pump
MW-11B	4.87	23.88	0.127	19.2	-157.0	0.77	Submersible Pump
MW-12B	4.73	24.23	0.073	30.0	-186.2	0.69	Submersible Pump
MW-13B	4.46	23.84	*	48.4	-246.7	0.64	Submersible Pump
MW-14B	4.23	23.70	0.061	65.0	-249.3	0.99	Submersible Pump
MW-15B	4.55	24.69	0.055	8.3	-114.7	0.67	Peristaltic Pump

* Conductivity value still fluctuated after purging more than five well volumes.

Table 2
(2 of 2)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Summary of Final Field Parameter Results and Field Data

Monitoring Well	pH (Standard Units)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	DO (mg/l)	Purging Method
MW-1C	4.54	23.83	--	19.5	-213.2	1.26	Submersible Pump
MW-2C	4.44	23.94	0.065	19.0	-231.5	1.08	Submersible Pump
MW-3C	4.69	23.76	0.076	19.0	-205.2	0.30	Submersible Pump
MW-4C	5.13	24.23	0.125	114.0	-183.4	0.31	Submersible Pump
MW-5C	4.30	24.35	0.098	3.0	-216.7	0.33	Submersible Pump
MW-6C	4.66	24.05	0.057	15.3	-188.1	0.87	Submersible Pump
MW-7C	4.61	23.76	0.076	19.0	-261.9	0.34	Submersible Pump
MW-8C	4.46	23.97	0.079	7.4	-207.9	0.30	Submersible Pump
MW-9C	4.36	24.42	0.070	2.0	-249.7	0.33	Submersible Pump
MW-10C	4.05	24.09	0.073	17.6	-246.9	0.33	Submersible Pump
MW-11C	4.74	23.98	0.158	8.5	-168.7	0.34	Submersible Pump
MW-12C	4.40	24.14	0.076	12.9	-180.5	0.36	Submersible Pump
MW-13C	4.24	23.88	0.074	4.7	-275.2	0.37	Submersible Pump
MW-14C	4.34	23.88	0.083	17.3	-241.8	0.34	Submersible Pump
MW-15C	4.08	23.98	0.081	2.5	-210.7	0.41	Submersible Pump

TABLE 3 (1 of 3)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Analytical Results With Constituent Concentrations Reported
Above the Method Detection Limit and Comparison to FL-GWCTLS

PARAMETER	METHOD	UNIT	GWCTLS	MW-1A	MW-1B	MW-1C	MW-2A	MW-2B	MW-2C	MW-3A	MW-3B	MW-3C	MW-4A	MW-4B	MW-4C	MW-5A	MW-5B	MW-5C	MW-6A
VOLATILE COMPOUNDS																			
Toluene	8260	ug/L	40	2.2	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL METALS																			
Arsenic	6010	mg/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	mg/L	2.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	mg/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	mg/L	0.30	2.98	0.70	0.62	1.87	0.90	1.37	5.06	0.96	1.38	2.57	0.72	1.56	1.69	0.39	1.15	2.89
Lead	6010	mg/L	0.015	ND	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	mg/L	160.0	9.8	ND	ND	9.1	ND	ND	15.0	5.2	ND	12.0	9.2	ND	ND	ND	6.0	9.2
Vanadium	6010	mg/L	0.049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	6010	mg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DISSOLVED METALS																			
Barium, filtered	6010	mg/L	2	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA
Beryllium, flitered	6010	mg/L	0.004	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA
Chromium, filtered	6010	mg/L	0.1	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA
Iron, filtered	6010	mg/L	0.30	NA	NA	NA	NA	0.70	NA	NA	0.70	NA	NA	NA	0.77	NA	NA	NA	NA
Sodium, flitered	6010	mg/L	160	NA	NA	NA	NA	ND	NA	NA	5.6	NA	NA	NA	ND	NA	NA	NA	NA
Vanadium, filtered	6010	mg/L	0.049	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA
Zinc, filtered	6010	mg/L	5	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA
MISCELLANEOUS																			
Ammonia-N	350	mg/L	2.8	2	0.27	0.19	0.51	0.19	0.16	5.6	0.18	0.19	0.82	0.31	0.13	3.4	0.35	0.11	0.54
Nitrate-N	353	mg/L	10	ND	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Solids, Total Dissolved	160	mg/L	500	5900	68	78	105	96	39	208	120	63	146	69	186	166	57	71	86
ANIONS BY IC																			
Chloride	325	mg/L	250	27.2	4.2	3	20.1	5	ND	6.5	9.4	4.9	21.4	11.7	6.2	13	9.1	12.1	11.5

Red = Exceedence
Green = Detection
ND = Non Detect
NA = Not Analyzed

TABLE 3 (2 of 3)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Analytical Results With Constituent Concentrations Reported
Above the Method Detection Limit and Comparison to FL-GWCTLS

PARAMETER	METHOD	UNIT	GWCTLS	MW-6B	MW-6C	MW-7A	MW-7B	MW-7C	MW-8A	MW-8B	MW-8C	MW-9A	MW-9B	MW-9C	MW-10A	MW-10B	MW-10C	MW-11A	MW-11B
VOLATILE COMPOUNDS																			
Toluene	8260	ug/L	40	ND	ND	ND	ND	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL METALS																			
Arsenic	6010	mg/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021	ND
Barium	6010	mg/L	2.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	mg/L	0.100	ND	ND	ND	ND	ND	ND	0.019	ND	ND	0.015	ND	ND	ND	ND	ND	ND
Iron	6010	mg/L	0.30	1.47	0.73	1.65	1.41	0.94	1.80	2.78	0.93	1.24	2.14	0.84	0.97	0.53	0.87	23.60	0.81
Lead	6010	mg/L	0.015	0.007	ND	ND	ND	ND	ND	0.020	ND	ND	0.008	ND	ND	ND	ND	ND	ND
Sodium	6010	mg/L	160.0	ND	ND	7.7	5.3	ND	9.6	ND	ND	ND	6.8	ND	7.1	6.2	ND	10.1	11.3
Vanadium	6010	mg/L	0.049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	6010	mg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DISSOLVED METALS																			
Barium, filtered	6010	mg/L	2	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA
Beryllium, filtered	6010	mg/L	0.004	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA
Chromium, filtered	6010	mg/L	0.1	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA
Iron, filtered	6010	mg/L	0.30	0.91	NA	NA	1.06	NA	NA	0.83	NA	NA	0.91	NA	NA	NA	NA	NA	NA
Sodium, filtered	6010	mg/L	160	ND	NA	NA	5.1	NA	NA	ND	NA	NA	6.9	NA	NA	NA	NA	NA	NA
Vanadium, filtered	6010	mg/L	0.049	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA
Zinc, filtered	6010	mg/L	5	ND	NA	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA
MISCELLANEOUS																			
Ammonia-N	350	mg/L	2.8	0.21	0.33	0.19	0.15	0.2	0.55	0.61	0.33	4.7	10.5	0.46	6.2	0.32	0.22	3.6	0.37
Nitrate-N	353	mg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND
Solids, Total Dissolved	160	mg/L	500	197	63	60	122	38	119	259	53	129	71	43	181	53	67	234	96
ANIONS BY IC																			
Chloride	325	mg/L	250	3.7	3.5	18.4	8.6	5.1	13.5	4.7	4.6	11.4	8.9	5	12.2	9.8	4.7	9.3	18.4

Red = Exceedence
Green = Detection
ND = Non Detect
NA = Not Analyzed

TABLE 3 (3 of 3)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Analytical Results With Constituent Concentrations Reported
Above the Method Detection Limit and Comparison to FL-GWCTLS

PARAMETER	METHOD	UNIT	GWCTLS	MW-11C	MW-12A	MW-12B	MW-12C	MW-13A	MW-13B	MW-13C	MW-14A	MW-14B	MW-14C	MW-15A	MW-15B	MW-15C	DUP-01	DUP-02
VOLATILE COMPOUNDS																		
Toluene	8260	ug/L	40	ND	ND	1.1	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND
TOTAL METALS																		
Arsenic	6010	mg/L	0.05	ND	ND	ND	ND	0.0155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	mg/L	2.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	mg/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	mg/L	0.30	0.57	1.43	1.21	0.86	12.80	1.36	0.56	1.46	1.12	1.19	1.93	0.42	0.53	4.89	1.35
Lead	6010	mg/L	0.015	ND	0.007	0.005	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	mg/L	160.0	7.9	8.7	ND	ND	7.9	5.9	5.3	7.2	5.5	5.1	11.5	ND	ND	15.1	ND
Vanadium	6010	mg/L	0.049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	6010	mg/L	5	ND	ND	ND	ND	ND	ND	ND	0.0454	ND	ND	ND	ND	ND	ND	ND
DISSOLVED METALS																		
Barium, filtered	6010	mg/L	2	NA	NA	ND	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA
Beryllium, flitered	6010	mg/L	0.004	NA	NA	ND	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA
Chromium, filtered	6010	mg/L	0.1	NA	NA	ND	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA
Iron, filtered	6010	mg/L	0.30	NA	NA	0.67	NA	NA	0.70	NA	1.23	0.65	NA	NA	NA	NA	NA	NA
Sodium, filtered	6010	mg/L	160	NA	NA	ND	NA	NA	6.0	NA	7.5	5.5	NA	NA	NA	NA	NA	NA
Vanadium, filtered	6010	mg/L	0.049	NA	NA	ND	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA
Zinc, filtered	6010	mg/L	5	NA	NA	ND	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA
MISCELLANEOUS																		
Ammonia-N	350	mg/L	2.8	0.31	0.24	1	0.17	0.83	0.5	0.37	1.3	0.16	3.0	0.16	0.32	0.19	5.1	ND
Nitrate-N	353	mg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Solids, Total Dissolved	160	mg/L	500	100	66	80	42	217	86	47	250	77	38	117	55	62	184	74
ANIONS BY IC																		
Chloride	325	mg/L	250	15.1	11.8	4.9	5.3	14.9	7.7	7.8	10.7	4.7	6.7	22.3	4.5	5.1	39.7	4.8

Red = Exceedence
Green = Detection
ND = Non Detect
NA = Not Analyzed

Table 4
(1 of 2)
OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Total Metals Results for Groundwater Samples with Turbidity Levels < 20 NTU

		MW-1A	MW-1B	MW-1C	MW-2A	MW-2C	MW-3A	MW-3C	MW-4A	MW-4B	MW-5A	MW-5B	MW-5C	MW-6A	MW-6C	MW-7A	MW-7C	MW-8A
	TURBIDITY (NTU)	0.45	14.2	19.5	1.47	19	1.28	19	0.49	18.6	10.5	3.28	3.02	2.53	15.3	0.8	19	3.6
METAL	ANALYTICAL METHOD																	
Antimony	7041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	2.98	0.704	0.624	1.87	1.37	5.06	1.38	2.57	0.716	1.69	0.387	1.15	2.89	0.729	1.65	0.944	1.8
Lead	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	7470	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	9.82	ND	ND	9.09	ND	15	ND	12	9.18	ND	ND	5.98	9.22	ND	7.74	ND	9.59
Thallium	7841	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Red = Exceedence
Green = Detection

Table 4
(2 of 2)
OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Total Metals Results for Groundwater Samples with Turbidity Levels < 20 NTU

		MW-8C	MW-9A	MW-9C	MW-10A	MW-10B	MW-10C	MW-11A	MW-11B	MW-11C	MW-12A	MW-12C	MW-13A	MW-13C	MW-14C	MW-15A	MW-15B	MW-15C
	TURBIDITY (NTU)	7.44	10.4	2.03	8.81	2.4	17.6	6.3	19.2	8.47	0.9	12.9	0.9	4.67	17.3	1.1	8.31	2.5
METAL	ANALYTICAL METHOD																	
Antimony	7041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	6010	ND	ND	ND	ND	ND	ND	0.021	ND	ND	ND	ND	0.016	ND	ND	ND	ND	ND
Barium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	0.933	1.24	0.835	0.973	0.527	0.872	23.6	0.814	0.568	1.43	0.86	12.8	0.563	1.19	1.93	0.415	0.529
Lead	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND
Mercury	7470	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	ND	ND	ND	7.06	6.16	ND	10.1	11.3	7.9	8.7	ND	7.92	5.32	5.12	11.5	ND	ND
Thallium	7841	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Red = Exceedence
Green = Detection

Table 5

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Summary of Total and Dissolved (Filtered) Metals Concentrations for Samples with Turbidities > 20 NTU

		MW-2B	MW-3B	MW-4C	MW-6B	MW-7B	MW-8B	MW-9B	MW-12B	MW-13B	MW-14A	MW-14B
	TURBIDITY (NTU)	55	44.3	114	63.5	62	157	49	30	48.4	101	65
METAL	ANALYTICAL METHOD											
Arsenic	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	6010	ND	ND	ND	ND	ND	0.019	0.015	ND	ND	ND	ND
Copper	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	6010	0.9	0.964	1.56	1.47	1.41	2.78	2.14	1.21	1.36	1.46	1.12
Lead	6010	0.0061	ND	ND	0.0069	ND	0.02	0.008	0.005	0.0057	ND	ND
Mercury	7470	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	6010	ND	5.19	ND	ND	5.31	ND	6.76	ND	5.91	7.2	5.46
Vanadium	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.045	ND
Arsenic, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron, filtered	6010	0.701	0.704	0.774	0.907	1.06	0.83	0.906	0.674	0.701	1.23	0.648
Sodium, filtered	7470	ND	5.57	ND	ND	5.1	ND	6.93	ND	5.95	7.48	5.53
Vanadium, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc, filtered	6010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Red = Exceedence
Green = Detection

Table 6
(1 of 2)

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM
WACS FACILITY ID: 89455

Groundwater Level Measurements

Site Name: Oak Hammock Disposal Facility
Location: Osceola County, Florida
Measurement Date: 25-Jul-2005
Sampling Personnel: Jay Eun, Joe Terry
Field Conditions: ~92° F, p. cloudy, humid

Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
DP-1	Piezometer Abandoned 03 October 2003					
DP-2	Piezometer Abandoned 03 October 2003					
DP-3	14:30	82.2	2.29	53.6	79.93	outer casing is rusted, needs new lock
DP-4	14:45	82.2	2.08	18.3	80.16	
DP-5	18:20	84.1	3.02	53.7	81.11	
DP-6	18:05	84.2	3.04	18.6	81.19	
DP-7	17:52	82.6	3.13	18.6	79.50	
DP-8	17:52	82.8	3.41	53.8	79.37	
DP-9	18:05	81.6	3.11	53.7	78.47	
DP-10	18:04	81.6	3.08	18.6	78.51	
DP-11	16:40	84.1	3.43	18.6	80.63	
DP-12	16:42	84.2	3.56	53.6	80.62	
DP-13	16:42	83.1	3.39	18.6	79.70	outer casing lid is broken
DP-14	17:20	82.0	3.50	18.6	78.47	
DP-15	12:21	82.0	3.56	53.7	78.42	outer casing lid is broken
DP-16	17:30	82.6	3.11	18.5	79.46	no label
DP-17	17:36	82.6	3.26	53.7	79.32	no label, no lock
DP-18	18:22	84.4	3.48	52.9	80.90	no lock
DP-19	18:23	84.3	3.36	18.4	80.98	outer casing lid is broken
DP-20	16:47	83.1	3.08	18.4	79.99	no lock
DP-21	16:48	83.0	3.23	53.7	79.77	
DP-22	17:08	81.0	2.71	18.6	78.29	outer casing lid rusted, won't allow lock
DP-23	17:07	81.3	2.83	53.8	78.44	outer casing lid rusted, won't allow lock
DP-24	17:05	82.2	3.27	18.6	78.95	no label, no lock
SZ-1	17:50	82.4	4.29	80.2	78.14	
SZ-2	16:46	83.2	4.82	75.4	78.34	no lock
SZ-3	17:08	81.3	3.55	78.9	77.72	outer casing lid rusted, won't allow lock
MW-1A	15:50	95.1	14.09	23.0	81.03	
MW-1B	15:55	95.0	13.97	47.9	81.03	
MW-1C	16:00	95.2	14.23	74.4	80.95	
MW-2A	15:53	95.2	14.16	22.6	81.05	
MW-2B	15:55	95.2	14.14	48.1	81.03	
MW-2C	15:55	95.3	14.36	68.4	80.96	
MW-3A	16:20	94.6	13.66	22.8	80.98	
MW-3B	16:22	94.7	13.68	47.7	81.00	
MW-3C	16:24	94.7	13.72	68.8	80.94	

Table 6
(2 of 2)
OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM
WACS FACILITY ID: 89455

Groundwater Level Measurements

Site Name: Oak Hammock Disposal Facility
Location: Osceola County, Florida
Measurement Date: 25-Jul-2005
Sampling Personnel: Jay Eun, Joe Terry
Field Conditions: ~92°F, p. cloudy, humid

Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-4A	15:44	95.5	14.65	23.1	80.83	
MW-4B	15:45	95.2	14.40	47.4	80.78	
MW-4C	15:47	95.4	14.70	72.6	80.69	
MW-5A	16:10	95.3	14.61	22.5	80.71	
MW-5B	16:15	95.3	14.93	47.1	80.37	
MW-5C	16:20	95.4	15.35	73.0	80.04	
MW-6A	15:35	94.7	15.33	22.6	79.39	
MW-6B	15:36	94.6	15.24	47.5	79.36	
MW-6C	15:37	94.6	15.30	73.1	79.28	
MW-7A	15:30	95.5	16.03	23.3	79.45	outer casing lids rusty
MW-7B	15:31	95.3	15.88	48.0	79.39	outer casing lids rusty
MW-7C	15:32	94.9	15.64	73.4	79.29	outer casing lids rusty
MW-8A	15:46	94.7	15.02	22.5	79.65	
MW-8B	15:42	94.6	14.95	49.3	79.63	
MW-8C	15:40	94.5	15.19	73.8	79.31	
MW-9A	15:30	94.7	15.24	22.4	79.42	
MW-9B	15:29	94.6	15.26	49.1	79.37	
MW-9C	15:25	94.5	15.34	74.7	79.20	
MW-10A	15:18	96.3	16.56	22.1	79.69	
MW-10B	15:17	96.2	16.58	48.3	79.65	
MW-10C	15:17	96.4	16.99	74.9	79.37	
MW-11A	15:13	93.6	14.12	22.8	79.44	
MW-11B	15:12	93.6	14.18	47.9	79.41	
MW-11C	15:12	93.7	14.29	73.6	79.36	
MW-12A	15:18	95.1	15.25	23.0	79.85	
MW-12B	15:20	95.0	15.36	49.0	79.65	
MW-12C	15:22	95.1	15.55	73.6	79.55	
MW-13A	14:58	95.2	15.59	22.5	79.60	no lock
MW-13B	15:00	95.1	15.52	47.3	79.60	
MW-13C	15:02	95.0	15.55	73.0	79.49	
MW-14A	16:10	85.9	5.53	15.4	80.35	
MW-14B	16:15	85.8	5.48	37.8	80.32	
MW-14C	16:20	85.9	5.62	62.3	80.30	
MW-15A	16:15	85.9	4.94	23.0	80.98	
MW-15B	16:13	85.7	4.68	48.4	80.97	
MW-15C	16:14	85.9	5.13	72.6	80.76	

Table 7

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM, WACS FACILITY ID: 89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Summary of Surface Water Field Measurements and Analytical Results

Parameter	Analytical Method	Units	FL-SWQC Class III	Monitoring Location	
				SW-3	SW-4
Iron	6010	mg/L	1	0.63	0.707
Chloride	325.3	mg/L	-	4.1	3.6
Total Dis. Solids	160.1	mg/L	-	645	157
Ammonia-N	350.3	mg/L	-	0.18	0.12
Unionized Ammonia-NH3	Draft	mg/L	0.02	ND	ND
BOD	405.1	mg/L	-	ND	ND
COD	410.4	mg/L	-	50.7	61.3
Hardness (as CaCo3)	130.2	mg/L	-	8.4	5.8
Nitrate-Nitrite-N	300	mg/L	-	<200	<200
Total Kjeldahl-N	351.2	mg/L	-	0.72	0.84
Total Nitrogen	351.2/353.1	mg/L	-	0.72	0.84
Total Phoshorus	365.4	mg/L	-	0.012	0.29
TOC	415.1	mg/L	-	19	18
TSS	160.2	mg/L	-	ND	ND
Chlorophyll A	SM 10200H	mg/m3	-	1.6	2.9
Dissolved Oxygen	Field Measurement	mg/L	5	3.23	2.24
pH	Field Measurement	std units	6-8.5	4.37	3.61
Temperature	Field Measurement	°C	-	28.88	28.31
Conductivity	Field Measurement	uS/cm	< 50% above background or 1275, whichever is >	42	40
Turbidity	Field Measurement	ntu	< 29 above background	2.2	3.6
Water Elevation (1)	Field Measurement	ft	-		

Note (1): Surface Water Elevations referenced to NGVD 1929

Table 8

OAK HAMMOCK DISPOSAL FACILITY
WATER QUALITY MONITORING PROGRAM WACS FACILITY ID:89455
THIRD SEMI-ANNUAL WATER QUALITY MONITORING EVENT

Summary of Leachate Field Measurements and Analytical Results

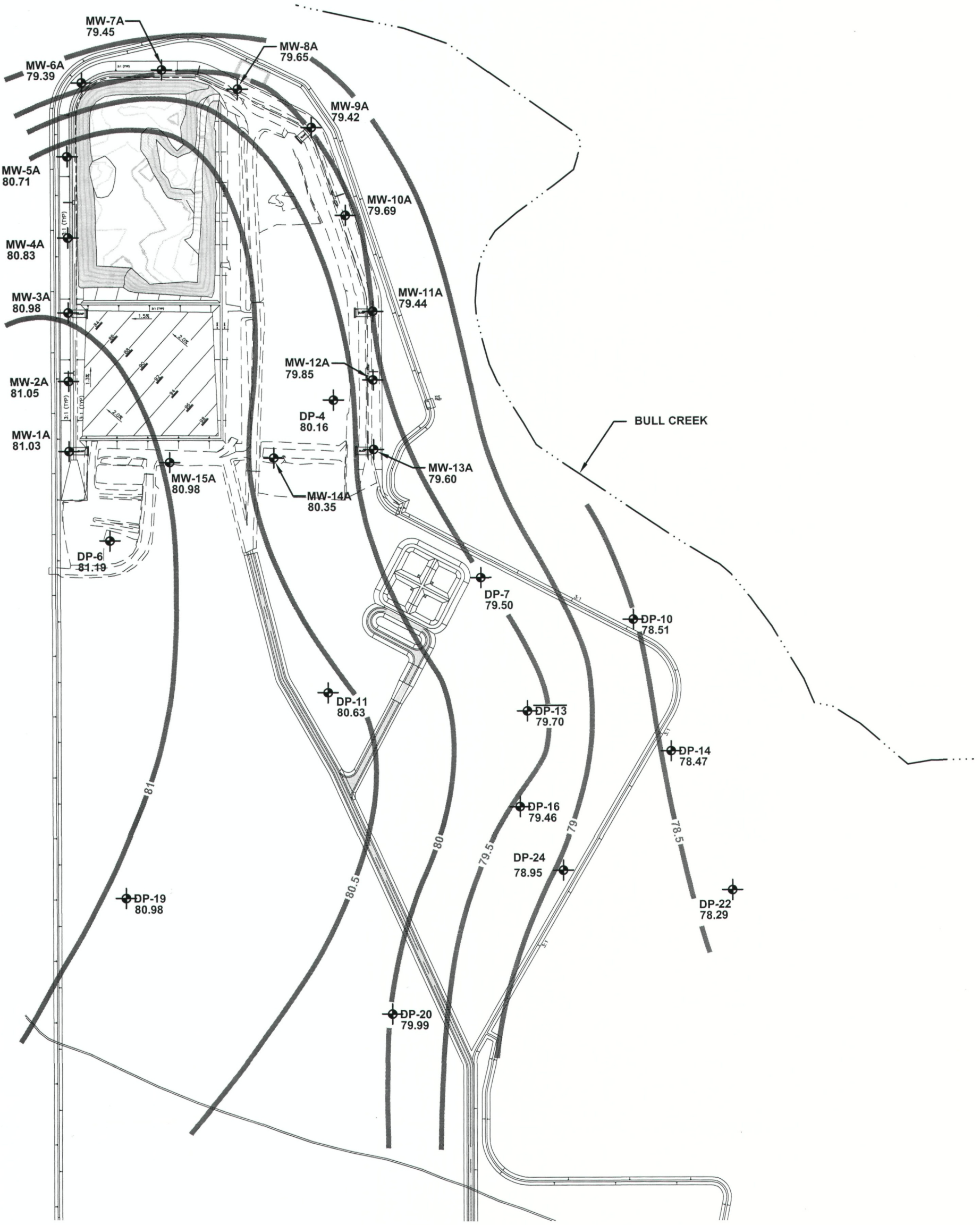
Parameter	Analytical Method	Units	Concentration
Temperature	Field Measurement	°C	31.57
pH	Field Measurement	Std Units	5.21
Conductivity	Field Measurement	mS/cm	6.45
Turbidity	Field Measurement	NTU	79.5
ORP	Field Measurement	mV	-85.2
Dissolved Oxygen	Field Measurement	mg/L	4.84
Bicarbonate Alkalinity as $CaCO_3$	SM2320B	mg/L	1390
Nitrate-N	350.3	mg/L	1.3
Chloride	325.3	mg/L	79
Sulfate	376.1	mg/L	201
TDS	160.1	mg/L	133
Barium	6010	mg/L	0.424
Iron	6010	mg/L	16.1
Vanadium	6010	mg/L	0.062
Zinc	6010	mg/L	0.041
Sodium	6010	mg/L	680
1,1-Dichloroethane	EPA 8260B	ug/L	0.97
1,2-Dichloroethane	EPA 8260B	ug/L	11.9
1,2-Dichloropropane	EPA 8260B	ug/L	2.78
1,4-Dichlorobenzene	EPA 8260B	ug/L	5.55
2-Butanone	EPA 8260B	ug/L	25200
2-Hexanone	EPA 8260B	ug/L	30.6
4-Methyl-2-pentanone	EPA 8260B	ug/L	203
Acetone	EPA 8260B	ug/L	11200
Acetonitrile	EPA 8260B	ug/L	90.3
Benzene	EPA 8260B	ug/L	15.6
Carbon disulfide	EPA 8260B	ug/L	16.1
Chlorobenzene	EPA 8260B	ug/L	0.4
Chloroethane	EPA 8260B	ug/L	1.46
cis-1,2-Dichloroethene	EPA 8260B	ug/L	21.3
Ethylbenzene	EPA 8260B	ug/L	40.6
Methylene Chloride	EPA 8260B	ug/L	7.18
Naphthalene	EPA 8260B	ug/L	2.09
Tetrachloroethene	EPA 8260B	ug/L	1.75
Toluene	EPA 8260B	ug/L	178
Trichloroethene	EPA 8260B	ug/L	2.26
Trichlorofluoromethane	EPA 8260B	ug/L	0.46
Xylenes, total	EPA 8260B	ug/L	73.8
Benzyl alcohol	EPA 8270C	ug/L	36
3/4-Methylphenol	EPA 8270C	ug/L	1420
Fluorene	EPA 8270C	ug/L	10.5
Phenol	EPA 8270C	ug/L	366

FIGURES

Large Format Drawings

Scanned Separately

3rd MONITORING (JULY 2005)
OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
"A"-ZONE (SHALLOW) WELLS - WATER LEVEL CONTOURS
FIGURE 2



LEGEND

- 81.5 MW-7A — MONITORING WELL GROUNDWATER ELEVATION*
- 81.5 DP-13 — PIEZOMETER GROUNDWATER ELEVATION*
- 79.5 — WATER LEVEL CONTOURS*

* WATER LEVEL MEASUREMENTS FROM 25 JULY 2005 SITE WIDE SURVEY

NOTES:

DP–13 WATER LEVEL MEASUREMENT NOT USED IN CONTOURING.

DP–11 WATER LEVEL MEASUREMENT NOT MADE.

0 250' 500' 1000'

SCALE: 1" = 500'

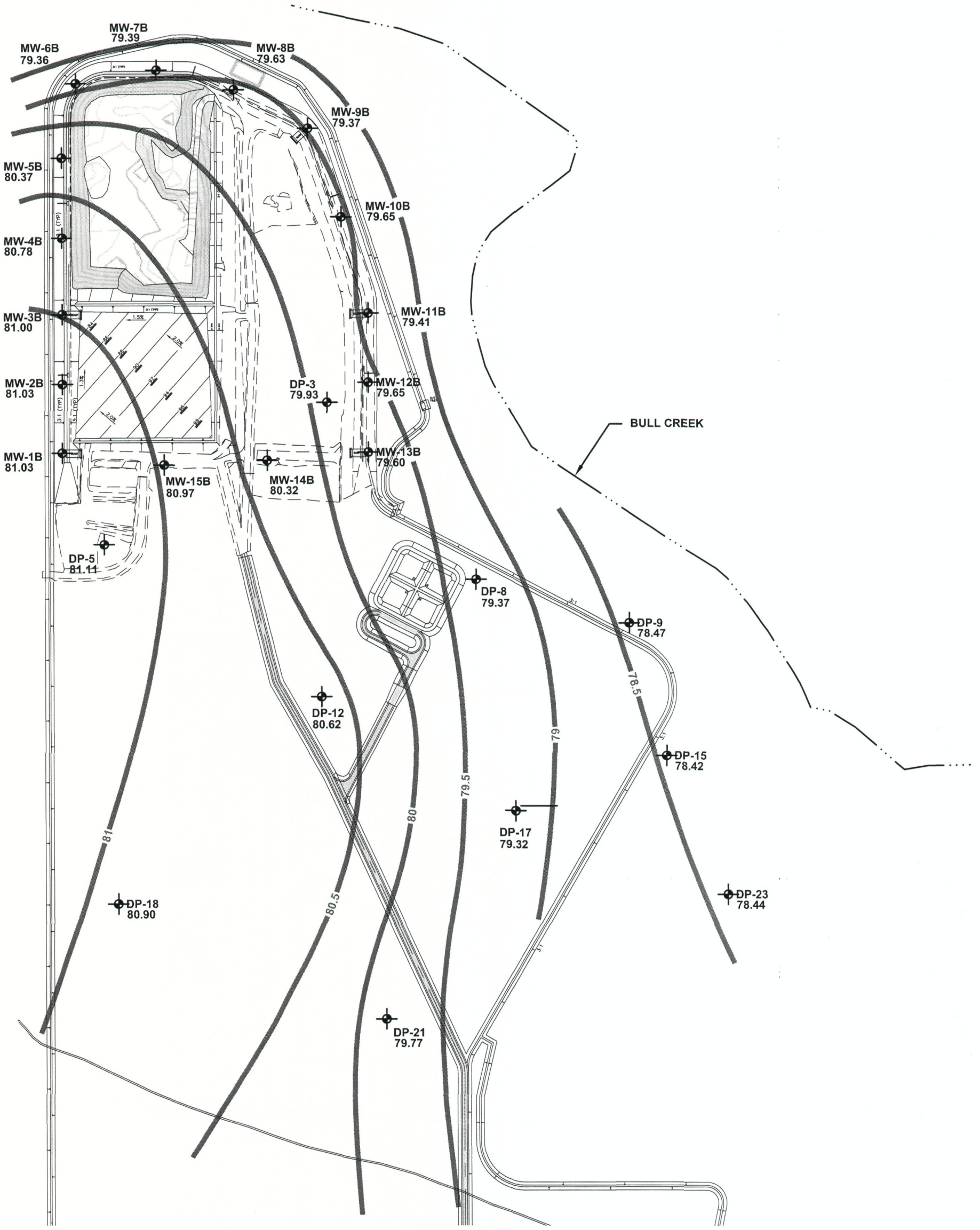
GeoSyntec Consultants
TAMPA, FLORIDA

FIGURE NO.	2
PROJECT NO.	FQ0709.01
FILE NO.	FQ0709F–0005

I:\FQ0709\FQ0709F-0005.dwg, SITE DEVELOPMENT PLAN, 11/11/2005 3:36:19 PM, Information Technology, GeoSyntec Consultants, 1:500, GeoSyntec Consultants, Tampa

I:\FQ0709\FQ0709F-0006.dwg, SITE DEVELOPMENT PLAN, 9/14/2005 9:41:21 AM, RLowry, 1:500, GeoSyntec Consultants, Tampa

3rd MONITORING (JULY 2005)
OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
"B"-ZONE (INTERMEDIATE) WELLS - WATER LEVEL CONTOURS
FIGURE 3



LEGEND

- 81.5 MW-7A — MONITORING WELL GROUNDWATER ELEVATION*
- 81.5 DP-13 — PIEZOMETER GROUNDWATER ELEVATION*
- 79.5 — WATER LEVEL CONTOURS*

* WATER LEVEL MEASUREMENTS FROM 25 JULY 2005 SITE WIDE SURVEY

NOTES:

DP–17 WATER LEVEL MEASUREMENT NOT USED IN CONTOURING.

DP–12 WATER LEVEL MEASUREMENT NOT MADE.

0 250' 500' 1000'

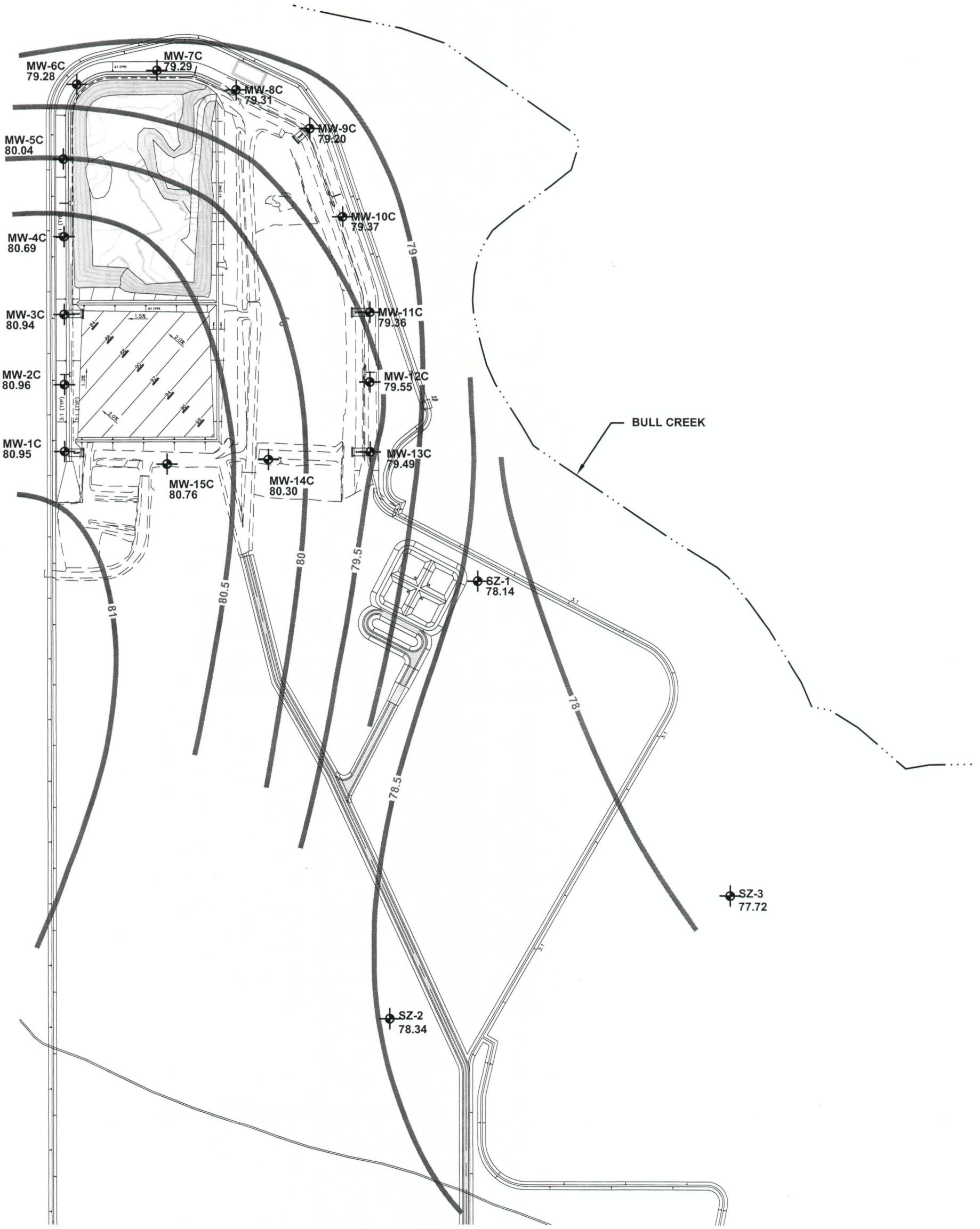
SCALE: 1" = 500'

GeoSyntec Consultants
TAMPA, FLORIDA

FIGURE NO.	3
PROJECT NO.	FQ0709.01
FILE NO.	FQ0709F–0006

I:\FQ0709\FQ0709F-0007.dwg, SITE DEVELOPMENT PLAN, 11/11/2005 4:14:55 PM, Information Technology, GeoSyntec Consultants, 1:500, GeoSyntec Consultants, Tampa

3rd MONITORING (JULY 2005)
OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
"C"-ZONE (DEEP) WELLS - WATER LEVEL CONTOURS
FIGURE 4



LEGEND

81.5 MW-7C	MONITORING WELL GROUNDWATER ELEVATION*
81.5 DP-13	PIEZOMETER GROUNDWATER ELEVATION*
79.5	WATER LEVEL CONTOURS*

* WATER LEVEL MEASUREMENTS FROM 25 JULY 2005 SITE WIDE SURVEY

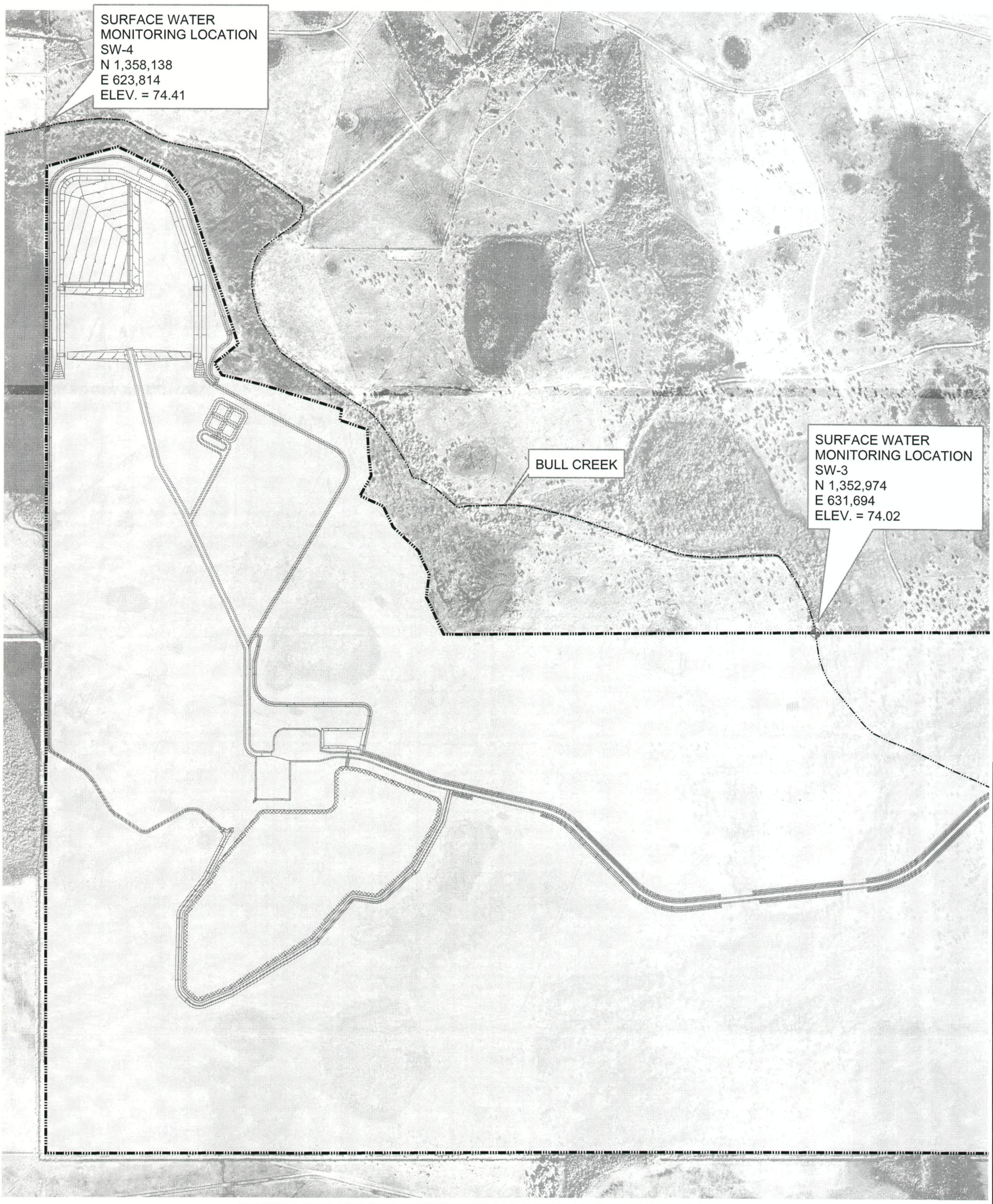
0 250' 500' 1000'

SCALE: 1" = 500'

GeoSyntec Consultants
TAMPA, FLORIDA

FIGURE NO.	4
PROJECT NO.	FQ0709.01
FILE NO.	FQ0709F-0007

3rd MONITORING (JULY 2005)
OAK HAMMOCK DISPOSAL FACILITY
WACS FACILITY ID 89455
SURFACE WATER MONITORING LOCATIONS
FIGURE 5



WATER LEVEL MEASUREMENTS FROM 25 JULY 2005 SITE WIDE SURVEY

1,000 500 0 1,000 2,000 3,000 Feet

1 inch equals 1,000 feet

GEOSYNTEC CONSULTANTS

TAMPA, FLORIDA

FIGURE NO.	5
PROJECT NO.	FQ0709
FILE NO.	FQ0709F-0005.MXD

APPENDIX A

GROUNDWATER SAMPLING
FILED FORMS

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 26 July 2005

Station (Well No.): MW-1A WACS ID: 19900 Performed by: JE, JT

Field Conditions/Observations: ~92°F, clear to p. cloudy, humid

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.50 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.98 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): ~~22.98~~ 14.57 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.07 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.98 - 14.50) x 0.16 = 1.36 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 25 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: _X_ Pump ___ Bailer Type: Peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 10.35 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ✓ Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-1A Time Collected: 1300

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.93 °C pH: 4.61 Conductivity: 0.136 mS/cm ORP: -116.9 mV

Salinity: _____ % Turbidity: 0.45 NTU DO: 0.29 mg/L Other: _____

Filtered: ___ Yes ✓ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, Ann, TDS, CHL, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 26 July 2005 Sampled By: JT, JE

Station (Well No.): MW-1A WACS ID: 19900 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): geopump 2 Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) ~~Hx~~ YSI 556 Check 100' ~~Water Level Meter~~ Initial DTW: 14.5 BTOC

Time @ Start of Purging: 10:55 Time @ End of Purging: 13:00 Total Purging Time: 2 hrs 5 min Depth of Pump or Intake Tubing: 18.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	mS/cm Conductivity ~~(µS/cm)~~	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
11:50	4.95	4.95	24.27	4.60	0.145	0.96	57.5	1.96	Clear	14.52	
12:10	1.80	6.75	24.67	4.61	0.141	0.90	36.2	0.47	Clear	14.53	
12:20	~~1.89~~ 0.9	7.65	24.35	4.60	0.141	0.90	6.8	0.38	Clear	14.55	
12:30	0.9	8.55	24.79	4.66	0.139	0.48	-53.9	0.57	Clear	14.56	
12:40	0.9	9.45	24.82	4.60	0.134	0.50	-108.1	0.34	Clear	14.57	
12:50	0.9	10.35	24.93	4.61	0.136	0.45	-116.9	0.29	Clear	14.57	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-1A Time Collected: 1300 Comments: _____

0.350L × 1gal / 3.7854L

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 26 July 2005

Station (Well No.): MW-2A WACS ID: 19903 Performed by: J. Ein, J. Terry

Field Conditions/Observations: ~93°F, p. cloudy, humid, very little breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): inside of outer casing lid rusting

Well Labeled: _X_ Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.25 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.60 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.47 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.22 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.6 - 14.25) x 0.16 = 1.34 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 23 ft.)+ *(Fc)* 0.5 gal = 0.56 gal

3 Well/Equipment Volumes = 1.68 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.10 gpm Purged Volume (actual): 15 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-2A Time Collected: 1640

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.81 °C pH: 4.34 Conductivity: 0.102 mS/cm ORP: -79.5 mV

Salinity: _____ % Turbidity: 1.47 NTU DO: 0.43 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Mg, Na, AMN, TDS, CHL, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 26 July 2005 Sampled By: JE, JT

Station (Well No.): MW-2A WACS ID: 19903 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 556 WLM: Keck Int. DTW ~~Water Level Meter~~: 14.25

Time @ Start of Purging: 14:00 Time @ End of Purging: 1630 Total Purging Time: 150 min Depth of Pump or Intake Tubing: 17.6 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
16:00 ~~1558~~	12.00	12.00	24.25	4.36	0.101	1.40	-48.7	4.77	clear	14.47	
1620	2.00	14.00	24.62	4.34	0.102	1.21	-76.9	0.48	clear	14.47	
1625	0.50	14.50	24.77	4.34	0.102	1.85	-86.5	0.40	clear	14.47	
1630	0.50	15.00	24.81	4.34	0.102	1.47	-79.5	0.43	clear	14.47	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-2A Time Collected: 1640 Comments: ___

0.360 L

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005

Station (Well No.): MW-3A WACS ID: 19906 Performed by: JE, JT

Field Conditions/Observations: ~88°F, clear, humid

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.03 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.77 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.18 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.15 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.77 - 14.03) x 0.16 = 1.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 22 ft.)+ *(Fc)* 0.5 gal = 0.56 gal

3 Well/Equipment Volumes = 1.7 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 4.50 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-3A Time Collected: 0930

QA Sample Collected (i.e., Blind Duplicate) X Yes ___ No QA Sample ID: MW-101A time 0950

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.18 °C pH: 5.11 Conductivity: 0.288 mS/cm ORP: -7.6 mV

Salinity: _____ % Turbidity: 1.28 NTU DO: 0.78 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, AppI, Fe, Na, Hg, AMN, TDS, CHL, NO_3

Sample Bottles Filled: 6 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 4 500 ml plastic 2 (1L plastic) (including DUP)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005 Sampled By: JE, JT

Station (Well No.): MW-3A WACS ID: 19906 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0830 Time @ End of Purging: 0920 Total Purging Time: 50 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Initial DTW: 14.03

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0900	2.70	2.70	24.08	5.12	0.295	2.68	2.1	0.47	tint yellow	14.17	
0910	0.9	3.60	24.14	5.12	0.292	1.89	-2.3	0.44	tint yellow	14.17	
0920	0.9	4.50	24.18	5.11	0.288	1.28	-7.6	0.78	clear	14.18	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-3A Time Collected: 0930 Comments: _____

Dup: MW-101A 0950

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005

Station (Well No.): MW-4A WACS ID: 19909 Performed by: JT, JE

Field Conditions/Observations: ~88°F, clear, humid, very slight northerly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Well label is faded and hard to read
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.04 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 23.13 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.24 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.2 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (23.13 - 15.04) x 0.16 = 1.3 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .25 in. x *(D)* .25 in. x *(L)* 24 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 9.45 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-4A Time Collected: 1050

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.83 °C pH: 4.66 Conductivity: 0.201 mS/cm ORP: -147.5 mV

Salinity: _____ % Turbidity: 0.49 NTU DO: 1.51 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Mg, Na, AMN, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005 Sampled By: JT, JE

Station (Well No.): MW-4A WACS ID: 19909 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0855 Time @ End of Purging: 1040 Total Purging Time: 105 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Initial DTW: 15.04

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0935	3.6	3.6	24.71	4.60	0.201	4.85	-127.3	5.59	clear	15.23	
0950	1.35	4.95	24.81	4.62	0.201	4.28	-179.3	2.46	clear	15.23	
1025	3.15	8.1	24.84	4.65	0.205	3.41	-170.0	2.45	clear	15.24	
1040	1.35	9.45	24.83	4.66	0.201	0.49	-147.5	1.51	clear	15.24	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-4A Time Collected: 1050 Comments: Slight breeze coming from the south. Bulldozer grading landfill east of the well cluster.

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005

Station (Well No.): MW-5A WACS ID: 19912 Performed by: JE, JT

Field Conditions/Observations: _____

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): _2_ in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

_____

Well Labeled: _X_ Yes ___ No Well Cap: _X_ Yes ___ No Well Cap: _X_ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.82 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.48 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.43 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.61 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes _X_ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.48 - 14.82) x 0.16 = 1.23 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 23 ft.)+ *(Fc)* 0.5 gal = 0.60 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: _X_ Pump ___ Bailer Type: peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 9.45 gallons Purge Water Contained? ___ Yes _X_ No

Container Used: ___ 55 Gallon Drum _____ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer _X_ Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-5A Time Collected: 1245

QA Sample Collected (i.e., Blind Duplicate) ___ Yes _X_ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): slight yellow tint

Final Values: Temp: 25.35 °C pH: 4.36 Conductivity: 0.130 mS/cm ORP: -32.8 mV

Salinity: _____ % Turbidity: 10.5 NTU DO: 1.00 mg/L Other: _____

Filtered: _____ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Mg, Na, Alk, TDS, Chl, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: _X_ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005 Sampled By: JT, JE

Station (Well No.): MW-5A WACS ID: 19912 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ☒ Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1020 Time @ End of Purging: 1200 Total Purging Time: 100 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

DTW 14.82

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1125	5.85	5.85	25.59	4.49	0.142	12.0	66.1	0.68	sl. yw	15.40	
1130	0.45	6.3	25.39	4.44	0.137	10.9	-19.0	0.52	sl. yw	15.40	
1145	1.35	7.65	25.63	4.40	0.134	10.3	-35.5	0.67	sl. yw	15.43	
1155	0.90	8.55	25.26	4.39	0.132	10.7	-20.9	1.02	sl. yw	15.43	
1200	0.45	9.00	25.38	4.40	0.129	10.5	-29.3	1.03	sl. yw	15.43	
1205	0.45	9.45	25.35	4.36	0.130	10.5	-32.8	1.00	sl. yw	15.43	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-5A Time Collected: 1245 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005

Station (Well No.): MW-6A WACS ID: 19915 Performed by: JE, JT

Field Conditions/Observations: ~95°F, clear, humid, sl. breeze coming from south

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.65 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.56 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.80 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.15 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.56 - 15.65) x 0.16 = 1.11 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 25 ft.)+ *(Fc)* 0.5 gal = 0.60 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 10.8 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-6A Time Collected: 1525

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 25.47 °C pH: 4.84 Conductivity: 0.104 mS/cm ORP: -149.0 mV

Salinity: _____ % Turbidity: 2.53 NTU DO: 0.84 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMN, TDS, CHL, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005 Sampled By: JE, JT

Station (Well No.): MW-6A WACS ID: 19915 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ☒ Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1315 Time @ End of Purging: 1515 Total Purging Time: 120 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

DTW 15.65

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1500	9.45	9.45	25.63	4.87	0.109	2.51	-107.6	2.81	clear	15.80	
1505	0.45	9.90	25.36	4.88	0.107	2.50	-134.9	0.98	clear	15.80	
1510	0.45	10.35	25.31	4.84	0.104	2.50	-146.9	0.93	clear	15.80	
1515	0.45	10.80	25.47	4.84	0.104	2.53	-149.0	0.84	clear	15.80	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-6A Time Collected: 1525 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005

Station (Well No.): MW-7A WACS ID: 19918 Performed by: JE/JT

Field Conditions/Observations: ~95°F, clear, humid, sl. breeze comfy from South

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.23 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 23.31 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.35 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.12 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (23.31 - 16.23) x 0.16 = 1.13 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 2.5 ft.)+ *(Fc)* 0.5 gal = 0.60 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.08 gpm Purged Volume (actual): 9.2 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.08 gpm

Sample ID: MW-7A Time Collected: 1520

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.88 °C pH: 4.86 Conductivity: 0.116 mS/cm ORP: -179.6 mV

Salinity: _____ % Turbidity: 0.80 NTU DO: 0.99 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: BOD, Appl, Fe, Na, Hg, AMN, TDS, CHL, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 27 July 2005 Sampled By: JE, JT

Station (Well No.): MW-7A WACS ID: 19918 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.08 gpm Water Quality Meter (Make & Model) YSI 556 ~~Water Level Meter~~ WLA: Keck 16.23

Time @ Start of Purging: 1325 Time @ End of Purging: 15:20 Total Purging Time: 1 hr 55 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
14:50	6.8	6.8	24.78	4.66	0.116	0.88	-159.0	3.09	Clear	16.34	
15:00	0.8	7.6	24.86	4.75	0.116	0.88	-188.6	1.14	clear	16.35	
15:10	0.8	8.4	24.88	4.76	0.116	0.89	-182.2	0.91	~~clear~~ Clear	16.35	
15:20	0.8	9.2	24.88	4.86	0.116	0.80	-179.6	0.99	Clear	16.35	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-7A Time Collected: 1520 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005

Station (Well No.): MW-8A WACS ID: 1994 Performed by: JE / JT

Field Conditions/Observations: Sunny, Humid, mid 90's °F,

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ___ Tight ✓ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.25 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.50 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.01 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.76 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.5 - 15.25) x 0.16 = 1.16 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 20.0 ft.)+ *(Fc)* 0.5 gal = 0.55 gal

3 (Well) Equipment Volumes = 3.48 gallons Purge Method: _X_ Pump ___ Bailer Type: Peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 4.5 gallons Purge Water Contained? ___ Yes _X_ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ✓ Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-8A Time Collected: 09:40

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.83 °C pH: 4.39 Conductivity: 0.133 mS/cm ORP: -76.2 mV

Salinity: _____ % Turbidity: 3.6 NTU DO: 0.40 mg/L Other: _____

Filtered: ___ Yes ✓ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, ANN, TDC, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: _X_ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005 Sampled By: JE, JT

Station (Well No.): MW-8A WACS ID: 19921 Purge Method: Pump ☑ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic

Pump (Make & Model): Geopump 2 Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) ~~Grotech~~ YSI556 Water Level Meter: Keck

Time @ Start of Purging: 8:40 Time @ End of Purging: 09:30 Total Purging Time: ~~60~~ 50 min Depth of Pump or Intake Tubing: 20.0 ft. (BTOC)

DTW 15.25

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
09:00	1.8	1.8	24.80	4.36	0.135	6.55	-38.2	0.48	tint yellow	16.02	
09:10	0.9	2.7	24.88	4.37	0.133	4.63	-70.7	0.35	clear	16.02	
09:20	0.9	3.6	24.82	4.39	0.133	4.60	-65.6	0.40	clear	16.02	
09:30	0.9	4.5	24.83	4.39	0.133	3.60	-76.2	0.40	clear	16.01	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-8A Time Collected: 0940 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005

Station (Well No.): MW-9A WACS ID: 19924 Performed by: JB, JT

Field Conditions/Observations: ~92°F, hazy, very humid, no breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.54 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.37 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.77 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.23 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.37 - 15.54) x 0.16 = 1.1 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 25 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 7.2 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-9A Time Collected: 1040

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): slight yellow, no odor

Final Values: Temp: 24.97 °C pH: 4.47 Conductivity: 0.135 mS/cm ORP: -136.5 mV

Salinity: _____ % Turbidity: 10.4 NTU DO: 0.86 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, Alk, TDS, Chl, Mg

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005 Sampled By: JE, JT

Station (Well No.): MW-9A WACS ID: 19924 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0900 Time @ End of Purging: 1020 Total Purging Time: 80min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

DTW: 15.54

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0920	1.8	1.8	24.98	4.44	0.144	11.9	-119.2	3.88	sl. yw	15.77	strong odor
0930	0.9	2.7	25.15	4.49	?.	11.0	-121.4	1.34	" "	15.78	slight odor
0935	0.45	3.15	25.00	4.51	?.	10.7	-119.5	1.17	" "	15.78	" "
0940	0.45	3.60	25.07	4.49	?.	10.5	-125.5	1.07	" "	15.77	" "
0950	0.9	4.5	25.03	4.46	?.	10.2	-127.4	0.94	" "	15.77	no odor
1010	1.8	6.3	25.12	4.47	0.136	10.6	-138.5	0.86	" "	15.77	" "
1015	0.45	6.75	25.02	4.47	0.134	10.6	-139.6	0.86	" "	15.77	" "
1020	0.45	7.2	24.97	4.47	0.135	10.4	-136.5	0.86	" "	15.77	" "

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-9A Time Collected: 1040 Comments: ?. = cond. value changing rapidly, unreadable

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005

Station (Well No.): MW-10A WACS ID: 19927 Performed by: JG / JT

Field Conditions/Observations: Sunny, Humid, 90's °F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ___ Tight ✓ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.95 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.14 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.15 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.2 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.14 - 16.95) x 0.16 = 0.83 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 22 ft.)+ *(Fc)* 0.5 gal = 0.56 gal

3 Well Equipment Volumes = 2.49 gallons Purge Method: _X_ Pump ___ Bailer Type: Peristaltic

Purge Rate: 0.1 gpm Purged Volume (actual): 6.0 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ✓ Peristaltic Pump ___ Submersible Pump Sample Rate: [redacted] gpm

Sample ID: MW-10A Time Collected: 11:40

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): yellow tint

Final Values: Temp: 25.41 °C pH: 4.49 Conductivity: 0.155 mS/cm ORP: -17.5 mV

Salinity: _____ % Turbidity: 8.81 NTU DO: 0.31 mg/L Other: _____

Filtered: ___ Yes ✓ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMN, CHL, TDS, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass [redacted] 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005 Sampled By: JE / JT

Station (Well No.): MW-10A WACS ID: 19927 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): geopump 2 Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) ~~geotech~~ YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 10:20 Time @ End of Purging: 11:30 Total Purging Time: 1 hr 10 min Depth of Pump or Intake Tubing: 22 ft. (BTOC)

Initial DTW: 16.95

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
10:50	3.0	3.0	25.61	4.53	0.153	~~8.70~~	28.1	0.58	light yellow	17.14	
11:10	2.0	5.0	25.70	4.49	0.151	9.57	0.6	0.33	tint yellow	17.14	
11:20	1.0	6.0	25.41	4.49	0.155	8.81	-17.5	0.31	tint yellow	17.15	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-10A Time Collected: 1140 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005

Station (Well No.): MW-11A WACS ID: 19930 Performed by: JE, JT

Field Conditions/Observations: ~95°F, clear, very humid, no breeze

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.34 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.84 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.45 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.11 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.84 - 14.34 x 0.16 = 1.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 28 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 2.25 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-11A Time Collected: 1145

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear w/ very sl. yellow tint, no odor

Final Values: Temp: 25.50 °C pH: 5.18 Conductivity: 0.216 mS/cm ORP: -63.9 mV

Salinity: _____ % Turbidity: 6.3 NTU DO: 1.09 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMN, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005 Sampled By: JE, JT

Station (Well No.): MW-11A WACS ID: 19930 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1110 Time @ End of Purging: 1135 Total Purging Time: 25 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

DTW: 14.34

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1125	1.35	1.35	25.24	5.19	0.209	6.5	-60.2	2.07	clear	14.45	very slight
1130	0.45	1.8	25.30	5.18	0.216	6.3	-54.8	1.50	clear	14.45	yellow tint
1135	0.45	2.25	25.50	5.18	0.216	6.3	-63.9	1.09	clear	14.45	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-11A Time Collected: 1145 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005

Station (Well No.): 12A WACS ID: 19933 Performed by: JE, JT

Field Conditions/Observations: Sunny, high humidity, 90's °F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ___ Tight ✓ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.70 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 23.00 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.97 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.27 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (23.00 - 15.70) x 0.16 = 1.17 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* ___ gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 20 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well/Equipment Volumes = ~~23.90~~ 3.51 gallons Purge Method: _X_ Pump ___ Bailer Type: peristaltic

Purge Rate: 0.09 gpm Purged Volume (actual): 17.1 gallons Purge Water Contained? ___ Yes _X_ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ✓ Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-12A Time Collected: 14:30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 25.70 °C pH: 3.57 Conductivity: 0.126 mS/cm ORP: -47.6 mV

Salinity: _____ % Turbidity: 0.90 NTU DO: 0.40 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, NH3N, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic ___ 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005 Sampled By: JE / JT

Station (Well No.): MW-12A WACS ID: 19933 Purge Method: Pump ☑ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) √ Peristaltic

Pump (Make & Model): geopump 2 Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) ~~geotech~~ YSI 556 Water Level Meter: KECK

Time @ Start of Purging: 12:10 Time @ End of Purging: 14:20 Total Purging Time: 2hrs 10min Depth of Pump or Intake Tubing: 20 ft. (BTOC)

initial DTW: 15.70

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
14:00	15.3	15.3	25.81	3.42	0.125	1.41	-28.0	0.6	Clear	15.95	
14:10	0.9	16.2	25.85	3.44	0.125	1.40	-38.2	0.48	clear	15.95	
14:20	0.9	17.1	25.70	3.57	0.126	0.90	-47.6	0.40	Clear	15.97	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-12A Time Collected: 1430 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 28 July, 2005

Station (Well No.): MW-13A WACS ID: 19932 Performed by: JE, JT

Field Conditions/Observations: ~95°F, clear very humid, slight s.west breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): no lock, I replaced lock

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments:
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.91 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.53 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.01 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.1 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.53 - 15.91) x 0.16 = 1.1 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 25 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.08 gpm Purged Volume (actual): 8.8 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.08 gpm

Sample ID: MW-13A Time Collected: 1430

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): _____

Final Values: Temp: 25.42 °C pH: 4.86 Conductivity: 0.155 mS/cm ORP: -121.4 mV

Salinity: _____ % Turbidity: 0.9 NTU DO: 1.12 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App IX, Fe, Na, Mg, AMW, TDS, CHL, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 28 July 2005 Sampled By: JE, JT

Station (Well No.): MW-13A WACS ID: 19936 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Grundfos II Purge Rate: 0.08 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1230 Time @ End of Purging: 1420 Total Purging Time: 110 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

DTW: 15.91

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1410	8.0	8.0	25.57	4.77	0.158	0.8	-118.1	2.66	clear	16.01	
1415	0.40	8.40	25.42	4.82	0.156	0.9	-117.0	1.48	clear	16.01	
1420	0.40	8.8	25.42	4.86	0.155	0.9	-121.4	1.12	clear	16.01	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-13A Time Collected: 1430 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 29 July 2005

Station (Well No.): MW-14A WACS ID: 19939 Performed by: JE / JT

Field Conditions/Observations: Humid, mid 90's / (This well cluster is located near LH access road and a lot of dust in the air)

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): -

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ___ Tight ✓ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 5.75 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 15.42 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 6.04 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.29 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (15.42 - 5.75) x 0.16 = 1.55 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 10 ft.)+ *(Fc)* 0.5 gal = 0.53 gal

3 Well Equipment Volumes = 4.65 gallons Purge Method: _X_ Pump ___ Bailer Type: Peristaltic

Purge Rate: 0.1 gpm Purged Volume (actual): 8.0 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ✓ Peristaltic Pump ___ Submersible Pump Sample Rate: 0.1 gpm

Sample ID: MW-14A Time Collected: 1030

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): dark brown

Final Values: Temp: 26.48 °C pH: 4.65 Conductivity: 0.03 mS/cm ORP: -147.8 mV

Salinity: _____ % Turbidity: 101 NTU DO: 0.45 mg/L Other: _____

Filtered: ✓ Yes ___ No Filter Size: 1 µm Analysis Required: metals (Ag, I, Fe, Hg, Na), BOD, AMN, TDS, CHL, NO_3, Dissolved metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 3 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 29 July 2005 Sampled By: JE/JT

Station (Well No.): MW-14A WACS ID: 19979 Purge Method: Pump ☑ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) geotech YSI 556 Water Level Meter: KECK

Time @ Start of Purging: 9:10 Time @ End of Purging: 10:30 Total Purging Time: 80 min. Depth of Pump or Intake Tubing: 10.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
9:30	2.0	2.0	26.94	4.59	0.100	105	-106.3	0.62	yellow	6.02	
9:50	2.0	4.0	26.48	4.61	0.117	110	-130.0	0.48	brown(dark)	6.03	
10:10	2.0	6.0	26.48	4.65	0.123	96	-128.8	0.60	dark brown	6.03	
10:20	1.0	7.0	26.49	4.65	0.120	97.3	-137.1	0.51	dark brown	6.04	
10:30	1.0	8.0	26.48	4.65	0.123	101	-147.8	0.45	dark brown	6.04	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-14A Time Collected: 10:30 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 29 July 2005

Station (Well No.): MW-15A WACS ID: 19942 Performed by: JB, JT

Field Conditions/Observations: ~88°F, clear, humid, slight N. westerly breeze

Well Inspection:

Well Type: Flush Mount (X) Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: Needs new label the 5 is faded
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 5.22 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 22.99 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 6.37 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.15 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (22.99 - 5.22) x 0.16 = 2.8 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 25 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well/Equipment Volumes = 1.8 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.10 gpm Purged Volume (actual): 3.5 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-15A Time Collected: 0925

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 24.79 °C pH: 4.66 Conductivity: 0.138 mS/cm ORP: -167.9 mV

Salinity: _____ % Turbidity: 1.1 NTU DO: 0.91 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMN, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 29 July 2005 Sampled By: JE, JT

Station (Well No.): MW-15A WACS ID: 19942 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ☒ Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.10 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0840 Time @ End of Purging: 0915 Total Purging Time: 35 min Depth of Pump or Intake Tubing: 18 ft. (BTOC)

NTU: 5.23

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0900	2.0	2.0	24.73	4.60	0.145	0.41	-164.9	1.61	clear	5.37	
0905	0.5	2.5	24.69	4.61	0.145	0.65	-179.5	1.32	clear	5.37	
0915	1.0	3.5	24.79	4.66	0.138	1.1	-167.9	0.91	clear	5.37	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-15A Time Collected: 0925 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 0 Aug. 2005

Station (Well No.): MW-1B WACS ID: 19901 Performed by: J. Burr, J. Terry

Field Conditions/Observations: ~ 92°F, p. cloudy, humid, slight westerly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.14 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.89 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.63 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.49 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.89 - 14.14) x 0.16 = 5.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 2.0 gpm Purged Volume (actual): 120 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: ~~0.50~~ 0.09 gpm QT

Sample ID: MW-1B Time Collected: 1100

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, strong odor

Final Values: Temp: 23.66 °C pH: 4.12 Conductivity: 0.048 mS/cm ORP: -126.1 mV

Salinity: _____ % Turbidity: 141.2 NTU DO: 0.31 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMN, TDS, Chl, NH_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 01 Aug. 2005 Sampled By: JE, JT

Station (Well No.): MW-1B WACS ID: 19901 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (__ Teflon ☒ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 2.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0930 Time @ End of Purging: 1030 Total Purging Time: 60 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW: 14.14

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1020	100	100	23.69	4.19	0.050	27.2	-163.8	1.50	clear	15.60	strong odor
1025	10	110	23.66	4.15	0.048	16.9	-171.1	0.36	clear	15.63	" "
1030	10	120	23.66	4.12	0.048	14.2	-176.1	0.31	clear	15.63	" "

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-1B Time Collected: 11:00 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 01 Aug. 2005

Station (Well No.): MW-2B WACS ID: 19904 Performed by: JE, JT

Field Conditions/Observations: ~94°F, p. cloudy, humid, slight westerly breeze

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.33 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.32 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.15 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.82 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.32 - 14.33) x 0.16 = 5.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: submersible

Purge Rate: 1.0 gpm Purged Volume (actual): 60 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes X No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-2B Time Collected: 1345

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): cloudy, no odor

Final Values: Temp: 23.75 °C pH: 4.11 Conductivity: 0.050 mS/cm ORP: 238.6 mV

Salinity: _____ % Turbidity: 55 NTU DO: 0.32 mg/L Other: Turb after filter: 1.0 NTU

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Na, Hg, NMN, TDS, CHL, NO_3, Dissolved Metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 3 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 01 Aug 2005 Sampled By: JE, JT

Station (Well No.): MW-2B WACS ID: 19904 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-flo 2 Purge Rate: 1.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1230 Time @ End of Purging: 1330 Total Purging Time: 60min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW: 14.33

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1245	15	15	23.77	4.14	0.051	311	-106.2	1.54	lt. br.	15.13	
1300	15	30	23.72	4.09	0.050	190	-180.1	0.39	lt. br.	15.15	clearer than at first reading
1310	10	40	23.74	4.09	0.050	91.7	-215.9	0.34	cloudy	15.15	
1320	10	50	23.75	4.11	0.049	62.0	-217.1	0.46	cloudy	15.15	
1325	5	55	23.75	4.11	0.050	60.0	-230.4	0.37	cloudy	15.15	
1330	5	60	23.75	4.11	0.050	55	-238.6	0.32	cloudy	15.15	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling.. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-2B Time Collected: 1345 Comments: Turbidity after filter: 1.0 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug. 2005

Station (Well No.): MW-3B WACS ID: 19907 Performed by: JE, JT

Field Conditions/Observations: ~89°F, p. cloudy, humid

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.81 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.62 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 14.87 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.06 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.62 - 13.81) x 0.16 = 5.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.33 gpm Purged Volume (actual): 86.5 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-3B Time Collected: 0925

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): cloudy

Final Values: Temp: 23.61 °C pH: 4.66 Conductivity: 0.090 mS/cm ORP: -184.1 mV

Salinity: _____ % Turbidity: 44.3 NTU DO: 0.82 mg/L Other: Turb after filter 1.6 NTU

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Na, Hg, AMN, TDS, Chl, NO_3,

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 3 500 ml plastic 1 (1L plastic) Dissolved metals

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005 Sampled By: JE, JT

Station (Well No.): MW-3B WACS ID: 19907 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1.33 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0810 Time @ End of Purging: 0915 Total Purging Time: 65 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 13.81

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0825	20	20	23.58	4.86	0.084	160	-138.2	2.41	H. brown	14.86	
0835	13.3	33.3	23.58	4.65	~~Fluctuating~~	91.6	-155.3	1.81	cloudy	14.87	
0900	33.25	66.55	23.60	4.60	0.088	50.1	-167.4	1.22	cloudy	14.87	
0905	6.65	73.2	23.59	4.66	0.091	45.7	-175.7	0.94	cloudy	14.87	
0910	6.65	79.85	23.60	4.63	0.089	45.9	-179.8	0.87	cloudy	14.87	
0915	6.65	86.50	23.61	4.66	0.090	44.3	-184.1	0.82	cloudy	14.87	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-3B Time Collected: 0925 Comments: Turbidity after filter: 1.6 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005

Station (Well No.): MW-4B WACS ID: 19910 Performed by: JE, JT

Field Conditions/Observations: ~92°F, p. cloudy, humid, no breeze

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.53 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.43 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 15.38 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.85 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.43 - 14.53) x 0.16 = 5.3 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: submersible

Purge Rate: 1.25 gpm Purged Volume (actual): 50.0 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-4B Time Collected: 1120

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 23.95 °C pH: 4.52 Conductivity: 0.094 mS/cm ORP: -183.7 mV

Salinity: _____ % Turbidity: 18.6 NTU DO: 0.90 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: ___ µm Analysis Required: 8260, AppI, Fe, Hg, Na, AMN, TDS, CHL, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 2 Aug. 2005 Sampled By: JE, JT

Station (Well No.): MW-4B WACS ID: 1991O Purge Method: Pump ☒ Bailer ☐ Pump Type: X Submersible ( ) Teflon (X) SS ( ) Other) ( ) Peristaltic

Pump (Make & Model): Grundfos Red-Flo 2 Purge Rate: 1.25 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1030 Time @ End of Purging: 1110 Total Purging Time: 40 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 14.53

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1040	12.5	12.5	23.96	4.43	0.093	133	-147.3	2.33	sl. cloudy	15.33	
1100	25	37.5	23.96	4.50	0.094	34.7	-178.7	1.07	sl cloudy	15.37	
1105	6.25	43.75	23.95	4.52	0.094	24.1	-183.9	0.93	clear	15.38	
1110	6.25	50.00	23.95	4.52	0.094	18.6	-183.7	0.90	clear	15.38	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-4B Time Collected: 1120 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug. 2005

Station (Well No.): MW-5B WACS ID: 19913 Performed by: JE, JT

Field Conditions/Observations: ~94°F, p. cloudy, humid, slight n. westerly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.80 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.10 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.73 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: +0.07 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.10 - 16.80) x 0.16 = 5.0 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.25 gpm Purged Volume (actual): 37.5 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-5B Time Collected: 1420

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.2 °C pH: 4.13 Conductivity: 0.074 mS/cm ORP: -197.7 mV

Salinity: _____ % Turbidity: 3.28 NTU DO: 1.23 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, Alk, TDS, Chl, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005 Sampled By: JE, JT

Station (Well No.): MW-5B WACS ID: 19913 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (__ Teflon ☒ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1.25 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1340 Time @ End of Purging: 1410 Total Purging Time: 30 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW: 16.80

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1350	12.5	12.5	24.12	3.83	0.074	3.80	-135.1	2.82	clear	16.72	
1400	12.5	25.0	24.20	4.09	0.072	3.28	-186.9	1.66	clear	16.73	
1405	6.25	31.25	24.19	4.13	0.072	3.29	-193.6	1.39	clear	16.73	
1410	6.25	37.50	24.20	4.13	0.074	3.28	-197.7	1.23	clear	16.73	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-5B Time Collected: 1420 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005

Station (Well No.): MW-6B WACS ID: 19916 Performed by: JE, JT

Field Conditions/Observations: ~95°F, p. cloudy, humid, no breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 22.55 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.40 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 22.9 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.35 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.40 - 22.55) x 0.16 = 4.0 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.25 gpm Purged Volume (actual): 62.5 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-6B Time Collected: 1555

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): cloudy

Final Values: Temp: 24.04 °C pH: 4.52 Conductivity: 0.065 mS/cm ORP: -202.1 mV

Salinity: _____ % Turbidity: 63.5 NTU DO: 0.31 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Mg, Na, Alk, TDS, Chl, Ms Dissolved Metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 3 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005 Sampled By: JE, JT

Station (Well No.): MW-6B WACS ID: 19916 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (__ Teflon ☒ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1.25 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1450 Time @ End of Purging: 1540 Total Purging Time: 50min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 22.55

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1505	18.75	18.75	24.10	4.75	0.067	83.2	-188.8	0.84	Cloudy	22.82	
1515	~~18.75~~ 12.5	~~37.5~~ 31.25	24.04	4.29	0.066	51.6	-252	0.37	cloudy	22.81	
1520	6.25	37.5	24.06	4.46	0.066	47.9	-252.5	0.33	cloudy	22.86	
1530	12.5	50.0	24.05	4.50	0.065	53.3	-270.3	0.30	cloudy	22.90	
1540	12.5	62.5	24.04	4.52	0.065	63.5	-282.1	0.31	cloudy	22.90	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-6B Time Collected: 1555 Comments: Turbidity after filtering is 1.9 Ntu

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005

Station (Well No.): MW-7B WACS ID: 19919 Performed by: JE, JT

Field Conditions/Observations: ~95°F, p. cloudy, humid, sl. nw westerly breeze @1700 wind direction changed to westerly

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.87 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.46 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 21.68 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 5.81 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.46 - 15.87) x 0.16 = 5.1 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.0 gpm Purged Volume (actual): 60 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-7B Time Collected: 1740

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): Cloudy

Final Values: Temp: 23.69 °C pH: 4.72 Conductivity: 0.087 mS/cm ORP: -250.5 mV

Salinity: _____ % Turbidity: 62 NTU DO: 0.76 mg/L Other: _____

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Mg, Na, NH_3N, TDS, Chl, NO_3, Dissolved Metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 3 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005 Sampled By: JE, JT

Station (Well No.): MW-7B WACS ID: 19919 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-Flo 2 Purge Rate: 1.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1630 Time @ End of Purging: 1730 Total Purging Time: 60 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW: 15.97

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1650	20	20	23.82	4.37	0.087	181	-192.1	1.74	cloudy	21.60	
1700	10	30	23.75	4.83	0.087	121	-242.2	0.99	cloudy	21.63	
1710	10	40	23.73	4.83	0.087	85.4	-242.5	0.97	cloudy	21.65	
1720	10	50	23.70	4.73	0.088	64.4	-250.9	0.80	cloudy	21.67	
1725	5	55	23.70	4.72	0.088	61.4	-250.1	0.77	cloudy	21.68	
1730	5	60	23.69	4.72	0.087	62.0	-250.5	0.76	cloudy	21.68	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-7B Time Collected: 1740 Comments: Turb. after filter 2.0 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 3 Aug. 2005

Station (Well No.): MW-8B WACS ID: 19922 Performed by: JE, JT

Field Conditions/Observations: ~92°F, clear, humid, sl. westerly breeze

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.73 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 49.58 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 25.93 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 11.2 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (49.58 - 14.73) x 0.16 = 6.0 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 40 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: submersible

Purge Rate: 1.0 gpm Purged Volume (actual): 70 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-8B Time Collected: 1020

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): cloudy, no odor

Final Values: Temp: 24.24 °C pH: 11.65 Conductivity: unstable mS/cm ORP: -200.3 mV

Salinity: _____ % Turbidity: 157 NTU DO: 0.76 mg/L Other: Turb after filter 0.45 NTU

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, Ag, I, Fe, Hg, Mn, AmN, TDS, Chl, NO_3, Dissolved metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 3 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug. 2005 Sampled By: JB, JT

Station (Well No.): MW-8B WACS ID: 19922 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-Flo 2 Purge Rate: 1.00 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0900 Time @ End of Purging: 1010 Total Purging Time: 70 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 24.73

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0915	15	15	24.20	4.81	0.075	373	-173.9	2.24	lt. brown	26.06	
0925	10	25	24.20	4.71	0.077	239	-181.2	1.64	" "	26.08	
0930	5	30	24.22	4.71	fluctuating	212	-185.3	1.30	" "	26.06	
0950	20	50	24.25	4.62	" "	166	-189.7	0.96	" "	26.06	
1000	10	60	24.19	4.64	" "	160	-196.1	0.83	cloudy	26.03	
1010	10	70	24.24	4.65	" "	157	-200.3	0.76	cloudy	25.93	Purged >10 well volumes. All parameters stable except cond.

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-8B Time Collected: 1020 Comments: Turb after filter 0.45 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005

Station (Well No.): MW-9B WACS ID: 19925 Performed by: JB, JT

Field Conditions/Observations: ~95°F, mostly cloudy, westerly breeze, very humid

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: Y Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.25 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 49.11 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 24.85 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 9.6 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water (initial)) x well capacity = (49.11 - 15.25) x 0.16 = 5.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = (P) 0 gal + (0.041 x (D) 0.375 in. x (D) 0.375 in. x (L) 48 ft.)+ (Fc) 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.0 gpm Purged Volume (actual): 115 gallons Purge Water Contained? ___ Yes X No
@1100 20 gpm @115 back to 1.0 GPM
Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-9B Time Collected: 1240

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): slightly cloudy, no odor

Final Values: Temp: 24.32 °C pH: 4.87 Conductivity: 0.086 mS/cm ORP: -209.0 mV

Salinity: _____ % Turbidity: 49 NTU DO: 0.58 mg/L Other: Turbafan filter 0.68

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: B260, App I, Fe, Hg, Na, AMW, TDS, Cl, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic) Dissolved metals

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005 Sampled By: JE, JT

Station (Well No.): MW-9B WACS ID: 19975 Purge Method: Pump ☐ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): GrundfosRedi-Flo2 Purge Rate: ~~1.0~~ 2.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1048 Time @ End of Purging: 1235 Total Purging Time: 110 min Depth of Pump or Intake Tubing: 93 ft. (BTOC)

DTW 15.25

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1100	15	15	24.41	4.91	0.086	93.7	-175.5	1.71	lt. brown	24.71	
1105	increased purge rate to 2.0 GPM										
1115	decreased purge rate back to 1.0 GPM (draw down too great) for 20 gallons purged.									1105 to 1115	
	20	35									
1125	10	45	24.36	4.94	0.087	73.1	-181.8	0.91	lt. brown cloudy	24.74	
1135	10	55	24.32	4.90	0.087	35.5	-191.4	0.72	" "	24.77	
1145	10	65	24.36	4.88	0.086	17.5	-195.4	0.64	" "	24.80	
1155	10	75	24.29	4.89	0.086	12.5	-199.3	0.62	cloudy	24.86	
1205	10	85	24.31	4.87	0.086	70.5	-203.3	0.60	cloudy	25.00	
1215	10	95	24.33	4.86	0.086	51.9	-208.6	0.58	cloudy	24.85	
1225	10	105	24.32	4.88	0.086	49.5	-209.8	0.58	sl. cloudy	24.85	
1235	10	115	24.32	4.87	0.086	49.0	-209.0	0.58	sl. cloudy	24.85	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-9B Time Collected: 1240 Comments: Turb. after filter 0.68 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005

Station (Well No.): MW-10B WACS ID: 19928 Performed by: JE, JT

Field Conditions/Observations: ~96°F, sunny, very humid, n. easterly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 18.29 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.26 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.01 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: + 0.28 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.26 - 18.29) x 0.16 = 4.8 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.0 gpm Purged Volume (actual): 4.5 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-10B Time Collected: 1510

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 24.09 °C pH: 4.42 Conductivity: 0.088 mS/cm ORP: -208.6 mV

Salinity: _____ % Turbidity: 2.4 NTU DO: 0.82 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App IX, Fe, Mg, Na, Mn, TDS, Chl, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug. 2005 Sampled By: JE, JT

Station (Well No.): MW-10B WACS ID: 19928 Purge Method: Pump X Bailer ☐ Pump Type: X Submersible (__ Teflon X SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi Flo-2 Purge Rate: 1.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1415 Time @ End of Purging: 1500 Total Purging Time: 45 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 18.29

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1420	5	5	24.22	5.10	0.080	16.9	-150.7	4.70	clear	18.07	
1430	10	15	24.16	4.07	0.083	8.6	-163.8	2.29	clear	18.00	
1435	5	20	24.14	4.34	0.080	5.5	-187.6	1.81	clear	17.99	
1440	5	25	24.14	4.43	0.086	5.4	-195.7	1.47	clear	18.01	
1500	20	45	24.09	4.42	0.088	2.4	-208.6	0.82	clear	18.01	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-10B Time Collected: 1510 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005

Station (Well No.): MW-11B WACS ID: 19931 Performed by: JE, JT

Field Conditions/Observations: ~95°F, p.cloudy, very humid, easterly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.19 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 17.86 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.26 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 3.07 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (17.86 - 14.19) x 0.16 = 5.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.30 in. x *(D)* 0.38 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: Subsmersible

Purge Rate: 1.0 gpm Purged Volume (actual): 4.5 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-11B Time Collected: 1640

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 23.88 °C pH: 4.87 Conductivity: 0.127 mS/cm ORP: -157.0 mV

Salinity: _____ % Turbidity: 19.2 NTU DO: 0.77 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMW, TDS, Chl, Mg

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005 Sampled By: JE, JT

Station (Well No.): MW-11B WACS ID: 19931 Purge Method: Pump ☒ Bailer ☐ Pump Type: X Submersible (__ Teflon X SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1545 Time @ End of Purging: 1630 Total Purging Time: 45 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 14.19

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1605	20	20	23.92	4.82	0.127	74.7	-142.3	1.37	Slcloudy	17.23	
1610	5	25	23.98	4.84	0.128	49.1	-147.2	1.05	" "	17.24	
1630	20	45	23.88	4.87	0.127	19.2	-157.0	0.77	clear	17.26	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-11B Time Collected: 1640 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug. 2005

Station (Well No.): MW-12B WACS ID: 19934 Performed by: JE, JT

Field Conditions/Observations: ~89°F, clear, humid, sl. s. westerly breeze

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 17.43 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.96 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 19.34 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.91 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.96 - 17.43) x 0.16 = 5.0 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/Equipment Volumes = 2.4 gallons Purge Method: X Pump ___ Bailer Type: submersible

Purge Rate: 1.00 gpm Purged Volume (actual): 110 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-12B Time Collected: 1025

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 24.23 °C pH: 4.73 Conductivity: 0.073 mS/cm ORP: -186.2 mV

Salinity: _____ % Turbidity: 30 NTU DO: 0.69 mg/L Other: Turb. after filter 0.95 NTU

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Hg, Na, AMN, TDS, CHL, NO_3, Dissolved metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 3 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005 Sampled By: J. Eun, J. Terry

Station (Well No.): MW-12B WACS ID: 19934 Purge Method: Pump ☐ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ___ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 0825 Time @ End of Purging: 1015 Total Purging Time: 110 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 17.43

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
0845	20	20	24.20	4.76	0.072	258	-141.2	2.12	lt. brown cloudy	19.24	
0900	15	35	24.20	4.77	0.073	104	-166.1	1.51	cloudy	19.26	
0910	10	45	24.24	4.80	0.074	74.1	-173.5	1.26	sl. cloudy	19.30	
0920	10	55	24.22	4.78	0.076	55.7	-183.2	1.00	" "	19.29	
0935	15	70	24.23	4.77	0.073	43.7	-189.8	0.83	clear	19.30	
1000	25	95	24.20	4.76	0.072	32.0	-189.9	0.76	" "	19.31	
1005	5	100	24.24	4.75	0.073	27.0	-172.5	0.74	" "	19.30	
1015	10	110	24.23	4.73	0.073	30.0	-186.2	0.69	" "	19.34	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-12B Time Collected: 1025 Comments: Turb. after filter 0.95 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005

Station (Well No.): MW-13B WACS ID: 19937 Performed by: JE, JT

Field Conditions/Observations: ~94°F, clear, very humid, sl. n westerly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

_____

Well Labeled: _X_ Yes ___ No Well Cap: _X_ Yes ___ No Well Cap: _X_ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.61 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 47.17 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.03 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.42 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (47.17 - 16.61) x 0.16 = 5.0 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 48 ft.)+ *(Fc)* 0.5 gal = 0.8 gal

3 Well/~~Equipment~~ Volumes = 2.4 gallons Purge Method: _X_ Pump ___ Bailer Type: Submers. bb

Purge Rate: 1.0 gpm Purged Volume (actual): 110 gallons Purge Water Contained? __ Yes X No
@ 11:35 1.33 GPM
Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-13B Time Collected: 1230

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 23.84 °C pH: 4.46 Conductivity: unstable mS/cm ORP: -246.7 mV

Salinity: _____ % Turbidity: 48.4 NTU DO: 0.64 mg/L Other: Turb. after filter 0.67 NTU

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Mg, Na, ANN TDS, CH2, NO3, Dissolved metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 3 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005 Sampled By: J. Eun, J. Terry

Station (Well No.): MW-13B WACS ID: 19937 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-flo 2 Purge Rate: 1.0 @1135 1.33 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1045 Time @ End of Purging: 1220 Total Purging Time: 95 min Depth of Pump or Intake Tubing: 43 ft. (BTOC)

DTW 16.61

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1125	30	30	23.96	4.21	0.075	148	-173.0	1.46	cloudy	16.67	
1130	15	45	23.90	4.52	fluctuating	104		1.09	sl cloudy		
1135	increased purge rate to 1.33 GPM										
1130 to 1135	5	50									
1145	13.3	63.3	23.83	4.51	fluctuating	75	-222.0	0.76	sl cloudy	17.01	
1200	20	83.25	23.90	4.50	" "	59.0	-230.6	0.68	" "	17.03	
1210	13.3	96.55	23.81	4.48	" "	43.0	-236.7	0.67	clear	17.03	
1215	6.65	103.2	23.85	4.48	" "	45.0	-242.3	0.65	" "	17.03	
1220	6.65	110	23.84	4.46	" "	48.4	-246.7	0.64	" "	17.03	
			All parameters stable except cond. w/ > 22 w/ 11 volumes purged								

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-13B Time Collected: 1230 Comments: Turb after filter 0.67 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005

Station (Well No.): MW-14B WACS ID: 19940 Performed by: JE, JT

Field Conditions/Observations: ~92°F, p.cloudy, humid, westerly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: well cluster adjacent to landfill access Rd. considerable dust in the air periodically
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 5.52 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 37.76 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 6.48 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.96 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (37.76 - 5.52) x 0.16 = 5.2 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 38 ft.)+ *(Fc)* 0.5 gal = 0.72 gal

3 Well/Equipment Volumes = 2.2 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.0 gpm Purged Volume (actual): 55 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-14B Time Collected: 1545

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): slightly cloudy, no odor

Final Values: Temp: 23.70 °C pH: 4.23 Conductivity: 0.061 mS/cm ORP: -249.3 mV

Salinity: _____ % Turbidity: 65 NTU DO: 0.99 mg/L Other: Turb after filter 0.43 NTU

Filtered: X Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Mg, Na, AMN, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic ___ 500 ml plastic 1 (1L plastic) Dissolved metals

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug. 2005 Sampled By: JB, JV

Station (Well No.): MW-14B WACS ID: 19940 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1.0 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 1440 Time @ End of Purging: 1535 Total Purging Time: 55min Depth of Pump or Intake Tubing: 33 ft. (BTOC)
DTW 5.52

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1455	15	15	23.81	3.01	0.062	85.0	-156.9	2.55	slcloudy	6.46	
1505	10	25	23.75	4.20	0.062	43.9	-258.3	1.62	" "	6.48	
1520	15	40	23.78	4.23	0.062	53.0	-230.7	1.62	" "	6.48	
1535	15	55	23.70	4.23	0.061	65.0	-249.3	0.99	" "	6.48	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-14B Time Collected: 1545 Comments: Well cluster adjacent to Landfill access road. Considerable dust in the air periodically

Turb after filter 0.43 NTU

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug. 2005

Station (Well No.): MW-15B WACS ID: 19943 Performed by: JE, JT

Field Conditions/Observations: ~90°F, clear, humid, slight N. westerly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: Y Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 4.96 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 48.4 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 5.35 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.39 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (48.4 - 4.96) x 0.16 = 7.0 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.25 in. x *(D)* 0.25 in. x *(L)* 35 ft.)+ *(Fc)* 0.5 gal = 0.6 gal

3 Well Equipment Volumes = 21 gallons Purge Method: X Pump ___ Bailer Type: peristaltic

Purge Rate: 0.20 gpm Purged Volume (actual): 16 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW-15B Time Collected: 1130

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 24.69 °C pH: 4.55 Conductivity: 0.055 mS/cm ORP: -114.7 mV

Salinity: _____ % Turbidity: 8.31 NTU DO: 0.67 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Mg, Na, AMW, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 29 July 2005 Sampled By: JE, JT

Station (Well No.): MW-15B WACS ID: 19943 Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.2 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Heck

Time @ Start of Purging: 1000 Time @ End of Purging: 1120 Total Purging Time: 80 min Depth of Pump or Intake Tubing: 30 ft. (BTOC)

DTW: 4.96 BTOC

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1035	7.0	7.0	24.48	4.61	0.056	10.13	-135.2	2.18	clear	5.35	
1050	3.0	10.0	24.53	4.58	0.065	8.86	-212.9	0.88	clear	5.34	
1100	2.0	12.0	24.54	4.53	0.056	8.26	-141.1	0.76	clear	5.35	
1110	2.0	14.0	24.63	4.59	0.056	8.28	-132.2	0.92	clear	5.35	
1120	2.0	16.0	24.69	4.55	0.055	8.31	-114.7	0.67	clear	5.35	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-15B Time Collected: 1130 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 01 August 2005

Station (Well No.): MW1-C WACS ID: 19902 Performed by: JE / JT

Field Conditions/Observations: Sunny, mid 90's

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: V Yes ___ No Well Cap: V Yes ___ No Well Cap: ___ Tight V Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.45 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 75.22 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 19.68 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 5.23 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: V Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (75.22 - 14.45) x 0.16 = 9.72 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal) 0.92
1 EV = *(P)* 0 gal + (0.041 x *(D)* ~~0.375~~ in. x *(D)* ~~0.375~~ in. x *(L)* 72 ft.)+ *(Fc)* 0.5 gal = ~~10.69~~ gal

3 (Well/Equipment Volumes = 29.16 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 2 gpm Purged Volume (actual): 140 gallons Purge Water Contained? ___ Yes V No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump V Submersible Pump Sample Rate: 0.09 gpm

Sample ID: MW1C Time Collected: 11 : 30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes V No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, strong odor

Final Values: Temp: 23.83 °C pH: 4.54 Conductivity: see sample log mS/cm ORP: -213.2 mV

Salinity: _____ % Turbidity: 19.5 NTU DO: 1.26 mg/L Other: _____

Filtered: ___ Yes V No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMN, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass 3 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 01 Aug 2005 Sampled By: JE / JT

Station (Well No.): MW-1C WACS ID: 19902 Purge Method: Pump ☑ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi flo 2 Purge Rate: 2 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Kock

Time @ Start of Purging: 9:50 Time @ End of Purging: 11:30 Total Purging Time: 1 hr 40 min Depth of Pump or Intake Tubing: 72 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color tint yellow	Depth to Water (ft) BTOC	Comments
10:20	60	60	23.82	4.81	0.080	46.4	-178.5	2.92	~~Clear~~	21.22	
10:30	20	80	23.83	4.34	0.[illegible]	17.3	-196.8	2.32	tint yellow	21.44	
10:50	24	104	23.83	4.37		17.9	-199.7	1.58	tint yellow	19.68	→ Change purge rate to 1.2gpm
11:00	12	116	23.82	4.35		24.13	-195.7	1.45	tint white	19.68	due to unstable conductivity.
11:10	12	128	23.78	4.45		19.3	-202.8	1.28	clear	19.68	
11:20	12	140	23.83	4.54		19.5	-213.2	1.26	Clear	19.68	// purged over 5 well
											Volumes. All parameters
											are stable but conductivity
											and turbidity is below 20
											We collected sample
											~~sample~~ with above
											parameters.

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-1C Time Collected: 11:30 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 01 Aug 2005

Station (Well No.): MW-2C WACS ID: 19905 Performed by: JE/ JT

Field Conditions/Observations: ~94°F, p. cloudy, humid, sl. westerly breeze

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): _2_ in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: _V_ Yes ___ No Well Cap: _V_ Yes ___ No Well Cap: ___ Tight _V_ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.58 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 68.42 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.60 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 4.02 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes _X_ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (68.42 - 14.58) x 0.16 = 8.61 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 65 ft.)+ *(Fc)* 0.5 gal = 0.87 gal

3 Well/Equipment Volumes = 25.83 gallons Purge Method: _X_ Pump ___ Bailer Type: submersible

Purge Rate: 1 gpm Purged Volume (actual): 70 gallons Purge Water Contained? ___ Yes _X_ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump _X_ Submersible Pump Sample Rate: _____ gpm

Sample ID: MW-2C Time Collected: 1340

QA Sample Collected (i.e., Blind Duplicate) ___ Yes _X_ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 23.94 °C pH: 4.44 Conductivity: 0.065 mS/cm ORP: -231.5 mV

Salinity: _____ % Turbidity: 19 NTU DO: 1.08 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, NH4, TDS, Chl, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: _X_ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 01 Aug 05 2005 Sampled By: JE / JT

Station (Well No.): MW-2C WACS ID: 19905 Purge Method: Pump ☑ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redrflo 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Kock

Time @ Start of Purging: 12:20 Time @ End of Purging: 1330 Total Purging Time: 70 min Depth of Pump or Intake Tubing: 65.0 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
12:40	20	20	23.90	4.24	0.071	76	-127.6	2.73	tint white	18.56	
13:00	20	40	23.91	4.47		44.5	-229.5	1.50	tint white	18.60	unstable conductivity
13:10	10	50	23.92	4.42	0.072	32	-240.8	1.17	tint white	18.61	
13:20	10	60	23.96	4.44	0.066	24	-180.4	1.20	clear	18.61	
13:30	10	70	23.94	4.44	0.065	19	-291.5	1.08	clear	18.60	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-2C Time Collected: 1340 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005

Station (Well No.): MW-3C WACS ID: 19908 Performed by: JE, JT

Field Conditions/Observations: Cloudy, wind from North, mid 90's

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: X Yes ___ No Well Cap: X Yes ___ No Well Cap: X Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 13.86 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 68.68 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.29 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.43 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (68.68 - 13.86) x 0.16 = 8.7 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* 0.375 in. x *(L)* 69 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well Equipment Volumes = 2.7 gallons Purge Method: X Pump ___ Bailer Type: submersible

Purge Rate: 1 gpm Purged Volume (actual): 60 gallons Purge Water Contained? ___ Yes X No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-3C Time Collected: 09:30

QA Sample Collected (i.e., Blind Duplicate) ✓ Yes ___ No QA Sample ID: MW-102C (9:50)

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 23.76 °C pH: 4.69 Conductivity: 0.076 mS/cm ORP: -205.2 mV

Salinity: _____ % Turbidity: 19 NTU DO: 0.30 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, Alk, TDS, Chl, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass 2 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug. 2005 Sampled By: JE, JT

Station (Well No.): MW-3C WACS ID: 19908 Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 08:10 Time @ End of Purging: 1 hr Total Purging Time: 09:10 Depth of Pump or Intake Tubing: 64 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
8:20	10	10	23.75	4.80	0.077	42.5	-122.2	0.58	tint white	16.23	
8:30	10	20	23.76	4.72	0.074	38.3	-135.9	0.38	tint white	16.25	
8:40	10	30	23.76	4.68	0.076	42.3	-157.4	0.30	tint white	16.27	
8:50	10	40	23.76	4.69	0.075	37.0	-183.1	0.35	tint white	16.28	
8:55	5	45	23.76	4.70	0.075	31.4	-190.6	0.30	tint white	16.28	
9:00	5	50	23.77	4.69	0.076	27.0	-195.7	0.31	Clear	16.29	
9:10	10	60	23.76	4.69	0.076	19.0	-205.2	0.30	Clear	16.29	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-3C Time Collected: 9:30 Comments:

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005

Station (Well No.): MW-4C WACS ID: 19911 Performed by: JE / JT

Field Conditions/Observations: Sunny, high humidity, mid 90's °F

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.80 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 72.52 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.25 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 3.45 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (72.52 - 14.80) x 0.16 = 9.24 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* 0.375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.95 gal

3 Well Equipment Volumes = 2.85 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1.1 gpm Purged Volume (actual): 77 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-4C Time Collected: 11:50

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): Cloudy

Final Values: Temp: 24.23 °C pH: 5.13 Conductivity: 0.125 mS/cm ORP: -183.4 mV

Salinity: _____ % Turbidity: 114 NTU DO: 0.31 mg/L Other: Turb. after filter 0.4 NTU

Filtered: ✓ Yes ___ No Filter Size: 1 µm Analysis Required: 8260, App I, Fe, Mg, Na, ANN, TDS, CHL, NO3, Dissolved metals

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 2 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug. 2005 Sampled By: JE/JT

Station (Well No.): MW-4C WACS ID: 19911 Purge Method: Pump ☑ Bailer ☐ Pump Type: V Submersible (__ Teflon ✓ SS __ Other) ___ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1.1 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Keck

Time @ Start of Purging: 10:30 Time @ End of Purging: 11:40 Total Purging Time: 1 hr 10 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

DTW 14.80

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
10:50	22	22	24.16	4.2	0.135	450.1	-169.7	0.42	light brown	18.19	
11:00	11	33	24.20	5.08	0.132	278	-169.4	0.36	light brown	18.26	
11:10	11	44	24.19	5.11	0.131	201	-174.8	0.33	light brown	18.27	
11:20	11	55	24.20	5.13	0.129	146	-175.7	0.37	light brown	18.28	
11:25	5.5	~~60~~ 60.5	24.21	5.12	0.129	127	-178.9	0.32	light brown	18.28	
11:30	5.5	66	24.20	5.12	0.129	117	-180.5	0.32	light brown	18.25	
11:~~35~~	5.5	71.5	24.20	5.12	0.128	112	-182.3	0.31	Cloudy	18.25	
11:40	5.5	77	24.23	5.13	0.125	114	-183.4	0.31	Cloudy	18.25	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-4C Time Collected: 11:50 Comments: Turbidity after filter is 0.4

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005

Station (Well No.): MW-5C WACS ID: 19914 Performed by: JE/ JT

Field Conditions/Observations: Sunny, High humidity, high 90's °F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 17.60 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.00 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.28 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.68 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.00 - 17.60) x 0.16 = 9 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 2.7 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 50 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-5C Time Collected: 14:30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear

Final Values: Temp: 24.35 °C pH: 4.30 Conductivity: 0.098 mS/cm ORP: -216.7 mV

Salinity: _____ % Turbidity: 3.02 NTU DO: 0.33 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, NH3, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass 4 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005 Sampled By: JE / JT

Station (Well No.): MW-5C WACS ID: 19914 Purge Method: Pump ☑ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 208 Water Level Meter: Keck

Time @ Start of Purging: 13:30 Time @ End of Purging: 14:20 Total Purging Time: 50 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

DTW 17.60

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
13:50	20	20	24.32	4.76	0.099	3.31	-137.2	1.50	Clear	18.26	
14:00	10	30	24.27	3.38	0.098	3.30	-128.5	0.46	Clear	18.26	
14:10	10	40	24.35	4.10	0.097	2.95	-186.9	0.36	Clear	18.28	
14:20	10	50	24.35	4.30	0.098	3.02	-216.7	0.33	Clear	18.28	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-5C Time Collected: 14:30 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005

Station (Well No.): MW-6C WACS ID: 19917 Performed by: JE / JT

Field Conditions/Observations: Sunny, High humid, Mid 90's °F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.33 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.16 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.14 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.19 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.16 - 15.33) x 0.16 = 9.25 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 2.7 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1.1 gpm Purged Volume (actual): 55 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-6C Time Collected: 1550

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): Clear

Final Values: Temp: 24.05 °C pH: 4.66 Conductivity: 0.057 mS/cm ORP: -188.1 mV

Salinity: _____ % Turbidity: 15.3 NTU DO: 0.87 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, Appendix I, Fe/Mg/Na/AMN/TDS/Chl. NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02AUG 2005 Sampled By: JE / JT

Station (Well No.): MW-6C WACS ID: 19917 Purge Method: Pump ☑ Bailer ☐ Pump Type: V Submersible (__ Teflon V SS __ Other) __ Peristaltic

Pump (Make & Model): ~~Grundfos~~ Grundfos Redi-flo2 Purge Rate: 1.1 gpm Water Quality Meter (Make & Model) YSI 206 Water Level Meter: Keck

Time @ Start of Purging: 14:50 Time @ End of Purging: 15:40 Total Purging Time: 50 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

DTW 15:37

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
15:00	11	11	24.03	4.79	0.057	29.3	-177.0	1.49	Clear	17.12	
15:10	11	22	24.05	4.76	0.057	23.1	-193.0	1.10	Clear	17.12	
15:20	11	33	24.04	4.74	0.057	29.1	-195.3	0.97	Clear	17.12	
15:30	11	44	24.08	4.68	0.058	18.5	-184.7	0.90	Clear	17.14	
15:40	11	55	24.05	4.66	0.057	15.3	-188.1	0.87	Clear	17.14	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-6C Time Collected: 15:50 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 02 AUG 2005

Station (Well No.): MW-7C WACS ID: 19920 Performed by: JE / JT

Field Conditions/Observations: Sunny, High humid, Mid 90's

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: √ Yes ___ No Well Cap: √ Yes ___ No Well Cap: √ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 16.56 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.33 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.23 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.67 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes √ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.33 - 16.56) x 0.16 = 9.08 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 6 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 27 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1.1 gpm Purged Volume (actual): 77 gallons Purge Water Contained? ___ Yes √ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes √ No

Sampling Method: ___ Bailer ___ Peristaltic Pump √ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-7C Time Collected: 17:40

QA Sample Collected (i.e., Blind Duplicate) ___ Yes _V_ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): Clear

Final Values: Temp: 23.76 °C pH: 4.61 Conductivity: 0.076 mS/cm ORP: -261.9 mV

Salinity: _____ % Turbidity: 19 NTU DO: 0.34 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, AMW, TDS, CHL, NO3

Sample Bottles Filled: ___ 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: √ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 02 Aug 2005 Sampled By: JE/JT

Station (Well No.): MW-7e WACS ID: 19920 Purge Method: Pump ☑ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi flo 2 Purge Rate: 1.1 gpm Water Quality Meter (Make & Model) YSI 260 Water Level Meter: keck

Time @ Start of Purging: 16:20 Time @ End of Purging: 1730 Total Purging Time: 70 min Depth of Pump or Intake Tubing: 67 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
16:40	22	22	23.82	3.99	0.073	44.1	-190.4	0.54	Clear	17.23	
16:50	11	33	23.78	4.63	0.075	34.3	-265.0	0.35	Clear	17.28	
17:00	11	44	23.78	4.66	0.075	33.7	-245.0	0.40	Clear	17.30	
17:10	11	55	23.77	4.62	0.075	27.5	-260.7	0.37	Clear	17.20	
17:20	11	66	23.77	4.63	0.075	24.3	-262.4	0.34	Clear	17.28	
17:30	11	77	23.76	4.61	0.073	19.0	-261.9	0.34	Clear	17.23	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-7e Time Collected: 17:40 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005

Station (Well No.): MW-8C WACS ID: 19923 Performed by: JE / JT

Field Conditions/Observations: High humidity, Mid 90s °F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.13 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.90 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.91 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.78 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.90 - 15.13) x 0.16 = 9.4 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well Equipment Volumes = 2.7 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 40 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump X Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-8C Time Collected: 09 : 40

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 23.97 °C pH: 4.416 Conductivity: 0.079 mS/cm ORP: -207.9 mV

Salinity: _____ % Turbidity: 7.44 NTU DO: 0.30 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Mn, Na, ANN, TDS, Cl, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1 L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005 Sampled By: JE / JT

Station (Well No.): MW-8C WACS ID: 19923 Purge Method: Pump ☑ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redflex 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 26° Water Level Meter: Keck

Time @ Start of Purging: 8:50 Time @ End of Purging: 0930 Total Purging Time: 40 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

DTW 15.13

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
9:10	20	20	23.98	4.48	0.060	7.02	-102.8	1.09	Clear	16.89	
9:20	10	30	23.96	4.46	0.062	8.94	-151.7	0.38	Clear	16.90	
9:25	5	35	23.96	4.49	0.079	9.73	-179.4	0.34	Clear	16.91	
9:30	5	40	23.97	4.46	0.079	7.44	-207.9	0.30	Clear	16.91	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-8C Time Collected: 09:40 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005

Station (Well No.): MW-9C WACS ID: 19926 Performed by: JE, JT

Field Conditions/Observations: high humidity / mid 90s °F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.32 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 77.76 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.80 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.48 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (77.76 - 15.32) x 0.16 = 9.35 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 2.7 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 40 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-9C Time Collected: [redacted] 11:30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 24.42 °C pH: 4.36 Conductivity: 0.070 mS/cm ORP: -249.7 mV

Salinity: _____ % Turbidity: 2.03 NTU DO: 0.33 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, As, TDS, CHL, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L Plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 AUG 2005 Sampled By: JE/JT

Station (Well No.): MW-9C WACS ID: 19926 Purge Method: Pump ☑ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 260 Water Level Meter: Kock

Time @ Start of Purging: 10:30 Time @ End of Purging: 11:10 Total Purging Time: 40 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

DTW 15.32

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
10:50	20	20	24.09	4.64	0.069	3.47	-145.3	0.56	Clear	16.80	
11:00	10	30	24.14	4.39	0.070	3.06	-249.7	0.35	Clear	16.80	
11:10	10	40	24.42	4.36	0.070	2.03	-249.7	0.33	Clear	16.80	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-9C Time Collected: 11:10 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 03 AUG 2005

Station (Well No.): MW-10C WACS ID: 19929 Performed by: JE/ JT

Field Conditions/Observations: high humidity, Mid 90's Tr

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 18.21 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.71 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 18.22 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.01 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.71 - 18.21) x 0.16 = 8.88 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 2.7 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 70 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW – 10C Time Collected: 15:30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 24.09 °C pH: 4.05 Conductivity: 0.073 mS/cm ORP: -246.9 mV

Salinity: _____ % Turbidity: 17.6 NTU DO: 0.33 mg/L Other: _____

Filtered: ___ Yes ✓ No Filter Size: _____ µm Analysis Required: B260, AppI, Fe, Hg, Na, AMW, TDS, CHL, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: AccuTest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 AUG 2005 Sampled By: JT/JE

Station (Well No.): MW-10C WACS ID: 199-9 Purge Method: Pump ☑ Bailer ☐ Pump Type: ☑ Submersible (☐ Teflon ☑ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-flo 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 260 Water Level Meter: Keck

Time @ Start of Purging: 14:10 Time @ End of Purging: 15:20 Total Purging Time: 1hr 10 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
14:30	20	20	24.13	3.51	0.073	49.8	-75.7	1.09	cloudy	18.21	
14:40	10	30	24.08	2.61	0.072	37.6	-119.0	0.36	cloudy	18.21	
14:50	10	40	24.09	2.94	0.073	29.3	-170.0	0.32	Clear	18.21	
15:00	10	50	24.08	3.50	0.073	24.6	-211.0	0.30	Clear	18.21	
15:10	10	60	24.09	3.96	0.071	19.5	-240.8	0.33	clear	18.22	
15:15	5	65	24.10	4.01	0.073	17.7	-244.7	0.33	Clear	18.22	
15:20	5	70	24.09	4.05	0.073	17.6	-246.9	0.35	Clear	18.22	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-10C Time Collected: 15:30 Comments:

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 03 Aug 2005

Station (Well No.): MW-11C WACS ID: 19932 Performed by: JE / JT

Field Conditions/Observations: high humid / mid 90°F

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 14.30 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 73.35 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 16.12 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.82 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (73.35 - 14.30) x 0.16 = 9.45 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 2.7 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 40 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-11C Time Collected: 16:30

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): _____

Final Values: Temp: 23.98 °C pH: 11.74 Conductivity: 0.158 mS/cm ORP: -168.7 mV

Salinity: _____ % Turbidity: 8.47 NTU DO: 0.34 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Mg, Mn, AMN, TDS, CH2, NO3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 03 AUG 2005 Sampled By: JE / JT

Station (Well No.): MW-11C WACS ID: 19932 Purge Method: Pump ☑ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi flos 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 260 Water Level Meter: KUCK

Time @ Start of Purging: 15:40 Time @ End of Purging: 1620 Total Purging Time: 40 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

DTW 14.30

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
16:00	20	20	23.96	4.60	0.160	10.7	-142.6	0.46	Clear	16.11	
16:10	10	30	23.93	4.56	0.143	9.71	-148.9	0.39	Clear	16.11	
16:20	10	40	23.98	4.74	0.158	8.47	-168.7	0.34	Clear	16.12	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-11C Time Collected: 16:36 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005

Station (Well No.): MW-12C WACS ID: 19935 Performed by: JE / JT

Field Conditions/Observations: high humidity / mid 90's / wind from North 5-10 MPH

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): No luck

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 17.12 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 33.57 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.14 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 0.02 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (33.57 - 17.12) x .16 = 9.03 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 2.7 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 40 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-12C Time Collected: 09:10

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): _____

Final Values: Temp: 24.14 °C pH: 4.410 Conductivity: 0.076 mS/cm ORP: -180.5 mV

Salinity: _____ % Turbidity: 129 NTU DO: 0.36 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Mg, Na, Alk, CHL, NO_3, TDS

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 AUG 2005 Sampled By: JE / JT

Station (Well No.): MW-12C WACS ID: 19935 Purge Method: Pump ✓ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 260 Water Level Meter: KECK

Time @ Start of Purging: 8:20 Time @ End of Purging: 9:00 Total Purging Time: 40 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
8:40	20	20	24.13	4.39	0.062	4.34	-131.6	0.50	Clear	17.14	
8:50	10	30	24.15	4.40	0.068	6.75	-161.1	0.39	Clear	17.14	
9:00	10	40	24.14	4.40	0.076	12.9	-180.5	0.36	Clear	17.14	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-12C Time Collected: 9:10 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005

Station (Well No.): MW-13C WACS ID: 19938 Performed by: JE / JT.

Field Conditions/Observations: high humidity / mid 90's °F / wind 5 - 10 mph

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: V Yes ___ No Well Cap: V Yes ___ No Well Cap: V Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 15.6 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 72.99 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 17.36 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 1.76 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes X No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (72.99 - 15.6) x .16 = 9.18 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 70 ft.)+ *(Fc)* 0.5 gal = 0.9 gal

3 Well/Equipment Volumes = 2.7 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 50 gallons Purge Water Contained? ___ Yes V No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes V No

Sampling Method: ___ Bailer ___ Peristaltic Pump V Submersible Pump Sample Rate: 0.10 gpm

Sample ID: MW-13C Time Collected: 1200

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 23.88 °C pH: 4.24 Conductivity: 0.074 mS/cm ORP: -275.2 mV

Salinity: _____ % Turbidity: 4.67 NTU DO: 0.37 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, As, I, Fe, Mg, Na, ANW, TDS, Chl, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic ___ 500 ml plastic ___ (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: V Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005 Sampled By: JE/JT

Station (Well No.): MW-13C WACS ID: 19938 Purge Method: Pump ✓ Bailer ☐ Pump Type: ✓ Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flo 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: KUCK

Time @ Start of Purging: 10:40 Time @ End of Purging: 1130 Total Purging Time: 70 min Depth of Pump or Intake Tubing: 68 ft. (BTOC)

DTW 15.6

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
11:00	20	20	24.01	2.22	0.075	8.94	-50.3	1.10	clear	17.31	
11:10	10	30	23.94	3.63	0.074	5.30	-225.5	0.37	clear	17.31	
11:20	10	40	23.90	4.15	0.074	4.62	-253.1	0.46	clear	17.36	
11:30	10	50	23.88	4.24	0.074	4.67	-275.2	0.37	clear	17.36	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-13C Time Collected: 12:00 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005

Station (Well No.): MW-14C WACS ID: 19941 Performed by: JE / JT

Field Conditions/Observations: high humidity, a lot of dust due to traffic on access road adjacent to the well.

Well Inspection:

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 5.66 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 62.23 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 7.80 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 2.14 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (62.23 - 5.66) x .16 = 9.05 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 65 ft.)+ *(Fc)* 0.5 gal = 0.87 gal

3 Well/Equipment Volumes = 2.61 gallons Purge Method: _X_ Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 70 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ___ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-14C Time Collected: 16:00

QA Sample Collected (i.e., Blind Duplicate) ___ Yes ✓ No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 29.88 °C pH: 4.34 Conductivity: 0.083 mS/cm ORP: -241.8 mV

Salinity: _____ % Turbidity: 17.3 NTU DO: 0.34 mg/L Other: _____

Filtered: ___ Yes _X_ No Filter Size: _____ µm Analysis Required: 8260, App. I, Fe, Hg, Na, Amm, TDS, Chl, NO_3

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005 Sampled By: JE. JT

Station (Well No.): MW-14C WACS ID: 19941 Purge Method: Pump ☑ Bailer ☐ Pump Type: V Submersible (__ Teflon ✓ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redi-flos 2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 260 Water Level Meter: keck

Time @ Start of Purging: 14:40 Time @ End of Purging: 15:50 Total Purging Time: 1hr 10min Depth of Pump or Intake Tubing: 60 ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
15:00	20	20	23.96	4.88	0.081	43.3	-147.9	1.60	clear	7.79	
15:10	10	30	23.88	2.11	0.082	29.0	-121.6	0.41	Clear	7.80	
15:20	10	40	23.86	3.43	0.083	49.0	-183.0	0.42	Clear	7.80	
15:30	10	50	23.83	3.96	0.083	36.3	-245	0.59	cloudy	7.80	
15:40	10	60	23.88	4.30	0.083	23.6	-238	0.36	clear	7.80	
15:45	5	65	23.87	4.31	0.082	17.4	-239.4	0.35	Clear	7.80	
15:50	5	70	23.88	4.34	0.083	17.3	-241.8	0.34	Clear	7.80	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-14C Time Collected: 16:00 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 04 AUG 2005

Station (Well No.): MW-15C WACS ID: 19944 Performed by: JE/ JT

Field Conditions/Observations: _____

Well Inspection:

Well Type: ___ Flush Mount X Stick Up ___ Other Well Size (ID): 2 in. ___ Steel X PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ✓ Yes ___ No Well Cap: ✓ Yes ___ No Well Cap: ✓ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): 5.7 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: 72.57 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): 13.95 ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: 8.25 ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: ___ Yes ✓ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (72.57 - 5.7) x .16 = 10.70 gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* 0 gal + (0.041 x *(D)* .375 in. x *(D)* .375 in. x *(L)* 65 ft.)+ *(Fc)* 0.5 gal = 0.87 gal

3 Well/Equipment Volumes = 2.61 gallons Purge Method: X Pump ___ Bailer Type: Submersible

Purge Rate: 1 gpm Purged Volume (actual): 35 gallons Purge Water Contained? ___ Yes ✓ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer ___ Peristaltic Pump ✓ Submersible Pump Sample Rate: 0.5 gpm

Sample ID: MW-15C Time Collected: 17:20

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): clear, no odor

Final Values: Temp: 23.98 °C pH: 4.08 Conductivity: 0.081 mS/cm ORP: -210.7 mV

Salinity: _____ % Turbidity: 2.5 NTU DO: 0.41 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App I, Fe, Hg, Na, Amn, TDS, CHL, NG

Sample Bottles Filled: 3 40 ml vials ___ 1 liter amber glass ___ 250 ml plastic 2 500 ml plastic 1 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: ✓ Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 AUG 2005 Sampled By: JE/JT

Station (Well No.): MW-15C WACS ID: 19944 Purge Method: Pump ☑ Bailer ☐ Pump Type: ☑ Submersible (__ Teflon ☑ SS __ Other) __ Peristaltic

Pump (Make & Model): Grundfos Redflo2 Purge Rate: 1 gpm Water Quality Meter (Make & Model) YSI 280 Water Level Meter: Kock

Time @ Start of Purging: 16:30 Time @ End of Purging: 17:05 Total Purging Time: 45 min Depth of Pump or Intake Tubing: 60 ft. (BTOC)

DTW 5.7

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
16:50	20	20	24.01	4.99	0.082	5.73	-187.9	0.66	Clear	14.7	
16:55	5	25	23.99	4.82	0.093	4.77	-188.9	0.60	Clear	14.3	
17:00	5	30	23.98	3.28	0.083	2.64	-198.5	0.49	Clear	13.95	
17:05	5	35	23.98	4.08	0.081	2.50	-210.7	0.41	Clear	13.95	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW-15C Time Collected: 15:20 / 17 Comments: _____

Well Inspection & Sampling Log

Site: Oak Hammock Disposal Facility (WACS Facility ID: 89544) Project No.: FQ 0709 Task: 01 Date: 26 July 2005

Station (Well No.): Leachate WACS ID: _____ Performed by: JE, JT

Field Conditions/Observations: ~95°F, humid, p. cloudy

Well Inspection: N/A

Well Type: ___ Flush Mount _X_ Stick Up ___ Other Well Size (ID): 2 in. ___ Steel _X_ PVC

Condition (locked, damaged, etc.): _____

Well Labeled: ___ Yes ___ No Well Cap: ___ Yes ___ No Well Cap: ___ Tight ___ Loose

Comments: _____
(If capped, remove and allow well to stabilize before recording water level)

Well Sampling: (Note: Measure Water Levels to Nearest 0.01ft)

Depth to Water (initial): NA ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth of Well: NA ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Depth to Water (final): NA ft. (measured from mark on top of riser pipe, otherwise measure from North side)

Draw down: NA ft. (Depth to Water (initial) – Depth to Water (final))

Free Product Thickness (if applicable): NA ft. OVM/PID Reading (if applicable): NA ppm.

Detectable Odor: X Yes ___ No **Note: NA = Not Applicable**

1 Well Volume (WV) = (depth of well – depth to water $_{(initial)}$) x well capacity = (_____ - _____) x _____ = _____ gal
Well Capacity (gal/ft): 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

1 Equipment Volume (EV)= P + (0.041D x D x L) + Fc
Where: P=Pump Volume (gal); D = Tubing Diameter (inches); L = Length of Tubing (ft); Fc = Flow Cell Volume (gal)
1 EV = *(P)* _____ gal + (0.041 x *(D)* _____ in. x *(D)* _____ in. x *(L)* _____ ft.)+ *(Fc)* _____ gal = _____ gal

3 Well/Equipment Volumes = NA gallons Purge Method: _X_ Pump ___ Bailer Type: _____

Purge Rate: NA gpm Purged Volume (actual): _____ gallons Purge Water Contained? ___ Yes ___ No

Container Used: ___ 55 Gallon Drum ___ Other (_____) Labeled: ___ Yes ___ No

Sampling Method: ___ Bailer X Peristaltic Pump ___ Submersible Pump Sample Rate: 0.09 gpm

Sample ID: Leachate Time Collected: 1740

QA Sample Collected (i.e., Blind Duplicate) ___ Yes X No QA Sample ID: _____

Sample Appearance (color, odor, etc.): yellow, strong odor

Final Values: Temp: 31.57 °C pH: 5.21 Conductivity: 6.45 mS/cm ORP: -85.2 mV

Salinity: _____ % Turbidity: 79.5 NTU DO: 4.84 mg/L Other: _____

Filtered: ___ Yes X No Filter Size: _____ µm Analysis Required: 8260, App II, Fe, Na, Hg, BOD, COD, TON, TOPO$_4$, SO$_4$, BTC, CHL, NI, TDS, 8141, 8151, 8081, 8082, 8270

Sample Bottles Filled: 3 40 ml vials 10 1 liter amber glass ___ 250 ml plastic 1 500 ml plastic 3 (1L plastic)

pH Verification of Preserved Samples: Analysis _____ Required pH <2 Measured pH _____

Laboratory Performing Analysis: Accutest

Method of Shipment: X Courier ___ FedEx (Airbill No. _____) ___ Other (_____)

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 26 July 2005 Sampled By: JE, JT

Station (Well No.): Leachate WACS ID: NA Purge Method: Pump ☒ Bailer ☐ Pump Type: __ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: 0.09 gpm Water Quality Meter (Make & Model) YSI 556 ~~Water Level Meter~~ Initial DTW: NA WLM: Keck

Time @ Start of Purging: NA Time @ End of Purging: _____ Total Purging Time: _____ Depth of Pump or Intake Tubing: NA ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1730			31.57	5.21	6.450	79.5	-85.2	4.84	yellow	NA	

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: Leachate Time Collected: 1740 Comments: _____

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 27 Jul 2005 Sampled By: JE, JT

Station (Well No.): Equipment Blank WACS ID: NA Purge Method: Pump ☒ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic

Pump (Make & Model): Geopump II Purge Rate: NA gpm Water Quality Meter (Make & Model) NA Water Level Meter: NA

Time @ Start of Purging: NA Time @ End of Purging: NA Total Purging Time: _____ Depth of Pump or Intake Tubing: NA ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
	collected samples for the following analyses										
		8260									
		Appendix I, Fe, Na, Hg									
		Ammonia									
		TDS, Chloride, Nitrate									

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: Equipment Blank Time Collected: 1610 Comments: _____

Monitoring Well Sampling

Site: Oak Hammock Disposal Facility (WACS Facility ID 89544) Project No.: FQ 0709 Task: 01 Date: 04 Aug 2005 Sampled By: JB, JT

Station (Well No.): Equipment Blank WACS ID: NA Purge Method: Pump ☒ Bailer ☐ Pump Type: ☒ Submersible (☐ Teflon ☒ SS ☐ Other) ☐ Peristaltic

Pump (Make & Model): Grundfos Redi-flo 2 Purge Rate: 0.05 gpm Water Quality Meter (Make & Model) NA Water Level Meter: NA

Time @ Start of Purging: — Time @ End of Purging: — Total Purging Time: — Depth of Pump or Intake Tubing: NA ft. (BTOC)

Time	Purge Volume (gal)	Cumulative Purge Volume (gal)	Temp (°C)	PH	Conductivity (mS/cm)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Color	Depth to Water (ft) BTOC	Comments
1700		collected containers for the following analyses									
		8260									
		Appendix I, Fe, Hg, Na									
		Ammonia									
		TDS, Chloride, Nitrate									

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: Equipment Blank (SB) Time Collected: 1700 Comments: _____

APPENDIX B

WATER QUALITY INSTRUMENT CALIBRATION FORMS

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 26 July 05

Instrument Make: YSI Instrument Model Number: 55C Instrument Serial Number: 04D7764 AL

Rental Company: GeoTech

Time: 11:00

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2410175	Oct 06	pH = 4.0	3.90	2.5%/0.1	± 0.2	Y	I	Jay EUN
2412383	Dec 06	pH = 7.0	7.06	0.06	0.2	Y	I	↓
2505293	Oct 06	pH = 10.0	10.16	0.16	0.2	Y	I	↓
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
* 5HC034	Jul 06	Conductivity = ~~.084~~ mS/cm						
5HD150	Jul 06	Conductivity = ~~.447~~ mS/cm						
	Per Table →	D.O. = mg/L @ °C						

Time:

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

* Having trouble w/cond. readings, unable to get w/in ± 3%. Contacted Geotech to verify they calibrated before leaving and both meters were (done by Chris at Geotech). Chris instructed me on re-calibrating conductivity. I recalibrated both meters and they are within allowable deviation at 0.447 mS/cm; However unable to get the meters w/in 3.0% at the 0.084 mS/cm range. JT

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 26 July 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 02H1305 AP

Rental Company: Geotech Turbidity meter: HACH Model 2100P #: 040500035921

Time: 12:00

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2-110175	Oct 06	pH = 4.0	4.00	0.0	± 0.2	Y	I	JT
2412383	Dec 06	pH = 7.0	7.16	0.16	↓	Y	I	↓
2505293	Oct 06	pH = 10.0	9.90	0.10	↓	Y	I	↓
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU ~~0.64~~	5.02					
		Turbidity = 10 NTU ~~5.6~~	46.1					
		Turbidity = 50 NTU ~~5.6~~	549					
5HC034	Jul 06	Conductivity = ~~84 mS~~ µS/cm	69	18%	± 3%	unable to get within ± 30% deviation at this range		
5HD150	Jul 06	Conductivity = ~~447 mS~~ µS/cm	380 *	15%	± 3%	yes*	initial	Joe Terry
	Per Table →	D.O. = mg/L @ °C						

* after instruction from Geotech recalibrated to 0.447 mS/c

Time:

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Project No.: FQ0709 Task: 01 Date: 27 July 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 04D7764AL

GeoTech # 979

Rental Company: GeoTech

Time: 0542

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2410175	OCT. 06	pH = 4.0	3.99	0.01	± 0.2	Y	C	JT
2412303	Dec. 06	pH = 7.0	7.09	0.09	± 0.2	Y	C	
2505293	OCT 06	pH = 10.0	10.18	0.18	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC0341	Jul 06	Conductivity = 0.084 mS	0.089	3.4%	3%	*		
5HD150	Jul 06	Conductivity = 0.447 mS	0.443	0.9%	3%	Y	C	
	Per Table →	D.O. = 8.188 mg/L @ 25.48°C	8.82	0.6	± 0.2 mg/L	No, recal'd +0 8.19	I	

Time: 0600 S/N 02H1305 AP GeoTech 206

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	4.00	0.00	±0.2	Y	C	JT
		pH = 7.0	7.03	0.03	± 0.2	Y	C	
		pH = 10.0	10.06	0.06	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = 0.084 mS	0.102	21%	± 3%	*		
		Conductivity = 0.447 mS	0.443	0.9%	± 3%	Y	C	
	Per Table →	D.O. = 8.233 mg/L @ 25.25°C	8.21	0.02 mg/L	± 0.2 mg/L	Y	C	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

* see cal record 26 July 2005

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 27 July 2005

Instrument Make: HACH Instrument Model Number: 2100P Instrument Serial Number: 04050C035921

Rental Company: GeoTech

Time: 0837

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 5.64 NTU	4.97	0.67 NTU				
		Turbidity = 10 NTU						
		Turbidity = 50 NTU	45.4	4.6 NTU				
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Time:

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0						
		pH = 7.0						
		pH = 10.0						
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = mS						
		Conductivity = mS						
	Per Table →	D.O. = mg/L @ °C						

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 28 July 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 04D7764 AC

Rental Company: GeoTech

Time: 0525 GeoTech # 979

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2410175	Oct06	pH = 4.0	3.93	0.07	± 0.2	Y	C	JT
2412303	Dec06	pH = 7.0	7.10	0.10	± 0.2	Y	C	
2505293	Oct06	pH = 10.0	10.13	0.13	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC034	Jul06	Conductivity = 1.413 mS	0.090	7.1%	± 3%	Y		
5HD150	Jul06	Conductivity = 1.447 mS	0.431	3.4%	± 3%	Y	C	
	Per Table →	D.O. = 8.188 mg/L @ 26.5 °C	8.19	0.002	± 0.2 mg/L	Y	C	

Time: 0545 02H1305 AP GeoTech # 206

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	4.05	0.05	± 0.2	Y	C	JT
		pH = 7.0	6.81	0.19	0.2	Y	C	
		pH = 10.0	9.91	0.09	0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = 1.413 mS	0.073	13.1%	± 3%	Y		
		Conductivity = 1.447 mS	0.452	1.1%	± 3%	Y	C	
	Per Table →	D.O. = 8.188 mg/L @ 25.50 °C	8.19	0.002	± 0.2 mg/L	Y	C	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Hach Turb Meter S/N 04050003592 time 5:50

Std. value	Inst. Response	difference
50.6	47.5	3.1 NTU
5.64	5.08	0.56 NTU

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 29 July 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 04D7764 AL

Rental Company: Geotech

Time: 0520 Geotech # 979

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2410175	Oct 06	pH = 4.0	3.94	0.06	± 0.2	Y	C	JT
2412303	Dec 06	pH = 7.0	7.13	0.13	± 0.2	Y	C	
2505293	Oct 06	pH = 10.0	10.11	0.11	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC034	Jul 06	Conductivity = 0.084 mS	0.089	6%	± 3%	*		
5HD150	Jul 06	Conductivity = 0.447 mS	0.427	4.5%	± 3%	Y	C	
	Per Table →	D.O. = 8.279 mg/L @ 24.9 °C	8.33	0.051 mg/L	± 0.2 mg/L	Y	C	

Time: 0530 S/N 02H1305 AP Geotech # 206

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	4.01	0.01	± 0.2	Y	C	JT
		pH = 7.0	6.89	0.11	± 0.2	Y	C	
		pH = 10.0	9.98	0.02	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = 0.084 mS	0.074	12%	± 3%	*		
		Conductivity = 0.447 mS	0.447	0%	± 3%	Y	C	
	Per Table →	D.O. = 8.279 mg/L @ 24.9 °C	8.28	0.001 mg/L	± 0.2 mg/L	Y	C	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Hach Turb meter S/N 04050035921 time 0545

Stnd.	response	difference
50.6	47.9	2.7 NTU
5.64	5.10	0.54 NTU

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 01 August 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 04D7764AL

Rental Company: Geotech

Time: 0530 Geotech # 979

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2410175	Oct. 06	pH = 4.0	3.90	0.10	± 0.2	Y	C	QT
2412303	Dec. 06	pH = 7.0	7.08	0.08	± 0.2	Y	C	
2505293	Oct. 06	pH = 10.0	10.14	0.14	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC0341	July 06	Conductivity = 0.084 mS	0.081	3.6%	± 3%	Y	C	
5H0180	July 06	Conductivity = 0.447 mS	0.431	3.6%	± 3%	Y	C	
	Per Table →	D.O. = 8.71 mg/L @ 22.2 °C	8.90	0.19 mg/L	± 0.2 mg/L	Y	C	

Time: 0545 02H1305AP Geotech #202

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	4.08	0.08	± 0.2	Y	C	QT
		pH = 7.0	7.00	0.00	± 0.2	Y	C	
		pH = 10.0	9.93	0.07	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = 0.084 mS	0.089	6%	± 3%	*		
		Conductivity = 0.447 mS	0.447	0.0%	± 3%	Y	C	
	Per Table →	D.O. = 8.71 mg/L @ 22.2 °C	~~8.90~~ 8.69 QT	0.02 mg/L	± 0.2 mg/L	Y	C	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

	STND	Response	
Hach	50.6	47.0	S/N 040500035921
	556	552	
Hanna	82.3	100	S/N 93703

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 02 Aug 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 04DT164AL

Rental Company: Geotech

Time: 0530

Geotech 979

Calibration Standard			Instrument Response	Percent Deviation(1) or Difference	Allowable Deviation(2)	Calibrated? Yes or No	Type of Calibration(3)	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2410175	Oct. 06	pH = 4.0	3.95	0.05	± 0.2	Y	C	JT
2412303	Dec. 06	pH = 7.0	7.13	0.13	± 0.2	Y	C	
2505293	Oct. 06	pH = 10.0	10.08	0.08	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC034	Jul-06	Conductivity = 0.084 mS	0.083	1.2%	± 3%	Y	C	
5HD150	Jul-06	Conductivity = 0.447 mS	JT 0.0460	3%	± 3%	Y	C	
	Per Table →	D.O. = 8.434 mg/L @ 23.9 °C	8.30	0.134 mg/L	± 0.2 mg/L	Y	C	

Time: 0535

Geotech #206

Calibration Standard			Instrument Response	Percent Deviation(1) or Difference	Allowable Deviation(2)	Calibrated? Yes or No	Type of Calibration(3)	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	4.01	0.01	± 0.2	Y	C	JT
		pH = 7.0	6.98	0.02	± 0.2	Y	C	
		pH = 10.0	9.97	0.03	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = 0.084 mS	0.080	4.8%	± 3%	*		
		Conductivity = 0.447 mS	JT 0.0460	3%	± 3%	Y	C	
	Per Table →	D.O. = 8.482 mg/L @ 23.6 °C	8.44	0.042 mg/L	± 0.2 mg/L	Y	C	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

	Sund	Response
Hach	50.6	48.0
S/N 0405000359 21	556	555

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 03 Aug. 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 04D 7764AL

Rental Company: Geotech

Time: 0520 Geotech # 979

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2411075	Oct. 06	pH = 4.0	3.97	0.03	± 0.2	Y	C	JT
24112305	Dec. 06	pH = 7.0	6.97	0.03	± 0.2	Y	C	
2805243	Oct. 06	pH = 10.0	10.01	0.01	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC034	Jul 06	Conductivity = ~~0.084~~ mS	0.079	6%	± 3%	+		
5HD150	Jul 06	Conductivity = ~~0.447~~ mS	0.459	2.7%	± 3%	Y	C	
	Per Table →	D.O. = ~~8.34~~ mg/L @ 21.8 °C	8.29	0.04 mg/L	± 0.2 mg/L	Y	C	

Time: 0540 02H1305 AP Geotech #206

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	3.95	0.05	± 0.2	Y	C	JT
		pH = 7.0	7.02	0.02	± 0.2	Y	C	
		pH = 10.0	9.98	0.02	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = ~~0.084~~ mS	0.082	2.4%	± 3%	Y	C	
		Conductivity = ~~0.447~~ mS	0.461	3%	± 3%	Y	C	
	Per Table →	D.O. = ~~8.34~~ mg/L @ 24.5 °C	8.25	0.09 mg/L	± 0.2 mg/L	Y	C	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

Hach Turbidimeter S/N 040500035921	Stnd	Response
	50.6	49.0
	556	555
	5.64	5.21

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 04 August 2005

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 0410 7764AL

Rental Company: Geotech Geotech #479

Time: 0550

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
2410775	Oct 06	pH = 4.0	3.99	0.01	± 0.2	Y	C	JT
24112303	Dec. 06	pH = 7.0	6.98	0.02	± 0.2	Y	C	
2505243	Oct. 06	pH = 10.0	10.01	0.01	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC034	Jul 06	Conductivity = 0.084 mS	0.078	7.1%	± 3%	*		
5HD150	Jul 06	Conductivity = 0.447 mS	0.449	0.45%	± 3%	Y	C	
	Per Table →	D.O. = 8.244 mg/L @ 24.8 °C	8.28	0.014 mg/L	± 0.2 mg/L	Y	C	

Time: 0610

SN 02H1305 AP
Geotech #206

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	4.00	0.0	± 0.2	Y	C	JT
		pH = 7.0	7.04	0.04	± 0.2	Y	C	
		pH = 10.0	10.01	0.01	± 0.2	Y	C	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = 0.084 mS	0.092	9.5%	± 3%	*		
		Conductivity = 0.447 mS	0.460	3%	± 3%	Y	C	
	Per Table →	D.O. = 8.341 mg/L @ 24.5 °C	8.28	0.06 mg/L	± 0.2 mg/L	Y	C	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100
Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L
Note (3): Initial, Continual, Final

Hach Turb. meter
S/N 04050003542I

Stnd	response
50.6	47.3
556	553
5.64	5.13

Field Instrument Calibration Record

Project Name: Oak Hammock Disposal Facility (WACS ID #89544) Project No.: FQ0709 Task: 01 Date: 04 August 2025

Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 04D7764AL

Rental Company: Geotech Geotech #979

Time: 2215

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
24110175	Oct-6	pH = 4.0	4.01	0.01	± 0.2	Y	C I	
24112303	Dec 6	pH = 7.0	7.00	0.0	± 0.2	Y	C I	
25052A3	Oct-6	pH = 10.0	9.89	0.11	± 0.2	Y	C I	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
5HC034	Jul 06	Conductivity = mS 0.084	0.076	9.5%	± 3%	*		
5HD150	Jul 06	Conductivity = mS 0.447	0.451	0.9%	± 3%	Y	C I	
	Per Table →	D.O. = 8.24 mg/L @ 24.8 °C	8.25	0.044 mg/L	± 0.2 mg/L	Y	C I	

Time: 2230 S/N 02H1305 AP Geotech # 206

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
		pH = 4.0	3.97	0.03	± 0.2	Y	C I	
		pH = 7.0	7.01	0.01	± 0.2	Y	C I	
		pH = 10.0	10.07	0.07	± 0.2	Y	C I	
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU						
		Turbidity = 10 NTU						
		Turbidity = 50 NTU						
		Conductivity = mS 0.084	0.089	6 %	± 3%	*		
		Conductivity = mS 0.447	0.457	2.2%	± 3%	Y	C I	
	Per Table →	D.O. = 8.30 mg/L @ 24.7 °C	8.31	0.02 mg/L	± 0.2 mg/L	Y	C I	

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 3 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L

Note (3): Initial, Continual, Final

Hach Turb Meter

S/N 04050C035921

Std	Response
5.64	5.53
50.6	48.2
556	554

APPENDIX C

CHAIN-OF-CUSTODY FORMS

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: GeoSyntec
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY: Tampa STATE: FL ZIP: 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ 0709.01
FAX #: 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	~~VOC~~ App I (VOC)	App I, FE, Hg, HRD	Unionized AMN, TPH, TN	TDS, CHL, NO3, TSS	COD	TOC	BOD					LAB USE ONLY
	SW-3	7-26-05	12:30	KW, JT	W	10						3	1	1	1	1	2	1					
	SW-4	7-26-05	11:40	" "	W	10						3	1	1	1	1	2	1					

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

Quote No. SB7/2005264

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	7-26-05/1315	1. [signature]	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C

CHAIN OF CUSTODY

ACCUTEST Laboratories

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

GeoSyntec
NAME
14055 Riveredge Dr., Suite 300
ADDRESS
Tampa FL 33637
CITY, STATE ZIP
Kirk Wills
SEND REPORT TO:
PHONE # 813-558-0990

FACILITY INFORMATION

Oak Hammock
PROJECT NAME
Osceola County
LOCATION
EQ0709
PROJECT NO.

FAX # 813-558-9726

ANALYTICAL INFORMATION

Chlorophyll a

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	Chlorophyll a	LAB USE ONLY
	SW-3	7-26-05	12:30	KW,ST	W	2						2	
	SW-4	" "	11:40	KW,ST	W	2						2	

DATA TURNAROUND INFORMATION

☒ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☒ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

Quote # 587/2005 264

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	7-26-05 1315	1. [signature]	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C

CHAIN OF CUSTODY

ACCUTEST Laboratories

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: GeoSyntec
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY: Tampa STATE: FL ZIP: 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: I-Q0709
FAX #: 813-558-9726

ANALYTICAL INFORMATION

8141	8151	8081	8082	8270
2	2	2	2	2

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE
	Leachate	7-26-05	1740	JT,JB	LIQ	10					

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

Quote No. SBT/2005-264

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	7-26-05 2320	1.	2.		2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE	TEMPERATURE
5.		5.		☐	☐	____ C

CHAIN OF CUSTODY

ACCUTEST Laboratories

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

GeoSyntec
NAME
14055 Riveredge Dr., Suite 300
ADDRESS
Tampa FL 33637
CITY, STATE ZIP
Kirk Wills
SEND REPORT TO:
PHONE # 813-558-0990

FACILITY INFORMATION

Oak Hammock
PROJECT NAME
Osceola County
LOCATION
FQ0709
PROJECT NO.

FAX # 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App II, Fe, Na, Hg	BOD	COD, TN, TPO4	SO4, BR, CHL, NO3, TDS	AMM	TDS, CHL, NO3	App I, Fe, Na, Hg
	Leachate	7-26-05	1740	JT JE	LIQ	3	X		X			3	1	1	1	1			
	MW-1A	7-26-05	1300	" "	GW	6	X		X	X		3	1				1	1	1
	MW-2A	7-26-05	1640	" "	GW	6	X		X	X		3	1				1	1	1

Correction made 7-27-05 JT

App III, Fe, Na, Hg for → Leachate

App I, Fe, Na, Hg for → MW-1A MW-2A

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

DATA TURNAROUND INFORMATION

☒ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☒ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

Quote No. 537/2005-264

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	7-26-05/2300	1.	2.		2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE _____ C
5.		5.				

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: GeoSyntec
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY, STATE, ZIP: Tampa FL 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ0709
FAX #: 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App I, Fe, Na, Hg	AMN	TDS, CHL, NO3	LAB USE ONLY
	MW-3A	7-27-05	0930	JE, JT	GW	6						3	1	1	1	
	MW-101A		0950		GW	6						3	1	1	1	
	MW-4A		1050		GW	6						3	1	1	1	
	MW-5A		1245		GW	6						3	1	1	1	
	MW-6A		1525		GW	6						3	1	1	1	
	MW-7A		1520		GW	6						3	1	1	1	
	Equipment Blank		1610		LIQ	6						3	1	1	1	

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

2 coolers (MW-7A and Equip. Blnk in small cooler)
Quote No. SB7/2005-264

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	7-27-05/2200	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY, STATE, ZIP: Tampa FL 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ0709
FAX #: 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App I, Fe, Hg, Na	AMN	TDS, CHL, NO3	LAB USE ONLY
	MW-8A	7-28-05	0940	JE, JT	GW	6						3	1	1	1	
	MW-9A	7-28-05	1040	↓	GW	6						3	1	1	1	
	MW-10A	7-28-05	1140	↓	GW	6						3	1	1	1	

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

Quote No. SB7/2005-264

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	7-28-05/1800	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C

CHAIN OF CUSTODY

ACCUTEST Laboratories

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY: Tampa STATE: FL ZIP: 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: I-Q0709
FAX #: 813-558-9726

ANALYTICAL INFORMATION

8260; App I, Fe, Hg, Na, Mn; TDS, Chl, NO3

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App I, Fe, Hg, Na, Mn	TDS, Chl, NO3	LAB USE ONLY
	MW-11A	7-28-05	1145	JE,ST	GW	6						3	1	1	
	MW-12A	7-28-05	1430	"	GW	6						3	1	1	
	MW-13A	7-28-05	1430	↓	GW	6						3	1	1	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Tarry	7-28-05/1800	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C

CHAIN OF CUSTODY

ACCUTEST Laboratories

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY: Tampa STATE: FL ZIP: 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County FL
PROJECT NO.: 20709
FAX #: 813-558-9726

ANALYTICAL INFORMATION

8260
App I, Fe, Hg, Na
Amm
TDS, Chl, NO3

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE		8260	App I, Fe, Hg, Na	Amm	TDS, Chl, NO3
	MW-14A	7-29-05	1030	JE,JT	GW	7							3	2	1	1
	MW-15A	↓		↓	↓	6							3	1	1	1
	MW-15B	↓		↓	↓	6							3	1	1	1

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

MW-14A has bottles for unfiltered and filtered App I, Fe, Hg, Na analysis

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	7-29-05 1414	1.	2.		2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C
5.		5.			

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec Consultants
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY, STATE, ZIP: Tampa FL 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ0709
FAX #: 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App I, Fe, Hg, Na	AMN	TDS, CHL, NO3	Dissolved Metals	LAB USE ONLY
	MW-1B	8-1-05	1100	JBJT	GW	6	3		1	1	1	3	1	1	1		
	MW-1C	↓	1130	↓	GW	6	3		1	1	1	3	1	1	1		
	MW-2B	↓	1345	↓	GW	7	3		2	1	1	3	1	1	1	1	
	MW-2C	↓	1340	↓	GW	6	3		1	1	1	3	1	1	1		

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	8-1-05/1830	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

CHAIN OF CUSTODY

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ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec Consultants

ADDRESS: 14055 Riveredge Dr., Suite 300

CITY: Tampa STATE: FL ZIP: 33637

SEND REPORT TO: Kirk Wills

PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock

LOCATION: Osceola County

PROJECT NO.: FLQ0709

FAX #: 813-558-9726

ANALYTICAL INFORMATION

8260
App I, Fe, Hg, Na
AMN
TDS, CHL, NO_3
Dissolved Metals

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App I, Fe, Hg, Na	AMN	TDS, CHL, NO_3	Dissolved Metals
	MW-3B	8-2-05	09:25	JE/JT	GW		3		2	1	1	3	1	1	1	1
	MW-3C		09:30		GW		3		1	1	1	3	1	1	1	
	MW-4B		11:20		GW		3		1	1	1	3	1	1	1	
	MW-4C		11:50		GW		3		2	1	1	3	1	1	1	1
	MW-5B		14:20		GW		3		1	1	1	3	1	1	1	
	MW-102C		09:50		GW		3		1	1	1	3	1	1	1	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	8-2-05/21:30	1.	2.		2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE ____ C
5.		5.				

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec Consultants
ADDRESS: 14055 Riverdge Dr., Suite 300
CITY, STATE, ZIP: Tampa FL 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ0709
FAX #: kwills@geosyntec.com 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App I, Fe, Hg, Na	AMN	TDS, CHL, NO3	Dissolved Metals	LAB USE ONLY
	MW-6B	8.2.05	1555	JE,JT	GW	7	3		2	1	1	3	1	1	1	1	
	MW-6C	↓	1550	↓	↓	6	3		1	1	1	3	1	1	1		
	MW-7B	↓	1740	↓	↓	7	3		2	1	1	3	1	1	1	1	
	MW-7C	↓	1740	↓	↓	6	3		1	1	1	3	1	1	1		
	MW-5C	↓	1430	↓	↓	6	3		1	1	1	3	1	1	1		

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	8.2.05/2130	1.	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec Consultants
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY, STATE, ZIP: Tampa FL 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ0709
FAX #: kwills@geosyntec.com 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE		8260	App I, Fe, Hg, Na	AMN	TDS, CHL, NO3	Dissolved Metals							LAB USE ONLY
	MW-8B	8-3-05	1020	JE,JT	GW	7	3		2	1	1		3	1	1	1	1							
	MW-8C	↓	0940	↓	↓	6	3		1	1	1		3	1	1	1								
	MW-9B	↓	1240	↓	↓	7	3		2	1	1		3	1	1	1	1							
	MW-9C	↓	1130	↓	↓	6	3		1	1	1		3	1	1	1								

MATRIX CODES

DW - DRINKING WATER
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SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	8-3-05/2200	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C

ACCUTEST Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec Consultants
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY, STATE, ZIP: Tampa FL 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ0709
FAX #: kwills@geosyntec.com
813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE		8260	App I, Fe, Hg, Na	AMW	TDS, CHL, NO3	LAB USE ONLY
	MW-10B	8-3-05		JE, JT	GW	6	3		1	1	1		3	1	1	1	
	MW-10C	↓		↓	↓	6	3		1	1	1		3	1	1	1	
	MW-11B	↓		↓	↓	6	3		1	1	1		3	1	1	1	
	MW-11C	↓		↓	↓	6	3		1	1	1		3	1	1	1	

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	8-3-05/2200	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C

CHAIN OF CUSTODY

ACCUTEST Laboratories

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #: 587 / 2005-264

CLIENT INFORMATION

GeoSyntec Consultants

NAME 14055 Riveredge Dr. Suite 300

ADDRESS Tampa, FL 33637

CITY, Kirk Wills STATE ZIP

SEND REPORT TO: 813-558-0990
PHONE #

FACILITY INFORMATION

Oak Hammock

PROJECT NAME Osceola County

LOCATION FA 08709

PROJECT NO. kwills@geosyntec.com

FAX # 813-558-9726

ANALYTICAL INFORMATION

8260 App I, Fe, Hg, Na AMN, TDS, Cl, NO_3, Dissolved Metals

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO_3	H_2SO_4	NONE	8260	App I, Fe, Hg, Na	AMN	TDS, Cl, NO_3	Dissolved Metals
	MW-12B	8/4/05	10:25	JE/JT	GW	7	3		2	1	1	3	1	1	1	1
	MW-12C		09:10			6	3		1	1	1	3	1	1	1	
	MW-15C		17:20			6	3		1	1	1	3	1	1	1	
	Equipment Blank		17:00			6	3		1	1	1	3	1	1	1	

DATA TURNAROUND INFORMATION

☐ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	8/4/05, 22:00	1.	2.		2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE _____ C
5.		5.				

ACCUTEST Laboratories

CHAIN OF CUSTODY

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ORLANDO, FL 32811
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ACCUTEST JOB #:

ACCUTEST QUOTE #: SB7/2005-264

CLIENT INFORMATION

NAME: GeoSyntec Consultants
ADDRESS: 14055 Riveredge Dr., Suite 300
CITY, STATE, ZIP: Tampa FL 33637
SEND REPORT TO: Kirk Wills
PHONE #: 813-558-0990

FACILITY INFORMATION

PROJECT NAME: Oak Hammock
LOCATION: Osceola County
PROJECT NO.: FQ0709
FAX #: kwills@geosyntec.com 813-558-9726

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	8260	App I, Fe, Hg, Na	AMN	TDS, CHL, NO3	Dissolved Metals	LAB USE ONLY
	MW-13B	8-4-05	1230	JE, JT	GW	7	3		2	1	1	3	1	1	1	1	
	MW-13C	↓	1200	↓	↓	6	3		1	1	1	3	1	1	1		
	MW-14B	↓	1545	↓	↓	7	3		2	1	1	3	1	1	1	1	
	MW-14C	↓	1600	↓	↓	6	3		1	1	1	3	1	1	1		

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [x] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Joe Terry	8-4-05/2130	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

APPENDIX D

ACCUTEST-ORLANDO CERTIFICATIONS

State of Florida
Department of Health, Bureau of Laboratories

This is to certify that

E83510

Southeast Laboratories Southeast, Inc.

1499 Vineland Road, Suite C-15

Orlando, FL 32811

is approved under Florida Administrative Code 64E-1, for the examination of Environmental samples in the following categories:

Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Synthetic Organic Contaminants

Extractable Organics, General Chemistry, Metals, Pesticides-Herbicides-PCB's, Volatile Organics

SOLID AND CHEMICAL MATERIALS - Extractable Organics, General Chemistry, Metals, Pesticides-Herbicides-PCB's, Volatile Organics

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

EFFECTIVE JULY 1, 2005 **THROUGH JUNE 30, 2006**

Ming S. Chan, Ph.D.
Bureau Chief, Bureau of Laboratories
Florida Department of Health
DH Form 1697, 7/04
NON-TRANSFERABLE 06/28/2005-E83510

Laboratory Scope of Accreditation

THIS LISTING OF ACCREDITED ANALYTES SHOULD BE USED ONLY WHEN ASSOCIATED WITH A VALID CERTIFICATE

State Laboratory ID: E83510 **EPA Lab Code:** FL00946 (407) 425-6700

E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Drinking Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1	Synthetic Organic Contaminants	NELAP	9/6/2002
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504.1	Synthetic Organic Contaminants	NELAP	9/6/2002
Arsenic	EPA 200.7	Primary Inorganic Contaminants	NELAP	4/1/2003
Barium	EPA 200.7	Primary Inorganic Contaminants	NELAP	4/1/2003
Cadmium	EPA 200.7	Primary Inorganic Contaminants	NELAP	4/1/2003
Chromium	EPA 200.7	Primary Inorganic Contaminants	NELAP	4/1/2003
Copper	EPA 200.7	Primary Inorganic Contaminants	NELAP	4/1/2003
Mercury	EPA 245.1	Primary Inorganic Contaminants	NELAP	4/1/2003
Nickel	EPA 200.7	Primary Inorganic Contaminants	NELAP	4/1/2003
Perchlorate	EPA 314.0	Secondary Inorganic Contaminants	NELAP	2/3/2003

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E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,1-Trichloroethane	EPA 601	Volatile Organics	NELAP	4/10/2002
1,1,1-Trichloroethane	EPA 624	Volatile Organics	NELAP	4/10/2002
1,1,1-Trichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2,2-Tetrachloroethane	EPA 601	Volatile Organics	NELAP	4/10/2002
1,1,2,2-Tetrachloroethane	EPA 624	Volatile Organics	NELAP	4/10/2002
1,1,2,2-Tetrachloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2-Trichloro-1,2,2-trifluoroethane	ALS MS 005.2	Volatile Organics	NELAP	7/23/2004
1,1,2-Trichloroethane	EPA 601	Volatile Organics	NELAP	4/10/2002
1,1,2-Trichloroethane	EPA 624	Volatile Organics	NELAP	4/10/2002
1,1,2-Trichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethane	EPA 601	Volatile Organics	NELAP	4/10/2002
1,1-Dichloroethane	EPA 624	Volatile Organics	NELAP	4/10/2002
1,1-Dichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethylene	EPA 601	Volatile Organics	NELAP	4/10/2002
1,1-Dichloroethylene	EPA 624	Volatile Organics	NELAP	4/10/2002
1,1-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 625	Extractable Organics	NELAP	4/10/2002
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504	Volatile Organics	NELAP	4/10/2002
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504	Volatile Organics	NELAP	4/10/2002
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 601	Volatile Organics	NELAP	4/10/2002

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State Laboratory ID: E83510 **EPA Lab Code: FL00946** **(407) 425-6700**

E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,2-Dichlorobenzene	EPA 602	Volatile Organics	NELAP	4/10/2002
1,2-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	4/10/2002
1,2-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	4/10/2002
1,2-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2-Dichloroethane	EPA 601	Volatile Organics	NELAP	4/10/2002
1,2-Dichloroethane	EPA 624	Volatile Organics	NELAP	4/10/2002
1,2-Dichloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichloropropane	EPA 601	Volatile Organics	NELAP	4/10/2002
1,2-Dichloropropane	EPA 624	Volatile Organics	NELAP	4/10/2002
1,2-Dichloropropane	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330	Extractable Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 601	Volatile Organics	NELAP	4/10/2002
1,3-Dichlorobenzene	EPA 602	Volatile Organics	NELAP	4/10/2002
1,3-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	4/10/2002
1,3-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	4/10/2002
1,3-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dinitrobenzene (1,3-DNB)	EPA 8330	Extractable Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 601	Volatile Organics	NELAP	4/10/2002
1,4-Dichlorobenzene	EPA 602	Volatile Organics	NELAP	4/10/2002
1,4-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	4/10/2002
1,4-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	4/10/2002
1,4-Dichlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Accutest Laboratories Southeast, Inc.
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Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
2,4,6-Trichlorophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330	Extractable Organics	NELAP	7/1/2003
2,4-Dichlorophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dimethylphenol	EPA 625	Extractable Organics	NELAP	4/10/2002
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 625	Extractable Organics	NELAP	4/10/2002
2,4-Dinitrotoluene (2,4-DNT)	EPA 8091	Extractable Organics	NELAP	3/1/2005
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 8330	Extractable Organics	NELAP	3/1/2005
2,6-Dinitrotoluene (2,6-DNT)	EPA 625	Extractable Organics	NELAP	4/10/2002
2,6-Dinitrotoluene (2,6-DNT)	EPA 8091	Extractable Organics	NELAP	3/1/2005
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 8330	Extractable Organics	NELAP	3/1/2005
2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330	Extractable Organics	NELAP	7/1/2003
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloroethyl vinyl ether	EPA 601	Volatile Organics	NELAP	4/10/2002
2-Chloroethyl vinyl ether	EPA 624	Volatile Organics	NELAP	4/10/2002
2-Chloroethyl vinyl ether	EPA 8021	Volatile Organics	NELAP	7/1/2003
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloronaphthalene	EPA 625	Extractable Organics	NELAP	4/10/2002
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Hexanone	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Methyl-4,6-dinitrophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitrophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003

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E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
2-Nitropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	7/1/2003
3,3'-Dichlorobenzidine	EPA 625	Extractable Organics	NELAP	4/10/2002
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
3-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	7/1/2003
4,4'-DDD	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDE	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDT	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330	Extractable Organics	NELAP	7/1/2003
4-Bromophenyl phenyl ether	EPA 625	Extractable Organics	NELAP	4/10/2002
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloro-3-methylphenol	EPA 625	Extractable Organics	NELAP	4/10/2002
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorophenyl phenylether	EPA 625	Extractable Organics	NELAP	4/10/2002
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Methylphenol (p-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitrophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 610	Extractable Organics	NELAP	4/10/2002
Acenaphthene	EPA 625	Extractable Organics	NELAP	4/10/2002
Acenaphthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Acenaphthylene	EPA 610	Extractable Organics	NELAP	4/10/2002
Acenaphthylene	EPA 625	Extractable Organics	NELAP	4/10/2002
Acenaphthylene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Acenaphthylene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Acetone	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetophenone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acrolein (Propenal)	EPA 624	Volatile Organics	NELAP	2/3/2003
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acrylonitrile	EPA 624	Volatile Organics	NELAP	2/3/2003
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Aldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Alkalinity as CaCO3	EPA 310.1	General Chemistry	NELAP	4/10/2002
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aluminum	EPA 200.7	Metals	NELAP	4/10/2002
Aluminum	EPA 6010	Metals	NELAP	7/1/2003
Ammonia as N	EPA 350.2	General Chemistry	NELAP	4/10/2002
Aniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 610	Extractable Organics	NELAP	4/10/2002
Anthracene	EPA 625	Extractable Organics	NELAP	4/10/2002
Anthracene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Antimony	EPA 200.7	Metals	NELAP	4/10/2002
Antimony	EPA 6010	Metals	NELAP	7/1/2003
Aroclor-1016 (PCB-1016)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1221 (PCB-1221)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1232 (PCB-1232)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1242 (PCB-1242)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1248 (PCB-1248)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1254 (PCB-1254)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1260 (PCB-1260)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002

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E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Arsenic	EPA 200.7	Metals	NELAP	4/10/2002
Arsenic	EPA 6010	Metals	NELAP	4/10/2002
Barium	EPA 200.7	Metals	NELAP	4/10/2002
Barium	EPA 6010	Metals	NELAP	7/1/2003
Benzene	EPA 602	Volatile Organics	NELAP	4/10/2002
Benzene	EPA 624	Volatile Organics	NELAP	4/10/2002
Benzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Benzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Benzidine	EPA 625	Extractable Organics	NELAP	4/10/2002
Benzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)anthracene	EPA 610	Extractable Organics	NELAP	4/10/2002
Benzo(a)anthracene	EPA 625	Extractable Organics	NELAP	4/10/2002
Benzo(a)anthracene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)anthracene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 610	Extractable Organics	NELAP	4/10/2002
Benzo(a)pyrene	EPA 625	Extractable Organics	NELAP	4/10/2002
Benzo(a)pyrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 610	Extractable Organics	NELAP	4/10/2002
Benzo(b)fluoranthene	EPA 625	Extractable Organics	NELAP	4/10/2002
Benzo(b)fluoranthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 610	Extractable Organics	NELAP	4/10/2002
Benzo(g,h,i)perylene	EPA 625	Extractable Organics	NELAP	4/10/2002
Benzo(g,h,i)perylene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 610	Extractable Organics	NELAP	4/10/2002
Benzo(k)fluoranthene	EPA 625	Extractable Organics	NELAP	4/10/2002
Benzo(k)fluoranthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 8310	Extractable Organics	NELAP	7/1/2003

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State Laboratory ID: E83510 **EPA Lab Code: FL00946** **(407) 425-6700**

E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzoic acid	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Beryllium	EPA 200.7	Metals	NELAP	4/10/2002
Beryllium	EPA 6010	Metals	NELAP	7/1/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Biochemical oxygen demand	EPA 405.1	General Chemistry	NELAP	4/10/2002
bis(2-Chloroethoxy)methane	EPA 625	Extractable Organics	NELAP	4/10/2002
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Chloroethyl) ether	EPA 625	Extractable Organics	NELAP	4/10/2002
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Chloroisopropyl) ether	EPA 625	Extractable Organics	NELAP	4/10/2002
bis(2-Chloroisopropyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 625	Extractable Organics	NELAP	4/10/2002
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Bromide	EPA 300.0	General Chemistry	NELAP	4/10/2002
Bromide	EPA 9056	General Chemistry	NELAP	7/1/2003
Bromobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromodichloromethane	EPA 601	Volatile Organics	NELAP	4/10/2002
Bromodichloromethane	EPA 624	Volatile Organics	NELAP	4/10/2002
Bromodichloromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromoform	EPA 601	Volatile Organics	NELAP	4/10/2002
Bromoform	EPA 624	Volatile Organics	NELAP	4/10/2002
Bromoform	EPA 8021	Volatile Organics	NELAP	7/1/2003
Bromoform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Butyl benzyl phthalate	EPA 625	Extractable Organics	NELAP	4/10/2002
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Cadmium	EPA 200.7	Metals	NELAP	4/10/2002
Cadmium	EPA 6010	Metals	NELAP	4/10/2002
Calcium	EPA 200.7	Metals	NELAP	4/10/2002
Calcium	EPA 6010	Metals	NELAP	7/1/2003
Carbazole	EPA 8270	Extractable Organics	NELAP	7/1/2003
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbon tetrachloride	EPA 601	Volatile Organics	NELAP	4/10/2002

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Carbon tetrachloride	EPA 624	Volatile Organics	NELAP	4/10/2002
Carbon tetrachloride	EPA 8021	Volatile Organics	NELAP	7/1/2003
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	4/10/2002
Chemical oxygen demand	EPA 410.1	General Chemistry	NELAP	4/10/2002
Chlordane (tech.)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chloride	EPA 300.0	General Chemistry	NELAP	4/10/2002
Chloride	EPA 9056	General Chemistry	NELAP	7/1/2003
Chlorobenzene	EPA 601	Volatile Organics	NELAP	4/10/2002
Chlorobenzene	EPA 602	Volatile Organics	NELAP	4/10/2002
Chlorobenzene	EPA 624	Volatile Organics	NELAP	4/10/2002
Chlorobenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroethane	EPA 601	Volatile Organics	NELAP	4/10/2002
Chloroethane	EPA 624	Volatile Organics	NELAP	4/10/2002
Chloroethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Chloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroform	EPA 601	Volatile Organics	NELAP	4/10/2002
Chloroform	EPA 624	Volatile Organics	NELAP	4/10/2002
Chloroform	EPA 8021	Volatile Organics	NELAP	7/1/2003
Chloroform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chromium	EPA 200.7	Metals	NELAP	4/10/2002
Chromium	EPA 6010	Metals	NELAP	4/10/2002
Chromium VI	EPA 7196	Metals	NELAP	7/1/2003
Chrysene	EPA 610	Extractable Organics	NELAP	4/10/2002
Chrysene	EPA 625	Extractable Organics	NELAP	4/10/2002
Chrysene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Chrysene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Chrysene	EPA 8310	Extractable Organics	NELAP	7/1/2003
cis-1,2-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	7/1/2003
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
cis-1,3-Dichloropropene	EPA 601	Volatile Organics	NELAP	4/10/2002
cis-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	4/10/2002
cis-1,3-Dichloropropene	EPA 8021	Volatile Organics	NELAP	7/1/2003
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Cobalt	EPA 200.7	Metals	NELAP	4/10/2002
Cobalt	EPA 6010	Metals	NELAP	7/1/2003
Color	EPA 110.2	General Chemistry	NELAP	4/10/2002
Conductivity	EPA 120.1	General Chemistry	NELAP	5/2/2005
Copper	EPA 200.7	Metals	NELAP	4/10/2002
Copper	EPA 6010	Metals	NELAP	4/10/2002
Corrosivity (pH)	EPA 9040	General Chemistry	NELAP	7/1/2003
Cyanide	EPA 335.2	General Chemistry	NELAP	4/10/2002
delta-BHC	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dibenz(a,h) anthracene	EPA 610	Extractable Organics	NELAP	4/10/2002
Dibenz(a,h) anthracene	EPA 625	Extractable Organics	NELAP	4/10/2002
Dibenz(a,h) anthracene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Dibenz(a,h) anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibenz(a,h) anthracene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibromochloromethane	EPA 601	Volatile Organics	NELAP	4/10/2002
Dibromochloromethane	EPA 624	Volatile Organics	NELAP	4/10/2002
Dibromochloromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dibromomethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dichlorodifluoromethane	EPA 601	Volatile Organics	NELAP	4/10/2002
Dichlorodifluoromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dieldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	7/1/2003
Diesel range organics (DRO)	MA-EPH	Extractable Organics	NELAP	7/1/2003
Diethyl phthalate	EPA 625	Extractable Organics	NELAP	4/10/2002
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dimethyl phthalate	EPA 625	Extractable Organics	NELAP	4/10/2002
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-n-butyl phthalate	EPA 625	Extractable Organics	NELAP	4/10/2002
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-n-octyl phthalate	EPA 625	Extractable Organics	NELAP	4/10/2002
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Endosulfan I	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan II	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan sulfate	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin aldehyde	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Ethylbenzene	EPA 602	Volatile Organics	NELAP	4/10/2002
Ethylbenzene	EPA 624	Volatile Organics	NELAP	4/10/2002
Ethylbenzene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Fluoranthene	EPA 610	Extractable Organics	NELAP	4/10/2002
Fluoranthene	EPA 625	Extractable Organics	NELAP	4/10/2002
Fluoranthene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluoranthene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Fluorene	EPA 610	Extractable Organics	NELAP	4/10/2002
Fluorene	EPA 625	Extractable Organics	NELAP	4/10/2002
Fluorene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Fluorene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluorene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Fluoride	EPA 300.0	General Chemistry	NELAP	4/10/2002
Fluoride	EPA 9056	General Chemistry	NELAP	7/1/2003
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	7/1/2003
Gasoline range organics (GRO)	MA-VPH	Extractable Organics	NELAP	7/1/2003
Hardness	SM 2340 B	Metals	NELAP	1/24/2003
Heptachlor	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Heptachlor epoxide	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003

Laboratory Scope of Accreditation

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
Hexachlorobenzene	EPA 625	Extractable Organics	NELAP	4/10/2002
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 625	Extractable Organics	NELAP	4/10/2002
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorocyclopentadiene	EPA 625	Extractable Organics	NELAP	4/10/2002
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachloroethane	EPA 625	Extractable Organics	NELAP	4/10/2002
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	7/1/2003
Ignitability	EPA 1010	General Chemistry	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 610	Extractable Organics	NELAP	4/10/2002
Indeno(1,2,3-cd)pyrene	EPA 625	Extractable Organics	NELAP	4/10/2002
Indeno(1,2,3-cd)pyrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Iron	EPA 200.7	Metals	NELAP	4/10/2002
Iron	EPA 6010	Metals	NELAP	7/1/2003
Isophorone	EPA 625	Extractable Organics	NELAP	4/10/2002
Isophorone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Isopropyl ether	ALS MS 005.2	Volatile Organics	NELAP	7/23/2004
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Kjeldahl nitrogen - total	EPA 351.3	General Chemistry	NELAP	4/10/2002
Lead	EPA 200.7	Metals	NELAP	4/10/2002
Lead	EPA 6010	Metals	NELAP	4/10/2002
Magnesium	EPA 200.7	Metals	NELAP	4/10/2002
Magnesium	EPA 6010	Metals	NELAP	7/1/2003
Manganese	EPA 200.7	Metals	NELAP	4/10/2002
Manganese	EPA 6010	Metals	NELAP	7/1/2003
Mercury	EPA 245.1	Metals	NELAP	4/10/2002
Mercury	EPA 7470	Metals	NELAP	4/10/2002
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methyl bromide (Bromomethane)	EPA 601	Volatile Organics	NELAP	4/10/2002
Methyl bromide (Bromomethane)	EPA 624	Volatile Organics	NELAP	4/10/2002
Methyl bromide (Bromomethane)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Methyl chloride (Chloromethane)	EPA 601	Volatile Organics	NELAP	4/10/2002
Methyl chloride (Chloromethane)	EPA 624	Volatile Organics	NELAP	4/10/2002
Methyl chloride (Chloromethane)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl tert-butyl ether (MTBE)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methylene chloride	EPA 601	Volatile Organics	NELAP	4/10/2002
Methylene chloride	EPA 624	Volatile Organics	NELAP	4/10/2002
Methylene chloride	EPA 8021	Volatile Organics	NELAP	7/1/2003
Methylene chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Molybdenum	EPA 200.7	Metals	NELAP	4/10/2002
Molybdenum	EPA 6010	Metals	NELAP	4/10/2002
Naphthalene	EPA 610	Extractable Organics	NELAP	4/10/2002
Naphthalene	EPA 625	Extractable Organics	NELAP	4/10/2002
Naphthalene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Naphthalene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Naphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Naphthalene	EPA 8310	Extractable Organics	NELAP	7/1/2003
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Nickel	EPA 200.7	Metals	NELAP	4/10/2002
Nickel	EPA 6010	Metals	NELAP	4/10/2002
Nitrate	EPA 9056	General Chemistry	NELAP	7/1/2003
Nitrate as N	EPA 300.0	General Chemistry	NELAP	4/10/2002
Nitrate-nitrite	EPA 300.0	General Chemistry	NELAP	4/10/2002
Nitrite	EPA 9056	General Chemistry	NELAP	7/1/2003
Nitrite as N	EPA 300.0	General Chemistry	NELAP	4/10/2002
Nitrite as N	EPA 354.1	General Chemistry	NELAP	4/10/2002
Nitrobenzene	EPA 625	Extractable Organics	NELAP	4/10/2002
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Nitrobenzene	EPA 8330	Extractable Organics	NELAP	7/1/2003
Nitroglycerin	EPA 8332	Extractable Organics	NELAP	7/1/2003
n-Nitrosodimethylamine	EPA 625	Extractable Organics	NELAP	4/10/2002
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodi-n-propylamine	EPA 625	Extractable Organics	NELAP	4/10/2002
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiphenylamine	EPA 625	Extractable Organics	NELAP	4/10/2002

Laboratory Scope of Accreditation

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Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330	Extractable Organics	NELAP	7/1/2003
Oil & Grease	EPA 1664	General Chemistry	NELAP	9/8/2003
Oil & Grease	EPA 9070	General Chemistry	NELAP	7/1/2003
Organic nitrogen	EPA 351.3 - EPA 350.2	General Chemistry	NELAP	4/10/2002
Orthophosphate as P	EPA 365.3	General Chemistry	NELAP	4/10/2002
p-Dioxane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Pentachlorophenol	EPA 625	Extractable Organics	NELAP	4/10/2002
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Perchlorate	EPA 314.0	General Chemistry	NELAP	4/9/2003
pH	EPA 150.1	General Chemistry	NELAP	4/10/2002
pH	EPA 9040	General Chemistry	NELAP	7/1/2003
Phenanthrene	EPA 610	Extractable Organics	NELAP	4/10/2002
Phenanthrene	EPA 625	Extractable Organics	NELAP	4/10/2002
Phenanthrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Phenanthrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phenanthrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Phenol	EPA 625	Extractable Organics	NELAP	4/10/2002
Phenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phosphorus, total	EPA 365.3	General Chemistry	NELAP	4/10/2002
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Potassium	EPA 200.7	Metals	NELAP	4/10/2002
Potassium	EPA 6010	Metals	NELAP	7/1/2003
Pyrene	EPA 610	Extractable Organics	NELAP	4/10/2002
Pyrene	EPA 625	Extractable Organics	NELAP	4/10/2002
Pyrene	EPA 8100	Extractable Organics	NELAP	7/1/2003
Pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pyrene	EPA 8310	Extractable Organics	NELAP	7/1/2003
Pyridine	EPA 8270	Extractable Organics	NELAP	7/1/2003
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330	Extractable Organics	NELAP	7/1/2003
Reactive cyanide	Sec. 7.3 SW-846	General Chemistry	NELAP	7/1/2003
Reactive sulfide	Sec. 7.3 SW-846	General Chemistry	NELAP	7/1/2003
Residue-filterable (TDS)	EPA 160.1	General Chemistry	NELAP	4/10/2002
Residue-nonfilterable (TSS)	EPA 160.2	General Chemistry	NELAP	4/10/2002
Residue-total	EPA 160.3	General Chemistry	NELAP	1/24/2003

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State Laboratory ID: E83510 **EPA Lab Code: FL00946** **(407) 425-6700**

E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Selenium	EPA 200.7	Metals	NELAP	4/10/2002
Selenium	EPA 6010	Metals	NELAP	4/10/2002
Silver	EPA 200.7	Metals	NELAP	4/10/2002
Silver	EPA 6010	Metals	NELAP	7/1/2003
Sodium	EPA 200.7	Metals	NELAP	4/10/2002
Sodium	EPA 6010	Metals	NELAP	7/1/2003
Styrene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Sulfate	EPA 300.0	General Chemistry	NELAP	4/10/2002
Sulfate	EPA 9056	General Chemistry	NELAP	7/1/2003
Sulfide	EPA 376.1	General Chemistry	NELAP	4/10/2002
Surfactants - MBAS	EPA 425.1	General Chemistry	NELAP	4/10/2002
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Tetrachloroethylene (Perchloroethylene)	EPA 601	Volatile Organics	NELAP	4/10/2002
Tetrachloroethylene (Perchloroethylene)	EPA 624	Volatile Organics	NELAP	4/10/2002
Tetrachloroethylene (Perchloroethylene)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Tetryl (methyl-2,4,6-trinitrophenylnitramine)	EPA 8330	Extractable Organics	NELAP	7/1/2003
Thallium	EPA 200.7	Metals	NELAP	4/10/2002
Thallium	EPA 6010	Metals	NELAP	7/1/2003
Tin	EPA 6010	Metals	NELAP	7/1/2003
Toluene	EPA 602	Volatile Organics	NELAP	4/10/2002
Toluene	EPA 624	Volatile Organics	NELAP	4/10/2002
Toluene	EPA 8021	Volatile Organics	NELAP	7/1/2003
Toluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Total cyanide	EPA 9010/9014	General Chemistry	NELAP	7/1/2003
Total nitrate-nitrite	EPA 9056	General Chemistry	NELAP	7/1/2003
Total organic carbon	EPA 415.1	General Chemistry	NELAP	2/3/2003
Total organic carbon	SM 5310C	General Chemistry	NELAP	9/11/2002
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	7/1/2003
Total phenolics	EPA 420.1	General Chemistry	NELAP	4/10/2002
Toxaphene (Chlorinated camphene)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
trans-1,2-Dichloroethylene	EPA 601	Volatile Organics	NELAP	4/10/2002
trans-1,2-Dichloroethylene	EPA 624	Volatile Organics	NELAP	4/10/2002
trans-1,2-Dichloroethylene	EPA 8021	Volatile Organics	NELAP	7/1/2003

Laboratory Scope of Accreditation

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State Laboratory ID: E83510 **EPA Lab Code:** FL00946 (407) 425-6700

E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Non-Potable Water

Analyte	Method/Tech	Category	Certification Type	Effective Date
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,3-Dichloropropylene	EPA 601	Volatile Organics	NELAP	4/10/2002
trans-1,3-Dichloropropylene	EPA 624	Volatile Organics	NELAP	4/10/2002
trans-1,3-Dichloropropylene	EPA 8021	Volatile Organics	NELAP	7/1/2003
trans-1,3-Dichloropropylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichloroethene (Trichloroethylene)	EPA 601	Volatile Organics	NELAP	4/10/2002
Trichloroethene (Trichloroethylene)	EPA 624	Volatile Organics	NELAP	4/10/2002
Trichloroethene (Trichloroethylene)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichlorofluoromethane	EPA 601	Volatile Organics	NELAP	4/10/2002
Trichlorofluoromethane	EPA 624	Volatile Organics	NELAP	4/10/2002
Trichlorofluoromethane	EPA 8021	Volatile Organics	NELAP	7/1/2003
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Turbidity	EPA 180.1	General Chemistry	NELAP	4/10/2002
Un-lonized Ammonia	DEP SOP 10/03/83	General Chemistry	NELAP	2/3/2003
Vanadium	EPA 200.7	Metals	NELAP	4/10/2002
Vanadium	EPA 6010	Metals	NELAP	7/1/2003
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Vinyl chloride	EPA 601	Volatile Organics	NELAP	4/10/2002
Vinyl chloride	EPA 624	Volatile Organics	NELAP	4/10/2002
Vinyl chloride	EPA 8021	Volatile Organics	NELAP	7/1/2003
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Xylene (total)	EPA 602	Volatile Organics	NELAP	2/3/2003
Xylene (total)	EPA 624	Volatile Organics	NELAP	9/8/2003
Xylene (total)	EPA 8021	Volatile Organics	NELAP	7/1/2003
Xylene (total)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Zinc	EPA 200.7	Metals	NELAP	4/10/2002
Zinc	EPA 6010	Metals	NELAP	4/10/2002

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E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	4/10/2002
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	Volatile Organics	NELAP	4/10/2002
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	Volatile Organics	NELAP	4/10/2002
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	4/10/2002
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	4/10/2002
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330	Extractable Organics	NELAP	4/10/2002
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	4/10/2002
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,3-Dinitrobenzene (1,3-DNB)	EPA 8330	Extractable Organics	NELAP	4/10/2002
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	4/10/2002
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	4/10/2002
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	4/10/2002
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330	Extractable Organics	NELAP	4/10/2002
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002

Laboratory Scope of Accreditation

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State Laboratory ID: E83510 **EPA Lab Code: FL00946** **(407) 425-6700**

E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	4/10/2002
2,4-Dinitrotoluene (2,4-DNT)	EPA 8330	Extractable Organics	NELAP	3/7/2005
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	4/10/2002
2,6-Dinitrotoluene (2,6-DNT)	EPA 8330	Extractable Organics	NELAP	3/7/2005
2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330	Extractable Organics	NELAP	4/10/2002
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	4/10/2002
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	4/10/2002
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	4/10/2002
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	4/10/2002
2-Hexanone	EPA 8260	Volatile Organics	NELAP	4/10/2002
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	4/10/2002
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	4/10/2002
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	4/10/2002
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
2-Nitropropane	EPA 8260	Volatile Organics	NELAP	4/10/2002
2-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	4/10/2002
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	4/10/2002
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	4/10/2002
3-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	4/10/2002
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330	Extractable Organics	NELAP	4/10/2002
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	4/10/2002
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	4/10/2002
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	4/10/2002
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	4/10/2002
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	4/10/2002
4-Methylphenol (p-Cresol)	EPA 8270	Extractable Organics	NELAP	4/10/2002
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	4/10/2002
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002

Laboratory Scope of Accreditation

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E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	4/10/2002
Acenaphthene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Acenaphthene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Acenaphthene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Acenaphthylene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Acenaphthylene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Acetone	EPA 8260	Volatile Organics	NELAP	4/10/2002
Acetophenone	EPA 8270	Extractable Organics	NELAP	2/3/2003
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	4/10/2002
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	4/10/2002
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aluminum	EPA 6010	Metals	NELAP	4/10/2002
Aniline	EPA 8270	Extractable Organics	NELAP	4/10/2002
Anthracene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Anthracene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Anthracene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Antimony	EPA 6010	Metals	NELAP	4/10/2002
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Arsenic	EPA 6010	Metals	NELAP	4/10/2002
Barium	EPA 6010	Metals	NELAP	4/10/2002
Benzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Benzidine	EPA 8270	Extractable Organics	NELAP	4/10/2002
Benzo(a)anthracene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Benzo(a)anthracene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Benzo(a)pyrene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	4/10/2002

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Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzo(a)pyrene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Benzo(b)fluoranthene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Benzo(b)fluoranthene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Benzo(g,h,i)perylene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Benzo(g,h,i)perylene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Benzo(k)fluoranthene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Benzo(k)fluoranthene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Benzoic acid	EPA 8270	Extractable Organics	NELAP	4/10/2002
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	4/10/2002
Beryllium	EPA 6010	Metals	NELAP	4/10/2002
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	4/10/2002
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	4/10/2002
bis(2-Chloroisopropyl) ether	EPA 8270	Extractable Organics	NELAP	4/10/2002
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	4/10/2002
Bromide	EPA 9056	General Chemistry	NELAP	4/10/2002
Bromobenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Bromoform	EPA 8260	Volatile Organics	NELAP	4/10/2002
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	4/10/2002
Cadmium	EPA 6010	Metals	NELAP	4/10/2002
Calcium	EPA 6010	Metals	NELAP	4/10/2002
Carbazole	EPA 8270	Extractable Organics	NELAP	4/10/2002
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	4/10/2002
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	4/10/2002
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Chloride	EPA 9056	General Chemistry	NELAP	4/10/2002
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Chloroethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Chloroform	EPA 8260	Volatile Organics	NELAP	4/10/2002
Chromium	EPA 6010	Metals	NELAP	4/10/2002
Chromium VI	EPA 7196	General Chemistry	NELAP	1/24/2003

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E83510
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Orlando, FL 32811

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
Chrysene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Chrysene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Chrysene	EPA 8310	Extractable Organics	NELAP	4/10/2002
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	4/10/2002
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Cobalt	EPA 6010	Metals	NELAP	4/10/2002
Copper	EPA 6010	Metals	NELAP	4/10/2002
Corrosivity (pH)	EPA 1110	General Chemistry	NELAP	4/10/2002
Corrosivity (pH)	EPA 9040	General Chemistry	NELAP	4/10/2002
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Dibenz(a,h) anthracene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Dibenz(a,h) anthracene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Dibenz(a,h) anthracene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	4/10/2002
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Dibromomethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	4/10/2002
Diesel range organics (DRO)	MA-EPH	Extractable Organics	NELAP	2/3/2003
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	4/10/2002
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	4/10/2002
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	4/10/2002
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	4/10/2002
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Fluoranthene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Fluoranthene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Fluoranthene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Fluorene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Fluorene	EPA 8270	Extractable Organics	NELAP	4/10/2002

Laboratory Scope of Accreditation

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State Laboratory ID: E83510 **EPA Lab Code: FL00946** **(407) 425-6700**

E83510
Accutest Laboratories Southeast, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811

Matrix: Solid and Chemical Materials

Analyte	Method/Tech	Category	Certification Type	Effective Date
Fluorene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Fluoride	EPA 9056	General Chemistry	NELAP	4/10/2002
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	4/10/2002
Gasoline range organics (GRO)	MA-VPH	Extractable Organics	NELAP	2/3/2003
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	4/10/2002
Ignitability	EPA 1010	General Chemistry	NELAP	4/10/2002
Indeno(1,2,3-cd)pyrene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Indeno(1,2,3-cd)pyrene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	2/3/2003
Iron	EPA 6010	Metals	NELAP	4/10/2002
Isophorone	EPA 8270	Extractable Organics	NELAP	4/10/2002
Isopropyl ether	EPA 8260	Volatile Organics	NELAP	4/10/2002
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Lead	EPA 6010	Metals	NELAP	4/10/2002
Magnesium	EPA 6010	Metals	NELAP	4/10/2002
Manganese	EPA 6010	Metals	NELAP	4/10/2002
Mercury	EPA 7471	Metals	NELAP	4/10/2002
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	4/10/2002
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	4/10/2002
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	4/10/2002
Methylene chloride	EPA 8260	Volatile Organics	NELAP	4/10/2002
Molybdenum	EPA 6010	Metals	NELAP	4/10/2002
Naphthalene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Naphthalene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Naphthalene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Naphthalene	EPA 8310	Extractable Organics	NELAP	4/10/2002

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n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Nickel	EPA 6010	Metals	NELAP	4/10/2002
Nitrate	EPA 9056	General Chemistry	NELAP	4/10/2002
Nitrite	EPA 9056	General Chemistry	NELAP	4/10/2002
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Nitrobenzene	EPA 8330	Extractable Organics	NELAP	2/3/2003
Nitroglycerin	EPA 8332	Extractable Organics	NELAP	2/3/2003
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	4/10/2002
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	4/10/2002
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	4/10/2002
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330	Extractable Organics	NELAP	4/10/2002
Oil & Grease	EPA 9070	General Chemistry	NELAP	4/10/2002
Oil & Grease	EPA 9071	General Chemistry	NELAP	4/10/2002
Orthophosphate as P	EPA 9056	General Chemistry	NELAP	4/10/2002
p-Dioxane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
pH	EPA 9040	General Chemistry	NELAP	4/10/2002
pH	EPA 9045	General Chemistry	NELAP	4/10/2002
Phenanthrene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Phenanthrene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Phenanthrene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Phenol	EPA 8270	Extractable Organics	NELAP	4/10/2002
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Potassium	EPA 6010	Metals	NELAP	4/10/2002
Pyrene	EPA 8100	Extractable Organics	NELAP	4/10/2002
Pyrene	EPA 8270	Extractable Organics	NELAP	4/10/2002
Pyrene	EPA 8310	Extractable Organics	NELAP	4/10/2002
Pyridine	EPA 8270	Extractable Organics	NELAP	4/10/2002
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330	Extractable Organics	NELAP	4/10/2002
Reactive cyanide	Sec. 7.3 SW-846	General Chemistry	NELAP	4/10/2002
Reactive sulfide	Sec. 7.3 SW-846	General Chemistry	NELAP	4/10/2002
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Selenium	EPA 6010	Metals	NELAP	4/10/2002
Silver	EPA 6010	Metals	NELAP	4/10/2002
Sodium	EPA 6010	Metals	NELAP	4/10/2002

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Styrene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Sulfate	EPA 9056	General Chemistry	NELAP	4/10/2002
Synthetic Precipitation Leaching Procedure	EPA 1312	General Chemistry	NELAP	4/10/2002
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	4/10/2002
Tetryl (methyl-2,4,6-trinitrophenylnitramine)	EPA 8330	Extractable Organics	NELAP	4/10/2002
Thallium	EPA 6010	Metals	NELAP	4/10/2002
Tin	EPA 6010	Metals	NELAP	1/24/2003
Toluene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Total cyanide	EPA 9010/9014	General Chemistry	NELAP	4/10/2002
Total nitrate-nitrite	EPA 9056	General Chemistry	NELAP	4/10/2002
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	4/10/2002
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	4/10/2002
Toxicity Characteristic Leaching Procedure	EPA 1311	General Chemistry	NELAP	4/10/2002
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	4/10/2002
trans-1,3-Dichloropropylene	EPA 8260	Volatile Organics	NELAP	4/10/2002
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	4/10/2002
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	4/10/2002
Vanadium	EPA 6010	Metals	NELAP	4/10/2002
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	4/10/2002
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	4/10/2002
Xylene (total)	EPA 8260	Volatile Organics	NELAP	4/10/2002
Zinc	EPA 6010	Metals	NELAP	4/10/2002

APPENDIX E

ELECTRONIC DATA REPORTS AND VALIDATOR SPREADSHEETS