

APPENDIX F

RECOMMENDED DAILY OPERATIONS TABLE A

NORTH READING PUBLIC SCHOOLS

NORTH READING MIDDLE AND HIGH SCHOOL

WASTEWATER TREATMENT FACILITY

CONTRACT OPERATION AND MAINTENANCE SERVICES

REQUEST FOR PROPOSAL

FEBRUARY 14, 2020

RFP No. 20 - 02

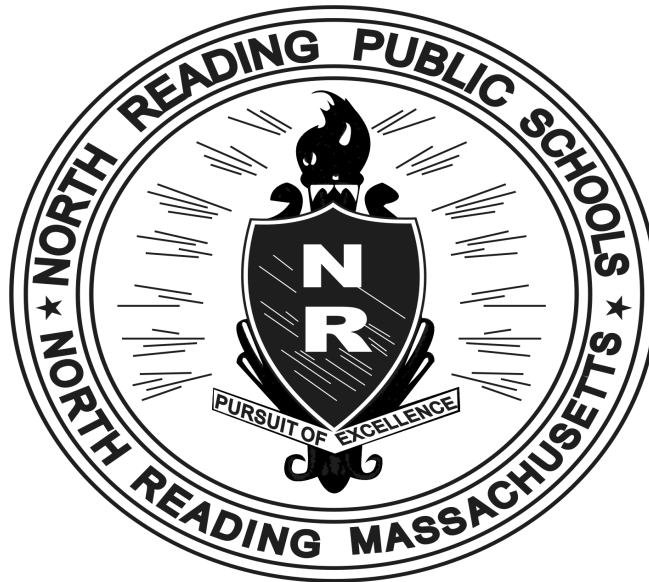


TABLE A
DAILY OPERATIONS AT WASTEWATER TREATMENT PLANT

TASKS	FREQUENCY
1. Flow Measurement	
A. Calculate Effluent Flow	Daily**
2. pH Measurement	
A. Primary Settling Tank Effluent B. Aeration Effluent C. Final Effluent	Daily Daily Daily**
3. Process Temperature Measurement	
A. Primary Settling Tank Effluent B. Aeration Tank Effluent C. Post Anoxic Effluent D. Final Effluent	Daily Daily Daily Daily
4. Process Alkalinity Testing	
A. Primary Settling Tank Effluent B. Aeration Tank Effluent C. Final Effluent	Daily Daily Daily
5. Dissolved Oxygen Testing	
A. Aeration Tank B. Pre and Post Anoxic Tank	Daily Daily
6. FET Forward Flow and Recycle Rates	
A. FET Flow forward and Recycle Rate	Daily
7. Carbon source Pump Rates	
A. Speed B. Stroke C. ML/min D. Gallons per day (gpd)	Daily Daily Daily Daily

8.	Chemical Feed Rate/lbs	
	A. Sodium Bicarbonate	Daily
9.	Effluent NO ₃ -N Testing	Daily
10.	Effluent NH ₃ -N Testing	Daily
11.	Meter Reading and Recording	Daily
	A. FET Pump 1	Daily
	B. FET Pump 2	Daily
	C. Blower Hours #1	Daily
	D. Blower Hours #2	Daily
	E. Dosing Pump 1	Daily
	F. Dosing Pump 2	Daily
12.	Carbon Feed System	
	A. Metering Pump Calibration, Check Feed Rates	Daily
	B. Carbon source Usage and Inventory Check	Daily
	C. Routine Operational Testing to determine nitrogen removal rates	Daily
13.	Chemical Alkalinity Control	
	A. Chemical addition for Alkalinity control (manually)	Daily
14.	Lab Equipment Calibration	
	A. pH Meter	Daily
	B. Dissolved Oxygen Meter	Daily
15.	Sludge Pumping	
	A. Schedule pumping of Primary Settling Tanks	As Needed
	B. FET Maintenance	
	C. Pre and Post anoxic Modules	
	D. Aeration Tank	
16.	Preventive Maintenance	

Perform routine oil changes, filter changes, belt replacement on all mechanical equipment according to manufacturer specifications.	As per specifications
17. Sludge Blanket Levels	
Primary Settling Tanks Aeration tank Pre and post Anoxic Tanks	Monthly Monthly Monthly

It should be noted that the above tests noted ** are required by the operator to be conducted DAILY in accordance with the Discharge Permit. Provide all testing as required by Permit #931-0.

In general, the Operator shall conduct daily operational inspections of all pump stations, process equipment and tankage to ensure proper operation of the Wastewater Treatment Facility at all times.