



CITY OF GROVELAND
156 S. LAKE AVENUE
GROVELAND, FL 34736

PHONE 352-429-2141
FAX 352-429-3852

Groveland City Council
City Manager Report
September, 9 2015

Pending Action Items:

- Sinkhole update - The sinkhole located at the west end and slightly north of a driveway at 524 East Waldo Street resulted in the collapse of portions of the residence driveway and approximately 6 - 8 feet of East Waldo Street. Upon advisement from Tetra Tech (our Geotechnical Environmental and Material Consultants), the sink hole was successfully filled and continues to be observed as stable. Repairs to the road pavement, driveway, and utilities are scheduled this month. At this time, the estimated cost of the sink hole restoration is \$12,138.65. This includes the Boykin expenses, water main replacement estimates, labor with overtime, concrete driveway replacement, sod and street restoration. The Tetra Tech Summarizing Report has been attached to this document (please see attachment 1).
- Due to several water quality related concerns in the Osprey Nest Circle neighborhood the city took several samples and sent them to a lab to ensure that the water in the area meets all state and local guidelines. The test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC) which meets state and local water quality and public health guidelines (please see attachment 2).
- Police Citizen Advisory Board - the City Manager's Office has concluded its interviews and board members have been chosen, currently we are contacting board members this week to confirm their continued willingness to volunteer on this board. Board members with brief bios will be presented to the City Council its next meeting.
- Per City Council discussions during recent workshops and due to the chronic delays, missed deadlines, and unresponsiveness of our current external audit services; the City Manager's Office has approved the Finance Department to move forward with seeking proposals from other vendors who have experience in governmental accounting and are certified public accountants. We will update the City Council as this process moves forward.

Report from the Desk of the City Manager:

- As you are aware CM - Box Car Racing has expressed interest in resuming partnership with the city despite an April notice to terminate their contract with the city. During the "cool down clause" of the contract, CM-Box Car asked to discontinue its termination clause. Understanding how important this event has become for the community and after consultation with the City Attorney and the City Council, the city agreed to allow CM Box Car to conduct 3 race trial period. As prescribed by the contract the city staff developed a safety manual, a safety check list, and certain protocols focused ensuring events are safe. As a part of these protocols the city

included use several race day observers. All with the authority (with conference with the CM Box Car race director) to halt or close the race. At the August 31st race such a closure was instituted staff have meet with CM - Box Car and have successful reconciled any difference held on the appropriate safety protocols. The next race was scheduled for September 12, but due to a theft of Box Car equipment the September 12th race has been cancelled.

- There have been several request for the Florida Department of Transportation (FDOT) to consider the placement of a traffic signal at the intersection of US 27 and Wilson Lake Parkway. After completing their review their findings were that a traffic signal was not justified at this time. FDOT sited traffic volumes that were too low to meet necessary state required thresholds. They also found the intersection being operating safely and efficiently. However, FDOT did find areas for improvement; that they have already brought to the attention of Lake County as the owners of these facilities. These improvements include two new one way signs and refurbish pavement markings on the east bound approach to this intersection.
- Congratulations! To our grant writing team... we are jumping for joy regarding the fact that the City of Groveland was rewarded the "Let's Play grant" in the amount of **\$15,000** from Dr Pepper Snapple Group and KaBOOM!. The goal of the "Let's Play" grant is a community partnership led by Dr Pepper Snapple (DPS) to help kids and families get active. This grant allows our Parks and Recreation division to continue its work to provide quality, fun, and safe outdoor play opportunities for the children in your community.
- The City experienced a reduction in its worker's compensation premiums of more than \$35,000 for the fiscal year 2015 - 2016. This due to a reduction in the number of claims paid. I argue this is a tribute to the City's active safety and wellness programs. In addition to our worker's comp premiums going down, we also experience a decrease in our overall insurance premiums, which were reduced by more than \$3,000 for the new fiscal year. The one area that could be improved on is the public officials liability insurance which reported an increase in premium.

Follow up / Reminder items:

- Keep Lake Beautiful (KLB) - is a strategy that can lead to a cleaner and more beautiful community by engaging and motivating our citizens to take responsibility for our environment. Working to constantly improve our quality of live is imperative to sustaining our community's economy and the wellbeing of all our citizens. The City of Groveland will be the first site in South Lake to host a Community Clean Up. Volunteers are asked to meet at the ACE Hardware at 9:00 am - 11:00 am the morning of September 19th, 2015. Volunteers will broken up into two group that will pick-up litter along ***Villa City Road and State Hwy 50***. Dumpster(s), refreshments, vests, gloves, and bags will be provided. We have been asked for 2 additional clean up road ways as overflow sites should we get a large crowd of volunteers (Hwy 19 and Hwy 33 maybe potential overflow sites).

Events:

- September 12 Box Car Racing Event (has been postpone)

Attachment 1



August 28, 2015

Mr. Steve Guba
Streets & Maintenance Supervisor
City of Groveland – Public Works
1198 Sampey Road
Groveland, FL 34736

**Subject: City of Groveland
South Iowa Avenue at East Waldo Street
Lake County, Florida**

Dear Mr. Guba:

At the City's request, Ardaman & Associates performed a field visit on August 24, 2015 to observe the subject sinkhole feature at South Iowa Avenue and East Waldo Street. Attached please find the letter report summarizing these observations.

Please feel free to contact me to discuss the options included in this report.

Sincerely,

Tetra Tech

A handwritten signature in blue ink, appearing to read 'JDF' followed by a flourish and the letters 'fox'.

Jon D. Fox, P.E.
Vice President

JDF/slh/08526-14002/pm/corresp/Document13



Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

August 26, 2015
File No. 15-6428

Tetra Tech
201 East Pine Street, Suite 1000
Orlando, FL 32801

Attention: Mr. Jon Fox, P.E.

Subject: Engineer Observation of Sinkhole
South Iowa Avenue at East Waldo Street
City of Groveland
Lake County, Florida

Gentlemen:

The purposes of this letter report are to summarize observations made by Ardaman & Associates representatives on August 24, 2015 and to provide some options for remediating the recently occurred sinkhole feature. This letter report documents our findings and presents our discussion of options for repair.

Observations of the subject sinkhole were performed on August 24, 2015, by Ardaman & Associates engineer, Mr. Colin Jewsbury, P.E. The observations were made at the request of City of Groveland representatives following a ground surface collapse that occurred within the South Iowa Avenue right-of-way during the afternoon of Sunday, August 23, 2015. City of Groveland representatives Mr. Steve Guba and Mr. Redmond Jones were present during the site visit. They informed Mr. Jewsbury that a sinkhole occurred at this same location around 40 to 50 years ago.

The ground surface collapse was observed by Mr. Jewsbury to be a circular sinkhole on the order of 25 to 30 feet in diameter. The sides of the sinkhole were near vertical and an unknown depth of water was present in the bottom of the dropout, with the surface of water estimated to be around 15 to 20 feet below the adjacent natural ground surface elevation. The sinkhole was located at the west (i.e. street) end and slightly north of the concrete driveway serving the residence at 524 East Waldo Street, and resulted in the collapse of portions of the residence driveway and yard as well as on the order of 6 feet of the East Waldo Street asphalt pavement section. We estimate that the nearest portions of either of the two residences located on the south corners of the intersection of East Waldo Street and South Iowa Avenue were around 50 feet from the closest edge of the ground surface dropout (as observed on August 24, 2015). A buried cable utility was observed to be present in the east wall of the collapse, as well as remnants (i.e. the two ends) of a water line that formerly ran through the approximate center of the ground surface collapse. We understand that the occurrence of the sinkhole included rupturing of the water line and associated flooding and scour of soil. Water supply had been rerouted at the time of our site observations.

No obvious signs of further enlargement of the sinkhole dropout, such as cracks in the ground surface outside of the dropout perimeter, were observed during our site visit on August 24, 2015. As such, we suggested that efforts begin to fill the sinkhole with sand. As discussed with Mr. Guba, some fill soil had already been stockpiled on the site and small quantities placed into the hole. It was agreed that it would not be practical to be able to retrieve the broken sections of driveway and pavement from the bottom of the dropout prior to the continuation of the fill operation.

We understand that the sinkhole has now been filled with sand. Filling began and was completed on August 25, 2015, using a front end loader.

The sinkhole is the result of the collapse and erosion of soil through a breach located above a void in the limestone in the vicinity of the observed depression. While the depression at the ground surface occurred in a relatively short period of time, the sands underlying the area could have raveled into the breach over a relatively long period of time.

It is not known whether the void in the limestone in which the overlying sand ravelled to cause the depression has been filled by the sand which has filtered down, or whether the void may be very large and can accommodate more surficial soils which could result in a similar, or even larger surficial depression. It is not feasible to determine the size of the void in the limestone which caused the sinkhole, and therefore, it is difficult to assess the risk of additional sinkhole development at the site.

Caverns in limestone such as the one that caused the depression at the site are typical throughout the region, and throughout most of Florida. Therefore, sinkholes such as the subject sinkhole are common in Florida, although the risk of occurrence at a specific location is relatively low because several sinkhole inducing factors (including the occurrence of a breach in the soils overlying a void in the limestone) need to exist to activate the sinkhole. Since the sinkhole formed at this site (reportedly on two separate occasions separated by 40 to 50 years), we know that a breach in the soils overlying the limestone exists, and therefore, some risk of future sinkhole activity should be realized.

Given the data obtained thus far on the site and considering the nature of the facility affected (i.e. a residential side street, utility easement and yard) the following options for site remediation are presented for consideration. Each option has inherent risks and benefits which must be considered carefully before a final decision made.

Options

1. The first option is to monitor the sinkhole for signs of additional instability and movement for as long as practical (we recommend a minimum of 2-4 weeks). If no additional instability is observed during the monitoring period, level and compact the surface of the fill placed into the sinkhole dropout to a firm and unyielding condition before repairing the pavement, driveway and utilities. If possible, we suggest that the water line be rerouted around the ground surface dropout in an attempt to reduce the risk of another break and associated flooding due to continued sinkhole subsidence. Since space appears to be readily available, the homeowner at 524 East Waldo Street should also consider re-

routing their driveway around the ground surface collapse rather than simply replacing it in the same location as before. If signs of continued instability are observed, the area should be immediately secured and Ardaman notified. We note that since the sand used to fill the initial sinkhole collapse was placed in a loose manner and because soils beneath the surface depression have been loosened by sinkhole activity, some future settlement in the area should be anticipated whether or not the sinkhole is still active. Thus ongoing maintenance in the vicinity of the depression will likely be necessary and some risk of another substantial and potentially sudden sinkhole collapse realized.

2. The second option is to inject grout into the soils at the top of the limestone in an attempt to control or stop raveling of the soil in the vicinity of the dropout (i.e., close off the breach above the void in the limestone). This is a relatively expensive and uncertain trial and error process that could trigger additional movement, and could even result in no benefit if the grout is lost into the limestone void, is washed away by the groundwater within the limestone, or the breach is too large to feasibly fill with grout. It is noted that the grouting procedure recommended is not intended to fill the void in the limestone, but is intended to close the pathway through which the overlying soils pass into the limestone. Even with the uncertainty associated with grouting, this procedure has been successfully utilized to stabilize sinkholes. It is anticipated that the grout pipes would be inserted in a grid type pattern encompassing the entire sinkhole "footprint" to a depth necessary to reach the soil/rock interface that could be located well over 100 feet below the ground surface. (Exploratory soil borings or soundings would need to be performed prior to grouting to obtain soil stratigraphy information required to design the grouting plan and ground injection depths.) Multiple grout injection points would be used to increase the chances of sealing the pathway through which the soil can ravel. The deep grouting program should be performed with our engineer or his representative present at the site. During the grouting operation, grout can be injected as the injection pipes are withdrawn through the neck of sinkhole. The additional benefit of this procedure is that the raveled soils existing in the classic soil zone above the limestone and below the existing sinkhole depression could be somewhat densified by cementing and/or compaction.

While Alternative 1 does not provide any remedial measures to try to reduce the potential for further sinkhole activity, this alternative is a common approach by public and private owners for sinkholes in or adjacent to roads because this alternative results in less initial construction cost than Alternative 2. If sinkhole activity continues, then Alternative 2 is often employed. Although Alternative 2 provides a method to reduce the risk of further sinkhole activity, it does not eliminate all risk of further sinkhole activity. For preliminary budget considerations, it is anticipated that the cost of the grouting program would be on the order of \$75,000.00 to \$100,000.00. This is based on the use of approximately 16 grout injection pins installed to a depth on the order of 100 feet, and injecting between 200 and 300 cubic yards of grout. Cost will be higher if greater quantities of grout are required.

Prior to commencing a subsurface grouting program or if it is deemed prudent to further evaluate the subsurface conditions in the vicinity of the sinkhole feature at this time, Standard Penetration Test (SPT) borings and/or Cone Penetration Test (CPT) soundings should be performed. We would be glad to provide a proposal for a subsurface exploration program, if requested.

Ardaman & Associates would be pleased to consult with representatives of Tetra Tech and/or City of Groveland to further assist in evaluating the alternatives for site remediation. Once an alternative is chosen, we would be pleased to provide recommendations for monitoring and/or grouting.

The findings and opinions submitted herein are based on our site observations. The evaluation included in this report meets the general standard of care of the profession. Ardaman & Associates, Inc. can make no warranty or guarantee with respect to conditions which may exist at this site.

This report has been prepared for the exclusive use of Tetra Tech in accordance with generally accepted geotechnical engineering practices. No other warranty, expressed or implied, is made.

We are pleased to be of assistance to you in this matter. When we may be of further service to you or should you have any questions, please contact us.

Very truly yours,
ARDAMAN & ASSOCIATES, INC.
Certificate of Authorization No. 5950

Colin Newsbury, P.E.
Chief Geotechnical Engineer
Florida License No. 58074

CTJ/CHC/ctj/nm
113-15-60-6428 LTR Report CTJ.docx



A handwritten signature in blue ink that reads "Charles H. Cunningham".

Charles H. Cunningham, P.E.
Division Manager
Florida License No. 38189

Attachment 2



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986
812 SW Harvey Green Dr, Madison, FL 32340
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)
Phone: 772-343-8006 E86562 (South Lab)
Phone: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 E35834 (Keys Lab)

City of Groveland
156 South Lake Avenue
Groveland, FL 34736

PO #: null
Client Project #: 3350476
Date Sampled: Aug 13, 2015
Sep 1, 2015; Invoice: 274398

Invoice

Description	Amount	Units	Extension
DWPPCB-FL	675.00	1	675.00
DWPrimarySecondary_NoGA	315.00	1	315.00
DWVOC524	75.00	1	75.00
TOTAL			1,065.00

This invoice is due upon receipt.

VISA, MasterCard, and American Express cards will be accepted.

There will be a 1.5% service charge per month on all unpaid balances.

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

LABORATORY CERTIFICATION INFORMATION (to be completed by lab - please type or print legibly)

Lab Name: Flowers Chemical Laboratories, Inc.

Florida DOH Certification #: E83018

Certification Expiration Date: 6/30/2016

ATTACH CURRENT DOH ANALYTE SHEET*

Address: P. O. Box 150597, Altamonte Springs, FL 32715-0597

Phone #: 407-339-5984

Were any analyses subcontracted? Yes No If yes, please provide DOH certification number(s): _____

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB*

ANALYSIS INFORMATION (to be completed by lab)

Date Sample(s) Received: 08/13/15

PWS ID (From Page 1): _____

Sample Number (From Page 1): 274398DW1

Lab Assigned Report # or Job ID: 274398

Group(s) analyzed and results attached for compliance with Chapter 62-550, F.A.C. (check all that apply)

<u>Inorganics</u>	<u>Synthetic Organics</u>	<u>Volatile Organics</u>	<u>Disinfection Byproducts</u>	<u>Radionuclides</u>	<u>Secondaries</u>
<input type="checkbox"/> All Except Asbestos	<input type="checkbox"/> All 30	<input type="checkbox"/> All 21	<input type="checkbox"/> Trihalomethanes	<input type="checkbox"/> Single Sample	<input type="checkbox"/> All 14
<input type="checkbox"/> Partial	<input type="checkbox"/> All Except Dioxin	<input type="checkbox"/> Partial	<input type="checkbox"/> Haloacetic Acids	<input type="checkbox"/> Qtrly Composite**	<input type="checkbox"/> Partial
<input type="checkbox"/> Nitrate	<input type="checkbox"/> Partial		<input type="checkbox"/> Chlorite		
<input type="checkbox"/> Nitrite	<input type="checkbox"/> Dioxin Only		<input type="checkbox"/> Bromate		
<input type="checkbox"/> Asbestos					

LAB CERTIFICATION

I, Jefferson S. Flowers, Technical Director, do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature:



Date: 09/01/15

* Failure to provide a valid and current Florida DOH certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report and possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

** Please provide radiological sample dates & locations for each quarter.

CONFIRMATION AND NOTIFICATION IS REQUIRED WITHIN 24 HRS FOR NITRATE MCL EXCEEDANCES

NON-DETECTS ARE TO BE REPORTED AS THE MDL WITH A "U" QUALIFIER. (Non-detects reported as "BDL" or with a "<" are not acceptable.)

Compliance Determination (to be completed by DEP or DOH - attach notes as necessary)

Sample Collection & Analysis Satisfactory Yes No _____ Replacement Sample or Report Requested (circle or highlight group(s) above)

Person Notified: _____ Date Notified: _____ DEP/DOH Reviewing Official: _____

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

INORGANIC CONTAMINANTS
62-550.310(1)

Report Number / Job ID: 274398DW1
PWS ID (From Page 1): 3350476

Contam				Analysis		Analytical	Lab	Analysis	Analysis	DOH Lab
ID	Contam Name	MCL	Units	Result	Qualifier	Method	MDL	Date	Time	Cert #
1040	Nitrate (as N)	10	mg/L	0.200	U	EPA300.0	0.200	08/13/15	03:00 PM	E83018
1041	Nitrite (as N)	1	mg/L	0.200	U	EPA300.0	0.200	08/13/15	03:00 PM	E83018
1005	Arsenic	0.010	mg/L	0.00100	U	EPA200.8	0.00100	08/18/15		E83018
1010	Barium	2	mg/L	0.0116		EPA200.8	0.00200	08/18/15		E83018
1015	Cadmium	0.005	mg/L	0.00100	U	EPA200.8	0.00100	08/18/15		E83018
1020	Chromium	0.1	mg/L	0.00100	U	EPA200.8	0.00100	08/18/15		E83018
1024	Cyanide	0.2	mg/L	0.00500	U	SM4500CN-E	0.00500	08/20/15		E83018
1025	Fluoride	4.0	mg/L	0.200	U	EPA300.0	0.200	08/13/15		E83018
1030	Lead	0.015	mg/L	0.00840		EPA200.8	0.00100	08/18/15		E83018
1035	Mercury	0.002	mg/L	0.0000200	U	EPA245.1	0.0000200	08/19/15		E83018
1036	Nickel	0.1	mg/L	0.00100	U	EPA200.8	0.00100	08/18/15		E83018
1045	Selenium	0.05	mg/L	0.00200	U	EPA200.8	0.00200	08/18/15		E83018
1052	Sodium	160	mg/L	4.65		EPA200.7	0.500	08/17/15		E83018
1074	Antimony	0.006	mg/L	0.00100	U	EPA200.8	0.00100	08/18/15		E83018
1075	Beryllium	0.004	mg/L	0.000500	U	EPA200.8	0.000500	08/18/15		E83018
1085	Thallium	0.002	mg/L	0.00100	U	EPA200.8	0.00100	08/18/15		E83018

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

SECONDARY CONTAMINANTS
62-550.320

Report Number / Job ID: 274398DW1
PWS ID (From Page 1): 3350476

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert #
1002	Aluminum	0.2	mg/L	0.0200	U	EPA200.8	0.0200	08/18/15		E83018
1017	Chloride	250	mg/L	12.1		EPA300.0	0.400	08/13/15		E83018
1022	Copper	1	mg/L	0.0276		EPA200.8	0.00100	08/18/15		E83018
1025	Fluoride	4.0	mg/L	0.200	U	EPA300.0	0.200	08/13/15		E83018
1028	Iron	0.3	mg/L	0.0877		EPA200.7	0.0100	08/17/15		E83018
1032	Manganese	0.05	mg/L	0.0100	U	EPA200.7	0.0100	08/17/15		E83018
1050	Silver	0.1	mg/L	0.000500	U	EPA200.8	0.000500	08/18/15		E83018
1055	Sulfate	250	mg/L	1.82		EPA300.0	1.00	08/13/15		E83018
1095	Zinc	5	mg/L	0.0470		EPA200.8	0.0100	08/18/15		E83018
1905	Color	15	CU	5.00	U	SM2120 B	5.00	08/14/15	09:00 AM	E83018
1920	Odor	3	TON@40C	1.00	U	SM2150 B	1.00	08/13/15	09:00 AM	E83018
1925	pH	6.5 -8.5	pH	7.93		SM4500-H B	0.0100	08/13/15	02:53 PM	E83018
1930	Total Dissolved Solids	500	mg/L	458		SM2540 C	2.50	08/14/15		E83018
2905	Foaming Agents	0.5	mg/L	0.200	U	SM5540 C	0.200	08/14/15	10:00 AM	E83018

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

VOLATILE ORGANICS
62-550.310(2)(b)

Report Number / Job ID: 274398DW1
PWS ID (From Page 1): 3350476

Contam ID	Contam Name	MCL	Units	Analysis		Analytical Method	Lab		Analysis Date	Analysis Time	DOH Lab Cert #
				Result	Qualifier		MDL	RDL			
2378	1,2,4,-trichlorobenzene	70	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2380	cis-1,2-Dichloroethylene	70	ug/L	0.200	U	EPA524.2	0.200	0.5	08/17/15		E83018
2955	Xylenes	10000	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2964	Dichloromethane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2968	o-dichlorobenzene	600	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2969	Para-dichlorobenzene	75	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2976	Vinyl Chloride	1	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2977	1,1-Dichloroethylene	7	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2979	trans-1,2-Dichloroethylene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2980	1,2-Dichloroethane	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2981	1,1,1-trichloroethane	200	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2982	Carbon tetrachloride	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2983	1,2-dichloropropane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2984	Trichloroethylene	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2985	1,1,2-trichloroethane	5	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2987	Tetrachloroethylene	3	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2989	Monochlorobenzene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2990	Benzene	1	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2991	Toluene	1000	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2992	Ethylbenzene	700	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018
2996	Styrene	100	ug/L	0.500	U	EPA524.2	0.500	0.5	08/17/15		E83018

Florida Department of Environmental Protection
Safe Drinking Water Program Laboratory Reporting Format

SYNTHETIC ORGANICS
62-550.310(2)(c)

Report Number / Job ID: 274398DW1
PWS ID (From Page 1): 3350476

Contam				Analysis		Analytical	Lab		Extraction	Analysis	Analysis	DOH Lat
ID	Contam Name	MCL	Units	Result	Qualifier	Method	MDL	RDL	Date	Date	Time	Cert #
2005	Endrin	2	ug/L	0.0100	U	EPA505	0.0100	0.01	08/20/15	08/20/15		E83018
2010	Lindane	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	08/20/15	08/20/15		E83018
2015	Methoxychlor	40	ug/L	0.0500	U	EPA505	0.0500	0.1	08/20/15	08/20/15		E83018
2020	Toxaphene	3	ug/L	0.500	U	EPA505	0.500	1	08/20/15	08/20/15		E83018
2031	Dalapon	200	ug/L	0.100	U	EPA515.4	0.100	1	08/25/15	08/31/15		E83018
2032	Diquat	20	ug/L	0.400	U	EPA549.2	0.400	0.4	08/13/15	08/18/15		E83018
2033	Endothall	100	ug/L	9.00	U	EPA548.1	9.00	9	08/17/15	08/19/15		E83018
2034	Glyphosate	700	ug/L	6.00	U	EPA547	6.00	6		08/21/15		E83018
2035	Di(2-ethylhexyl) adipate	400	ug/L	0.600	U	EPA525.2	0.600	0.6	08/25/15	08/26/15		E83018
2036	Oxamyl (Vydate)	200	ug/L	2.00	U	EPA531.1	2.00	2.0		08/18/15		E83018
2037	Simazine	4	ug/L	0.0700	U	EPA507	0.0700	0.07	08/17/15	08/24/15		E83018
2039	Di(2-ethylhexyl)phthalate	6	ug/L	0.600	U	EPA525.2	0.600	0.6	08/25/15	08/26/15		E83018
2040	Picloram	500	ug/L	0.100	U	EPA515.4	0.100	0.1	08/25/15	08/31/15		E83018
2041	Dinoseb	7	ug/L	0.200	U	EPA515.4	0.200	0.2	08/25/15	08/31/15		E83018
2042	Hexachlorocyclopentadiene	50	ug/L	0.100	U	EPA505	0.100	0.1	08/20/15	08/20/15		E83018
2046	Carbofuran	40	ug/L	0.900	U	EPA531.1	0.900	0.9		08/18/15		E83018
2050	Atrazine	3	ug/L	0.100	U	EPA507	0.100	0.1	08/17/15	08/24/15		E83018
2051	Alachlor	2	ug/L	0.200	U	EPA507	0.200	0.2	08/17/15	08/24/15		E83018
2065	Heptachlor	0.4	ug/L	0.0100	U	EPA505	0.0100	0.04	08/20/15	08/20/15		E83018
2067	Heptachlor epoxide	0.2	ug/L	0.0100	U	EPA505	0.0100	0.02	08/20/15	08/20/15		E83018
2105	2,4-D	70	ug/L	0.100	U	EPA515.4	0.100	0.1	08/25/15	08/31/15		E83018
2110	2,4,5-TP	50	ug/L	0.200	U	EPA515.4	0.200	0.2	08/25/15	08/31/15		E83018
2274	Hexachlorobenzene	1	ug/L	0.100	U	EPA505	0.100	0.1	08/20/15	08/20/15		E83018
2306	Benzo(a)pyrene	0.2	ug/L	0.0200	U	EPA525.2	0.0200	0.02	08/25/15	08/26/15		E83018
2326	Pentachlorophenol	1	ug/L	0.0400	U	EPA515.4	0.0400	0.04	08/25/15	08/31/15		E83018
2383	PolychlorinatedbiphenylsPCB	0.5	ug/L	0.100	U	EPA505	0.100	0.1	08/20/15	08/20/15		E83018
2931	Dibromochloropropane	0.2	ug/L	0.0200	U	EPA504.1	0.0200	0.02	08/20/15	08/20/15		E83018
2946	Ethylene Dibromide	0.02	ug/L	0.0100	U	EPA504.1	0.0100	0.01	08/20/15	08/20/15		E83018
2959	Chlordane	2	ug/L	0.0100	U	EPA505	0.0100	0.2	08/20/15	08/20/15		E83018