

TOWN OF RIDGWAY

WATER TREATMENT PLANT GAC EQUIPMENT PACKAGE

ADDENDUM NO. 1

To all prospective proposers of the Ridgway Water Treatment Plant GAC Equipment Package for which proposals are to be received until 1 pm, Wednesday March 8, 2023 at Ridgway Town Hall.

The following additions, deletions, and/or modifications are hereby made to the Contract Documents:

ADD Pg 11300-7, Section 2.1.04 Performance Requirements. Add the following sentence at the beginning of that Section:

The GAC system shall be designed to treat 500 gpm minimum.

This Addendum One shall be part of the Contract Documents and receipt thereof must be acknowledged on the Bid Form.



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Joanne Fagan  
March 5, 2023

# TOWN OF RIDGWAY

## WATER TREATMENT PLANT GAC EQUIPMENT PACKAGE

### Questions and Answers

Q1. Can one submit more than one proposal? A: Yes

Q2. What is the flow rate for the GAC package? A: 500 gpm

Q3. In order to make sure there is room in the building for the 2<sup>nd</sup> MF skid and the GAC filter, what is the dimensions of that skid. A: If they add another train the same as the existing, the size would be about 10' x 26' plus working area around it of about 30 inches. Seven feet of the length is to pull out the membrane tank and could possibly be done with the garage door open if the alignment worked. They could also look at different MF trains that would have a different footprint. The design capacity of added train would likely be around 250 gpm.

Q4. What is the maximum Raw Water Turbidity? The CDPHE regulation 4.10.1 says that the maximum turbidity that can be applied directly to adsorptive media without pre-treatment is 5 NTU. A: The Town is no longer required to monitor raw water turbidity however they did monitor the raw turbidity of the water coming from the pre-sedimentation ponds for several years before the membrane plant was installed. That data is attached hereto. We have asked CDPHE whether regulation 4.10.01 applies to our facility since GAC is only be used for taste, odor and color control and if we get an answer before proposals are due, we will let plan holders, known to us, know.

Q5. Is there any iron or manganese in the water/ If so, what is the concentration? That same regulation, 4.10.1, says that pre-treatment is required if the combined iron and manganese is 0.5 ppm. A: The Town sampled for iron and manganese twice prior to requesting proposals for the membrane plant, once on 6/8/05 and once 2/22/06. Results are below:

<u>Parameter</u>	<u>June 8, 05</u>	<u>February 22, 06</u>
Calcium	34 mg/l	140
Alkalinity as CaCO <sub>3</sub>	155	
Hardness as CaCO <sub>3</sub>	110	170
Iron	ND	0.042
Magnesium	7.1	
Manganese	ND	0.005

We have queried Riverwatch for data along the Ridgway Ditch, the source of much of the raw water for Ridgway. If we find any iron or manganese information we will pass it along. Consistent with the answer to Q4, we have asked CDPHE whether regulation 4.10.01 applies to our facility and will share the answer if we get it in time.

Q6. What is the ceiling height? A: Sidewall height is 9.5'. It's a metal building with the ceiling following the roof pitch which is a mild pitch typical of a metal building.

Table A-1

Town of Ridgway

Water Turbidity Data - Presedimentation Pond Outlet

	NTU		pH Min	pH Max	~Ave Temp
	Average	Peak			
2005					
January	2.4	3.3	7.9	8.1	39
February	1.8	2.1	8.0	8.2	40
March				8.3	42
April			8.3	8.7	46
May	2.9	2.9	8.3	8.5	53
June	2.4	2.8	8.1	8.3	60.5
July	7.0	10.8			
August	4.7	29.2	8.3	8.5	65
September	2.7	9			
October	2.4	3.1	8.2	8.3	53
November	2.6	4.4	8.3	8.6	43
December					
2004					
January	2.4	3.3	8.3	8.5	36
February	2.5	4.6	8.3	8.4	35
March	3.7	4.9	7.9	8.7	40
April	1.8	2.9	8.5	8.8	49
May	2.5	3.1	8.5	8.9	53
June	3.1	4.1	8.3	8.8	61
July	2.2	5.8	8.0	8.7	64.5
August	1.2	2.1	8.1	8.3	63
September	2.2	3.6	8.1	8.5	59
October	1.6	2.1	8.1	8.4	51
November	2.0	3.4	8.2	8.3	43
December	3.7	5.2	8.0	8.3	39
2003					
January	2.8	4.9	8.3	8.6	37
February	4.5	6.1	8.2	8.8	37.5
March	5.6	7.1	8.6	8.9	38.5
April	3.3	6.3	8.6	9.0	43
May		2.2	8.5	8.8	54
June	1.5	2.6	8.3	8.6	63
July	1.2	1.6	7.9	8.8	66
August	1.5	6.6	7.7	9.2	66
September	2.4	10.1	7.7	8.4	59
October	1.2	1.8	8.4	8.8	53
November	1.4	1.8	8.4	8.8	45
December	4.4	8.8	8.6	8.8	38.5