

## 912 7th AVENUE EAST BRADENTON, FL 34208

April 17, 2020

Ms. Patty Helton Davis PHD Realty 1812 S Main St. Atmore, Alabama 36502

Subject:

**Summary of Environmental Status** 

Panhandle 66 8400 N Century Blvd.

Century, Florida

Dear Ms. Helton Davis:

The purpose of this letter is to provide you with a summary of the environmental status of the Panhandle 66 property located at 8400 North Century Boulevard in Century, Florida. My firm, Ridge Environmental Solutions (Ridge) has been involved with this project since 2013. The activities we have been performing at this property are regulated and overseen by the Florida Department of Health in Escambia County under contract to the Florida Department of Environmental Protection (FDEP).

As you are aware, prior tenants at the property caused a release of petroleum products to the soil and groundwater beneath the ground surface. These events were in no way caused by the Campbells; however, the Campbells have nonetheless undertaken steps to mitigate this problem. Since the release occurred in 2007, active soil and groundwater remediation has taken place that included excavation and off-site disposal of some of the contaminated soil. I also want to point out that there have been no new environmental releases caused by the operation at the facility and the Campbells have maintained consistent and effective operation and maintenance of the fueling system at the property. In addition, an active soil and groundwater remediation system operated for a period of time until operations ceased in August 2010. Alternative methods were used for the next 3 years to remove diesel from the groundwater surface. These methods have helped to improve the groundwater quality substantially and mitigation measures are ongoing.

There are 2 primary conditions beneath the ground surface at the site that are regulated within the State FDEP – diesel floating on the groundwater surface and dissolved petroleum substances. In 2013, Ridge prepared a Remedial Action Plan (RAP) to address both conditions; however, shortly after this RAP was submitted, FDEP changed their regulations to allow for dissolved petroleum substances at properties to be left in the ground at greater concentrations as long as these substances were confined to the underground area of the property and had not migrated off the property. If this condition is present, as it is at the Panhandle 66 property, it allows property owners like the Campbells (and subsequent owners of

the property) to establish a goal of removing just the floating diesel from the groundwater surface, and to allow some dissolved substance concentrations to remain in the ground. This is a more of a risk based standard than what previously existed, and is appropriate for use at this property and has been selected as the strategy to close out this project, since the impacted material is not causing any harm to the surrounding properties. These reduced risk-based standards are set by the FDEP and used by property owners throughout Florida.

One of the biggest advantages for property owners, present and future, is this risk-based standard is significantly less costly to monitor and the mitigation costs can be spread out over several years, such that cashflow expenditures related to complying with the State are minimized for businesses that might operate at the property.

I would encourage prospective buyers that are interested in operating a business in Century to keep an open mind about the possibilities for this property. In the meantime, if you have any questions, please do not hesitate to contact me by phone at (770) 337-9531 or by email at pzomer@ridgeenvironmental.com.

Sincerely,

RIDGE ENVIRONMENTAL SOLUTIONS, INC.

Patrick W. Zomer, P.E.

Florida Licensed Professional Engineer Florida Licensed Building Contractor AFG Petroleum, LLC.

\*\*29,476:52

AFG Petroleum, LLC 1350 South Pearl St. Crestview, FL. 32539

AFG Petroleum, LLC.

Ground fuel tanks

10/8/2008

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Cash in Bank - checki

10/8/2008

AFG Petroleum, LLC.

Ground fuel tanks

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Attachment A

(Well Construction Logs)

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9.1. Date 6/15/09

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## MONITORING REPORT

Conducted at:

Panhandle 66 8400 North Century Blvd Century, Escambia County, Florida FDEP Facility ID # 178944981

Conducted by:

Ridge Environmental Solutions 912 7<sup>th</sup> Avenue East Bradenton, Florida 34208

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Groundwater Elevation Map

Appendix B Laboratory Analytical Report

Topographic Map

Site Map



#### 912 T<sup>th</sup> AVENUE EAST BRADENTON, FL 34208

April 13, 2020

Mr. James Campbell Panhandle 66 8400 N. Century Blvd. Century, Florida

Subject:

**Monitoring Report** 

Panhandle 66

FDEP FAC ID #: 17/8944981

Dear Mr. Campbell:

Ridge Environmental Solutions, Inc. (Ridge) is providing this Monitoring Report for the property located at 8400 North Century Boulevard in Century, Florida. This Report provides an update of current conditions at the site, and contains the following sections: Site History, Groundwater Sampling Activities, Groundwater Analytical Results, Groundwater Flow Verification, Discussions, and Conclusions, and Recommendations.

#### 1.0 Site History

The site is located at 30° 58' 53.6" N Latitude, and 87° 15' 26.1" W Longitude in Century, Florida. A topographic map showing the site location is provided as **Figure 1**. A site map is presented as **Figure 2**. The site is currently used as a fueling facility for commercial accounts using gasoline and diesel. According to FDEP databases, a total of five underground storage tanks (USTs) were installed in 1984: three 12,032-gallon unleaded gasoline tanks and two 10,246-gallon diesel tanks. On December 1, 2007, an Incident Report (No. SWP071201-8038) was filed due to a leak in one of the diesel USTs.

Ridge has performed a review of the FDEP database for this site. Presented below is a chronology of events that have occurred at the site, starting with the December 2007 release.

December 1, 2007: Incident No. SWP071201-8038 was filed documenting a petroleum release.

December 4, 2007: A Discharge Report Form (DRF #1) was filed for the referenced December 1 2007 release.

December 20, 2007: FDEP filed a Storage Tank Facility Closure Report for the removal of the two diesel USTs, which had been placed out of service after the loss of product was discovered. This report states that the south tank had a hole in the bottom of the tank beneath the fill port. Free

product removal events were implemented during the tank removal by Advanced Environmental Technologies, LLC (AET). Ridge did not find documentation of the amount of product recovered during the removal of the USTs.

January 2, 2008: Gasoline dispenser and tank upgrade activities were initiated.

January 3, 2008: AET filed a DRF (DRF #2) as a result of a frac tank overflow to the ground surface near the eastern boundary of the site that occurred during free product recovery.

January 4, 2008: FDEP filed a Storage Tank Facility Discharge Site Inspection Report in response to the January 3, 2008 DRF.

January 17, 2008: A DRF (DRF #3) was filed for the discharge associated with the dispenser island and gasoline UST pit.

January 29, 2008: A Tank Closure Report was submitted by AET that documented the closure activities for the removed two 10,246-gallon diesel USTs. According to this report, 20,000 gallons of product were lost. The report states that a total of 798 tons of petroleum-impacted soil was excavated and disposed as part of the UST closure activities. The report further states that visual staining and petroleum odor were observed beneath the diesel dispenser sumps. The soil beneath the product dispensers was excavated to a depth that would accommodate the new containment sumps. The Tank Closure Report also states that free product recovery efforts had been initiated.

February 5, 2008: FDEP issued an Alternative Procedure and Requirements Letter approving AET's request to conduct free product recovery and on-site treatment and discharge.

February 15, 2008: A Gasoline Petroleum Storage Tank Closure Report was submitted by AET. This report states that 556 tons of petroleum-contaminated soil was removed and disposed during removal/upgrade of the three gasoline USTs. This report also states that the new gasoline USTs were installed in the existing gasoline UST pit located on the southeastern portion of the property.

May 30, 2008: FDEP filed a Petroleum Cleanup Site Inspection Form for the removal of free product recovery equipment.

July 30, 2008: TERRA-COM initiated site assessment activities, and based on their findings during the assessment recommended additional free product recovery activities.

September 8, 2008: According to the Remedial Action Plan (RAP) submitted by TERRA COM, free product recovery was restarted at the site and 4,500 gallons of product had been recovered beginning on September 8, 2008 and continuing for 20 weeks.

October 14, 2008: TERRA COM submitted the Initial Site Assessment Report for the site. The findings for this report are summarized in Sections 3.1 and 3.2 below.

February 10, 2009: The RAP for the December 2007 release of diesel was submitted by TERRA COM. In the RAP, an estimate that 3,000 gallons of diesel remained in the ground was presented.

March 26, 2009: The referenced RAP that was submitted by TERRA COM on February 10, 2009 was approved by FDEP.

May 2009 through January 2010: System construction was performed along with intermittent free product removal.

January 20, 2010: System Startup of the approved AS/MPE occurred.

March 22, 2010: Startup report detailing the first quarter of operation was submitted.

August 30, 2010: Year 1 Quarter 2 O&M Status Report submitted, which detailed Months 4 and 5 operation. Operation was halted in August 2010 due to lack of funds.

January 24, 2011: FDEP Documentation of No Cleanup Required Request recommended for approval at FDEP Tallahassee for DRF #2.

September 2011 through January 2013: Free product removal events conducted by Enviro-Pro-Tech, Inc. (EPT).

October 17, 2012: Supplemental Site Assessment for DRF #1 submitted – extent of release is defined.

January 25, 2013: EPT submitted a Free Product Recovery Letter documenting gauging and free product recovery events conducted on August 25, 2011, September 14, 2011, October 20, 2011, March 1, 2012, April 12, 2012, May 21, 2012, September 6, 2012, December 28, 2012, and January 23, 2013. The report recommended continued free product recovery with quarterly reporting.

May 2, 2013: Ridge submitted a Remedial Action Plan (RAP) that recommended a closed loop system of surfactant injection and extraction, free product removal ongoing.

November 5, 2013: FDEP issued a UIC Approval Order approving the May 2013 RAP. Free product removal is ongoing.

In 2014, based on the decreasing trend of free product thickness, the Owner selected to continue monitoring the groundwater quality while performing free product removal in lieu of implementing the RAP. Since that time, the Owner has been performing free product removal services.

## 2.0 Groundwater Sampling Activities

Groundwater sampling activities have been previously performed by Ridge on December 7, 2015, June 28, 2016, and July 27, 2018. The groundwater sampling for this current reporting period was performed on February 9, 2020. The data for each of these events as well as historical sampling events (performed by others) are summarized on **Table 1**. A description of the February 9, 2020 sampling event is provided below.

Groundwater purging and sampling conducted by Ridge was performed in accordance with DEP-SOP-001/01 (FS 2200 Groundwater Sampling). On February 9, 2020, groundwater samples were collected from monitoring wells M-2, M-3, M-4, MW-5, MW-9, MW-10, and MW-14. The locations of the monitoring wells are shown in **Figure 2**.

Prior to purging, the monitoring well caps were removed, allowing for stabilization to ambient atmospheric conditions. Depth to groundwater was subsequently measured and well volumes were calculated.

Groundwater purging was accomplished utilizing a portable low flow battery operated submersible pump. High density polyethylene (HDPE) tubing was set to a depth no more than 2 feet into the water table for the purging. The purge rate was calculated and upon achieving one (1) well volume, temperature, pH, conductivity, dissolved oxygen, turbidity, and depth to groundwater readings were obtained and recorded. Additional readings were collected and recorded at approximately 2-4 minute intervals.

Upon achieving stable groundwater readings, groundwater samples were collected from the wells. The samples were collected into laboratory-provided containers, which were then capped, labeled, packed on ice, and transported under chain-of-custody protocol to Pace Analytical Services in Oldsmar, Florida for analysis of BTEX+MTBE by EPA Method 8260. Groundwater Sampling Logs and Calibration Logs for this event are included in **Appendix A**.

#### 3.0 Groundwater Laboratory Analytical Results

Laboratory analytical results indicated the following:

At MW-5, Benzene (2.0 ug/L), Ethylbenzene (61.6 ug/L), and Xylenes (157 ug/L) were detected above Groundwater Cleanup Target Levels (GCTLs).

At MW-9, Benzene (33.3 ug/L), Ethylbenzene (46.0 ug/L), and Xylenes (72.1 ug/L) were detected above GCTLs.

At MW-10, Benzene (7.5 ug/L), Ethylbenzene (176 ug/L), and Xylenes (81.9 ug/L) were detected above GCTLs.

At MW-14, Benzene (17.2 ug/L), Ethylbenzene (60.4 ug/L), and Xylenes (148 ug/L) were detected above GCTLs.

At M-2, M-3, and M-4 no analytes were detected at concentrations greater than the respective above GCTLs. NADC levels were not exceeded in any of the analyzed samples.

Groundwater analytical results for this event as well as historic events are presented on Table 1 and Figure 3. A groundwater concentration map for the sampling event is represented in Figure 3. The complete laboratory analytical report from Pace Analytical Services for the February 9, 2020 sampling event is included as **Appendix B**. Concentrations appear to be decreasing in MW-5 and MW-9 and the trends in MW-10 and MW-14 being more variable – increases Ethylbenzene and Xylenes and decreases in Benzene in MW-10 and an increase in Benzene and a decrease in Xylenes in MW-14.

In addition, Ridge has updated **Table 1** to include DMW-20, DMW-21, and DMW-31 2016 and 2017 sampling results from The Korner Kwik Stop facility (FAC ID No. 17/8507841) October 31, 2018 NAM report. This facility is located to the south of the subject site. This NAM Report indicates a component of flow from south to north towards the subject property. In addition, the results to the 2016 and 2017 sampling events for the Korner Kwik Stop facility do not indicate impact above GCTLs in any of the three wells with the exception of an exceedence of benzene of 1.6 ug/L in DMW-21 in January 2016 followed by a result of <0.38 in the February 2017 sampling event. These analytical results in conjunction with the reported groundwater flow direction in the referenced NAM and at the subject site (toward the north/northeast) indicate that sampling from DMW-20, DMW-21, and DMW-31 is not warranted and that the selection of M-2, M-3, and MW-4 as south delineation locations is appropriate and thus define the extent of contamination in the south direction.

## 4.0 Groundwater Flow Verification

Prior Top of Casing (TOC) elevation data was utilized for groundwater flow verification. Fluid levels (depth to groundwater surface and depth to free product surface) in fourteen (14) shallow monitor wells (M-2, M-3, M-4, MW-1, MW-3, MW-5, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12, MW-13, and MW-14) were determined using an interface probe which allows measurement of the depth to

the water table to within 0.01'. By applying the gauging data to the survey data, groundwater

elevations for the monitor wells were obtained. A specific gravity for diesel of 0.82 was used in the

groundwater elevation calculations for wells that contained free product.

Groundwater flow is generally toward the north and northeast with a very slight gradient. Based on

the relative flat gradient of the water table (only 0.18 feet of difference between highest groundwater

elevation and lowest groundwater elevation) groundwater has been historically reported in variable

directions. Groundwater elevations are summarized in Table 2 and a groundwater elevation contour

map for the February 9, 2020 data is provided as Figure 4. Free product thickness was measured

as follows: MW-1 (0.34 ft), MW-3 (0.02 ft), MW-6 (0.42 ft), MW-7 (0.01 ft), MW-11 (0.66 ft), MW-12

(0.01 ft), and MW-13 (0.01 ft). These thickness readings are presented on Table 2.

5.0 Discussion / Conclusions / Recommendations

The concentrations of the constituents of concern are generally decreasing. Free product is still

present on site, and upon removal of free product at the site a No Further Action with conditions will

be requested.

If you have any questions, please do not hesitate to contact me by phone at (770) 337-9531 or by

email at pzomer@ridgeenvironmental.com.

Sincerely,

RIDGE ENVIRONMENTAL SOLUTIONS, INC.

Patrick W. Zomer

Project Manager

cc: Mr. James Petty (Florida Department of Health, Escambia Co.)

6

## **TABLES**

Table 1 Groundwater Analytical Summary

Table 2 Groundwater Elevation Summary

TABLE 1: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY

Facility Name Panhandle 66 Facility ID# 17/8944981

Sar	mple Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	Naphthalene	1-Methylnaphthalene	2-Methylhaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(k)-Fluoranthene	TRPHs
	GCTL:	1	40	30	20	91	20	14	28	28	210	20	280	210_	2100	280	210	0.5	5000
	NADC	100	400	300	200	1000	200	140	280	280	2100	200	2800	2100	21000	2800	2100	50	50000
"DMW-20	5/16/2002	134	42	59.3	128	363.3	<5	<5	NA	<5	NS	NS	NS	NS	NS	NS	N\$	N\$	<222
	7/18/2016	0.50 U	0.51 U	0.44 U	0,50 U	BDL	0.44 U	1.2	0.22 U	0.22 UJ		_				_	_	_	_
	2/7/2017	0.38 U	0.70 U	0.50 U	1.6 U	BDL	0.74 U	0.085 U	0.067 U	0.055 U			_	_	_	_			_
**DMW-21	5/16/2002	7	1.8	33.9	88.1	130.8	<5	<5	NA	<5	NS	NS	NS	NS	NS	NS	NS	NS	526
	7/18/2016	1,6	0,51 U	2	0.50 U	3,6	0.44 U	1,2	0.76	0.90 J	_	_			_	_	_	_	_
	2/7/2017	0.38 U	0.70 U	0.50 U		BOL	0.74 U	0.085 U	0.067 U	0.055 U		_		_	_	_	_	_	
**DMW-31	3/13/2003	<1	<5	<1	<3	<10	<1	<1	<1	<1	NS	NS	NS	NS	N\$	N\$	NS	NS	180
	7/18/2016	0.50 U	0.51 U	0.44 U		BDL	0.44 U	0.22 U	0.22 U	0.22 UJ		_	-	_	_	_	_	_	_
	2/7/2017	0.38 U	0.70 U	0.50 U	1.6 U	BDL	0.74 U	0.085 U	0.067 ∪	0.055 U		_	_	_	_	_	_	_	_
MW-5	7/30/2008	85	8.2	6.9	190	290_	0.3 U	29	29	14	0.40 U	0.44 U	0.24 U	0.26 U	0.34 U	0.20 U	0.20 U	0.25	900
	5/23/2013	197	47.8	197	690	1131.8	0.50 U	51.0	221	38.1	0.025 U	0.025 U	1.6	0.49	0.037	0.025 U	0,025 U	0,025 U	NS
	12/7/2015	91.5	0.50 U	148	243	480,5	0,50 U	36,3	29,4	29.9	0.025 U	0.025 U	80L	BOL	BDL	BDL	8DL	8DL	NS
	6/28/2016	27.8	0,50 U	76.4	327	384	0.50 ↓	16,5	12,3	14.2	0.111	0.025 U	8DL	BOL	0,065	BDL	BDL	BOL	NS
	7/27/2018	29.7	0.50 U	151	672	853	0.50 ∪	45.7	26.1	34.4	0.030 U	0.17 8	8DL	BOL	0.043 U	BDL	BDL	BDL_	NS
	2/9/2020	2.0	0.33 U	61.6	157	221	0.51 U	NS	NS	N\$	NS	N\$	NS	NS	NS	NS	NS	N\$	NS
MW-9	12/7/2015	20.6	0.50 U	76.1	382	399	0.721	34.5	29.8	30.4	0.025 U	0.025 U	BDL	_BDL	0.0981	BDL	BDL	9DL	NS
	6/28/2016	56.4	0.831	63.3	263	384	0.50 U	22.4	17.9	17,1	0.26	0.025 U	BOL	BDL	0.0651	BOL	BOL	BOL	N\$
	2/9/2020	33.3	0.33 U	46.0	72.1	151	0.51 U	NS	NS	N\$	NS	N\$	NS	NS	NS	NS	N\$	NS	NS
MW-10	7/27/2018	21.4	0.50 U	60.3	23.5	105	0.50 U	_18.9_	15,7	16.1	0.030 U	0.121	BOL	BDL	0.043 U	BOL	BOL	BDL	N\$
	2/9/2020	7.5	0.811	176	81,9	265	0.51 U	NS	NS	NS	NS	NS	NS	N\$	N\$	NS	NS	NS	N\$
MW-11	7/27/2018	4.0	0.991	182	306	493	1.6	50.3	23.4	33.6	0.030 U	1.1	BOL	BOL	0.23 1	8ĎL	BOL	BOL	NS
MW-14	7/27/2018	0.731	3.4	_59.3_	316	379	0.50 U	21.4	17,5	20.0	0.030 U	0.191	BOL	BOL	0.043 U	_BDL_	_ BDL	- BDL	NS
	2/9/2020	17.2	0.33 U	60.4	148	226	0.51 U	NS	NS	NS	NS	N\$	NS	NS	NS	NS	NS	NS :	N\$
M-1	9/24/2012	0.36 U	0.361	9.1	28	37,46	0.35 U	2.81	N\$	NS	กร	NS	NS	NS	NS	N\$	NS	NS	NS
M-2	9/24/2012	0.71	_1.2	2.7	13	17.6	0.35 U	1.31	NS	NS	NS	NŞ	NS	NS	NS	NS	NS	NŜ	N\$
	12/7/2015	14,2	0,50 U	57,9	77.0	149.1	4.3	7.7	4.0	5,5	0.025 U	0,025 ∪	BDL	BDL	BOL	BDL	BDL	BDL	NS
	6/28/2016	2.4	0.50 U	34.7	95.5	133	0.501	3.5	2.01	2.9	0.0281	0.025 U	BDL	BDL	0.025 U	BDL	BDL	BDL	NS
	7/27/2018	0.41 (	0.50 U	7.6	6.8	14.8	0.50 U	0.131	0.032 U	0,11 U	0.030 U	0.040 U	8DL	BOL	0.043 U	BDL	BDL	_80L	NS
	2/9/2020	0.30 ∪	0.33 U	6.5	6.1	12.6	0.51 U	N\$	N\$	NS	NS	NS	NS	NS	NS	N\$	NS	NS	NS
M-3	9/24/2012	0.36 U	0.36 U	0.35 U	0.95 ∪	BDL	0.35 U	0.571	NS	N\$	N\$	N\$	NS	NS	NS	NS	NS	N\$	NS
	12/7/2015	0,311	3,5	14.2	192	210	0.50 U	_26.9	10.7	15.1	0.025 U	0.025 U	BDL	BŌL	BDL	BDL	8DL	BOL	NS
	6/28/2016	0.381	0.50 ป	14.8	10.6	25.8	0.50 U	14.6	3.6	6.6	0.025 U	0.025 U	_BDL	BOL	BDL	BDL	BOL	BDL	NS
	2/9/2020	0.30 U	0.33 U	2.5	2.1 U	2.5	0.51 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	_NS	NS
M-4	9/24/2012	0.36 U	0.36 U	0.35 U	0.95 U	BOL	0.36 U	0,41 U	NS	NS	N\$	. NS	NS	NS	NS	NS	NS	N\$	NS
	12/7/2015	0.10 U	0.50 U	0.50 U	0.50 U	BOL	0.50 U	1.0 U	1.0 U	1.0 U	0.025 U	0.025 U	80L	BDL	BD)	BDL_	_BOL_	_BDL_	NS
	6/28/2016	0.10 U	0.50 U	0.50 U	1,00	BOL	0.50 U	1.0 U	1.0 U	1.0 U	0.025 U	0.025 U	BDL	BDL	BDL.	BDL:	BOL	BDL	N\$
	7/27/2018	0.10 U	0.50 U	0.50 U	1.5 U	9OL	0.50 U	0.048 U	0.0351	0.11 U	0.030 U	0.040 U	8DL	BOL	0.043 U	BDL	BDL	BOL	N\$
	2/9/2020	0.30 U	0.33 ∪	0.30 U	2.10	BDL	0.51 U	NS	NS	NS	NS	NS	N\$	N\$	NS	NS	NS	NS	N\$
M-5	9/24/2012	0.36 U	1,5	0.35 U	1.31	2.8	0.35 U	0.41 U	NS	N\$	N\$	N\$	NS	NS	NS	NS	NS	N\$	NS
M-6	7/17/2013	0.10 U	0.50 U	0.50 U	0.50 U	BDL,	0.50 U	1.0 0	1.0 U	1.0 U	0.025 U	0.025 €	0.025 U	0.025 U	0.025 U	0.025 ∪	0.025 U	0.025 U	NS

Bold Values indicate an exceedance of GCTL Values in red indicate an exceedance of the NADC

BDL = Below Detection Limits

— Not hased in report
NS = Not Sampled
GCTL = Occurrenter Cleanup Target Level, per Chapter 62-777, F.A.C.,
NADC = Natural Attenuation Default Concentration, per Chapter 62-777 F.A.C.

The qualities "L" denotes the value reported is off-scale high. The actual value may be higher than the value given. The reported value is above the calibration range. The qualities "C denotes the reported value is between the MDL (multinod delection limit) and the PDL (practical quantitation limit). The qualities "L" denotes that the analyte was not present, and the value praceding the "L" is the MDL,

**TABLE 2: Groundwater Elevation Data** 

Facility Name: Facility ID No: Panhandle 66

17/8944981

NA-Data Not Available

NI-Not Installed

WELL NO	T T	MW-1			MW-2			MW-3	
DIAMETER		2			2			2	
WELL DEPTH		25			25			25	
SCREEN INTERVAL		unknown			unknown			unknown	
TOC ELEVATION		85.78			85.71			85.84	
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	EFEA	DTW	DTP
7/30/2008	68.95	16.83	14.76	69.11	16.60	14.73	68.89	16.95	14.84
1/23/2009	68.55	17.23	16.25	69.13	16.58	16.30	69.17	16.67	16.46
6/11/2010	72.98	12.80	12.80	73.20	12.51	12.51	73.17	12.67	12.67
8/25/2011	68.67	17.86	16.85	68.65	17.90	16.75	68.29	18.40	16.83
9/14/2011	68.47	18.20	17.00	68.43	18.35	15.89	NG	NA	NA
10/20/2011	67.98	19.00	17.37	67.98	18.91	17.30	NG	NA	NA
3/1/2012	57.84	18.80	17.64	67.83	18.83	17.53	65.41	19.25	17.63
4/12/2012	68.02	18.62	17.45	68.02	18.57	17.36	66.06	18.82	17.53
6/21/2012 B	68.06	18.60	17.41	68.04	18.61	17.32	66.15	18.76	17:48
6/21/2012 A	68.11	18.10	17.52	68.15	17.71	17.50	67.80	17.88	17.66
9/5/2012 B	68.22	18.33	17.29	68.21	18.30	17.20	66.51	18.50	17.36
9/5/2012 A	68.25	17.91	17.41	68.26	17.73	17.35	NA	NA	NA
12/28/12 B	67.92	18.80	17.52	67.90	18.77	17.45	65.50	19.16	17.55
12/28/12 A	68.04	17.75	NP	68.30	17.44	17.40	67.97	17.86	17.85
1/23/2013	68.74	17.95	17.05	68.71	17.80	17.00	68.69	17.80	17.15
4/25/2013	70.73	15.05	15.05	70.74	15.04	14.95	70.72	15.12	15.12
7/27/2018	70.39	15.78	15.30	NM	NM	NM	70.38	15.67	15.41
2/9/2020	69.08	16.98	16.64	NM	NM	NM	6 <del>9</del> .05	16.81	16.79

WELL NO	T	MW-4			MW-5			MW-6	
DIAMETER		2			2			2	
WELL DEPTH		25			25			25	
SCREEN INTERVAL		unknown			unknown			unknown	
TOC ELEVATION		85.61			85.96			85.90	
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	ELEV	DTW	DTP
7/30/2008	68.95	16.83	14.76	69.11	16.60	14.73	68.89	16.95	14.84
1/23/2009	68.55	17.23	16.25	69.13	16.58	16.30	69.17	16.67	16.46
6/11/2010	73.21	12.40	12.40	73.13	12.83	12.83	73.10	12.80	12.71
8/25/2011	68.71	17.42	16.71	58.67	17.29	NA	68.56	18.49	16.91
9/14/2011	68.46	18.13	16.79	NG	NA	NA	68.33	18.89	17.08
10/20/2011	NG	NA	NA	NA	NA	NA	NA	NA	NA.
3/1/2012	67.86	18.68	17.41	NĢ	NA	NA	67.76	19.24	17.74
4/12/2012	68.03	18.44	17.26	68.04	17.92	NA	67.92	19.10	17.57
6/21/2012 B	68.29	17.60	17.22	68.13	17.83	NP	67.96	19.01	17.54
6/21/2012 A	68.11	17.70	17.42	NP	NP	NP	68.03	18.23	17.74
9/5/2012 B	68.22	18.18	17.10	68.27	17.69	NP	68.14	18.71	17.41
9/5/2012 A	68.29	17.50	17.25	CAR	PARKED ON	TOP	NA	NA	NA
10/9/2012	NA	NA	NA	68.53	17.43	NP	NA	NA .	NA
12/28/12 B	67.94	18.58	17.34	67.95	18.01	NP	68.03	19.21	17.37
12/28/12 A	68.03	17.61	17.57	NP	NP	NP	67.57	18.33	NP
1/23/2013	68.73	17.60	16.88	68.52	17.44	NP	68.65	18.14	17.25
4/25/2013	70.76	14.86	14.85	70.68	15.28	15.28	70.69	17.06	14.81
7/27/2018	NM	NM	NM	70.35	15.61	NP	70.35	15.64	15.53
2/9/2020	NM	NM	NM	69.01	16.95	NP	69.01	17.23	16.81

**TABLE 2: Groundwater Elevation Data** 

Facility Name: Facility ID No: Panhandle 66 17/8944981 NA-Data Not Available

NI-Not Installed

WELL NO		MW-7			MW-9			MW-10	
DIAMETER		2			2			2	
WELL DEPTH		25			25			25	
SCREEN INTERVAL		unknown			unknown			unknown	
TOC ELEVATION		85,83			85.59			85.28	
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	ELEV	DTW	DTP
7/30/2008	68.75	17.08	14.88	70.25	15.34	15.02	70.51	14.77	14.75
1/23/2009	68.92	16.91	16.46	69.25	16.34	16.32	69.26	16.02	0.00
6/11/2010	73.07	12.76	12.32	73.37	12.22	12.22	73.46	11.82	11.82
8/25/2011	68.55	18.32	16.89	68.66	16.95	16.92	85.28	NA	NA
9/14/2011	68.33	18.80	17.02	68.43	17.50	17.04	NA	NA	NA
3/1/2012	67.76	19.08	17.70	67.70	18.99	17.49	NA	NA	NA
4/12/2012	67.92	18.98	17.52	67.90	18.80	17.28	NA	NA	NA
6/21/2012 B	67.97	18.90	17.48	67.93	18.66	17.29	68.12	17.16	NP
6/21/2012 A	68.03	18.09	17.69	DNP	DNP	DNP	NP	NΡ	NP
9/5/2012 B	68.11	18.55	17.41	68.12	18.35	17.14	68.28	17.00	NP
9/5/2012 A	68.17	17.82	17.60	NA	NA	NA	NA	NA	NA
10/9/2012	NA	NA	NA	NA	NA	NA	68.35	16.93	NP
12/28/12 B	67.84	19.14	17.57	67.82	18.83	17.38	67.96	17.32	NP
12/28/12 A	67.95	17.89	17.88	67.97	17.63	17.52	NP	NP	NP
1/23/2013	68.61	17.88	17.22	68.57	17.32	17.02	68.54	16.74	NP
4/25/2013	70.68	15.22	15.14	70.65	14.94	14.94	70.66	14.62	14.62
7/27/2018	70.36	15.90	15.38	NM	NM	NM	70.32	14.96	NP
2/9/2020	69.01	16.83	16.82	68.98	16.61	NP	69.02	16.26	NP

WELL NO		MW-11			MW-12			MW-13	
DIAMETER		2			2			2	
WELL DEPTH		25			25			25	
SCREEN INTERVAL		unknown			unknown			unknown	
TOC ELEVATION		85,42			85.39			85.80	
DATE	ELEV	DTW	DTP	ELEV:	DTW	DTP	ELEV	DTW	DTP
7/30/2008	69.03	16.39	14.39	69.1	16.29	14.38	68.89	16.91	14.75
1/23/2009	68.94	16.48	15.94	68.7	16.69	15.87	68.58	17.22	16.27
6/11/2010	73.94	12.08	12.08	73.22	12.17	12.17	73.30	12.50	12.45
8/25/2011	68.71	17.26	16.50	68.68	17.51	16.41	68.67	17.87	16.85
9/14/2011	68.46	17.95	16.59	68.49	17.85	16.55	68.46	18.30	16.99
10/20/2011	67.87	18.53	17.19	68.01	18.53	16.95	68.03	18.92	17.35
3/1/2012	67.87	18.35	17.26	67.91	17.92	17.32	68.24	17.53	17.57
4/12/2012	68.04	18.23	17.06	68.07	18.02	17.06	68.04	18.46	17.50
5/21/2012 B	68.07	18.14	17,06	68.11	17.89	17.06	68.11	18.38	17.44
5/21/2012 A	68.17	17.41	17.19	68.13	17,55	17.15	68.15	17.80	17.60
9/5/2012 B	68.12	17.90	16.95	68.25	17.70	16.93	68.18	18.20	17.40
9/5/2012 A	68.27	17.30	17.10	NA	NA	NA	58.18	17.80	17.55
10/9/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/28/12 B	67.93	18.35	17.17	67.94	18.36	17.11	67.95	18.95	17.45
12/28/12 A	68.04	17.39	17.38	68.08	17.34	17.30	67.94	17.88	17.85
1/23/2013	67.97	16.74	17,45	68.69	17.21	16.70	68.20	17.10	17.60
4/25/2013	70.76	14.66	14.66	70.78	14.61	14.61	70.77	15.21	14.99
7/27/2018	70.42	15.00	NP	NM	NM	NM	70.42	15.74	15.30
2/9/2020	68.99	16,97	16.31	69.14	16.26	16.25	69.16	16.65	16.64

## **TABLE 2: Groundwater Elevation Data**

Facility Name:

Panhandie 66

NA-Data Not Available

Facility ID No:

17/8944981

Ni-Not installed

WELL NO		MW-14			DMW-20		DMW-21			
DIAMETER		2			2			2		
WELL'DEPTH		25			20			20		
SCREEN INTERVAL		unknown			unknown			unknown		
TOC ELEVATION		85.72			84.50			84.33		
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	ELEV	DTW	DTP	
7/30/2008	68.82	16.9	14.75	70.6	13.90	13.88	70.61	13.72	13.7	
1/23/2009	68.92	16.8	16.34	68.79	15.71	0.00	69.32	15.01	0.00	
6/11/2010	73.18	12.54	12.54	73.12	11.38	11.38	73.13	11.20	11.20	
8/25/2011	68.61	17.99	16.79	68.77	15.72	15.70	68.73	15.60	NA	
9/14/2011	68.37	18.40	16.95	68.60	15.90	NA	68.58	15.75	NA	
10/20/2011	67.89	19.29	17.29	NA	NA	NA	NA	NA	NA	
3/1/2012	68.16	17.53	17.57	67.94	16.56	16.46	Dry	NA	NA	
4/12/2012	67.98	18.61	17.42	68.18	16.32	NA	NA	16.15	NA	
6/21/2012 B	68.02	18.55	17.39	68.21	16.29	NP	68.22	16.11	NP	
6/21/2012 A	68.07	17.95	17.54	NP	NP	NP	NP	NP	NP	
9/5/2012 8	68.20	18.20	17.27	68.39	16.11	NP	68.37	15.96	NP	
9/5/2012 A	NA.	NA	NA	NA	NA	NA	NA	NA	NA.	
10/9/2012	NA	NA	NA	NA	NA	NA	68.62	15.71	NP	
12/28/12 B	67.87	18.95	17.45	68.07	16.43	NP	68.03	16.30	NP	
12/28/12 A	67.99	17.73	NP	NP	NP	NP	NP	NP	NP	
1/23/2013	68.60	17.52	17.12	68.63	15.87	NΡ	68.63	15.70	NP	
4/25/2013	70.69	15.03	15.03	70.74	13.76	13.76	70.73	13.60	13.60	
7/27/2018	70.35	15.37	NM	NM	NM	NM	NM	NM	NM	
2/9/2020	69.05	16.67	NM	NM	NM	NM	NM	NM	NM	

WELL NO		DMW-31						
DIAMETER		2						
WELL DEPTH	20							
SCREEN INTERVAL		unknown						
TOC ELEVATION		83.72						
DATE	ELEV	DTW	OTP					
4/25/2013	70.73	13.77	13.77					

WELL NO		RW-1			RW-2			RW-3		
DIAMETER		6			6			6		
WELL DEPTH		25			25			25		
SCREEN INTERVAL		unknown			unknown		unknown			
TOC ELEVATION	unknown				unknown		ипкломп			
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	EFEA	DTW	DTP	
7/30/2008	NM	NM	NM	NM	NM	NM	69.8	13.92	13.90	
1/23/2009	NM	17.39	16.41	NM	16.65	16.51	NM	15.86	15.77	
6/11/2010	NM 12.82 12.82		NM	12.63	12.63	NM	12.66	12.66		
4/25/2013	NM	15.21	15.21	NM	15.05	15.05	NM	15.05	15.05	

# TABLE 2: Groundwater Elevation Data

Facility Name:

Panhandle 66

Facility ID No: 17/8944981

NA-Data Not Available
NI-Not Installed

WELL NO		RW-4			RW-5			RW-6			
DIAMETER		6			6		6				
WELL DEPTH		25			25			25			
SCREEN INTERVAL		unknown			unknown		unknown				
TOC ELEVATION		unknown			unknown			unknown			
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	ELEV	DTW	DTP		
7/30/2008	NM	NM	NM	NM	NM	NM	69.80	13.92	13.90		
1/23/2009	NM	16.31	16.04	NM	16.23	15.79	NM	16.63	16.01		
6/11/2010	NM	12.55	12.55	NM	12.57	12.57	NM	12.79	12.79		
4/25/2013	NM	14.93	14.93	NM	14.90	14.90	NM	15.06	15.06		

WELL NO		M-1			M-2			M-3		
DIAMETER		2			2		2			
WELL DEPTH		25			25			25		
SCREEN INTERVAL		10-25'			10-25'			10-25'		
TOC ELEVATION	<del>                                     </del>	84.79			85.93			85.35		
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	ELEV	DTW	DTP	
9/24/2012	68.48	16.31	NP	68.54	17.39	NP	-	16.81	NP	
10/9/2012	68.58	16.21	NP	68.63	17.30	NP	68.6	16.75	NP	
4/25/2013	70.72	14.07	NP	70.75	15.18	NP	70.72	14.63	NP	
7/27/2018	NM	NM	NM	70.40	15.53	NP	NM	NM	NM	
2/9/2020	NM	NM	NM	69.12	16.81	NP	69.13	16.22	NP	

WELL NO		M-4		M-5			M-6			
DIAMETER		2			2			2		
WELL DEPTH		26			26		1	26		
SCREEN INTERVAL		10-25'			10-25'		Τ	10-25'		
TOC ELEVATION		85.48			85.91		Not Measured			
DATE	ELEV	DTW	DTP	ELEV	DTW	DTP	ELEV	DTW	DTP	
9/24/2012	68.55	16.93	NP	68.6	17.31	NP	-		_	
10/9/2012	68.62	16.86	NP	68.67	17.24	NP				
4/25/2013	70.72	14.76	NP	70.86	15.05	NP			-	
7/17/2013	NM	NM	NM	NM	NM	NM		15.35	NP	
7/27/2018	70.36	15.12	NP	NM	NM	NM	NM_	NM	NM	
2/9/2020	69.13	16.35	NP	NM	NM	NM	NM	NM	NM	

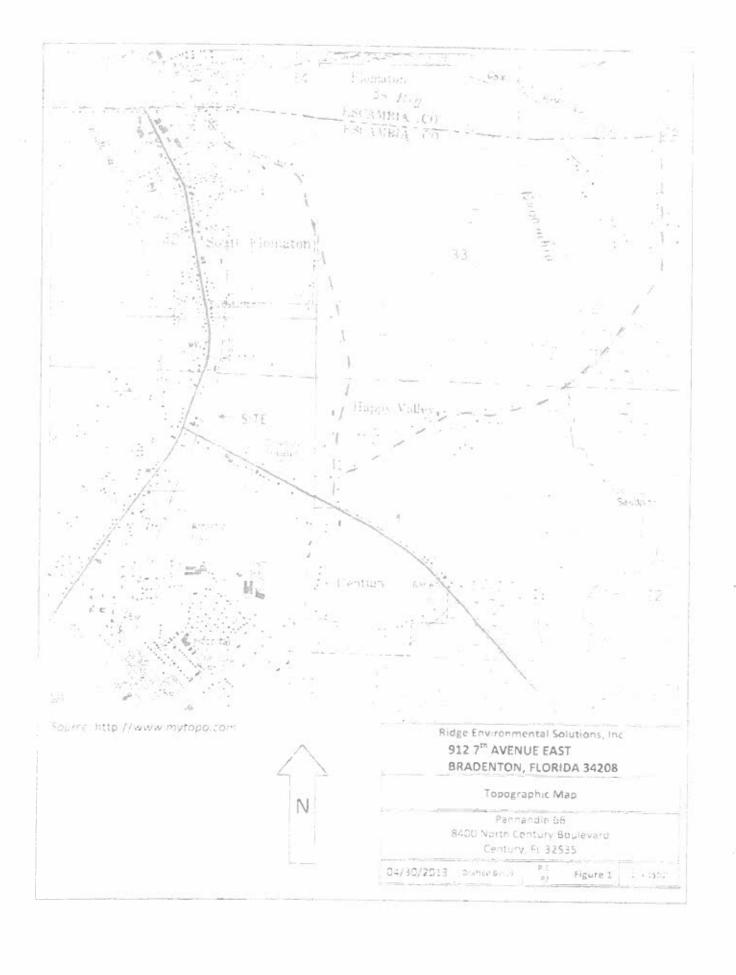
# **FIGURES**

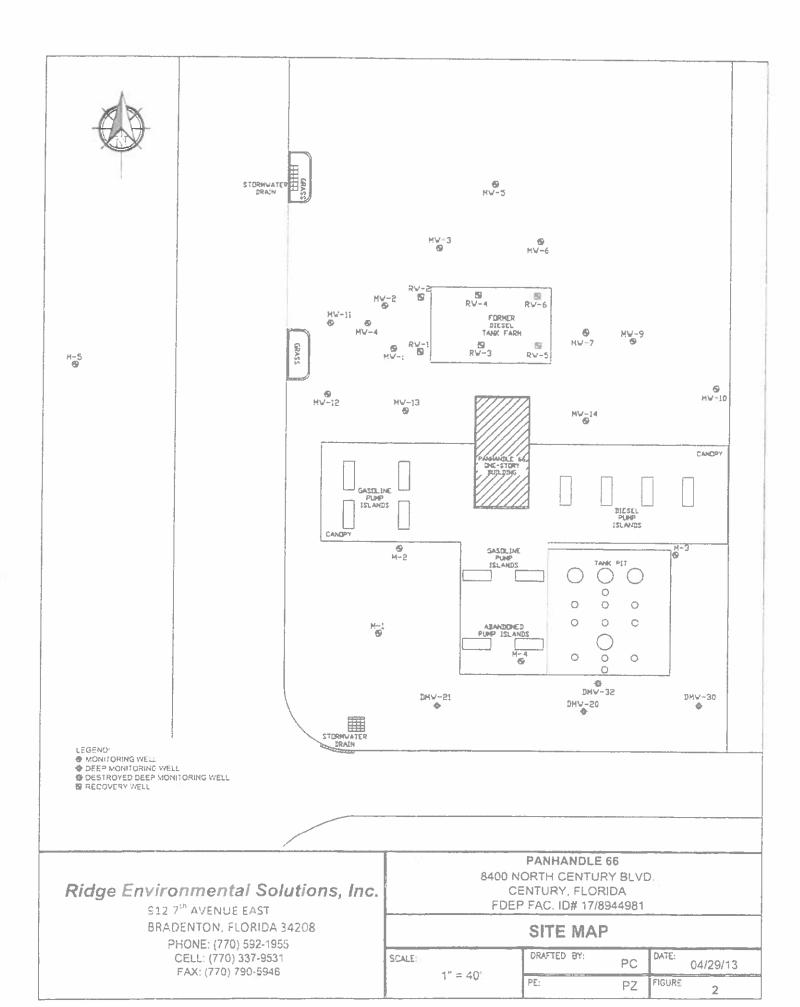
Figure 1 Topographic Map

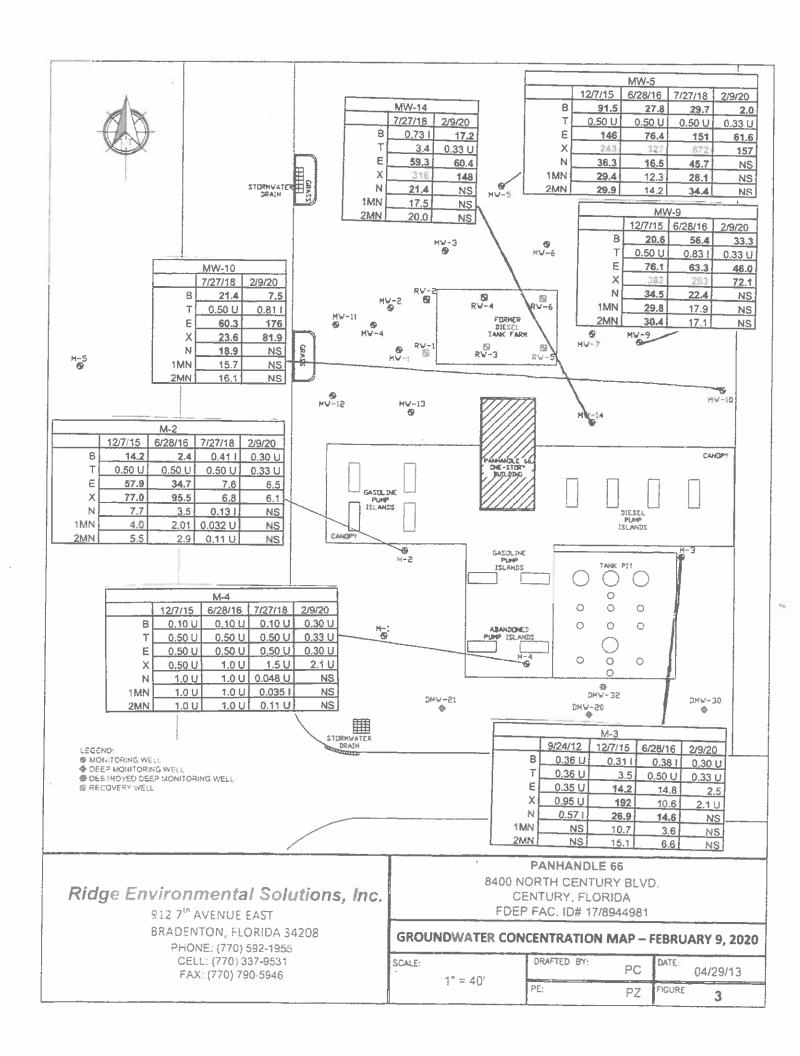
Figure 2 Site Map

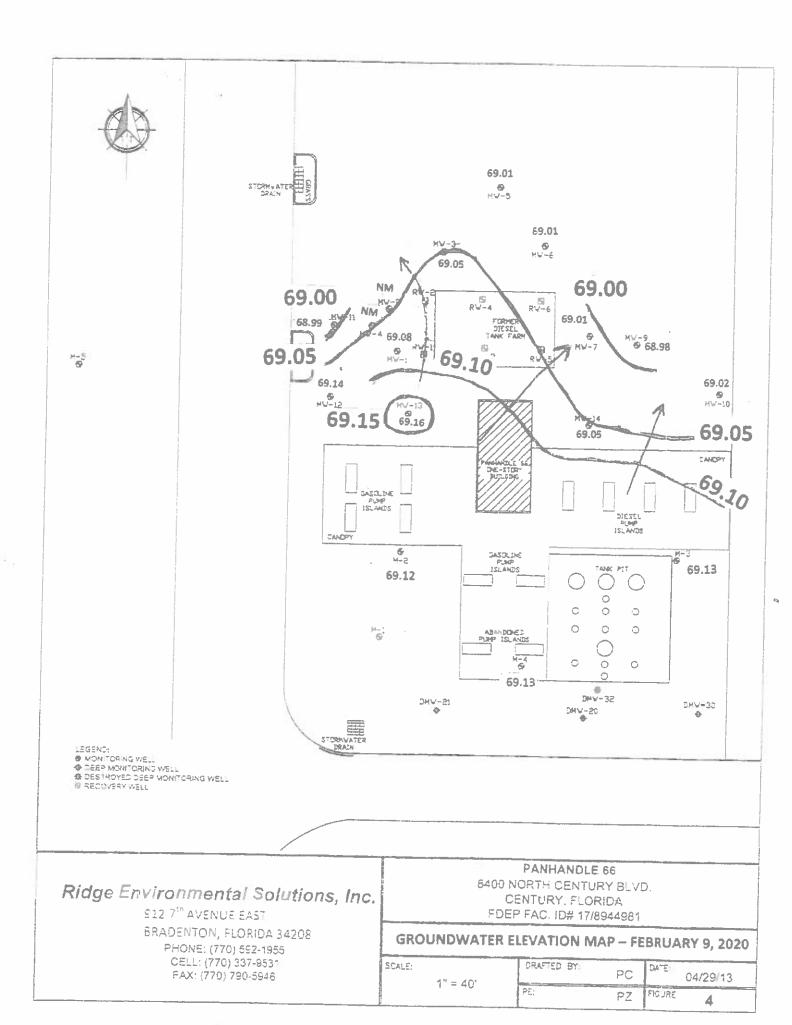
Figure 3 Groundwater Concentration Map

Figure 4 Groundwater Elevation Map (February 9, 2020)









# **APPENDIX A**

**Groundwater Sampling and Calibration Logs** 

SITE	ULADI EC EC				- S	OCATION: 84	.00 NORTH CEN	TURY BLVD, CE	NTURY, FLORI	DA	
WELL NO:	NHADLES 66			SAMPL		00/11/01/				9.20	
WELL NO.	IAI-5	<del></del>		0,		GING DA	ΤΔ			1 20	
WELL		TUBING	3	WE		INTERVAL	STATIC D	EPTH	PURGE	E PUMP TYPE	
DIAMETER	(inches): Z	DIAME	TER (inches): 3	/8" DE	PTH: 10 fee		eet TO WATE	R (feet):	OR BA	ILER:	<u> р</u>
(only fill out	if applicable)		= (	75	feet	16.81	feet) X	WELL CAPACIT	gallons/foot	= 1.3/	gallons
	IT VOLUME PU if applicable)	JRGE: 1 EQU	IIPMENT VOL.		LUME + (TU pallons + (			JBING LENGTH) feet) + NA		VOLUME ns = NA	gallons
	MP OR TUBING	G 18	FINAL PUM	P OR TUBIN		PURGIN		PURGING ENDED AT:		OTAL VOLUM	
TIME	VOLUME PURGED	CUMUL. VOLUME PURGED	PURGE RATE	DEPTH 10 WATER	рН (standard units)	TEMP	COND. (circle units)  µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
. 2.51	(gallons)	(gallons)	(gpm)	(feet)	5.8	234	70	% saturation	44	Clear	none
10.58	3	165	.15	17.22	58	23.4	70	1.62	53	1	1
11.00	-3	1.95	. 15	17.22	5.8	234	60	2.75	55		
11:10	1.5	2.43	.15	17.22	5.8	23.5	50	4.25	19		
11:12	-3	2.75	. 15	17:22	57	234	50	4.28	18		<u> </u>
11.14	-3	3,05	.15	17.22	5.7	23.5	50	4.24	17	<u> </u>	<u> </u>
				<u> </u>						-	
	ļ					1			<u> </u>	<u> </u>	
						<u> </u>					
	1				4					<u> </u>	<del>                                     </del>
WELL CAS	PACITY (Gallon ISIDE DIA. CAI	s Per Foot): ( PACITY (Gal./	0.75" = 0.02; Ft.): 1/8" = 0.0	1" = 0.04; 0006; 3/16	1.25" = 0. 6" = 0.0014;	06; 2" = 0.1 1/4" = 0.002					" = 5.88 " = 0.016
	EQUIPMENT C			3P = Bladder			Submersible Pu	mp; PP = Pe	ristaltic Pump;	O = Othe	r (Specify)
				OAMBI FOY		PLING D	ATA	<del></del>			
DAVID L Y	BY (PRINT) / A AZAK / RIDGE IS	ENVIRONTAL		SAMPLER		Jarak	/ 	SAMPLING INITIATED AT	44	SAMPLING ENDED AT:	11:15
PUMP OR	TUBING WELL (feet):	18		TUBING MATERIAL	CODE	OPA _		-FILTERED: Y on Equipment Type	, <b>©</b>	FILTER SIZE	:μm
	CONTAMINATION				TUBING	17.0	eplaced	DUPLICATE:	Y	0	
<u></u>	PLE CONTAINE		ATION	SAMPL	E PRESER	/ATION (includ	_	INTEND			AMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVA USED		TOTAL VOL	mL) FINAL	ANALYSIS A METHO			FLOW RATE mL per minute)
ID CODE	CONTANENO	CODE		3020			8260	BTEX- A	u A	PP	(200)
MW	3	CĠ	40.ml	HCL							
						<u></u>					
	<del></del> -						-				
REMARKS			<u> </u>						l	1	
										PP	Deliment de se
MATERIAL	CODES		T = Teflon;	O = Other	(Specify)	High Density		LDPE = Low De			Polypropylene:
SAMPLING	S EQUIPMENT	CODES:	APP = After (Th	rough) Peris e Flow Peris	taltic Pump; taitic Pump;	B = Bailer SM = Straw	BP = Blade Method (Tubing		O = Other (S		np:

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

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

<sup>2</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	WHADI EC CC				I .	OCATION: 84	00 NORTH CEN	TURY BLVD, CE	NTURY FLO	RIDA	
WELL NO:	NHADLES 66 M-3			SAMPLE		00/11/014	<u> </u>		DATE Z	100	,
***************************************						GING DA	TΔ			7_0-	
WELL		TUBING		WEL		INTERVAL	STATIC	DEPTH	PUR	GE PUMP T	YPE
DIAMETER	(inches): Z	DIAMET	ER (Inches): 3		TH: 10 fee		et TO WAT	ER (feet): / (, Z WELL CAPACI	C ORI	BAILER	PP
	if applicable)	1 WELL VOL	UME = (101/	25		16.22		11		t = 1,4	
EQUIPMEN	IT VOLUME PI	JRGE: 1 EQU	= ( IPMENT VOL.		feet - UME + (TU			UBING LENGTH)	+ FLOW CE		<b>り</b> gallons
	if applicable)				alions + (			feet) + NA	ga	illons =	NA galions
INITIAL PU	MP OR TUBIN	G , c/	FINAL PUM	P OR TUBING		PURGIN	G	PURGING	12:07	TOTAL VO	
DEPTH IN	WELL (feet):	18	DEPTH IN V		18	INITIATE	1.7	DISSOLVED	(6,00	PURGED (	gallons): 2 - [
	VOLUME	CUMUL.	PUNGE	DEPTH	pH (etendord	IEMP.	COND.	OXYGEN (circle units)	TURBIDIT	Y COLO	R ODOR
TIME	PURGED (gallons)	PURGED (gallons)	RATE (gpm)	WATER (feet)	(standard units)	(°C)	μmhos/cm <u>or</u> μS/cm	mg/L <u>or</u>	(NTUs)	(descri	pe) (describe)
30003		1.5	.15	11.27	5.6	24.2	60	% saturation	10	Cle	V hore
12.03	.3	1.5	.15	11,27	5.6	243	60	2.53	8	1	1
17:07	-3	2.1	.15	16.27	5.6	24.3	40	2.54	7		- 4
12.5											
								19			
						ļ <u>.</u>				-	
			ļ	1		<u> </u>				-	
							<u></u>	<u> </u>			
WELL CAP	ACITY (Gallon	s Per Foot): 0	.75" = 0.02;	1" = 0.04;	1.25" = 0.	06; 2" = 0.1	6; <b>3"</b> = 0.37;	4" = 0.65	500 - 600	6" = 1.47;	12" = 5.88
TUBING IN	SIDE DIA. CA	PACITY (Gal./F	t.). 1/8" = 0.0		= 0.0014;				008; 1/2" eristaltic Pumi	= 0.010;	5/8" = 0.016 ther (Specify)
PURGING	EQUIPMENT C	ODES: B	= Bailer; E	BP = Bladder F		PLING DA	Submersible Pu	mp, rr-re	anstallic Fullip	<u>, 0-0</u>	ther (opecity)
	BY (PRINT) / A			SAMPLER(S			1)	SAMPLING		SAMPLIN	IG _
DAVID L Y/ SOULTION	AZAK / RIDGE IS	ENVIRONTAL		/\	MAK	V HOW	K	INITIATED AT			12:08
PUMP OR	TUBING WELL (feet):	18		TUBING P MATERIAL CO	ODE. HI	DPEIL L		)-FILTERED: Y ion Equipment Ty:	De: (N)	FILTER S	IZE: μm
	ONTAMINATIO			1	TUBING		placed)	DUPLICATE:	Υ	(N)	
SAME	PLE CONTAINE	R SPECIFICA				ATION (includ		INTEND		AMPLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVAT USED		TOTAL VOL		ANALYSIS A METHO		CODE	(mL per minute)
M 3	3	CG	40 ml	11 C1		CO NET ICCO (I	8260	BIEX	-M	4 PP	2200
700				(1 01							
								ļ			
								<u> </u>			
REMARKS	•										
MATERIAL	CODES	AG = Amber (	Glass: CG =	Clear Glass:	HDPE =	High Density F	olyethylene:	LDPE = Low De	nsity Polyethy	/lene; PP	= Polypropylene;
		S = Silicone;		O = Other (S							
SAMPLING	EQUIPMENT		PP = After (Th			B = Bailer; SM = Straw		der Pump; ES Gravity Drain);	P = Electric S O = Other		Pump;
10750. 4	70						er 62-160. F.				

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

62-160,800 F.A.C. Revision Date: March 1, 2014

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

SITE NAME: PAN	UADI ES 66			·		TE CATION: 84	00 NORTH CEN	TURY BLVD, CE	NTURY, FLOR	IDA	
WELL NO:				SAMPLE						7.20	
			<del></del>		PURC	SING DA	TA				
WELL DIAMETER	(inches): Z	TUBINI DIAME	TER (inches): 3	/8" DEP	L SCREEN TH: 10 feet	to 25 f	STATIC D	R (feet): L G	5 PURG OR BA	E PUMP TY ILER:	PE PP
(only fill out	if applicable)			2.5	feet -	1635	feet) X	WELL CAPACI	gallons/foot	= (.3	7 gallons
	T VOLUME PU if applicable)	JRGE: 1 EQU	JIPMENT VOL.		illons + ( N			feet) + NA			IA gallons
INITIAL PUN DEPTH IN V	MP OR TUBING	3 18	FINAL PUMI	P OR TUBING		PURGIN		PURGING	1,1:1/-	OTAL VOL	UME
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PuRGE RATE (gpm)	DEPTH TO WATER (feet)	ρΗ (standard units)	TEMP (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUS)	COLOF (describ	e) (describe)
11.36	1.5	1.3	- 15	16.39	5.5	24.2	60	8.47	7_	Clar	c none
11:28	.3	1.3	.15	16.39	3.5	24.2	60	8.50	6		
11,40	.3	7.1	.15	16.39	5.5	24.2	60	844	6	V	Y
WELL CAP	ACITY (Gallon	s Per Foot):	0.75" = 0.02;	1" = 0.04,	1.25" = 0.0	6; 2" = 0.1	6; <b>3</b> " = 0.37;	4" = 0.65;		" = 1.47;	12" = 5.88
TUBING IN	SIDE DIA. CAI	PACITY (Gal.	Ft.): 1/8" = 0.0	006; 3/16" BP = Bladder F	= 0,0014; Pump: E	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pu		.006; 1/2" = eristaltic Pump;		5/8" = 0.016 her (Specify)
PORGING	-QOIFMENT C	ODES. E		·	SAMP	LING D					
	BY (PRINT) / A AZAK / RIDGE S			SAMPLER(S)	SIGNATUR	Unol		SAMPLING INITIATED AT	18:40	SAMPLIN ENDED A	1:19:47
PUMP OR T		18		TUBING MATERIAL CO	ODE H	P(E)		-FILTERED: Y on Equipment Ty	pe:	FILTER SI	ZE: μm
	ONTAMINATIO	ON: PU	AP Y (N	)	TUBING	Y (1	eplaced)	DUPLICATE:	Υ	(N)	
SAMPLE	LE CONTAINE	MATERIAL		PRESERVAT	IVE	ATION (includ TOTAL VOL ED IN FIELD (	FINAL	INTENDI ANALYSIS A METHO	ND/OR EQU	MPLING JIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
M Y	CONTAINERS 3	CODE	4cml	USED I+C1	ADDI		(IIIC) DE1	BTEX	M	APP	4200
								<del> </del>			
REMARKS:	O C										
							N-1 -41	I DDE - 1 2	naih, Dalumbur	DD DD	- Dolypropyloge
MATERIAL	2.0	AG = Amber S = Silicone;	T = Teflon;	O = Other (S	Specify)	High Density		LDPE = Low De	ensity Polyethyle SP = Electric Su		= Polypropylene;
SAMPLING	EQUIPMENT	CODES:	APP = After (Th	e Flow Perista	Itic Pump;		Method (Tubing	Gravity Drain)	O = Other (		entp,

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

<sup>2.</sup> Stabilization Criteria For Range of Variation of Last three consecutive Readings (SEE FS 2212, SECTION 3)

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

SITE			· ·			ITE	00 NORTH 051	TUDY BLVD OF	NTHEV ELA	PIDA	
	NHADLES 66			CAMBIE		UCATION: 84	UU NUKTH CEN	TURY BLVD, CE			
WELL NO:	MW-5			SAMPLE		01010	TA		<u> </u>	. 4.20	
		1 =		1,		GING DA	TA STATIC D	тертн	פוום	GE PUMP T	/PE
WELL DIAMETER	(inches): Z	TUBIN	TER (inches): 3	/8" DEP	TH: 10 feet		eet TO WATE	R (feet):	OR E	SAILER:	P
WELL VOL	UME PURGE:	1 WELL VO	LUME = (TOTA					WELL CAPACI	īΥ	1.2	
	if applicable)		= (	25	feet - 16.	95	feet) X	.16	gallons/fool	= 2-	gallons
		JRGE: 1 EQ	JIPMENT VOL.	= PUMP VOL	UME + (TU	BING CAPACI	דץ א דו	JBING LENGTH)	+ FLOW CEL	L VOLUME	
COLINY HIS OUT	if applicable)				allons + (			feet) + NA	ga		NA gallons
	MP OR TUBIN	G 18	FINAL PUM DEPTH IN V	P OR TUBING	18	PURGIN		PURGING ENDED AT:	8:28	TOTAL VOL PURGED (g	
DEFIN IN	WELL (feet):	CUMUL.	JES HINN	DEPTH			COND	DISSOLVED			
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	TO WATER (feet)	(standard units)	(°C)	(circle units)  µmhos/cm  or µS/cm	OXYGEN (circle units) mg/L or % saturation	TURBIDIT' (NTUs)	Y COLOI (describ	10 L 10 L 10 L
8 24	1.35	1.35	-15	10.15	6.0	239	100	. 33	7	Cleo	1 hore
3:26	5	1.65	-15	10.15	60	240	100	.31	6		
8.68	3	1.95	.15	14.13	6.0	13.9	100	.29	5	V	
<u> </u>	_ ·	1-1-2	1				F-1				
										_	
					2						
						1					
										_	
						11	<u> </u>				
MELL CAS	PACITY (Gallon	s Per Foot)	0.75" = 0.02	1" = 0.04.	1.25" = 0.0	06. 2" = 0.1	6; <b>3"</b> = 0.37;	4" = 0.65;	<b>5</b> " = 1.02;	6" = 1.47;	12" = 5.88
TUBING IN	ISIDE DIA. CA	PACITY (Gal.	/Ft.): 1/8" = 0.0	0006; 3/16"	= 0.0014;	1/4" = 0.002	26; 5/16" = 0				5/8" = 0.016
PURGING	EQUIPMENT (	CODES: E	3 = Bailer; E	BP = Bladder F		ESP = Electric	Submersible Pu	mp;	eristaltic Pumi	υ = O	ther (Specify)
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLER(S)			710	SAMPLING		SAMPLIN	IG -
	AZAK / RIDGE			\hat{h}	ird la	brak		INITIATED A	y		
PUMP OR	TUBING	18		TUBING MATERIAL C	ODE A	PE	FIELD	-FILTERED: Y on Equipment Ty	ne:	FILTER S	IZE: μm
	WELL (feet): CONTAMINATION			1	TUBING		eplaced)	DUPLICATE:		Ø	<del></del>
	PLE CONTAINE			<u>/</u> _		ATION (includ		INTEND		AMPLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVAT USED	IVE	TOTAL VOL	mL) FINAL	ANALYSIS A METHO	OC.	CODE	(mL per minute)
mus	3	(6	40ml	HCI			8260	BIEX	N	APP	€200
								1			
REMARKS	<b>3</b>		· · · ·								
MATERIAL	CODES	AG = Amber S = Silicone;	500	Clear Glass; O = Other (\$		High Density	Polyethylene;	LDPE = Low De	ensity Polyeth	ylene; PP	= Polypropylene;
SAMPLING	S EQUIPMENT	CODES:	APP = After (TI RFPP = Revers	rough) Perista	altic Pump;	B = Bailer SM = Straw	BP = Blad Method (Tubing		SP = Electric : O = Other		Pump;

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

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

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

### **DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG**

SITE		_				TE	ON NORTH CEN	TURY BLVD, CE	NTURY FLO	RIDA	
	NHADLES 66			SAMPLE		CATION. 64	OU NONTH CEN		28 7	(2	
WELL NO:	MVV-9			SAMPLE		INO DA	TA		7.0	1-20	
				IAIT1	L SCREEN	ING DA	STATIC D	NEDTH	PLIR	GE PUMP TY	/PF
WELL DIAMETER	R (inches): Z	TUBIN	TER (inches): 3	3/8* DEP	TH: 10 feet	to 25 f	eet TO WATE	ER (feet):	ORE	BAILER:	PP
WELL VOL	UME PURGE:	1 WELL VO	LUME = (TOT	AL WELL DEP	TH - STA	TIC DEPTH T	O WATER) X	WELL CAPACI	ŤΥ		
' '	t if applicable)		= (	ر 25	feet - 16	.61	feet) X	.16	gallons/foo	1.3	gallons
	NT VOLUME PU	JRGE: 1 EQU	JIPMENT VOL	. = PUMP VOL	UME + (TUB	ING CAPACI	TY X TE	JBING LENGTH)	+ FLOW CEI		
(6111) 1111 00			-1		illons + ( N			feet) + NA	ga	TOTAL VOL	NA gallons
	IMP OR TUBIN WELL (feet):	G 18		IP OR TUBING WELL (feet):	18	PURGIN	EDAT: 8:35	PURGING ENDED AT:	9:08	PURGED (9	
<i>DEI</i> *******	1	CUMUL.		DEPTH			COND.	DISSOLVED			
TIME	VOLUME PURGED	VOLUME	PURGE RATE	TO WATER	ρΗ (standard	1EMP. (°C)	(circle units) µmhos/cm	(circle units)	TURBIDIT	Y COLOI (describ	24
	(gallons)	PURGED (gallons)	(gpm)	(feet)	units)	( 0,	or µS/cm	mg/L or % saturation		,	, , ,
9.04	1.35	1.35	- 15	14.65	6.3	23.2	330	.78	3	cle	None
4:06	. 3	1.65	. 15	16.65	6.3	Z3. (	3 70	75.	3		1
9.08	.3	1.95	15	16.65	63	23.2	320	.25	3	<u> </u>	\ <u>\</u>
						E E					
	ļ										
										+	
MELL CAL	PACITY (Gallon	e Der Foot):	0.75" = 0.02	1" = 0.04;	1.25" = 0.0	6: 2" = 0.1	  6: 3" = 0.37;	4" = 0.65;	<u> </u> 5" = 1.02;	<b>6"</b> = 1.47;	12" = 5.88
TUBING IN	ISIDE DIA. CAI	PACITY (Gal.	'Ft.): 1/8" = 0.	0006; 3/16"	= 0.0014;	1/4" = 0.002	26; <b>5/16"</b> = 0				5/8" = 0.016
PURGING	EQUIPMENT C	ODES: E	s = Bailer;	BP = Bladder F			Submersible Pu	mp; PP = P6	eristaltic Pump	p; <b>0</b> = 0	ther (Specify)
CAMPIED	BY (PRINT) / A	FEILIATION:		SAMPLER(S)		LING DA	AIA	CANADIANO		SAMPLIN	
DAVIDLY	AZAK / RIDGE		L	4	אמיי	laust		SAMPLING INITIATED AT	T: 9:08		T: 9109
PUMP OR		18		TUBING		15/2		-FILTERED: Y	(N)	FILTER S	IZE:μm
	WELL (feet):		4D V 4T	MATERIAL C		dried	eplaced Filtrati	OUPLICATE:		(N)	
-	CONTAMINATE				TUBING	ATION (includ		INTEND		AMPLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	- MATERIAL CODE	VOLUME	PRESERVAT USED	IVE .	TOTAL VOL	FINAL	ANALYSIS A METHO	ND/OR E	CODE	FLOW RATE (mL per minute)
Mug	3	<i>CG</i>	40ml	HCL			8260	BIEX.	u /	(PP	<b>4</b> 20€
	-		V.			_					
				· · · · · · · · · · · · · · · · · · ·							
REMARKS	3:										
MATERIA	L CODES:	AG = Amber S = Silicone;	·	Clear Glass; O = Other (S		High Density	Polyethylene;	LDPE = Low De	ensity Polyeth	ylene; PP	= Polypropylene;
SAMPLIN	G EQUIPMENT		APP = After (T RFPP = Revers			B = Bailer SM = Straw	; BP = Blade Method (Tubing		SP = Electric : O = Other		Pump:

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

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

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

### **DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG**

SITE NAME PA	NHADLES 66					TE CATION: 84	00 NORTH CEN	TURY BLVD, CE	NTURY, FLOR	IDA	
WELL NO:				SAMPLE				107	- 48 <sup>13</sup> 100	4-20	
				!	PURG	ING DA	TA			1 00	
WELL DIAMETER	R (inches): Z		TER (inches):	3/8" DEP	L SCREEN TH: 10 feet	INTERVAL to 25 fe	STATIC E	R (feet):	CG OR BA	E PUMP TYP	<b>5</b> 3
	UME PURGE: t if applicable)	1 WELL VO			TH - STA			WELL CAPACI	TY gailons/foot	= 1.3	و gallons
	NT VOLUME Po t if applicable)	URGE: 1 EQ		= PUMP VOL	UME + (TUB	ING CAPACI	TY X TI	JBING LENGTH)  feet) + NA		VOLUME ns = NA	gallons
I	IMP OR TUBIN WELL (feet):	G 18		IP OR TUBING		PURGIN	G 0 10	PURGING		OTAL VOLU PURGED (gal	MF
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR
9:18	1.5	1.5	.15	14.29	6.0	23.1	220	.23	Z	cless	none
9:30	- 3	1-8	.15	16.29	4.0	23.2	210	122	2	1	
9:32	. 3	2.(	, 15	16.29	<b>C</b> .0	23.2	210	.72	7	Y	*
					07	14					
			7.5								
			1		i i						
WELL CAI	PACITY (Gallon ISIDE DIA. CAI	s Per Foot):		1" = 0.04;	1,25" = 0.06 = 0.0014;	3; 2" = 0.16 1/4" = 0.002					2" = 5.88 B" = 0.016
	EQUIPMENT (			3P = Bladder P			Submersible Pur	1-4	ristaltic Pump;	-	er (Specify)
						LING DA	TA				
	BY (PRINT) / A AZAK / RIDGE IS		-	SAMPLER(S)	SIGNATURE	(S):		SAMPLING INITIATED AT	9:32	SAMPLING ENDED AT:	9:33
PUMP OR		18		TUBING MATERIAL CO	DDE: H	DPE		FILTERED Y	De:	FILTER SIZE	Ε:μm
	CONTAMINATIO		AP Y (N	)	TUBING	Y (re	placed)	DUPLICATE:	Y	(N)	
SAMI	PLE CONTAINE		I I			TION (includi		INTENDE ANALYSIS AI		IPLING S	SAMPLE PUMP FLOW RATE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		OTAL VOL D IN FIELD (r		METHO			(mL per minute)
MUK	3	CG	40ml	HCI			8260	BTEX	M	IP .	4 ZW
			<del></del>								
-							-				
REMARKS											
MATERIAL	. CODES:	AG = Amber S = Silicone;	Glass; CG = T = Teflon;	Clear Glass; O = Other (S		ligh Density P	olyethylene;	LDPE = Low Der	nsity Polyethyle	ne; PP = :	Polypropylene;
SAMPLING	EQUIPMENT		APP = After (Th RFPP = Revers			B = Bailer; SM = Straw	BP = Bladd Method (Tubing		P = Electric Sut O = Other (S		mp;

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

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

62-160.800 F.A.C. Revision Date: March 1, 2014

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

### DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE	ILLADI EC SE				SIT	E CATION: 84	00 NORTH CEN	TURY BLVD, CE	NTURY, FU	ORIDA	
WELL NO:	IHADLES 66 MW-14			SAMPLE				-: · · · · · · · · · · · · · · · · · · ·	DATE	2.4.2	O
- TVLLE NO.		174			PURG	ING DA	TA				
WELL DIAMETER WELL VOL	(inches): Z UME PURGE: if applicable)	TUBING DIAMET	ER (inches): 3	/8" DEP	L SCREEN I TH: 10 feet I TH - STA	NTERVAL to 25 f	STATIC I eet TO WATE O WATER) X	WELL CAPACI	7 OR	RGE PUMP TY BAILER: F	79
EQUIPMEN	IT VOLUME PU	JRGE: 1 EQUI	= ( PMENT VOL.	= PUMP VOL	feet - (TUB UME + (TUB illons + ( N		TY X T	UBING LENGTH)		ELL VOLUME	Gailons  IA gailons
	MP OR TUBING	3 18	FINAL PUM DEPTH IN V	P OR TUBING		PURGIN	<del></del>		9.56	TOTAL VOL PURGED (g	UME allons) 1 95
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circie units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDI (NTUs)	(describ	e) (describe)
9:52	1.35	1:35	115	16.76	62	21.8	150	.31	2	cley	1 none
8.54	. 3	1.65	.15	16.76	6.2	21.8	150	.33	2	+++	
9.51	-3	1.95	.15	1676	6.2	21.9	150	.34		*	1
84											
TUBING IN	PACITY (Gallon ISIDE DIA. CAI	PACITY (Gal./F	(t.): 1/8" = 0.0	1" = 0.04; 0006; 3/16" BP = Bladder F	1.25" = 0.00 = 0.0014	1/4" = 0.002	•	.004: 3/8" = 0	5" = 1.02; 0.006; 1/2 eristaltic Pur	6" = 1.47; 2" = 0.010; mp: O = O	12" = 5.88 5/8" = 0.016 ther (Specify)
PURGING	EQUIPMENT C	ODES: B	= Bailer; I	SP - Bladdel F		LING D					
SAMPLED DAVID L Y	BY (PRINT) / A AZAK / RIDGE IS	FFILIATION: ENVIRONTAL	1.6	SAMPLER(S)				SAMPLING INITIATED A	<u> </u>		T 9.57
PUMP OR	TUBING WELL (feet):	18		TUBING MATERIAL C	ODE: 1/1	184		D-FILTERED: Y		FILTER S	1ΖΕ: μιιι
	ONTAMINATIO	ON: PUM	P Y (S	/	TUBING	Y NO	eplaced	DUPLICATE	Y	<u> </u>	
SAMPLE	PLE CONTAINE	MATERIAL	TION	PRESERVAT	IVE	ATION (includ	FINAL	INTEND ANALYSIS A METHO	ND/OR	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
ID CODE	CONTAINERS	CODE	40 ml	USED	ADDE	D IN FIELD	(mL) pH	BTEX-	М	APP	4200
REMARKS											
MATERIA			T = Teflon;	Clear Glass; O = Other (	Specify)		Polyethylene:	LDPE = Low D		thylene; PF	Pump
SAMPLING	S EQUIPMENT	CODES:	APP = After (TI AFPP = Revers	se Flow Perista	altic Pump;		r; BP = Blac v Method (Tubin ter 62-160 F.	g Gravity Drain)		er (Specify)	. Only,

NOTES: 1. The above do not constitute all of the information required by Chap

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

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

# Form FD9000-8 CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page

Meter#

YST SSO

Project/Site:

No	Dissolved Oxygen Membrane Changed: Yes	γgen Membra	Dissolved Ox	Yes No	e Cleaned?	Specific Conductance Probe Cleaned?	Specific Con			Maintenanace: Weekly ph Slope:	ce: Weekly	tenana	Main
P F											CCV	5	CAL
PF		!									60	5	CAL
P F		e e									CCV	5	CAL
P Fi											CCV	5	CAL
P FI											ςς	2	CAL
Þ											V	2	CAL
PF											000	2	S
a: +/-0.2 SU	Acceptane Criteria: +/-0.2 SU					;							
Fail	SU					US				FT 1100			
Pass or	Reading	Slope	Bottle #	Lot#	Exp. Date	Standard	Time	Date	Initials	DEP SOP			Ρh
7											(()	(	Ş
, ,											3 6	2 3	2 6
o '											5	Ş	C A
ם ה										_	S	5	Ω
P										_	ξ	5	CAL
P FI											CCV	5	ΩL
<b>7</b> 0											CCV	5	CAL
P											CCV	2	CAL
ria: +/-5%	Acceptane Criteria: +/-5%												
Fail	umhos/cm	Constant				umhos/cm				FT 1200	ro	Conductance	Cond
Pass or	Reading	Cell	Bottle #	Lot#	Exp. Date	Standard	Time	Date	Initials	DEP SOP		fic	Specific
יד דו											CCV	Ş	SAL
PF											CCV	5	CAL
P FI											CCV	5	CAL
P											CCV	2	CAL
P			; ;								CCV	5	CAL
P		83 4%	4.92	16.11			17.17	+	<	•	CCV	5	CAL
:: +/-0.3mg/l P F	Acceptane Criteria: +/-0.3mg/l	100.6	9.3	14.47			818	2.9.0	484		CC	<u>S</u>	<u>Ş</u>
Fail	mg/L				Gain	Charge				FT 1500			
Pass or	Saturation	% DO	Temp °c	mg/L	Probe	Probe	Time	Date	Initials	DEP SOP	xygen	Dissolved Oxygen	Disso
		in log book				ication see	rature Verifi	For Date of Last Temeperature Verification see	For Date of		Temperature (Quarterly)	eratur	[emp

Perform only in Calibrate Mod: Perform only in Run Mod: Perform only in Run Mode:

Notes:

CAL - Calibrate
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

No Dissolved Oxygen Membrane Changed: Yes

# Form FD9000-8 CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Project/Site: 666

Date: 292

Boldly "X" this box if there is qualified data on this page

ā	CHARLE CARRELL METHOLOTIC CHARREST 163	vABerr teremon	019901400	3	, (),	adeception / Total	- Contract C					S.	Notes:
N.	ı	wan Mombr	Discolved O	Vac No	o Cleaned?	Specific Conductance Probe Cleaned	Specific Con-			Maintenanace: Weekly ph Slope:	ce: Weekl	tenana	
P											CCV	2	CΑL
ъ П											CCV	5	S
יטר דו											CCV	2	CAL
P	63			(	<	0	C122 }	K	4		CCV	2	CAL
<b>В</b>	4.0			_		0.1	41:21	_			CCV	2	CAL
(6) F	7,0			960119	12.2	is.	بي				ξ	2	CAL
(P)	4.0		نٽ	960303	12.7	0.1	2.5	29.20	200		CCV	2	CAL
n: +/-0.2 SU	Acceptane Criteria: +/-0.2 SU								<i>\</i>				
Fail	SU					SU				FT 1100			
Pass or	Reading	Slope	Bottle#	Lot #	Exp. Date	Standard	Time	Date	Initials	DEP SOP			Ph
יסי יו											CCV	S S	CAL
ם ח											CΩ	2	CAL
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P										7,9,	5	S	CAL
P T											ζ	5	CAL
PO TI	1330			-	-		17:18	4	4		CCV	2	CAL
( <del>)</del>	014			1910234	07.11	409	128	2.9.20	N/S		CCV	2	CAL
ia: +/-5%	Acceptane Criteria: +/-5%					}	1		?				
Fail	umhos/cm	Constant				umhos/cm				FT 1200	è	Conductance	Conc
Pass or	Reading	Cell	Bottle #	Lot #	Exp. Date	Standard	Time	Date	Initials	DEP SOP		ific	Specific
													•
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רד דו											733	5	CAL
<b>1</b> 0											733	5	CAL
P											733	5	CAL
יד דו											CCV	5	CAL
P FI											CCV	5	CAL
P											CCV	5	CAL
+/-0.3mg/l	Acceptane Criteria: +/-0.3mg/												
Fail	mg/L				Gain	Charge			)	FT 1500			
Pass or	Saturation	% DO	Temp °c	mg/L	Probe	Probe	Time	Date	Initials	DEP SOP	xygen	Dissolved Oxygen	Disso
		in log book				cation see	rature Verifi	For Date of Last Temeperature Verification see	For Date of		Temperature (Quarterly)	peratur	Tem

Perform only in Calibrate Mod: Perform only in Run Mod: Perform only in Run Mode!

CAL - Calibrate
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

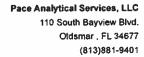
### FT 1000 General Field Testing and Measurement

	Form F	D 9000-8: F	ield instr	UMENT CALIB	RATION	RECORDS	
Instrument (Make	:/Model #	1) Hach	Z100 P	Inst	rument #	020400026	.210
Parameter: (Checi	k only on	e)					
☐Temperature (°	Cor°F)	□ Conduc	ctivity	<b>□</b> Salinity	□рН	□ORP	
Turbidity	□Res	sidual CI	□DO	□o <sup>1</sup>	<b>VA</b>	□Other	
Standards: [Specification standard values, and standard values, and standard values]					_	in of the standards,  ]	the
Standard A		0.01	· <u> </u>				
Standard B	12	70		-			
Standard C		100	800				

Date	Time	STD A, B, C	STD Value	Instrument Response	% DEV	Calibrated Yes, No	Type Initial (I) Continuous (C) Final (F)	Sampler Initials	Site Name	Post Check
2-2-2	8.07	A	0.0	0	εſ	У	I	24	P66	
	808	В	20	20		y	I	10		
	809	С	100	100		У	Ī	25		
	8.10	.D	800	7.99		Y	I			
	12:18	A	0.01	U		N	F			Y
	12:18	В	20	w	K,	N	F			γ
	12:18	С	100	101		N	F			γ
	12:K	D	800	804		N	F	V	V	У
-										
							Lx .			

# APPENDIX B

**Laboratory Analytical Report** 





February 13, 2020

Patrick W. Zomer Ridge Environmental Solutions, Inc. 912 7th Avenue East Bradenton, FL 34208

RE: Project: Century Florida GW

Pace Project No.: 35529744

### Dear Patrick Zomer:

Enclosed are the analytical results for sample(s) received by the laboratory on February 11, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Lori Palmer

lori.palmer@pacelabs.com

XA Palmer

813-855-1844 Project Manager

Enclosures







### **CERTIFICATIONS**

Project:

Century Florida GW

Pace Project No.:

35529744

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST Alabama Certification #: 41320 Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383 Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maryland Certification: #346 Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 New Hampshire Certification #: 2958 New Jersey Certification #: FL022 New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974

Tennessee Certification #: 1N02974
Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity



### **SAMPLE SUMMARY**

Project:

Century Florida GW

Pace Project No.: 35529744

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35529744001	MW-5	Water	02/09/20 08:29	02/11/20 09:45
35529744002	MW-10	Water	02/09/20 09:33	02/11/20 09:45
35529744003	MW-14	Water	02/09/20 09:57	02/11/20 09:45
35529744004	MW-9	Water	02/09/20 09:09	02/11/20 09:45
35529744005	M-2	Water	02/09/20 11:15	02/11/20 09:45
35529744006	M-3	Water	02/09/20 12:08	02/11/20 09:45
35529744007	M-4	Water	02/09/20 11:40	02/11/20 09:45



### **SAMPLE ANALYTE COUNT**

Project:

Century Florida GW

Pace Project No.:

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35529744001	MW-5	EPA 8260	SK1	8
35529744002	MW-10	EPA 8260	SK1	8
35529744003	MW-14	EPA 8260	SK1	8
35529744004	MW-9	EPA 8260	SK1	8
35529744005	M-2	EPA 8260	SK1	8
35529744006	M-3	EPA 8260	SK1	8
35529744007	M-4	EPA 8260	SK1	8





Project:

Century Florida GW

Pace Project No.:

Date: 02/13/2020 12:25 PM

Sample: MW-5	Lab ID:	35529744001	Collecte	d: 02/09/20	08:29	Received: 02	/11/20 09:45 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV, Short List	Analytical	Method: EPA 8	260						
Benzene	2.0	ug/L	1.0	0.30	1		02/13/20 00:59	71-43-2	
Ethylbenzene	61.6	ug/L	1.0	0.30	1	12	02/13/20 00:59	100-41-4	
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		02/13/20 00:59	1634-04-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		02/13/20 00:59	108-88-3	
Xylene (Total)	157	ug/L	5.0	2.1	1		02/13/20 00:59	1330-20-7	
Surrogates		_							
4-Bromofluorobenzene (S)	100	%	70-130		1		02/13/20 00:59	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		02/13/20 00:59	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/13/20 00:59	2037-26-5	



Project:

Century Florida GW

Pace Project No.:

Date: 02/13/2020 12:25 PM

Sample: MW-10	Lab ID:	35529744002	Collecte	d: 02/09/20	09:33	Received: 02	/11/20 09 45 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV, Short List	Analytical	Method: EPA 8	260						
Benzene	7.5	ug/L	1.0	0.30	1		02/13/20 01:49	71-43-2	
Ethylbenzene	176	ug/L	1.0	0.30	1		02/13/20 01:49	100-41-4	
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		02/13/20 01:49	1634-04-4	
Toluene	0.81 I	ug/L	1.0	0.33	1		02/13/20 01:49	108-88-3	
Xylene (Total)	81.9	ug/L	5.0	2.1	1		02/13/20 01:49	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		02/13/20 01:49	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/13/20 01:49	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/13/20 01:49	2037-26-5	



Project:

Century Florida GW

Pace Project No.: 35529744

Date: 02/13/2020 12:25 PM

Sample: MW-14	Lab ID:	35529744003	Collecte	d: 02/09/20	09:57	Received: 02	/11/20 09:45 M	atrīx: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV, Short List	Analytical	Method: EPA 8	260						
Benzene	17.2	ug/L	1.0	0.30	1		02/13/20 02:14	71-43-2	
Ethylbenzene	60.4	ug/L	1.0	0.30	1		02/13/20 02:14	100-41-4	
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		02/13/20 02:14	1634-04-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		02/13/20 02:14	108-88-3	
Xylene (Total) Surrogates	148	ug/L	5.0	2.1	1		02/13/20 02:14	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/13/20 02:14	460-00-4	
1.2-Dichloroethane-d4 (S)	100	%	70-130		1		02/13/20 02:14	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		02/13/20 02:14	2037-26-5	



Project:

Century Florida GW

Pace Project No.:

Date: 02/13/2020 12:25 PM

Sample: MW-9	Lab ID:	Collecte	d: 02/09/20	09:09	Received: 02	/11/20 09:45 Ma	Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV, Short List	Analytical	Method: EPA 8	260						
Benzene	33.3	ug/L	1.0	0.30	1		02/13/20 02:39	71-43-2	
Ethylbenzene	46.0	ug/L	1.0	0.30	1		02/13/20 02:39	100-41-4	
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		02/13/20 02:39	1634-04-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		02/13/20 02:39	108-88-3	
Xylene (Total) Surrogates	72.1	ug/L	5.0	2.1	1		02/13/20 02:39	1330-20-7	
4-Bromofluorobenzene (S)	103	%	70-130		1		02/13/20 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/13/20 02:39	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		02/13/20 02:39	2037-26-5	



Project:

Century Florida GW

Pace Project No.: 35529744

Date: 02/13/2020 12:25 PM

Sample: M-2	Lab ID:	Collecte	d: 02/09/20	11:15	Received: 02	/11/20 09:45 Ma	atrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV, Short List	Analytical	Method: EPA 8	260						
Benzene	0.30 U	ug/L	1.0	0.30	1		02/13/20 03:04	71-43-2	
Ethylbenzene	6.5	ug/L	1.0	0.30	1		02/13/20 03:04	100-41-4	
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		02/13/20 03:04	1634-04-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		02/13/20 03:04	108-88-3	
Xylene (Total) Surrogates	6.1	ug/L	5.0	2.1	1		02/13/20 03:04	1330-20-7	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/13/20 03:04	460-00-4	
1.2-Dichloroethane-d4 (S)	98	%	70-130		1		02/13/20 03:04	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/13/20 03:04	2037-26-5	



Project:

Century Florida GW

Pace Project No.:

Date: 02/13/2020 12:25 PM

Sample: M-3	Lab ID:	Lab ID: 35529744006			12:08	Received: 02	2/11/20 09:45 Ma	Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV, Short List	Analytical	Method: EPA 8	260							
Benzene	0.30 U	ug/L	1.0	0.30	1		02/13/20 03:29	71-43-2		
Ethylbenzene	2.5	ug/L	1.0	0.30	1		02/13/20 03:29	100-41-4		
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		02/13/20 03:29	1634-04-4		
Toluene	0.33 U	ug/L	1.0	0.33	1		02/13/20 03:29	108-88-3		
Xylene (Total)	2.1 U	ug/L	5.0	2.1	1		02/13/20 03:29	1330-20-7		
Surrogates										
4-Bromofluorobenzene (S)	100	%	70-130		1		02/13/20 03:29	460-00-4		
1.2-Dichloroethane-d4 (S)	99	%	70-130		1		02/13/20 03:29	17060-07-0		
Toluene-d8 (S)	101	%	70-130		1		02/13/20 03:29	2037-26-5		



Project:

Century Florida GW

Pace Project No.: 35529744

Date: 02/13/2020 12:25 PM

Sample: M-4	Lab ID:	35529744007	Collecte	d: 02/09/20	11:40	Received: 02	2/11/20 09:45 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV, Short List	Analytical	Method EPA 8	260						
Benzene	0.30 U	ug/L	1.0	0.30	1		02/13/20 03:54	71-43-2	
Ethylbenzene	0.30 U	ug/L	1.0	0.30	1		02/13/20 03:54	100-41-4	
Methyl-tert-butyl ether	0.51 U	ug/L	2.0	0.51	1		02/13/20 03:54	1634-04-4	
Toluene	0.33 U	ug/L	1.0	0.33	1		02/13/20 03:54	108-88-3	
Xylene (Total) Surrogates	2.1 U	ug/L	5.0	2.1	1		02/13/20 03:54	1330-20-7	
4-Bromofluorobenzene (S)	102	%	70-130		1		02/13/20 03:54	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/13/20 03:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/13/20 03:54	2037-26-5	



### **QUALITY CONTROL DATA**

Project:

Century Florida GW

Pace Project No.:

35529744

QC Batch:

609867

Analysis Method:

EPA 8260

QC Batch Method:

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples:

35529744001, 35529744002, 35529744003, 35529744004, 35529744005, 35529744006, 35529744007

METHOD BLANK: 3314407

Matrix: Water

Date: 02/13/2020 12:25 PM

Associated Lab Samples: 35529744001, 35529744002, 35529744003, 35529744004, 35529744005, 35529744006, 35529744007

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.30 U	1.0	0.30	02/12/20 22:55	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	02/12/20 22:55	
Methyl-tert-butyl ether	ug/L	0.51 U	2.0	0.51	02/12/20 22:55	
Toluene	ug/L	0.33 U	1.0	0.33	02/12/20 22:55	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	02/12/20 22:55	
1,2-Dichloroethane-d4 (S)	%	110	70-130		02/12/20 22:55	
4-Bromofluorobenzene (S)	%	93	70-130		02/12/20 22:55	
Toluene-d8 (S)	%	102	70-130		02/12/20 22:55	

ABORATORY CONTROL SAMPL	E: 3314408					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
ene	ug/L	20	20.6	103	70-130	
enzene	ug/L	20	19.5	97	70-130	
yl-tert-butyl ether	ug/L	20	17.0	85	64-124	
ne	ug/L	20	19.8	99	70-130	
e (Total)	ug/L	60	59.2	99	70-130	
chloroethane-d4 (S)	%			101	70-130	
omofluorobenzene (S)	%			98	70-130	
ene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE:	3314410						
		35529744002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L	7.5	20	29.3	109	70-130	
Ethylbenzene	ug/L	176	20	199	116	70-130	
Methyl-tert-butyl ether	ug/L	0.51 U	20	18.5	91	64-124	
Toluene	ug/L	0.81 l	20	21.2	102	70-130	
Xylene (Total)	ug/L	81.9	60	151	115	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 3314409						
		35529744001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Benzene	ug/L	2.0	1.8	11	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS





### **QUALITY CONTROL DATA**

Project:

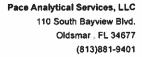
Century Florida GW

Pace Project No.: 35529744

Date: 02/13/2020 12:25 PM

SAMPLE DUPLICATE: 3314409						
Parameter	Units	35529744001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	61.6	61.3	0	40	
Methyl-tert-butyl ether	ug/L	0.51 U	0.51 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
Xylene (Total)	ug/L	157	157	0	40	
1,2-Dichloroethane-d4 (S)	%	110	107		40	
4-Bromofluorobenzene (S)	%	100	100		40	
Toluene-d8 (S)	%	105	104		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





### **QUALIFIERS**

Project:

Century Florida GW

Pace Project No.:

35529744

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### **ANALYTE QUALIFIERS**

Date: 02/13/2020 12:25 PM

- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- U Compound was analyzed for but not detected.





### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

Century Florida GW

Pace Project No.:

Date: 02/13/2020 12:25 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35529744001		EPA 8260	609867		
35529744002	MW-10	EPA 8260	609867		
35529744003	MW-14	EPA 8260	609867		
35529744004	MW-9	EPA 8260	609867		
35529744005	M-2	EPA 8260	609867		
35529744006	M-3	EPA 8260	609867		
35529744007	M-4	EPA 8260	609867		



CHAIN-OF-CUSTODY / Analytical Request Do WO#: 35529744

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

Section C
Invoice Information:

Attention

Attention

35529744

						12	1	10	9	8	7	o	Oi	4	ω	2	1	!TEM#		Reques	Phone.	Email:	Bradent	Address:	Required
				Empty Containers	ADDITIONAL COMMENTS			J	M-4	M-3	M-2	MW-9	MW-14	MW-10	MW-12 Net Sampler	MW-11 Not Sanold)	MW-5	SAMPLE ID  SAMPLE ID  Solver  One Character per box.  (A-Z, 0.91 , .)  Sample Ids must be unique  Fissi	тап	Requested Due Date	1	pzomer@ridgeenviranmenta	Bradenton, FL 34208		8
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Pace Analytical

Project Manager Review:

# Document Name Sample Condition Upon Receipt Form Document No F-FL-C-007 rev. 13

Document Revised
May 30, 2018
Issuing Authority
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #

NU#: 35529/4

Date and Initials of person:

PM: LAP Due Date: 02/18/20 Examining contents: ) **Project Manager:** CLIENT: 37-RIDGEENV Label: Client: Deliver: pH: Thermometer Used: 7263 Date: 2/4/20 Time: 945 Initials: MVC State of Origin: \_ For Wy projects, all containers verified to ≤6 °C Cooler #1 Temp. 'C 5.7 (Visual) + C. 1 (Correction Factor) 5 8 (Actual) Samples on ice, cooling process has begun Cooler #2 Temp. \*C\_\_\_\_\_(Visual) \_\_\_\_\_(Correction Factor) \_\_\_\_\_(Actual) Samples on ice, cooling process has begun \_(Visual) \_\_\_\_(Correction Factor) (Actual) Cooler #3 Temp. C\_\_\_\_ Samples on ice, cooling process has begun Cooler #4 Temp. 'C\_\_\_\_\_(Visual) \_\_\_\_\_(Correction Factor) \_\_\_\_\_(Actual) Samples on ice, cooling process has begun Cooler #5 Temp. C\_\_\_\_ \_\_\_\_(Visual) \_\_\_\_\_(Correction Factor) \_\_\_\_\_(Actual) Samples on ice, cooling process has begun Cooler #6 Temp. C\_\_\_\_\_(Visual) \_\_\_\_\_(Correction Factor) \_\_\_\_\_(Actual) Samples on ice, cooling process has begun Fed Ex UPS USPS Client Commercial Pace Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other\_ Billing: Reapient Sender ☐ Third Party Credit Card □ Unknown 120021 0594 Tracking # Custody Seal on Cooler/Box Present: Yes Seals intact: Yes No Wet None Dry None Packing Material: Bubble Wrap Bubble Bags None Other\_ Shorted Date: Samples shorted to lab (if Yes, complete) Shorted Time: Comments: Chain of Custody Present Pres D No DN/A ØYes □ No □N/A Chain of Custody Filled Out Sampler Relinquished Signature & Sampler Name COC □Yes ☑ No □N/A Samples Arrived within Hold Time ضes □ No □N/A Rush TAT requested on COC □Yes ØNo □N/A ØYes □ No □N/A Sufficient Volume Correct Containers Used **2**Yes □ No □N/A Containers Intact DYes □ No □N/A Sample Labels match COC (sample IDs & date/time of DYes □ No □N/A collection) All containers needing acid/base preservation have been Preservation Information: □Yes □ No □M/A Preservative All Containers needing preservation are found to be in Lot #/Trace # □Yes □ No UNIA compliance with EPA recommendation Date: Exceptions: VOA. Coliform, TOC, O&G, Carbamates Headspace in VOA Vials? ( >6mm): No □N/A Trip Blank Present: No □N/A Client Notification/ Resolution: Person Contacted: Date/Time: Comments/ Resolution (use back for additional comments):

Date:

Page 17 of 17



OPERATOR NAME: Dally

## Clemens Fuel Systems, Inc

1942 Edison Place - Chipley, Florida 32428 - (850)265-8881 - FL Lic. #RQ-0058606 - PC-C050792 **EZY 3 Locator Plus** LOCATION Panhandle Service Station DATE: 8-14-18 ADDRESS: Havy 29 + Havy 4 CITYISTAT Century, FC

TANK# 4 PRODUCT Diesel ULLAGE: GALLONS IN TANK: FILL DEPTH 32" DIAMETER: 46" OVERALL DEPTH: /38" WATER TAB O' TYPE SYSTEM: 500 TYPE TANK PRESSURE CALCULATIONS 40" 1. INCHES OF PRODUCT X WEIGHT OF PRODUCT X r031 = 1,24 PSI 2. INCHES OF WATER IN TANK 3. TOTAL POSITIVE HEAD PRESSURE 4. INCHES OF WATER OUTSIDE TANK 1.24 PSI 5. TOTAL PRESSURE ON TANK BOTTOM 1.74 PSI 6. ALWAYS ADD .5 PSI NOTE: If line (6) is less than .5 PSI line (7) shall be .5 PSI 7. TOTAL REQUIRED VACUUM PRESSURE 48 3 3PSI 8. CONVERT PSI TO INCHES OF WATER COLUMN 1.74 - ,036 THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS: TIGHT TANK, this underground storage tank passs the criteria set forth by the U.S. EPA. ULLAGE (DRY) PROTION LEAK, this underground storage tank does not meet the criteria set forth by U.S.EPA. BELOW PRODUCT LEVEL (WET)PROTION LEAK, this underground storage tank does not meet the criteria set forth by the U.S. EPA. WATER SENSOR INDICATES: NO WATER INTRUSION WATER INTRUSION

CERT.#: FL. 57818L



# Clemens Fuel Systems, Inc

1942 Edison Place - Chipley, Florida 324	28 - (850)265-8881 -	- FL Lic, #RQ-00586	06 - PC-C0501	792		
LOCATION, Backgardia Sanuar Station	EZY 3 Locator		8-14-18			
LOCATION Panhandle Service Station		DATE	0-14-10	<del></del>		-
ADDRESS Hwy 29 & Hwy 4		CITY/STAT	Century F	L		_
TANK# 2	PRODUCT Die	sel				_
CAPACITY ULLAGE		GALLONS	INTANK:			_
FILL DEPTH 32" DIAMETER	96"	OVERALI	DEPTH .	127"		_
WATER TAE 0 TYPE SYSTE	EM Sub		TYPE TANK		· · · · · · · · · · · · · · · · · · ·	_
PRE	SSURE CALCU	LATIONS				
1. INCHES OF PRODUCT X WEIGHT OF PRO	DDUCT 47"	x	0.031	=	1.457	PSI
2. INCHES OF WATER IN TANK	0	x	0	=	0	_PSI
3. TOTAL POSITIVE HEAD PRESSURE				=	1.457	_PSI
4. INCHES OF WATER OUTSIDE TANK	0	X	0	=	0	_PSI
5. TOTAL PRESSURE ON TANK BOTTOM				=	1.457	_PSI
6. ALWAYS ADD .5 PSI				=	1.957	PSI
NOTE: If line (6) is less than .5 PSI line (7) shall	be .5 PSI					
7. TOTAL REQUIRED VACUUM PRESSURE				=	1.957	_PSI
8. CONVERT PSI TO INCHES OF WATER CO	LUMN 1.957	<u> </u>	.036	=	54.36	PSI
THE ACOUSTIC CHARACTERISTIC OF A LEA	K REVEALS:					
Pass TIGHT TANK, this underground storage	tank passs the criteri	ia set forth by the U.	S. EPA.			
ULLAGE (DRY) PROTION LEAK, this un	nderground storage t	ank does not meet ti	ne criteria set i	forth by U.S	S.EPA.	
BELOW PRODUCT LEVEL (WET)PROT	FION LEAK, this unde	erground storage tar	nk does not me	et the crite	ria set forth by	,
WATER SENSOR INDICATES:						
NO WATER I	NTRUSION		1	WATER IN	TRUSION	
OPERATOR NAME: Dallas Harris		CERT.#:	FL-578	186		



# Clemens Fuel Systems, Inc

1942 Edison Place - Chipley, Florida 32428 - (850)	)265-8881 - FL Li	c: #RQ-00	58606 - PC-C050	792		
LOCATION ranhandle Service Sta	Locator Plus	DATE	8-14-1	18		
ADDRESS Hay 29 + Hay 4		CITY/ST	AT Centu		FC	
TANK# 4 PRODU	CT Dies.	ul_		3.		
CAPACITY, ULLAGE:						_
FILL DEPTH 35" DIAMETER: 96"	DIAMETER: 46 "		OVERALL DEPTH:		_/38"	
WATER TAB O'	_ Sub		TYPE TANK_			_
	CALCULATION					
1. INCHES OF PRODUCT X WEIGHT OF PRODUCT	40"	X	,031	=	1.24	_ PSI
2. INCHES OF WATER IN TANK		Х		=	_ 0	_ PSI
3. TOTAL POSITIVE HEAD PRESSURE				=	1.24	PSI
4. INCHES OF WATER OUTSIDE TANK	O	×		=	υ	PSI
5. TOTAL PRESSURE ON TANK BOTTOM				=	1.24	PSI
6. ALWAYS ADD .5 PSI				=	1.74	_
NOTE: If line (6) is less than .5 PSI line (7) shall be .5 PSI	I					
7. TOTAL REQUIRED VACUUM PRESSURE				=	1.74	PSI
8. CONVERT PSI TO INCHES OF WATER COLUMN	1.74	-	1036	n	48.3	}PSI
THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEA	NLS:					
TIGHT TANK, this underground storage tank passs	the criteria set fo	orth by the	U.S. EPA.			
ULLAGE (DRY) PROTION LEAK, this underground				rth hv IJ.	S FPA	
BELOW PRODUCT LEVEL (WET)PROTION LEAK the U.S. EPA.						
WATER SENSOR INDICATES:						
NO WATER INTRUSION	<b>4</b>		w	ATER IN	TRUSION	
OPERATOR NAME: Tall !		EDT#	6. 131			



## Department of Environmental Protection

2600 Blair Stone Road + Tallahassoe, Florida 32399-2400

DEP Form: 62-761.900(2)

Form Title: Storage Tank Facility Registration

<u>Form</u>

Effective Date: July 2019

Incorporated in Rule 62-761.400, F.A.C.

# **Storage Tank Facility Registration Form**

Review Registration Instructions Before Completing this Form Submit this completed form for the facility when registration of storage tanks or compression vessels is required by Section 375.303, Florida Statutes Existing Facility Info Update/Correction Existing Owner Info Update/Correction Existing Tank Info Update/Correction New Owner tase check all that apply: New Registration DEP Facility ID: 8944981 FACILITY INFORMATION County: ESCAMBIA PANHANDLE 66 Facility Name: City: CENTURY Facility Address: 8400 N. CENTURY BLVD m Business Phone: Facility Contact: WALTER ANDERSON ther Financial Responsibility Mecha Facility Type(s): \_ **Emergency Phone:** 24 Hour Emergency Contact: ACCOUNT OWNER INFORMATION: Identify the Party responsible for payment of Registration Fees at the Ownership citective Date: STCM Account Number (if known): Contact Person: \_\_\_ Address: \_\_\_ State:\_\_ City: REAL PROPERTY OWNER INFORMATION: Identify the Party that is vested with ownership, dominion or legal or rightful title to the real property Email Address: \_ Ownership Effective Date: \_\_\_ Legal Entity: \_\_\_\_ Contact Person: \_\_\_\_\_ Address: \_\_\_ \_\_\_\_\_\_ State:\_\_\_ City: . Email Address: TANK/VESSEL INFORMATION: Complete one row for each storage tank or compression vessel system located at this facility (see Registration instructions for codes) Telephone:\_ Monitoring Installation Date Content Code Status Effective Date Tor V A or U Capacity Tank ID 12,000 u 16,000 U 12,000 Facility Registration Certification: To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete. The person signing this form is the: (check all that apply) Real Property Owner Account Owner (Responsible for Registration Fees)



# Clemens Fuel Systems, Inc

1942 Edison Place - Chipley, Florida 32428 - (850)265-8881 - FL Lic. #RQ-0058606 - PC-C050792

,	5-72 CG15-011 1	idoo ompio											
LOCATION Panhandle Service Station					DATE	8-14-18			_				
ADDRESS: Hwy 29 & Hwy 4					CITY/STA	AT_Century FL							
TANK#	1		PRODUC	CT_Regular									
CAPACITY			ULLAGE		GALLON	S IN TANK			_				
FILL DEPTH	32"		DIAMETER: 96"		OVERAL	L DEPTH:	127"		_				
WATER TAB	0		TYPE SYSTEM:	Sub		_ TYPE TANK	Ų.						
WATER TAE 0 TYPE SYSTEM: Sub TYPE TANK:  PRESSURE CALCULATIONS													
1. INCHES	OF PRODU	JCT X WEIG	HT OF PRODUCT	26	X	0.26	<b>.</b> =	.676	_PSI				
2. INCHES	OF WATER	R IN TANK		0	X	0	=	0	PSI				
3. TOTAL F	POSITIVE H	IEAD PRESS	BURE				¥1 =	.676	_ _ PSI				
4. INCHES	OF WATER	R OUTSIDE	TANK	0	х	0	=	0	_ _ PSI				
5. TOTAL I	PRESSURE	ON TANK B	оттом				=	.676	_ _ PSI				
6. ALWAYS	S ADD .5 PS	Si					No.	1.176	_PSI				
NOTE: If lin	e (6) is less	than .5 PSI	ine (7) shall be .5 PS	61									
7. TOTAL F	REQUIRED	VACUUM PI	RESSURE				=	1.176	_PSI				
8. CONVE	RT PSI TO I	NCHES OF	WATER COLUMN	1.176	-	.036	<b>. =</b>	32.66	_PSI				
THE ACOU	STIC CHAR	ACTERISTI	C OF A LEAK REVE	ALS:									
Pass	TIGHT TANK	C, this undergr	ound storage tank pass	s the criteria set f	orth by the U	J.S. EPA.							
	ULLAGE (DF	RY) PROTION	LEAK, this underground	d storage tank do	es not meet	the criteria set	t forth by U.S	S.EPA					
	BELOW PRO		. (WET)PROTION LEA	K, this undergrou	nd storage ta	ank does not n	neet the crite	ria set forth b	ру				
WA <sup>*</sup>	TER SENSO	OR INDICAT	ES:										
NO WATER INTRUSION				WATER INTRUSION									
OPERATO	R NAME:	Dallas H	arris		CERT.#:	FL-578	3186						