



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

NORTHEAST DISTRICT
8800 BAYMEADOWS WAY WEST, SUITE 100
JACKSONVILLE, FLORIDA 32256

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD
JR. SECRETARY

December 11, 2013

Mr. Robert E. Hunzinger, General Manager
Gainesville Regional Utilities
301 SE 4th Ave
Gainesville, FL 32601
hunzingerre@gru.com

Re: GRU – Kanapaha Water Reclamation Facility (WRF)
FL0112895
Alachua County

Dear Mr. Hunzinger:

Florida department of Environmental Protection (Department) personnel conducted a compliance inspection of the above-referenced facility on August 27, 2013. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's wastewater rules and regulations. A copy of the inspection report is attached for your records.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Kyle Watson at (904) 256-1624 or via e-mail at kyle.watson@dep.state.fl.us.

Sincerely,

Michael Savage
Environmental Manager

Enclosures: Inspection Report

ec: Paul Davis / Davispb@gru.com
Tom Mikell / Mikelltj@gru.com
John Gifford / Giffordjs@gru.com
Cathleen McCarty / Cathleen.McCarty@dep.state.fl.us

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

WASTEWATER & UIC COMPLIANCE INSPECTION REPORT


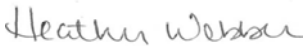
FACILITY AND INSPECTION INFORMATION

Name and Physical Location of Facility Knapaha WRF 3901 SW 63rd Blvd Gainesville, FL 32608 - 3849	WAFR ID: FL0112895	County Alachua Phone (352) 334-3400	Entry Date/Time 8/27/2013
Name(s) of Field Representatives(s) Paul Davis Tom Mikell John Gifford	Title Wastewater Utility Engineer Lead Operator Utility Engineer	Email Davispb@gru.com Mikelltj@gru.com Giffordjs@gru.com	Phone (352) 334-3400 x1636 (352) 393-6696 (352) 393-1615
Name and Address of Permittee or Designated Representative Robert E Hunzinger Po Box 147117 - Station A134 Gainesville, FL 32614 - 7117	Title General Manager of Utility Email hunzingerre@gru.com	Phone (352) 334-3400	

Inspection Type:	<input checked="" type="checkbox"/> C <input type="checkbox"/> E <input type="checkbox"/> I <input type="checkbox"/>	Samples Taken(Y/N): N	@ Sample ID#:	Samples Split (Y/N): N
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	Were Photos Taken(Y/N): N	@ Log book Volume :	@ Page

FACILITY COMPLIANCE AREAS EVALUATED							
IC: In Compliance; MC: Minor Out of Compliance; NC: Out of Compliance SC: Significant Non-Compliance; NA: Not Applicable; NE or Blank: Not Evaluated							
Significant Non-Compliance Criteria Should be Reviewed When Out of Compliance Ratings Are Given in Areas Marked by a "♦"							
	PERMITS/ORDERS		SELF MONITORING PROGRAM		FACILITY OPERATIONS		EFFLUENT/DISPOSAL
IC	1. ♦ Permit	IC	3. Laboratory	IC	6. Facility Site Review	IC	9. ♦ Effluent Quality
IC	2. ♦ Compliance Schedules	IC	4. Sampling	IC	7. Flow Measurement	IC	10. ♦ Effluent Disposal
		IC	5. ♦ Records & Reports	IC	8. ♦ Operation & Maintenance	IC	11. Biosolids/Sludge
						IC	12. Groundwater
IC	14. Other: Underground Injection Control (UIC) Operation & Discharge Monitoring					IC	13. SSO Survey

Facility and/or Order Compliance Status: <input checked="" type="checkbox"/> In-Compliance <input type="checkbox"/> Out-Of-Compliance <input type="checkbox"/> Significant-Out-Of-Compliance
Recommended Actions:

Name(s) and Signature(s) of Inspector(s) Christopher Watson 	District Office/Phone Number NED/ (904)256-1624	Date 11/21/2013
@ Signature of Reviewer Heather Webber 	District Office/Phone Number NED/ (904)256-1622	Date 12/06/13

Single Event Violation Code(s):
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INSPECTION REPORT SUMMARY

Facility Name: Kanapaha WRF

Facility ID: FL0112895

Inspection Type: CEI

Inspection Date: 8/27/2013

FACILITY BACKGROUND:

Facility Address: 3901 SW 63rd Blvd, Gainesville, FL 32608 - 3849, Alachua County

Program/ Permit Information: DW, permit issue date: 8/18/2011, expiration date: 11/11/2015

Treatment Summary: Advanced Wastewater Treatment Plant W/Effluent to Four Disposal Wells, Reclaim Sites

Permitted Capacity: 14.9 MGD

1. **Permit:** RATING – IN COMPLIANCE

1.1 Observation: A copy of the permit was onsite and available to plant personnel.

2. **Compliance Schedules:** RATING – IN COMPLIANCE

2.1 Observation: The schedules specified in the permit/order have been completed.

3. **Laboratory:** RATING – IN COMPLIANCE

3.1 Observation: The laboratory is certified by the Department of Health.

3.2 Observation: Lab thermometers are checked annually against a National Institute of Standards and Technology (NIST) thermometer.

3.3 Observation: The laboratory was maintaining QC manuals and records for instrument calibration.

4. **Sampling:** RATING – IN COMPLIANCE

4.1 Observation: Calibrations were performed correctly.

4.2 Observation: Sample collection is being performed in accordance with DEP-SOP-001/01.

4.3 Observation: Safe and dry access to influent and effluent sampling points are provided.

4.4 Observation: Calibration standards/buffers were within the expiration dates.

5. **Records and Reports:** RATING – IN COMPLIANCE

5.1 Observation: *General* – A copy of the current laboratory certification was available at the time of the inspection (62-620.350(1) F.A.C.).

5.2 Observation: *General* – Operators' certification(s) were current and available on-site.

5.3 Observation: *General* – The certified operator's daily logbook was complete.

Please Note: A more efficient and paperless alternative to reporting discharge and groundwater monitoring data is available at <http://www.edmr.dep.state.fl.us>.

6. **Facility Site Review:** RATING – IN COMPLIANCE

6.1 Observation: *General* – The facility grounds were secured properly.

6.2 Observation: *General* – Safety equipment was available.

6.3 Observation: *General* – The facility grounds were clean and well maintained.

6.4 Observation: *General* – Foul odors did not permeate beyond the boundaries of the plant site at the time of the inspection.

6.5 Observation: *Backflow Prevention* – A reduced pressure zone backflow prevention devices were in place on the potable water supply line.

6.6 Observation: *Backflow Prevention* – The reduced pressure zone backflow prevention devices were free from leaks and necessary repair. All RPZs are certified annually.

6.7 Observation: *AlternatePower* – An alternative power source is available at the WWTF.

6.8 Observation: *AlternatePower* – The standby electrical power generators were operational at the time of the inspection.

6.9 Observation: *AlternatePower* – The onsite generators are tested under load on a routine basis.

6.10 Observation: *AlternatePower* – A record of testing was available for the onsite generators.

6.11 Observation: *LiftStations* – All the lift stations associated with the facility are monitored by SCADA system. Alarms are operable.

6.12 Observation: *Headworks* – Screening and grit are being disposed of at a Class I landfill.

6.13 Observation: *Headworks* – Screening and grit are being collected in suitable containers.

6.14 Observation: *Headworks* – There were no excessive odors emanating from the headworks at the time of the inspection. An odor control trickling scrubber system is scheduled for construction next week.

6.15 Observation: *Headworks* – The bar screen is cleaned on a routine basis. Automated rake bar screens are currently installed and operable. Rotary screens are to be installed in the near future.

6.16 Observation: *AerationBasins/Act.Sludge* – The contents in the aeration chambers appeared to be adequately mixed.

- 6.17 Observation: *Aeration Basins/Act. Sludge* – The time clock for the aeration system control was operational at the time of the inspection.
- 6.18 Observation: *Aeration Basins/Act. Sludge* – The RAS line was properly located.
- 6.19 Observation: *Blowers/Motors* – The mixers were operational at the time of the inspection.
- 6.20 Observation: *Blowers/Motors* – The time clock on the mixers was set properly.
- 6.21 Observation: *Clarifiers* – The clarifier weirs appear to be level.
- 6.22 Observation: *Clarifiers* – The skimmer appeared to be functioning properly.
- 6.23 Observation: *Clarifiers* – The clarifier had good settling and clear effluent.
- 6.24 Observation: *Filtration* – The filter contained sufficient media. Filters are routinely backwashed with backwash events being recorded.
- 6.25 Observation: *Disinfection* – The chlorine contact chamber was providing a minimum contact time of 15 minutes.
- 6.26 Observation: *Dechlorination* – The automatic sodium disulfate feed was operational at the time of the inspection.
- 6.27 Observation: *Digestors* – The tank contents in the aerobic digester were well mixed.
- 6.28 Observation: *Digestors* – The digestors were free from excessive odors.

7. Flow Measurement: RATING – IN COMPLIANCE

- 7.1 Observation: The flow measurement device was installed properly. Flow devices are installed on all four injection wells, as well as the reuse line.
- 7.2 Observation: The copies of the flow calibration reports are current and satisfactory.
- 7.3 Observation: SCADA visuals were down for maintenance purposed but the continuous recorders were still operable for flow, chlorine, and turbidity.

8. Operation and Maintenance: RATING – IN COMPLIANCE

- 8.1 Observation: *General* – The facility was operated and maintained in accordance with the description in the Permit.
- 8.2 Observation: *General* – A certified operator as required by Rule 62-602 and the Permit, was operating the WWTF.
- 8.3 Observation: *General* – Swales were being maintained

8.4 Observation: *General* – The facility maintains an adequate spare parts inventory.

9. **Effluent Quality**: RATING – IN COMPLIANCE

9.1 Observation: The final effluent chlorine residual was within the acceptable range.

9.2 Observation: The final effluent met the minimum dissolved oxygen criteria.

9.3 Observation: The final effluent met the minimum/maximum criteria for pH.

9.4 Observation: A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).

- MWC-2D – Exceeded the permitted Color limit of 15 PCU during March 2013.
- Effluent exceeded the permitted Iron limit of 300 mg/L during December 2012.

10. **Effluent Disposal**: RATING – IN COMPLIANCE

10.1 Observation: *General* – The facility was discharging at the time of the inspection.

10.2 Observation: *General* – The effluent was free from visible sheen at the time of the inspection.

10.3 Observation: *General* – The effluent was free from excessive turbidity.

10.4 Observation: *General* – The effluent was free from excessive foam.

10.5 Observation: *Reuse* – All plastic reclaimed water piping, pipelines, valves, outlets, and other appurtenances were color-coded Pantone Purple.

11. **Biosolids/Sludge**: RATING – IN COMPLIANCE

11.1 Observation: *General* – Residuals were being disposed of in accordance with the permit.

11.2 Observation: *Records and Reports* – The Permittee maintained adequate records of disposal for the land application of residuals.

11.3 Observation: *Records and Reports* – The facility was sampling for the proper residual parameters in accordance with the frequency in the Permit

12. **Groundwater Quality**: RATING – IN COMPLIANCE

12.1 Observation: The laboratory detection limits were provided on the ground water monitoring report form.

12.2 Observation: Ground water monitoring wells were secured and locked.

12.3 Observation: The compliance monitoring wells were being purged properly prior to sampling.

12.4 Observation: The static water level was being measured and reported on the ground water monitoring report form.

13. **SSO:** RATING – IN COMPLIANCE

13.1 Observation: Measures are being taken to resolve the SSOs which occurred on July 26, 2013 and August 13, 2013.

14. **Other:** Underground Injection Control (UIC) Operation & Discharge Monitoring

RATING – IN COMPLIANCE

Observation: A PVC air release valve was broken/missing at the well head of injection well R-1. Repairs were satisfactorily completed 9/10/2013 and documented 9/12/2013.

EXHIBIT A

PRE-INSPECTION CHECKLIST

REUSE SYSTEMS PERMITTED UNDER PART III OF CHAPTER 62-610, F.A.C.

Reuse System Name: GRU Kanapaha WRF Reuse System ID# FL0112895
Name of Inspector: Kyle Watson Date of Inspection 8/27/2013

1. Treatment Level [minimum acceptable is secondary with filtration]
☐ Less than secondary ☐ Secondary ☐ Secondary with filtration ☒ Advanced
2. Disinfection Level [minimum acceptable is high level]
☐ Basic ☐ Intermediate ☒ High-Level
3. Permitted Capacity (in mgd) 14.9
4. Is there a DEP approved pretreatment program?
☒ Yes ☐ No Covered by GRU Main St
If not, are there industrial users meeting the definition of Rule 62-25.200(20)(a)&(b), F.A.C., discharging to the facility? (Provide list of suspected significant industrial users)
☐ Yes ☐ No

Operating Protocol

5. Are the criteria and procedures contained in the facility's operating protocol sufficient to ensure that applicable rule requirements are met and only acceptable quality reclaimed water is sent to the reuse system [Rule 62-610.320(6), F.A.C.]?
☒ Yes ☐ No

Discharge Monitoring Reports

6. Has the facility exceeded the 5.0 mg/L TSS limit?
☐ Yes ☒ No
7. Has the facility maintained a total chlorine residual of at least 1.0 mg/L?
☒ Yes ☐ No
8. Are at least 75 percent of all fecal coliform occurrences below detection?
☒ Yes ☐ No
9. Does any single sample of fecal coliform exceed 25 per 100 mL?
☐ Yes ☒ No

Reporting Requirements

10. Has the facility submitted the Annual Reuse Report in a timely fashion?

☒ Yes ☐ No

If yes:

(a) Has the form been completed properly?

☒ Yes ☐ No

(b) Has the facility furnished the required attachments?

☒ Yes ☐ No

11. Has the facility submitted the Reclaimed Water or Effluent Analysis Report?

☒ Yes ☐ No

If yes:

(a) Has the facility experienced any exceedances?

☐ Yes ☒ No

12. Has the facility submitted a Pathogen Monitoring Report?

☐ Yes ☐ No ☒ N/A

If yes:

(a) Was the form submitted in a timely fashion?

☐ Yes ☐ No

EXHIBIT B

INSPECTION CHECKLIST FOR REUSE SYSTEMS PERMITTED UNDER PART III OF CHAPTER 62-610, F.A.C.

Reuse System Name:	<u>GRU Kanapaha WRF</u>	Reuse System ID#	<u>FL0112895</u>
Name of Inspector:	<u>Kyle Watson</u>	Date of Inspection	<u>8/27/2013</u>

1. Does the operator know where the on-site copy of the operating protocol is located?
☒ Yes ☐ No
2. Is the operating protocol current?
☒ Yes ☐ No
3. Are continuous on-line monitoring instruments equipped with automated data logging or recording devices?
☒ Yes ☐ No, Explain _____
4. Are the continuous on-line monitoring instruments routinely calibrated and maintained according to Chapters 62-160 and 62-601, F.A.C.?
☒ Yes ☐ No, Explain _____
5. Are manuals for calibrating continuous on-line monitoring instruments available on-site?
☒ Yes ☐ No
6. Is turbidity monitored at a point immediately after filtration and before disinfection?
☒ Yes ☐ No
7. Is TSS monitored at a point immediately after filtration and before disinfection?
☒ Yes ☐ No
8. Is the point of compliance monitoring for other parameters after disinfection and before discharge to storage or the reuse system?
☒ Yes ☐ No
9. Is the water in the contact chamber clear?
☒ Yes ☐ No
10. Are there solids in the bottom of the chlorine contact chamber?
☐ Yes ☒ No

11. Turbidity:

DEP field measurement _____ NTU. N/A, no field sample taken.

WWTP's Continuous Monitoring Measurement _____ NTU. Not noted during inspection.

12. Chlorine:

DEP field measurement _____ mg/L. N/A, no field sample taken.

WWTP's Continuous Monitoring Measurement ≥ 1.0 mg/L

13. Was a sample of TSS taken?

☐ Yes ☒ No

If yes, TSS = _____ mg/L (lab result)

14. Do the actual alarm setpoints correspond with the alarm setpoints in the operating protocol?

☒ Yes ☐ No

15. Do the strip charts reveal any reject occurrences?

☐ Yes ☒ No

If so, are these occurrences logged?

☐ Yes ☐ No

16. Is there physical evidence that reject storage has been recently used?

☒ Yes ☐ No They routinely direct water to reject pond, regardless of quality

17. Has unacceptable quality reclaimed water been introduced into the reuse system since the last inspection?

☐ Yes ☒ No

If yes, what was done to bring the facility back into compliance?

18. Has unacceptable quality reclaimed water been diverted to reject storage or disposal since the last inspection?

☐ Yes ☒ No

If yes, what was done to bring the facility back on-line?

19. Did the operator demonstrate diversion procedures in accordance with the operating protocol?

☐ Yes ☐ No N/A: No reject diversions

20. Does the diversion demonstration clearly show that all reject water went to reject storage or disposal?

☐ Yes ☐ No N/A: No reject diversions

If not, explain _____

21. Are supplemental water supplies introduced at the domestic wastewater treatment plant?

☐ Yes ☒ No

If yes, indicate:

Type: ☐ Surface water Location: _____
☐ Treated stormwater Treatment Provided: _____
☐ Ground water Backflow Prevention Device: _____
☐ Treated drinking water

22. Are supplemental water facilities color-coded [Rule 62-610.472]?

☐ Yes ☐ No

(a) If so, what color? _____

23. Are supplemental water facilities included in record drawings [Rule 62-610.472(7)]?

☐ Yes ☐ No

Note: Permittees are responsible for maintaining record drawings. However, these drawings may not be maintained at the treatment facility. If the inspector cannot obtain a copy of record drawing from the permitting engineer, the inspector needs to ask the utility to obtain a copy of record drawings in order to review them.

24. Are all reclaimed water pipes valves, and outlets color-coded and labeled in accordance with Rule 62-610.469(f), F.A.C.?

☒ Yes ☐ No

EXHIBIT C

CHECKLIST

INSPECTING DISTRIBUTION LINES OF REUSE SYSTEMS PERMITTED UNDER PART III OF CHAPTER 62-610, F.A.C.

Reuse System Name:	<u>GRU Kanapaha WRF</u>	Reuse System ID#	<u>FL0112895</u>
Name of Inspector:	<u>Kyle Watson</u>	Date of Inspection	<u>8/27/2013</u>

1. Will reclaimed water lines at a new customer's residence be inspected at the time of initial connection [Rule 62-610.469(7)(h), F.A.C.]?

☒ Yes ☐ No

2. Is a periodic inspection plan provided [Rule 62-610.469(7)(h), F.A.C.]?

☒ Yes ☐ No

If yes:

(a) What is the frequency of inspections? Monthly

3. Are hose bibbs allowed in the reuse system [Rule 62-610.469(3), F.A.C.]?

☐ Yes ☒ No

If yes:

(a) Are the hose bibbs in locked vaults, clearly labeled as being of non-potable quality in English and Spanish along with the equivalent standard international symbol [Rule 62-610.469(3), F.A.C.]?

☐ Yes ☐ No

If not:

(b) Can hose bibbs only be operated by a special tool in unlocked service boxes labeled as being of non-potable quality in English and Spanish along with the equivalent standard international symbol [Rule 62-610.469(3), F.A.C.]?

☐ Yes ☐ No

EXHIBIT D

INSPECTION CHECKLIST

PUBLIC NOTIFICATION AND ADVISORY SIGNS FOR REUSE SYSTEMS

PERMITTED UNDER PART III OF

CHAPTER 62-610, F.A.C.

Reuse System Name: GRU Kanapaha WRF Reuse System ID# FL0112895
Name of Inspector: Kyle Watson Date of Inspection 8/27/2013

1. Is notification provided at the time of initiation of a new service to users of reclaimed water [Rule 62-610.468(6), F.A.C.]?

☒ Yes ☐ No

If yes:

(a) Please describe notification provided: _____

2. Is there a provision to notify users of reclaimed water annually [Rule 62-610.468(6), F.A.C.]?

☒ Yes ☐ No

3. Are advisory signs posted in residential and golf course areas using reclaimed water (i.e., at the entrance to residential areas, and the 1st and 10th tees of golf courses) [Rule 62-610.468, F.A.C.]?

☒ Yes ☐ No Confirmed at; Chapman Trials, Haile Plantation Golfcourse
Residential, Kanapaha Botanical Gardens, Veteran's Park, Garison Way Subdivision Phase II.

4. Do advisory signs posted in residential and golf course areas using reclaimed water bear the words "Do not drink" in English and Spanish ("No beber") along with the equivalent standard international symbol [Rule 62-610.468]?

☒ Yes ☐ No

5. Are advisory signs posted adjacent to lakes and ponds used to store reclaimed water [Rule 62-610.468, F.A.C.]?

☐ Yes ☐ No Did not examine any reuse lakes.

6. Are advisory signs posted adjacent to decorative water features that use reclaimed water [Rule 62-610.468, F.A.C.]?

☐ Yes ☐ No Did not examine any decorative water features.

7. Do advisory signs posted adjacent to lakes, ponds, and decorative water features using reclaimed water bear the words "Do not drink" and "Do not swim" in English and Spanish ("No beber" and "No nadar") along with the equivalent standard international symbols [Rule 62-610.468, F.A.C.]?

☐ Yes ☐ No Did not examine any reuse lakes or water features.

8. If reclaimed water is used at the domestic wastewater treatment facility or at an industrial site, are advisory signs posted at the main entrances and around the portions of the site in which reclaimed water is used [Rule 62-610.658, F.A.C.]?

☒ Yes ☐ No

9. Do the advisory signs in the above areas use purple as a prominent color (recommended, not required)?

☒ Yes ☐ No

10. Are there an adequate number of advisory signs posted in the above areas?

☒ Yes ☐ No

Note: There is no prescribed number within DEP rules to define "an adequate number of advisory signs". The inspector must use his/her own discretion to decide whether the number of advisory signs provided effectively notifies the public that reclaimed water is used at the site.

11. Are the words and international symbols on advisory signs clearly visible and legible?

☒ Yes ☐ No