

2019 Annual Drinking Water Quality Report

Cedar Key Water and Sewer District

PWSID#: 2380178

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is ground water from three wells. The wells draw from the Surficial aquifer. The water is treated using a magnetic ionic exchange process (MIEX) and also includes lime softening, filtration and chlorination.

In 2019 the Department of Environmental Protection performed a Source Water Assessment on our system and search of the data sources indicated no potential sources of contamination near our wells. The assessment results are available on the DEP Source Water Assessment and Protection Program website at <http://www.dep.state.fl.us/swapp>.

This report shows our water quality results and what they mean.

If you have any questions about this report or concerning your water utility, please contact John McPherson at 352-543-5285. We encourage our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the second Monday of each month.

Cedar Key Water and Sewer District routinely monitors for contaminants in your drinking water according to Federal and State laws, rules and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2019. Data obtained before January 1, 2019, and presented in the report are from the most recent testing done in accordance with the laws, rules, and regulations.

As authorized and approved by EPA, the State has reduced the monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of our results [e.g. lead and copper], though representative, is more than one year old.

In the table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

Action Level (AL): *The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.*

Locational Running Annual Average (LRAA): *the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.*

Maximum Contaminant Level (MCL): *The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.*

Maximum Contaminant Level Goal (MCLG): *The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.*

Maximum Residual Disinfectant Level (MRDL): *The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.*

Maximum Residual Disinfectant Level Goal (MRDLG): *The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.*

Parts per million (ppm) or Milligrams per liter (mg/l) – *one part by weight of analyte to 1 million parts by weight of the water sample*

Parts per billion (ppb) or Micrograms per liter (µg/l) – *one part by weight of analyte to 1 billion parts by weight of the water sample.*

Inorganic Contaminants							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Arsenic (ppb)	8/2018	N	1.0	N/A	N/A	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	8/2018	N	0.0091	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium (ppb)	8/2018	N	0.2	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Nitrate (as Nitrogen) (ppm)	8/2018	N	0.05	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	8/2018	N	33	N/A	N/A	160	Salt water intrusion, leaching from soil
Thallium (ppb)	8/2018	N	0.1	N/A	0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

Stage 1 Disinfectants and Disinfection By-Products

For chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly average of all samples collected.

Disinfectant or Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MRDL Violation Y/N	Level Detected	Range of Results	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	Monthly 2019	N	1.06	0.5 to 1.62	MRDLG = 4	MRDL = 4	Water additive used to control microbes

Stage 2 Disinfectants and Disinfection By-Products

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation (Y/N)	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
Total Trihalomethanes (TTHM) (ppb) <i>System</i>	Quarterly 2019	Y	158.64 (highest LRAA)	52.94 - 158..64	NA	MCL = 80	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb) <i>Hodgson & Jernigan Ave</i>	Quarterly 2019	Y	98.17 (highest LRAA)	74.09 - 147.43	NA	MCL = 80	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) Site 2 (ppb) <i>Hodgson & Jernigan Ave</i>	Quarterly 2019	Y	100.21 (highest LRAA)	74.23 - 158.64	NA	MCL = 80	By-product of drinking water disinfection
Haloacetic Acids (five) (HAA5) (ppb) <i>System</i>	Quarterly 2019	N	50.96 (highest LRAA)	21.34 - 69.54	NA	MCL = 60	By-product of drinking water disinfection
Haloacetic Acids (five) (HAA5) site 1 (ppb) <i>Gulf Blvd & Hodges Ave</i>	Quarterly 2019	N	50.96 (highest LRAA)	21.46 - 69.54	NA	MCL = 60	By-product of drinking water disinfection
Haloacetic Acids (five) (HAA5) (ppb) <i>Gulf Blvd & Hodges Ave</i>	Quarterly 2019	N	42.45 (highest LRAA)	21.34 - 68.24	NA	MCL = 60	By-product of drinking water disinfection

TTHM Monitoring Results (ppb)	1st quarter 2019	2nd quarter 2019	3rd quarter 2019	4th quarter 2019
<i>Hodgson & Jernigan Ave - Quarterly Results</i>	78.68	74.09	147.43	92.47
<i>Hodgson & Jernigan Ave - LRAA*</i>	65.70	65.17	91.88	98.17
<i>Gulf Blvd & Hodges Ave - Quarterly Results</i>	81.74	74.23	158.64	86.24
<i>Gulf Blvd & Hodges Ave - LRAA*</i>	52.94	60.30	91.23	100.21

*Reported LRAA for quarters 1-3 are based on results from previous quarters not reported on this table.

We constantly monitor for various contaminants in the water supply to meet all regulatory requirements. Our water system was in violation of federal and state water quality standards for Total Trihalomethanes in 2019. The levels of these contaminants are shown in the Test Results Table. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. Our system has been working to correct this by installing improvements to the drinking water treatment process at our facility.

Lead and Copper (Tap Water)							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	No. of sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water) (ppm)	9/2018	N	0.32	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Cedar Key Water and Sewer District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

In our continuing efforts to maintain a safe and dependable water supply it may be necessary to make improvements in your water system. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

We at Cedar Key Water and Sewer District would like you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to insuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call any of the numbers listed.

Contract

Date: 6/1/2020

Address: Cedar Key Special Water & Sewer District
Levy County

Quantity	Description	Total
	<ul style="list-style-type: none"> • This proposal is for a carbon system with 4 carbon tanks for Trihalomethane and Haloacetic Acid reduction. • Specifications: <ul style="list-style-type: none"> - The 4 tanks will run in progressive flow - <u>Carbon</u> - Catalytic-High Activated Carbon (CAT-HAC) Coconut shell carbon based. 40 cu ft will be used in each tank for a total of 160 cu ft. - <u>Tank</u> – 48”x72” 6” tripod base tank with a 6” tripod flange - <u>Valve</u> - WS2 2” Heavy Duty Metered Backwashing Valve, “B” Injector - <u>Capacity</u> – Capable of 63 gal/min @ 5 gal/min for adequate Carbon/water contact time. A backwash of 125 gal/min to ensure proper backwash - <u>Configuration</u> - Top mount hub & lateral for 48” tank with a 2” riser - <u>Additions</u> – Each valve will have a No Raw Water Bypass Valve, to insure that during backwashing periods unfiltered does not enter the main water supply. - <u>NSF Certified</u> – All products/equipment adheres NSF 60 certifications. • Installation and set up of all carbon tanks and connections between tanks. • Manufacturer start up. • See attached itemized breakdown and exclusions. 	
	Total	\$82,054.00

SPECIAL INSTRUCTIONS:

1. Warranty does not include Acts of God, changes in source water and any damage done by an outside force.
2. Terms: Net 30 upon delivery of invoice.
3. Default or cancellation. In the event of default or cancellation by the buyer, buyer hereby agrees to immediately make any goods furnished available to seller between 8:00 am and 5:00 pm, and buyer hereby consents to seller’s right to physically remove and be present on buyer’s property for removal of said goods. A 25% restocking fee will apply to all returns
4. Installation of any and all equipment is warrantied for 30 days.
5. Copies of all ONM manuals will be delivered upon completion.

6. Additional equipment may be required if the water supply changes or consumption is increased.
7. Buyer acknowledges that Sensible H2O Solutions, LLC has no control over the volume of water you receive from your well.
8. This written purchase agreement provides all terms of the agreement between the parties. The parties further specifically agree that there is no free trial period for use of the goods furnished to buyer.
9. Please note, operational, maintenance, and replacement requirements are essential for the product to perform as represented.

_____ This contract is a cash sale and the financing provision above is not applicable

_____ Manufacturer warranty will apply for the warranty period only.

_____ If buyer intends to seek financing for this transaction the financing provisions above apply.

Executed in duplicate, one copy delivered to buyer, receipt is hereby acknowledged by buyer on _____ (date).

SENSIBLE WATER SOLUTIONS

BUYER'S SIGNATURE

Cedar Key Itemized List for GAC Tank Installation

Quantity	Description	Total
4	48" x 72" Tripod 6" Flange Base Tanks	24,880.00
160	Cu ft of Calgon Centaur Catalytic Carbon -40 cu ft in each tank	28,020.00
4	WS2 2" Heavy Duty Metered Backwash Only Control Valve -w/ B Injector - 125 gal/min service empty bed. 63 gal/min with Carbon -125 gal/min backwash	15,450.00
4	WS2 Back Wash Control Valve	1100.00
4	WS2 6" Flange Base Assembly	1,088.00
36	100 lbs of gravel	1,074.00
4	Top mount hub & Lateral for 48" Tank with a 2" Riser Tube	820.00
4	NHWBP – No hard water back wash valve	1,140.00
3	Clack WS2 Communication Cable	102.00
1	PVC drain line to existing pond – no more than 200' at 4"	2,880.00
1	Installation and Start Up	5,500.00
Total		\$82,054.00

This bid does not include the following:

- Mechanical plumbing to and from the GAC tanks
- Electrical service
- Concrete Pad
- Pole Barn/Covering
- Any and all site work



(352) 795-1554
PHONE

352) 795-5423
FAX

BIOSOLIDS HAULING AND DISPOSAL AGREEMENT

Facility Name: Cedar Key Water & Sewer District WWTF

Facility ID#: FLA# 0031216

BIOSOLIDS GENERATOR

The biosolids generator certifies that he is familiar with and shall comply with the applicable requirements of Rule 62-640 F.A.C.

X _____
Biosolids Generator

X _____
Date

II. HAULER

A-Able Septic Sewer Service, Inc. (A-Able) agrees to pickup, haul and be responsible for your biosolids during transport. A-Able agrees to land apply biosolids that have been treated as required by Rule 62-640.600 F.A.C. and is aware of, and they will comply with requirements for the proper disposal of bio Solids. The Bio Solids will be dewatered and properly disposed of @ Compost USA.

Richard St.Clair
A-Able Septic Sewer Service, Inc. President

6/12/20
Date



(352) 795-1554
PHONE

352) 795-5423
FAX

BIOSOLIDS HAULING AND DISPOSAL AGREEMENT

A-Able Septic Sewer Service, Inc. agrees to haul to our Bio Solids Treatment Facility (BTF). All existing state (DEP) and federal (EPA) regulations will be observed as per permit requirements and conditions.

Material to be transported to A-Able Septic Sewer Service BTF (ID# FLA011887) for dewatering will be (check one of the following):

- Unstabilized biosolids.
- Stabilized Class B biosolids.
- Other. Please specify: _____

GENERATORS RESPONSIBILITY:

1. If applicable, apply for and obtain Minor Permit Revision of your Operating Permit with DEP to show our facility as the means of disposal of your wastewater biosolids. As routine or as backup service provider.
2. Provide A-Able Septic Sewer Service, Inc. with a current analysis of your biosolids. Provide an updated analysis at the sampling frequency required of your plant by DEP.
3. Provide for storage of untreated biosolids if a semi can't get to your plant.
4. Maintain biosolids at a percentage of solids that is transferable by pump.
5. Schedule loads for pick up.

A-ABLE SEPTIC SEWER SERVICE, INC. RESPONSIBILITY:

1. Pick up, haul, and be responsible for your biosolids during transport to our biosolids treatment facility for dewatering and proper disposal.



352) 795-1554
PHONE

352) 795-5423
FAX

Customer: Cedar Key Water & Sewer District

Facility #: 0031216

Address: 510 Third Street

Phone No: 352-543-6024

City: Cedar Key, FL 32625

County: Levy

Contact Person: James McCain Superintendent

Cell: 352-949-0603

E-Mail:

Fax:

Phone No:

Operator:

Engineer of Record:

Phone No:

Check one of the following:

- Emergency Only
- All bio Solids removal for proper disposal.

This Agreement is contingent upon biosolids analysis meeting ceiling parameters in Rule 62-640.700 (5) (a), F.A.C.

The dates of the Facilities Operating Permit Expires: on Need Copy It is the responsibility of the facility to provide a current DEP Operating Permit to A-Able Septic. **Upon acceptance of this Agreement, Customer agrees to the following terms: Payment shall be made upon receipt of an itemized invoice from Contractor.**

TERMS ACCEPTED:

Cedar Key Water & Sewer District

A-ABLE SEPTIC SEWER SERVICE
Bio solids Treatment Facility

BY: _____

BY: **Richard St. Clair – President**

Print or Type Name & Title

Print or Type Name & Title

Authorized Signature

Richard St. Clair
Authorized Signature

Date

6/12/20

Date