

**Industrial Wastewater Ground Water Monitoring Requirements for Site Certification PA78-10,
in accordance with Section B, Condition I.P.**

1. Ground water monitoring is required around all Industrial Wastewater sites (i.e.: coal storage area, limestone storage area, two wastewater percolation ponds, and one wastewater sprayfield pond). The Licensee shall install and maintain an industrial wastewater ground water monitoring well network to monitor the water quality of the aquifer(s) around the Industrial Wastewater sites, in accordance with Chapter 62-520, F.A.C.
2. During the period of operation authorized by the Site Certification, the Licensee shall conduct ground water monitoring at the monitor wells identified in item 3 below, in accordance with the ground water monitoring plan and Rule 62-520.600, F.A.C.
3. The following monitoring wells shall be sampled at the Industrial Wastewater sites:

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude			Longitude			Depth (Feet)	Aquifer Monitored	New or Existing
		°	'	"	°	'	"			
MWI-8R	Off northeast corner of coal pile area.	29	44	15	81	38	14	40	Surficial	Existing
MWC-9	Northwest of coal pile area, along western property line and US17.	29	44	15	81	38	41	40	Surficial	Existing
MWI-10	Northwest of coal pile area.	29	44	7	81	38	36	40	Surficial	Existing
MWC-12	Southwest of coal pile area.	29	43	42	81	38	33	40	Surficial	Existing
MWC-13A	South of coal pile area.	29	43	38	81	38	22	40	Surficial	Existing
MWI-14A ^a	Southeast of percolation ponds.	29	43	43	81	37	22	40	Surficial	Existing
MWI-14CR	Southeast of percolation ponds, next to MWI-14A.	29	44	16	81	38	5	85	Intermediate	Existing
MWC-16R2	North of percolation ponds and east of coal pile area, along eastern property line.	29	44	6	81	37	26	40	Surficial	Existing
MWI-17C	East of percolation ponds.	29	43	49	81	37	14	40	Surficial	Existing

MWI = Intermediate; MWC = Compliance

a. See Item 4 for additional monitoring requirements on this well.

[62-520.600(6)]



Figure 3. Industrial Wastewater Monitor Well Locations

4. The following parameters in the table below shall be sampled and analyzed at the stated frequency for monitoring wells MWI-8R, MWC-9, MWI-10, MWC-12, and MWC-13A.

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Annually
Arsenic, Total	10	ug/L	Grab	Annually
Barium, Total	2000	ug/L	Grab	Annually
Beryllium, Total	4	ug/L	Grab	Annually
Cadmium, Total	5	ug/L	Grab	Annually

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Chloride	Report	mg/L	Grab	Annually
Chromium, Total	100	ug/L	Grab	Annually
Copper, Total	Report	ug/L	Grab	Annually
Gross Alpha	15	pCi/L	Grab	Annually
Iron, Total	Report	ug/L	Grab	Annually
Lead, Total	15	ug/L	Grab	Annually
Mercury, Total	2.0	ug/L	Grab	Annually
Nickel, Total	100	ug/L	Grab	Annually
Nitrite plus Nitrate, Total (as N)	10	mg/L	Grab	Annually
pH	Report	s.u.	In Situ	Annually
Selenium, Total	50	ug/L	Grab	Annually
Silver, Total	Report	ug/L	Grab	Annually
Specific Conductance	Report	umhos/cm	In Situ	Annually
Sulfate	Report	mg/L	Grab	Annually
Thallium	2	ug/L	Grab	Annually
Total Organic Carbon	Report	ug/L	Grab	Annually
Total Organic Halogen	Report	ug/L	Grab	Annually
Turbidity	Report	NTUs	In Situ	Annually
Vanadium, Total	Report	ug/L	Grab	Annually
Zinc, Total	Report	ug/L	Grab	Annually

[62-520.600(11)(b)] [62-520.310(5)]

Annually = Once Per Year

5. The following parameters in the table below shall be sampled and analyzed at the stated frequency for monitoring wells MWI-14A, MWI-14CR, MWC-16R2, and MWI-17C.

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Quarterly
Arsenic, Total	10	ug/L	Grab	Quarterly
Barium, Total	2000	ug/L	Grab	Quarterly
Beryllium, Total	4	ug/L	Grab	Quarterly
Cadmium, Total	5	ug/L	Grab	Quarterly
Chloride	Report	mg/L	Grab	Quarterly
Chromium, Total	100	ug/L	Grab	Quarterly
Copper, Total	Report	ug/L	Grab	Quarterly
Gross Alpha	15	pCi/L	Grab	Quarterly
Iron, Total	Report	ug/L	Grab	Quarterly
Lead, Total	15	ug/L	Grab	Quarterly
Mercury, Total	2.0	ug/L	Grab	Quarterly
Nickel, Total	100	ug/L	Grab	Quarterly
Nitrite plus Nitrate, Total (as N)	10	mg/L	Grab	Quarterly
pH	Report	s.u.	In Situ	Quarterly
Selenium, Total	50	ug/L	Grab	Quarterly
Silver, Total	Report	ug/L	Grab	Quarterly
Specific Conductance	Report	umhos/cm	In Situ	Quarterly
Sulfate	Report	mg/L	Grab	Quarterly
Thallium	2	ug/L	Grab	Quarterly

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Total Organic Carbon	Report	ug/L	Grab	Quarterly
Total Organic Halogen	Report	ug/L	Grab	Quarterly
Turbidity	Report	NTUs	In Situ	Quarterly
Vanadium, Total	Report	ug/L	Grab	Quarterly
Zinc, Total	Report	ug/L	Grab	Quarterly

[62-520.600(11)(b)] [62-520.310(5)]

Quarterly = Four Times Per Year

6. By December 31, 2015, and once every five years thereafter, the Licensee shall conduct an expanded sampling of monitoring well MWI-14A for the primary and secondary drinking water parameters included in Chapter 62-550, F.A.C., Tables 1, 4, 5 and 6, (excluding asbestos and pesticides), plus turbidity. The analytical results from this expanded sampling shall be submitted to the DEP-NED Ground Water Section within 60 days following the sampling event. [62-520.600(5)(b)]
7. By December 31, 2019, and once every five years thereafter, the Licensee shall sample the wastewater discharges to the percolation ponds, or take samples from the ponds. The sampling shall be conducted on representative grab samples for the primary and secondary drinking water parameters included in Chapter 62-550, Tables 1, 4, 5 and 6, (excluding asbestos, pesticides). All analytical results from this expanded sampling shall be submitted to the DEP-NED Ground Water Section within 60 days following the sampling event. [62-520.600(3)]
8. Except for the expanded monitoring results in items 6 and 7, the Industrial Wastewater ground water monitoring results shall be submitted according to the following schedule on Part D of DEP Form 62-620.910(10) to the address listed below, or the Licensee may elect to enter the monitoring results into the electronic online DEP system. A facility specific version of this DEP Form is included at the bottom of Attachment D-2.

SAMPLE PERIOD	FREQUENCY	REPORT DUE DATE
January 1 - March 30	Quarterly	April 28
April 1 - June 30	Quarterly	July 28
July 1 - September 30	Quarterly	October 28
October 1 - December 31	Quarterly	January 28
January 1 - December 31	Annually	January 28

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

[62-520.600(11)(b)][62-620.610(18)]

9. Groundwater samples shall be collected in accordance with DEP's Standard Operating Procedures Manual for Field Sampling, and shall conform to the applicable Quality Assurance/Quality Control requirements of Chapter 62-160, F.A.C. [62-160]
10. The Licensee shall ensure that all monitor well samples are analyzed by a certified laboratory that meets the requirements of Chapter 62-160, F.A.C. Minimum detection limits shall be at or below the ground water standards and/or criteria. [62-160]

11. The Licensee shall give at least 72-hours notice to the DEP-NED Ground Water Section, prior to the installation of any monitoring wells detailed in the conditions. [62-520.600(6)(h)]
12. Prior to construction of new monitor wells, a soil boring shall be made at each well location in order to properly determine the well depth and screen interval. [62-520.600(6)(g)]
13. All monitor wells shall be constructed and developed in accordance with the DEP's guidelines referenced in Chapter 62-520, F.A.C. and installed by a Florida licensed water well contractor. [62-520.600(3)]
14. Within 30 days after installation of a monitoring well, the Licensee shall submit to the DEP-NED Ground Water Section detailed information on the well's location and construction on DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. [62-520.600(6)(j) and .900(3)]
15. All piezometers and monitor wells not part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless future use is intended. [62-532.500(5)]
16. If any monitoring well becomes damaged or cannot be sampled for some reason, the Licensee shall notify the DEP-NED Ground Water Section immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. Repair or replacement of monitoring wells shall be approved in advance by the DEP-NED Ground Water Section. [62-520.600][62-4.070(3)]
17. If the concentration of a monitoring constituent in the natural background ground water quality is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. [62-520.420(2)]
18. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. [62-520.600(11)(c)]
19. Ground water monitor wells shall be purged prior to sampling to obtain representative samples. [62-160.210]
20. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the DEP-NED Ground Water Section as being more representative of ground water conditions. [62-520.310(5)]
21. All correspondence, reports, plans, and summaries pertaining to Industrial Wastewater ground water monitoring, excluding the monitor well results for items 6, 7, and 9, shall be submitted to the DEP-NED Ground Water Section with an electronic copy to the DEP Siting Office mailbox. [62-4.070(3)]
22. The Industrial Wastewater sites shall not contaminate waters of the State (including both surface and ground waters) in excess of the limitations of Chapters 62-302 and 62-520, F.A.C. beyond the boundary of the established zone of discharge. The zone of discharge shall extend horizontal from the edge of the Industrial Wastewater sites to the facility's property line, and vertically to the bottom of the surficial aquifer. [62-520.200(27)] [62-520.465]

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District
 Monitoring Period

From: _____ To: _____

Monitoring Well ID: MWI-8R
 Well Type: Intermediate
 Description:
 Re-submitted DMR: ☐
 Date Sample Obtained: _____
 Time Sample Obtained: _____

Report Frequency: Annually
 Program: Industrial\SC

Was the well purged before sampling? Yes No

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Annual				
Arsenic, Total	01002		Report	UG/L	Grab	Annual				
Barium, Total	01007		Report	UG/L	Grab	Annual				
Beryllium, Total	01012		Report	UG/L	Grab	Annual				
Cadmium, Total	01027		Report	UG/L	Grab	Annual				
Chloride (as Cl)	00940		Report	MG/L	Grab	Annual				
Chromium, Total	01034		Report	UG/L	Grab	Annual				
Copper, Total	01042		Report	UG/L	Grab	Annual				
Gross Alpha	80045		Report	PCI/L	Grab	Annual				
Iron, Total	01045		Report	UG/L	Grab	Annual				
Lead, Total	01051		Report	UG/L	Grab	Annual				
Mercury, Total	71900		Report	UG/L	Grab	Annual				
Nickel, Total	01067		Report	UG/L	Grab	Annual				
Nitrite plus Nitrate, Total (as N)	00630		Report	MG/L	Grab	Annual				
pH	00406		Report	SU	In-situ	Annual				
Selenium, Total	01147		Report	UG/L	Grab	Annual				
Silver, Total	01077		Report	UG/L	Grab	Annual				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Annual				
Sulfate, Total	00945		Report	MG/L	Grab	Annual				
Thallium, Total	01059		Report	UG/L	Grab	Annual				
Total Organic Carbon	00680		Report	MG/L	Grab	Annual				
Total Organic Halogen	78115		Report	MG/L	Grab	Annual				
Turbidity	82079		Report	NTU	In-situ	Annual				
Vanadium, Total	01087		Report	UG/L	Grab	Annual				
Zinc, Total	01092		Report	UG/L	Grab	Annual				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District

Monitoring Well ID: MWC-9
 Well Type: Compliance
 Description: See Location Map
 Re-submitted DMR: ☐

Report Frequency: Annually
 Program: Industrial\SC

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Annual				
Arsenic, Total	01002		10	UG/L	Grab	Annual				
Barium, Total	01007		2000	UG/L	Grab	Annual				
Beryllium, Total	01012		4	UG/L	Grab	Annual				
Cadmium, Total	01027		5	UG/L	Grab	Annual				
Chloride (as Cl)	00940		Report	MG/L	Grab	Annual				
Chromium, Total	01034		100	UG/L	Grab	Annual				
Copper, Total	01042		Report	UG/L	Grab	Annual				
Gross Alpha	80045		15	PCI/L	Grab	Annual				
Iron, Total	01045		Report	UG/L	Grab	Annual				
Lead, Total	01051		15	UG/L	Grab	Annual				
Mercury, Total	71900		2	UG/L	Grab	Annual				
Nickel, Total	01067		100	UG/L	Grab	Annual				
Nitrite plus Nitrate, Total (as N)	00630		10	MG/L	Grab	Annual				
pH	00406		Report	SU	In-situ	Annual				
Selenium, Total	01147		50	UG/L	Grab	Annual				
Silver, Total	01077		Report	UG/L	Grab	Annual				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Annual				
Sulfate, Total	00945		Report	MG/L	Grab	Annual				
Thallium, Total	01059		2	UG/L	Grab	Annual				
Total Organic Carbon	00680		Report	MG/L	Grab	Annual				
Total Organic Halogen	78115		Report	MG/L	Grab	Annual				
Turbidity	82079		Report	NTU	In-situ	Annual				
Vanadium, Total	01087		Report	UG/L	Grab	Annual				
Zinc, Total	01092		Report	UG/L	Grab	Annual				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District

Monitoring Well ID: MWI-10
 Well Type: Intermediate
 Description: See Location Map
 Re-submitted DMR: ☐

Report Frequency: Annually
 Program: Industrial\SC

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Annual				
Arsenic, Total	01002		Report	UG/L	Grab	Annual				
Barium, Total	01007		Report	UG/L	Grab	Annual				
Beryllium, Total	01012		Report	UG/L	Grab	Annual				
Cadmium, Total	01027		Report	UG/L	Grab	Annual				
Chloride (as Cl)	00940		Report	MG/L	Grab	Annual				
Chromium, Total	01034		Report	UG/L	Grab	Annual				
Copper, Total	01042		Report	UG/L	Grab	Annual				
Gross Alpha	80045		Report	PCI/L	Grab	Annual				
Iron, Total	01045		Report	UG/L	Grab	Annual				
Lead, Total	01051		Report	UG/L	Grab	Annual				
Mercury, Total	71900		Report	UG/L	Grab	Annual				
Nickel, Total	01067		Report	UG/L	Grab	Annual				
Nitrite plus Nitrate, Total (as N)	00630		Report	MG/L	Grab	Annual				
pH	00406		Report	SU	In-situ	Annual				
Selenium, Total	01147		Report	UG/L	Grab	Annual				
Silver, Total	01077		Report	UG/L	Grab	Annual				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Annual				
Sulfate, Total	00945		Report	MG/L	Grab	Annual				
Thallium, Total	01059		Report	UG/L	Grab	Annual				
Total Organic Carbon	00680		Report	MG/L	Grab	Annual				
Total Organic Halogen	78115		Report	MG/L	Grab	Annual				
Turbidity	82079		Report	NTU	In-situ	Annual				
Vanadium, Total	01087		Report	UG/L	Grab	Annual				
Zinc, Total	01092		Report	UG/L	Grab	Annual				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District

Monitoring Well ID: MWC-12
 Well Type: Compliance
 Description: See Location Map
 Re-submitted DMR: ☐

Report Frequency: Annually
 Program: Industrial\SC

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Annual				
Arsenic, Total	01002		10	UG/L	Grab	Annual				
Barium, Total	01007		2000	UG/L	Grab	Annual				
Beryllium, Total	01012		4	UG/L	Grab	Annual				
Cadmium, Total	01027		5	UG/L	Grab	Annual				
Chloride (as Cl)	00940		Report	MG/L	Grab	Annual				
Chromium, Total	01034		100	UG/L	Grab	Annual				
Copper, Total	01042		Report	UG/L	Grab	Annual				
Gross Alpha	80045		15	PCI/L	Grab	Annual				
Iron, Total	01045		Report	UG/L	Grab	Annual				
Lead, Total	01051		15	UG/L	Grab	Annual				
Mercury, Total	71900		2	UG/L	Grab	Annual				
Nickel, Total	01067		100	UG/L	Grab	Annual				
Nitrite plus Nitrate, Total (as N)	00630		10	MG/L	Grab	Annual				
pH	00406		Report	SU	In-situ	Annual				
Selenium, Total	01147		50	UG/L	Grab	Annual				
Silver, Total	01077		Report	UG/L	Grab	Annual				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Annual				
Sulfate, Total	00945		Report	MG/L	Grab	Annual				
Thallium, Total	01059		2	UG/L	Grab	Annual				
Total Organic Carbon	00680		Report	MG/L	Grab	Annual				
Total Organic Halogen	78115		Report	MG/L	Grab	Annual				
Turbidity	82079		Report	NTU	In-situ	Annual				
Vanadium, Total	01087		Report	UG/L	Grab	Annual				
Zinc, Total	01092		Report	UG/L	Grab	Annual				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District

Monitoring Well ID: MWC-13A
 Well Type: Compliance
 Description: See Location Map
 Re-submitted DMR: ☐

Report Frequency: Annually
 Program: Industrial\SC

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Annual				
Arsenic, Total	01002		10	UG/L	Grab	Annual				
Barium, Total	01007		2000	UG/L	Grab	Annual				
Beryllium, Total	01012		4	UG/L	Grab	Annual				
Cadmium, Total	01027		5	UG/L	Grab	Annual				
Chloride (as Cl)	00940		Report	MG/L	Grab	Annual				
Chromium, Total	01034		100	UG/L	Grab	Annual				
Copper, Total	01042		Report	UG/L	Grab	Annual				
Gross Alpha	80045		15	PCI/L	Grab	Annual				
Iron, Total	01045		Report	UG/L	Grab	Annual				
Lead, Total	01051		15	UG/L	Grab	Annual				
Mercury, Total	71900		2	UG/L	Grab	Annual				
Nickel, Total	01067		100	UG/L	Grab	Annual				
Nitrite plus Nitrate, Total (as N)	00630		10	MG/L	Grab	Annual				
pH	00406		Report	SU	In-situ	Annual				
Selenium, Total	01147		50	UG/L	Grab	Annual				
Silver, Total	01077		Report	UG/L	Grab	Annual				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Annual				
Sulfate, Total	00945		Report	MG/L	Grab	Annual				
Thallium, Total	01059		2	UG/L	Grab	Annual				
Total Organic Carbon	00680		Report	MG/L	Grab	Annual				
Total Organic Halogen	78115		Report	MG/L	Grab	Annual				
Turbidity	82079		Report	NTU	In-situ	Annual				
Vanadium, Total	01087		Report	UG/L	Grab	Annual				
Zinc, Total	01092		Report	UG/L	Grab	Annual				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District
 Monitoring Period

Monitoring Well ID: MWI-14A
 Well Type: Intermediate
 Description: See Location Map
 Re-submitted DMR: ☐
 Date Sample Obtained: _____
 Time Sample Obtained: _____

Report Frequency: Quarterly
 Program: Industrial/SC

From: _____ To: _____

Was the well purged before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Quarterly				
Arsenic, Total	01002		Report	UG/L	Grab	Quarterly				
Barium, Total	01007		Report	UG/L	Grab	Quarterly				
Beryllium, Total	01012		Report	UG/L	Grab	Quarterly				
Cadmium, Total	01027		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Chromium, Total	01034		Report	UG/L	Grab	Quarterly				
Copper, Total	01042		Report	UG/L	Grab	Quarterly				
Gross Alpha	80045		Report	PCI/L	Grab	Quarterly				
Iron, Total	01045		Report	UG/L	Grab	Quarterly				
Lead, Total	01051		Report	UG/L	Grab	Quarterly				
Mercury, Total	71900		Report	UG/L	Grab	Quarterly				
Nickel, Total	01067		Report	UG/L	Grab	Quarterly				
Nitrite plus Nitrate, Total (as N)	00630		Report	MG/L	Grab	Quarterly				
pH	00406		Report	SU	In-situ	Quarterly				
Selenium, Total	01147		Report	UG/L	Grab	Quarterly				
Silver, Total	01077		Report	UG/L	Grab	Quarterly				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Thallium, Total	01059		Report	UG/L	Grab	Quarterly				
Total Organic Carbon	00680		Report	MG/L	Grab	Quarterly				
Total Organic Halogen	78115		Report	MG/L	Grab	Quarterly				
Turbidity	82079		Report	NTU	In-situ	Quarterly				
Vanadium, Total	01087		Report	UG/L	Grab	Quarterly				
Zinc, Total	01092		Report	UG/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED	TELEPHONE NO	DATE (yy/mm/dd)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District

Monitoring Well ID: MWI-14CR
 Well Type: Intermediate
 Description: See Location Map
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial\SC

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Quarterly				
Arsenic, Total	01002		Report	UG/L	Grab	Quarterly				
Barium, Total	01007		Report	UG/L	Grab	Quarterly				
Beryllium, Total	01012		Report	UG/L	Grab	Quarterly				
Cadmium, Total	01027		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Chromium, Total	01034		Report	UG/L	Grab	Quarterly				
Copper, Total	01042		Report	UG/L	Grab	Quarterly				
Gross Alpha	80045		Report	PCI/L	Grab	Quarterly				
Iron, Total	01045		Report	UG/L	Grab	Quarterly				
Lead, Total	01051		Report	UG/L	Grab	Quarterly				
Mercury, Total	71900		Report	UG/L	Grab	Quarterly				
Nickel, Total	01067		Report	UG/L	Grab	Quarterly				
Nitrite plus Nitrate, Total (as N)	00630		Report	MG/L	Grab	Quarterly				
pH	00406		Report	SU	In-situ	Quarterly				
Selenium, Total	01147		Report	UG/L	Grab	Quarterly				
Silver, Total	01077		Report	UG/L	Grab	Quarterly				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Thallium, Total	01059		Report	UG/L	Grab	Quarterly				
Total Organic Carbon	00680		Report	MG/L	Grab	Quarterly				
Total Organic Halogen	78115		Report	MG/L	Grab	Quarterly				
Turbidity	82079		Report	NTU	In-situ	Quarterly				
Vanadium, Total	01087		Report	UG/L	Grab	Quarterly				
Zinc, Total	01092		Report	UG/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District

Monitoring Well ID: MWC-16R2
 Well Type: Compliance
 Description: See Location Map
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial\SC

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Quarterly				
Arsenic, Total	01002		10	UG/L	Grab	Quarterly				
Barium, Total	01007		2000	UG/L	Grab	Quarterly				
Beryllium, Total	01012		4	UG/L	Grab	Quarterly				
Cadmium, Total	01027		5	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Chromium, Total	01034		100	UG/L	Grab	Quarterly				
Copper, Total	01042		Report	UG/L	Grab	Quarterly				
Gross Alpha	80045		15	PCI/L	Grab	Quarterly				
Iron, Total	01045		Report	UG/L	Grab	Quarterly				
Lead, Total	01051		15	UG/L	Grab	Quarterly				
Mercury, Total	71900		2	UG/L	Grab	Quarterly				
Nickel, Total	01067		100	UG/L	Grab	Quarterly				
Nitrite plus Nitrate, Total (as N)	00630		10	MG/L	Grab	Quarterly				
pH	00406		Report	SU	In-situ	Quarterly				
Selenium, Total	01147		50	UG/L	Grab	Quarterly				
Silver, Total	01077		Report	UG/L	Grab	Quarterly				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Thallium, Total	01059		2	UG/L	Grab	Quarterly				
Total Organic Carbon	00680		Report	MG/L	Grab	Quarterly				
Total Organic Halogen	78115		Report	MG/L	Grab	Quarterly				
Turbidity	82079		Report	NTU	In-situ	Quarterly				
Vanadium, Total	01087		Report	UG/L	Grab	Quarterly				
Zinc, Total	01092		Report	UG/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUND WATER MONITORING WELL REPORT - PART D

Facility Name: Seminole Electric Cooperative
 Permit Number: FL0036498 (SC # PA78-10)
 County: Putnam
 Office: Northeast District

Monitoring Well ID: MWI-17C
 Well Type: Intermediate
 Description: See Location Map
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial\SC

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Quarterly				
Arsenic, Total	01002		Report	UG/L	Grab	Quarterly				
Barium, Total	01007		Report	UG/L	Grab	Quarterly				
Beryllium, Total	01012		Report	UG/L	Grab	Quarterly				
Cadmium, Total	01027		Report	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Grab	Quarterly				
Chromium, Total	01034		Report	UG/L	Grab	Quarterly				
Copper, Total	01042		Report	UG/L	Grab	Quarterly				
Gross Alpha	80045		Report	PCI/L	Grab	Quarterly				
Iron, Total	01045		Report	UG/L	Grab	Quarterly				
Lead, Total	01051		Report	UG/L	Grab	Quarterly				
Mercury, Total	71900		Report	UG/L	Grab	Quarterly				
Nickel, Total	01067		Report	UG/L	Grab	Quarterly				
Nitrite plus Nitrate, Total (as N)	00630		Report	MG/L	Grab	Quarterly				
pH	00406		Report	SU	In-situ	Quarterly				
Selenium, Total	01147		Report	UG/L	Grab	Quarterly				
Silver, Total	01077		Report	UG/L	Grab	Quarterly				
Specific Conductance	00094		Report	UMHOS/CM	Grab	Quarterly				
Sulfate, Total	00945		Report	MG/L	Grab	Quarterly				
Thallium, Total	01059		Report	UG/L	Grab	Quarterly				
Total Organic Carbon	00680		Report	MG/L	Grab	Quarterly				
Total Organic Halogen	78115		Report	MG/L	Grab	Quarterly				
Turbidity	82079		Report	NTU	In-situ	Quarterly				
Vanadium, Total	01087		Report	UG/L	Grab	Quarterly				
Zinc, Total	01092		Report	UG/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

The DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C. Part D is used for reporting ground water monitoring well data.

Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

In addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. Note: Codes used by the lab for raw data may be different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period since limit is conditional.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.
TNTC	Too numerous too count (for fecal coliform bacteria only).

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. In cases where a laboratory reports a value which is less than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), the value of 0.001 should be reported on the DMR.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.) Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following blanks in the header should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number. If there was no discharge of effluent for a particular outfall, reuse, or land application system and the DMR monitoring group includes other monitoring locations (e.g., influent sampling); the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.).

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in the units indicated. Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART C - LIMITED WET WEATHER DISCHARGE

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated.

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.

Rainfall Information: Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall) data, the cumulative rainfall for the average rainfall year, and the cumulative rainfall to date for this calendar year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which falls during an average rainfall year from January through the month for which this part contains data. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Date: Enter the date on which the discharge occurred.

Duration of Discharge: Enter the number of hours, to the nearest 0.1 of an hour (0.1 hr. = 6 min.) during each day of discharge that reclaimed water was actually discharged to surface waters.

Gallons Discharged: Enter the quantity in millions of gallons of reclaimed water discharged during the period shown in duration of discharge. Show the units as millions of gallons (mg), accurate to the nearest 0.01.

Average Discharge Flow Rate: Divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Average Upstream Flow Rate: Enter the average flow rate in the receiving stream upstream from the point of discharge for the period shown in duration of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Stream Dilution Factor: Enter the actual stream dilution ratio accurate to the nearest 0.1. To calculate the factor, divide the average upstream flow rate by the average discharge flow rate.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Total P: Enter the cumulative number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multiplied by 100%.

Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.