Acton Water District

Water Supply District of Acton

693 MASSACHUSETTS AVENUE
P.O. BOX 953
ACTON, MASSACHUSETTS 01720

TELEPHONE (978) 263-9107 FAX (978) 264-0148

Board of Water Commissioners

Meeting Agenda

Monday, December 2, 2019 @ 7:30 PM

- **Comments from Citizens**
- **Approve minutes of November 18th meeting**

OLD BUSINESS:

- Proposed sewer district expansion into West Acton
- MA Department of Environmental Protection (MA DEP) approval letter for the Central Acton Water Treatment Plant (CAWTP)

NEW BUSINESS:

- Introduction & review of FY '21 DRAFT budget & proposed warrant articles
- Per- and poly-fluoroalkyl (PFAS) source and aquifer sampling in south Acton

Agenda posted on 11/27/2019 9:02 AM

Board of Water Commissioners
Meeting Minutes
Acton Water District
693 Massachusetts Avenue, Acton MA
Monday, November 18, 2019

AGENDA

A. Comments from Citizens
B. Approve Minutes of November 4th Meeting

C. OLD BUSINESS:
1. Variance for 8 Post Office Square Site for New Central Acton Water Treatment Plant
   - Public hearing with the Zoning Board off Appeals scheduled for Monday, 12/9 at 7 PM

2. Update for Article 97 Legislation Related to Solar Arrays at Lawsbrook Road & Knox Trail
   - Email from project manager related to legislation submittal timing
   - Confirmation of proposed Lawsbrook Road array enrollment in the state's SMART program

D. NEW BUSINESS:
1. Approve Proprietary Specifications for Equipment for the Central Acton Water Treatment Plant
2. Discuss Manager's Contract and Performance Review

Present at Tonight's Meeting:
Commissioners: Stephen Stuntz (Chair), Erika Amir-Lin, Barry Rosen
District Manager: Chris Allen
District Treasurer: Mary Jo Bates
District Counsel: Mary Bassett
Finance Committee: Chuck Bradley (via phone)
District Moderator: Dick O'Brien

The Board of Water Commissioner's meeting was called to order at 7:32 PM on Monday, November 18, 2019 at the Acton Water District by Mr. Stephen Stuntz.

A. Comments from Citizens:
No comments tonight.

B. Approve Minutes of November 4th Meeting:
Mr. Rosen motioned to approve the minutes of November 4, 2019. Ms. Amir-Lin seconded the motion and it was unanimously approved.

C. OLD BUSINESS:
1. Variance for 8 Post Office Square Site for New Central Acton Water Treatment Plant.
Mr. Allen provided an update to the Commissioners regarding the variance for 8 Post Office Square for the new Central Acton Water Treatment Plant. He informed the Commissioners that the public hearing will be held on Monday, December 9th at 7 PM with the Zoning Board of Appeals. He reminded them that this variance request is due to not having adequate frontage of 20-feet per the Zoning Bylaw. Mr.

Allen will attend the hearing as well as Ms. Amir-Lin. Mr. Rosen asked if the $250 application fee was waived. Mr. Allen stated that it was waived by the Acton Selectboard.

The design for the Central Acton Water Treatment Plant is scheduled to be complete in December. The Mass DEP has provided their comments. The engineer recommended an expansion of the existing 20-foot utility easement to a 30-foot easement. An official survey will need to be done for the easement expansion, and the property owner will need to approve it. Counselor Bassett stated that the property owner could then either gift the land to the District, we will have to pay for it or take it by eminent domain; either way there will need to be an article on the Warrant at District Meeting in March for a vote. Ms. Bassett explained that if not gifted, we will need an appraisal to determine the value.

2. Update on Article 97 Legislation Related to Solar Arrays at Lawsbrook Road & Knox Trail.
Enclosed in tonight's packets to the Commissioners are copies of an email between Mr. Allen and Peter Bay of EDF Renewables. In the email, Peter informed Mr. Allen that the state legislature breaks from formal session for the holidays on November 20th and will not be back in session until later January which means that Article 97 legislation may not be looked at for passage until April/May 2020.

The application was submitted into the MA SMART Solar Incentive Program on November 5, 2019 for 28 Lawsbrook Road, Acton. It is expected to be in Block 3 of that program, as predicted by the developer during the selection process.

Mr. Allen mentioned that Peter Bay is speaking with Gail Mann regarding the proposal for the appraisal on the Lawsbrook parcels and 16 Knox Trail.

D. NEW BUSINESS:
1. *Approve Proprietary Specifications for Equipment for the Central Acton Water Treatment Plant.*
Mr. Allen provided an update to the Commissioners regarding the reasoning behind approving proprietary specifications for equipment for the Central Acton Water Treatment Plant. He stated that after a decade of operation of two filtration plants, the operators are familiar with this equipment, and are able to repair and maintain it. This reduces the need to hire contractors for maintenance; and equipment is more durable and acceptable for our needs. Enclosed in tonight's packets to the Commissioners is a copy of the determination of proprietary specifications reasoning statement, which will be included in the bid specifications. Per state procurement law, an "Or equal" clause will still be in the bid specification.

Mr. Stuntz moved to accept the use of proprietary specifications as presented and attached. Ms. Amir-Lin seconded the motion and it was unanimously approved.

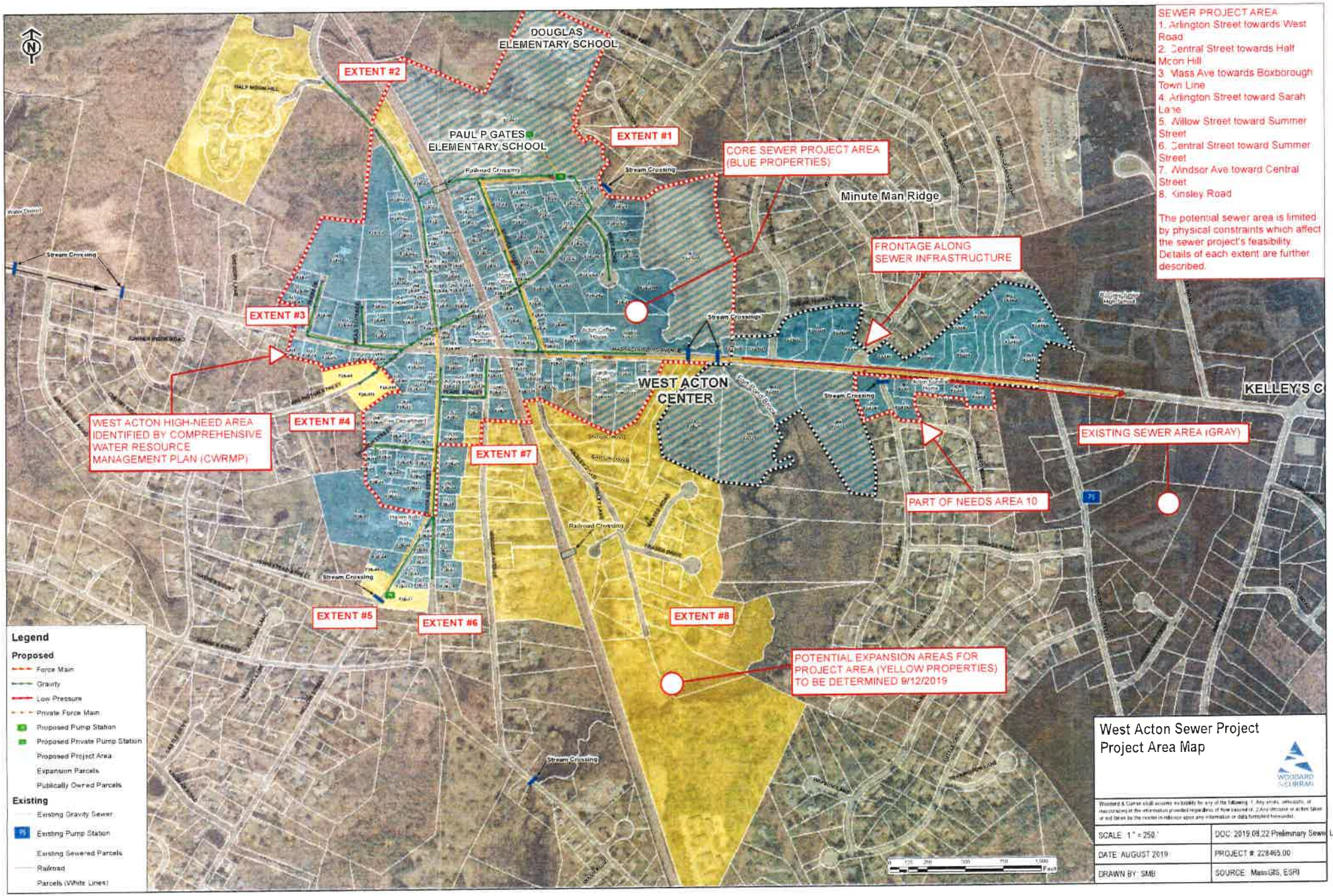
2. Discuss Manager's Contract and Performance Review.
Mr. Stuntz mentioned to the Commissioners that Mr. Allen typically has a review every three years; The Commissioners have not done a written review every year, but this year we can do the written review. Mr. Stuntz will write up review and share with other Commissioners.

Ms. Amir-Lin suggested organizing the written review into sections to make it more easily readable and gives it more of a formal structure.

Mr. Allen's contract expires June 30, 2020

Other New Business:
Mr. Allen mentioned that the District received a check of $365,000 from Avalon Bay to cover Impact fees, Mitigation funds and fire inception fees for the soon-to-be built 86-unit expansion of the existing Avalon Bay complex in North Acton off Nagog Park Drive.

Mr. Rosen motioned to adjourn the open meeting at 8:15 PM. Ms. Amir-Lin seconded, and it was unanimously approved.


DOUGLAS ELEMENTARY SCHOOL
PAUL P GATES ELEMENTARY SCHOOL
EXTENT #1
EXTENT #2
EXTENT #3
EXTENT #4
EXTENT #5
EXTENT #6
EXTENT #7
EXTENT #8
CORE SEWER PROJECT AREA (BLUE PROPERTIES)
Minute Man Ridge
FRONTAGE ALONG SEWER INFRASTRUCTURE
WEST ACTON CENTER
KELLEY'S C
WEST ACTON HIGH-NEED AREA IDENTIFIED BY COMPREHENSIVE WATER RESOURCE MANAGEMENT PLAN (CWRMP)
EXISTING SEWER AREA (GRAY)
PART OF NEEDS AREA 10
POTENTIAL EXPANSION AREAS FOR PROJECT AREA (YELLOW PROPERTIES) TO BE DETERMINED 9/12/2019
Railroad Crossing
Stream Crossing
SEWER PROJECT AREA
1. Arlington Street towards West Road
2. Central Street towards Half Moon Hill
3. Mass Ave towards Boxborough Town Line
4. Arlington Street toward Sarah Lane
5. Willow Street toward Summer Street
6. Central Street toward Summer Street
7. Windsor Ave toward Central Street
8. Kinsley Road
The potential sewer area is limited by physical constraints which affect the sewer project's feasibility. Details of each extent are further described.
Legend
Proposed
Force Main
Gravity
Low Pressure
Private Force Main
Proposed Pump Station
Proposed Private Pump Station
Proposed Project Area
Expansion Parcels
Publically Owned Parcels
Existing
Existing Gravity Sewer
Existing Pump Station
Existing Sewered Parcels
Railroad
Parcels (White Lines)
West Acton Sewer Project
Project Area Map
SCALE: 1" = 250'
DATE: AUGUST 2019
DRAWN BY: SMB
DOC: 2019.08.22 Preliminary Sewer Layou
PROJECT #: 228465.00
SOURCE: MassGIS, ESRI

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Central Regional Office • 8 New Bond Street, Worcester MA 01606 • 508-792-7650

November 22, 2019

The Water Supply District of Acton
Attn: Steven Stuntz, Chair of Water Comm
PO Box 953
Acton, MA 01720

Re: PWS Town: Acton
PWS Name: Acton Water Supply District
PWS ID #: 2002000 – COM; R.O.#: 5939
Program: System Modification WS24
MassDEP Trans. # X284513
Action: **Approval**

Dear Mr. Stuntz:

The Central Regional Office of the Massachusetts Department of Environmental Protection (MassDEP) received your permit application, WS24 – Construct Treatment Facility > 1 MGD dated October 16, 2019. The permit application was submitted on behalf of the Acton Water Supply District by Wright-Pierce, 600 Federal Street, Suite 2151, Andover, MA 01810. The permit submittal was for the construction of a new 1.0 MGD Central Acton Water Treatment Plant (WTP) to remove iron and manganese from the Conant I and Conant II Drinking Water Wells in Acton, Massachusetts.

The application included:

WS24 – Construct Treatment Facility > 1MGD
MassDEP Transmittal #: X284513
Plans and Specs Received by MassDEP: October 16, 2019
Consultant: James Cray, Wright-Pierce, 600 Federal Street, Suite 2151, Andover, MA 01810
MEPA Certificate (EEA#16091) Issued: October 25, 2019
MassDEP Comments on Design Emailed: October 21, 2019
Response to Comments Received: November 15, 2019

Project Description and Background

The Water Supply District of Acton (the "District") is a public District with its own charter, set of regulations and Board of Commissioners. The District provides water to the Town of Acton and some residents in Boxborough and Littleton. The District has 20 active gravel pack wells, one tubular wellfield, one emergency well, and one well in the process of being permitted. The

Conant I Well (2002000-02G approved pumping capacity of 0.468 MGD), and the five Conant II Wells (14G, 15G, 16G, 17G and 18G approved pumping capacity of 0.216 MGD) have elevated levels of iron and manganese.

On July 7, 2015, MassDEP issued a letter to the District informing them that the manganese levels at Well 02G had exceeded the ORSG level of 0.3 mg/l. The District chose to construct a Water Treatment Plant (WTP) to remove the iron and manganese from both Conant I and Conant II Wells. MassDEP approved a Pilot Study Proposal (WS21, Transmittal # X280875) on June 21, 2018, and a Pilot Study Report (WS22, Transmittal # X282600) on March 21, 2019. The Pilot study evaluated the use of Greensand Plus media and a biological treatment process for the removal of iron and manganese at both the Conant I and II Wells raw water. The District chose to proceed with designing a new 1.0 MGD WTP with Greensand Plus media.

MassDEP received the design plans and specifications for the proposed WTP on October 16, 2019. MassDEP had previously provided the District and Wright - Pierce Consulting Engineers comments on the 30% design on June 19, 2019, and comments on the 60% design on September 17, 2019. Comments on the final design were sent to the Wright - Pierce Consulting Engineers on October 21, 2019, and response to the comments was received on November 15, 2019.

The proposed Water Treatment Plant (WTP) will consist of the following:

1. Raw Water – Raw water from Conant Well I, 2002000-02G, and the five Conant II Wells, 2002000-14G, -15G, -16G, -17G and -18G, are manifolded together into a single 8-inch water line that enters the new Central Acton WTP building. Each raw water well line will have its own raw water sample tap and flow meter. Each well will have new pumps and level transducers.

2. Greensand Plus Filters - The manifolded raw water line will go by a flow meter and chemical injection of sodium hypochlorite (NaOCl) for oxidation of the iron and manganese and for disinfection, and addition of potassium hydroxide (KOH) for pH control prior to flowing into three nine-foot diameter Greensand Plus filtration vessels for treatment of iron and manganese. Each vessel will have 12-inches of anthracite and 24-inches of Greensand Plus media. The filters will be loaded at 3.7 gpm/sf at design flow, and 5.5 gpm/sf when one filter is backwashing. There will be a positive displacement air blower for use during the air/water wash backwash cycle.

3. Aeration Tower – The treated water from the Greensand Plus filters will pass through a packed tower aeration unit for VOC removal. The aeration tower will be sized by the manufacturer to remove MTBE and carbon dioxide. The tower shall have a maximum height of 27 feet 9 inches tall, and a minimum effective internal cross sectional area of 63.5 sf with 25 feet of packing depth, with a distribution tray on top sized to handle 695 gpm. The aeration tower will have a blower with a silencer and air filter. Treated water from the aeration tower will be further injected with sodium fluoride for dental health and additional NaOCl addition if needed for disinfection, prior to discharging into one of two 21,000-gallon baffled clearwells. There will be a bypass line so the Greensand Plus treated water

can discharge directly to the clearwells, if the aeration tower is taken off line for cleaning or maintenance.

4. Clear Wells – There will be two 21,000-gallon baffled clear wells. Each clear well will have level control switches, vents and an overflow port. Three VFD finished water pumps capable of pumping up to 350 gpm each, will pull the water from each clear well and pump it past a final flow meter, a spare chemical injection and KOH addition for final pH control, and out to the distribution system. The clear well will also have two VFD backwash pumps capable of pumping up to 760 gpm each to pull the treated water from the clear well to backwash each filter. The clear well has been sized for a targeted chlorine residual of 0.5 mg/l to achieve 4-log viral inactivation at a clear well depth of 6.5 feet. The 4-log viral inactivation will be issued after construction is completed.

5. Backwash/Recycle Tank – Each filter is expected to backwash based off hours run, differential pressure, or when each filter has treated a set amount of flow. Each filter's backwash cycle will use 7,600 gallons of treated water. The dirty backwash water will discharge to one of two 25,000-gallon backwash/recycle tanks. Each tank is sized to handle three backwash volumes. Each tank will have a floating decanter with 10-70 gpm recycle pumps to pump decanted backwash water back to the head of the treatment process at a rate not to exceed 10% of design flow. Two residual pumps will pull settled solids from the bottom of each tank, and pump the solids to a 13,000-gallon sludge holding tank.

6. Holding Tank – The 13,000 gallon sludge holding tank is the existing aeration clear well that is refurbished as the sludge holding tank at the Conant II WTP. This tank will hold the sludge until it can be pumped offsite for disposal.

7. Chemical Addition – Chemical addition of Potassium Hydroxide (KOH), Sodium Hypochlorite (NaOCl), and Sodium Fluoride (NaF) have all been designed to be compliant with the Chemical Safety Control requirements at 310 CMR 22.04(14) and Chapter 6 of the MassDEP Drinking Water Guidelines. Flow meters are located at each well, on the raw water line, and on the finished water line. KOH can be added to the raw water and the finished water, each flow paced off the respective raw and finished flow meters. KOH chemical feed consists of a 1,600-gallon bulk tank, a 155-gallon day tank with two diaphragm chemical metering pumps capable of pumping 3.2 gallons per hour (gph) to the raw water, and a 55-gallon day tank with two diaphragm chemical metering pumps capable of pumping 1.1 gph to the finished water. NaOCl can be added to the raw water and post aeration prior to the clear well, both based off the raw water flow meter. The NaOCl chemical feed consists of a 545-gallon bulk tank and a 55-gallon day tank with two peristaltic chemical metering pumps, with a design feed rate of 1.5 gph that can pump to either location. NaF is added to the treated water based off the final flow meter. This system consists of make-up water going through a water softener prior to a fluoride saturator. Two diaphragm chemical metering pumps capable of pumping 2.3 gph add the NaF to either the pre clear well injection port or the final distribution system. Each chemical feed system will be located in its own containment area. An eye wash/shower will be located near each chemical feed system.

8. Backup Power - A new 350 KW gas powered generator will be installed to operate the new WTP and the Conant II wells.

Review and Approval

MassDEP reviewed the application and supporting documentation, and hereby issues an approval of the design for the new 1.0 MGD Central Acton Water Treatment Plant using Greensand Plus filtration, aeration and chemical addition. Pursuant to MassDEP's authority under 310 CMR 22.04(7) to require that each supplier of water operate and maintain its system in a manner that ensures the delivery of safe drinking water to consumers, this permit is made subject to the conditions set forth below.

General Permit Conditions

1. Compliance with Permit Approvals - The Supplier of Water shall conduct activities in accordance with the approved plans, reports, and other submissions, except as may be modified by the conditions set forth in this approval. No material changes in the design or activities described in the approved documents shall be performed without prior written MassDEP approval.

2. Compliance with Other Approvals - The activities at this Public Water System shall be performed in compliance with all other applicable local, state and federal laws and regulations. This approval does not relieve the owner or operator of this Public Water System from complying with all other applicable local, state and federal requirements, licenses and permits.

3. Duty to Mitigate – The Supplier of Water shall remedy and shall act to prevent all potential and actual adverse impacts to public health or the environment resulting from noncompliance with the terms or conditions of this approval.

4. Duty to Provide Information – The Supplier of Water shall furnish to MassDEP, within a reasonable time, any information MassDEP may request, and which is deemed by MassDEP to be relevant in determining compliance with permits, regulations, guidelines and policies.

Specific Permit Conditions

1. Treatment System – Pursuant to 310 CMR 22.04(4), be advised that after a treatment technique has been approved by MassDEP, the Supplier of Water shall install and maintain such treatment technique and implement any such approved procedures and practices in accordance with 310 CMR 22.00 and the terms and conditions of all applicable permits, approvals, and orders issued by MassDEP. This treatment system is designed to remove iron and manganese below the Secondary Maximum Contaminant Levels (SMCLs) of 0.3 mg/l for iron and 0.05 mg/l for manganese. The treatment facility shall be operated and maintained to ensure that the finished water does not exceed these limits at any time.

2. Chemical Labels – All water and chemical feed lines in the WTP shall be color coded and labeled, including direction of flow, in accordance with Chapter 2.12 of the Massachusetts Drinking Water Guidelines.

3. Construction Certification - The Applicant shall submit to MassDEP, prior to the final inspection of the new WTP, a copy of the Massachusetts Professional Engineer's certification letter/report that the construction of the Water Treatment Plant was completed in compliance with the approved WS24 permit and the MassDEP's regulations, guidelines and policies. The Engineer's report shall also include final As-built plans.

4. Operation and Maintenance Manual – The Applicant shall submit to MassDEP for review and approval, an Operation and Maintenance (O&M) Manual for the operation of the new Water Treatment Plant. This O&M Manual shall include operation of each unit, chemical addition feed systems with recommended doses, and preventative maintenance required. The O&M manual shall also address the required pH and alkalinity levels leaving the WTP to ensure proper corrosion control in the distribution system.

5. Final Inspection – MassDEP must be notified upon completion of the construction of this project, so that MassDEP personnel may conduct the final inspection of the facility. Please allow at least ten (10) working days for MassDEP personnel to conduct the final inspection. MassDEP's written approval must be obtained prior to placing the treatment system in service.

6. Water Quality Sampling – Prior to the final activation inspection, all wells shall be sampled for iron, manganese and total coliform bacteria, and the water leaving the new treatment plant shall be sampled for iron, manganese, total coliform bacteria and VOCs. All water quality analyses must be conducted by a Massachusetts certified laboratory, using approved methods and achieving the required method detection limits, and submitted on MassDEP's water quality reporting forms.

7. Cross Connection Survey and Testing – A cross-connection survey of the piping in the new WTP shall be conducted prior to the activation inspection. Any backflow devices that are installed shall be tested.

Thank you, and if you should have any questions or comments regarding this matter, please feel free to contact Margo Webber of the Drinking Water Program at 508-767-2738. Please feel free to contact me as well at 508-849-4036.

Sincerely,

Robert A. Bostwick

Robert A. Bostwick
Section Chief
Drinking Water Program

Ccs Next Page

Cc: Drinking Water Program, BWR, MassDEP-Boston, CERO
Paula Caron, DWP, MassDEP-CERO, SRF Boston
Chris Allen. Acton Water Supply District, PO Box 953, 693 Mass Ave, Acton, MA 01720
Jim Cray, Wright-Pierce, 600 Federal Street, Andover, MA
Acton Board of Health, Acton, MA 01570

1 INTRODUCTION

This Field Sampling Plan (FSP) addresses groundwater sampling for Per- and Polyfluorinated Substances (PFAS) analysis at the W. R. Grace & Co–Conn. (Grace) Acton Superfund Site (the Site). This plan incorporates by reference existing Project Operations Plan (POP) documents from the original POP (March 10, 2000) and the amended POP submitted on February 1, 2007. The FSP is prepared to address comment 10 in USEPA's March 14, 2019 letter titled "EPA comments on the 2018 Operable Unit Three Monitoring Report (the "Report") and Recommended Modifications to 2019 Annual Sampling Round, W.R. Grace Superfund Site, Acton, Massachusetts."

The Grace Site is located in Acton and Concord, Massachusetts, Figure 1 is a map showing the Site and the surrounding area. The Grace property is bordered by residential property on the northwest, east, and west, and industrial properties to the south and northeast. Sinking Pond, a kettle pond, is located in the southwestern portion of the property, and Turtle and Muskrat Ponds, which occupy former gravel pits, are located south of the property. Fort Pond Brook bounds the property to the northwest and the Town of Concord solar array parcel bounds the property to the southeast. The Assabet Wellfield, which supplies water for a portion of the Town of Acton, is located southwest of the property. The School Street Wellfield, which also supplies a portion of the water for the Town of Acton, is located northeast of the property.

The Site is a former chemical manufacturing facility, used for industrial purposes for over one hundred years. American Cyanamid Company and the Dewey & Almy Chemical Company (D&A) were former occupants of the Site. American Cyanamid manufactured explosives, and D&A produced synthetic rubber container sealant products, latex products, plasticizers, and resins. W. R. Grace acquired the property in 1954, and chemical operations were continued at the Site. Operations at the W. R. Grace facility included the production of materials used to make concrete and organic chemicals, container sealing compounds, latex products, and paper and plastic battery separators. Wastewater and solid industrial wastes from these operations were disposed of in several unlined lagoons (the Primary Lagoon, Secondary Lagoon, North Lagoon, and Emergency Lagoon), and were buried in or placed

onto an on-site Industrial Landfill and several other waste disposal area (see Figure 2). These other waste disposal areas include the Battery Separator Area (lagoon and chip pile), the Tank Car Area, and the Boiler Lagoon which was located between the Battery Separator and Tank Car Areas. Periodically, sludge from the Primary Lagoon was dredged, dried along the banks, and trucked to the landfill for disposal. In addition, the by-products of some chemical processes were disposed of in the Blowdown Pit. Discharge to all lagoons and the Battery Separator Area ceased in 1980. The production of organic chemicals was discontinued in 1982. A small distribution center for concrete additives was moved to another location in September 1996. A second plant for the manufacture of battery separators, known as the Daramic facility, was constructed in 1979, but operations there ceased in 1991. All buildings, with the exception of those associated with the remedial actions, have been demolished and the sludge/soil and sediment have since been remediated (Operable Unit 1). (USEPA, September 23, 2014 Five-Year Review Report).

FY 2021 Budget and Estimated Revenue

	Actual FY 2019	Budget FY 2020	4 month actual	Budget FY 2021
EXPENSES				
Accounting	1,800	2,000	800	2,000
Audit	16,000	16,000	16,000	16,000
Auto Maint & Fuel	50,000	50,000	14,622	50,000
Backflow/Cross Conn	468	1,000	-	1,000
Short Term Debt	-	350,000	330,236	350,000
Long Term Debt	1,526,093	1,512,816	411,080	1,490,908
Chemicals	75,000	75,000	17,942	75,000
Computer Maintenance	14,866	16,000	9,007	16,000
DEP Withdrawal	5,066	6,500	-	6,500
Employee Education	15,203	17,500	5,346	17,500
Engineering	55,000	55,000	8,851	55,000
Health/Life Insurance	342,935	397,000	139,441	412,880
Hydrants	10,000	10,000	4,097	10,000
Information Reports	31,476	45,000	27,313	45,000
Insurance	81,253	86,000	84,941	89,000
Laboratory Analysis	50,000	50,000	16,957	50,000
Legal	40,000	40,000	10,572	40,000
Lights/Power/Fuel	405,000	375,000	115,154	390,000
Maintenance & Operations	629,377	325,500	113,575	335,000
Middlesex Retirement	218,063	247,600	243,164	256,971
Meters	57,401	75,000	2,193	75,000
Office Supplies	13,797	20,000	2,934	20,000
OPEB Expense	100,000	100,000	-	0
Paving	47,339	50,000	14,642	50,000
Petty Cash	600	1,000	-	1,000
Postage	18,519	20,000	2,377	20,000
Reserve Fund	-	100,000	-	100,000
Salaries & Wages	1,301,768	1,460,000	440,840	1,505,000
Telephone	18,145	20,000	5,469	20,000
Total	**5,125,169**	**5,523,916**	**2,037,553**	**5,499,759**
REVENUE				
Water Revenue	2,586,470	2,747,932	1,115,119	2,747,932
Service Fee	517,500	518,820	259,410	518,820
Debt Fee	1,823,200	1,833,164	760,936	1,833,164
Total Water Revenue	4,927,170	5,099,916	2,135,465	5,099,916
Fire Protection Sprinklers	40,212	40,000	38,758	40,000
Rent/Lease	121,342	112,000	37,241	112,000
Repairs/Installation	58,338	50,000	20,905	50,000
Cross Connection	24,436	22,000	12,313	24,000
Demand Fees	191,035	200,000	51,500	200,000
Mitiagtion Fees	71,319	0	21,940	0
Total Other Revenue	506,682	424,000	182,657	426,000
Total	**5,433,852**	**5,523,916**	**2,318,122**	**5,525,916**

FY 2021 Budget Total	5,499,759		
Warrant Articles	**Free Cash**	**Mitigation**	**Grace**
Carbon Replacement	60,000		
Residuals Management	100,000		
Clean Rehab Wells	75,000		
Replace Old Mains	30,000		
Emergency Main Breaks	30,000		
Treatment M&O			125,000
Filter Cartridge Replacement	85,000		
Mitigation Revolving Fund		100,000	
Returns to Free Cash/Grace	0		0
Total	380,000	100,000	125,000
		Total all appropriations	6,104,759
	Free Cash	**Mitigation**	**Grace**
Current Balance	870,376	130,279	2,172,208
Balance after appropriations	490,376	30,279	2,047,208
Funding needed from Revenue			5,499,759
REVENUE:	**FY 2019 Actual**	**FY 2020 Projected**	**FY 2021 Projected**
Water Rates	2,586,469	2,777,524	2,777,524
Service Fee	517,500	522,000	522,000
Debt Service Fee	1,823,200	1,983,600	1,983,600
Total Water Revenue	4,927,169	5,283,124	5,283,124
Fire Protection Sprinklers	40,212	40,000	40,000
Rent/Lease	121,342	112,000	112,000
Repairs/Installation	58,338	50,000	50,000
Cross Connection	24,436	24,000	24,000
Demand Fees	191,035	356,500	200,000
Total Revenue	**5,362,532**	**5,865,624**	**5,709,124**
Potential Surplus to add to Free Cash FY **20**		341,708	
	Potential Surplus to add to Free Cash FY **21**		209,365
Services	6,784		
Units	8,700		
	per unit per quarter		

DRAFT

Acton Water District

Water Supply District of Acton

693 MASSACHUSETTS AVENUE
P.O. BOX 953
ACTON, MASSACHUSETTS 01720

TELEPHONE (978) 263-9107 FAX (978) 264-0148

November 26, 2019

Proposed Warrant Articles for 2020 Annual Meeting (FY '21)

1. Appropriate **$125,000.00 from the WR Grace RRA** for Maintenance & Operations (M&O)
2. Appropriate **$75,000.00 from Surplus Revenue** for Clean & Rehab Wells
3. Appropriate **$30,000.00 from Surplus Revenue** for Replace Old Mains.
4. Appropriate **$30,000.00 from Surplus Revenue** for Emergency Main Breaks
5. Appropriate **$65,000.00 from Surplus Revenue** to replace the Granular Activate Carbon (GAC) media in the Clapp/Whitcomb filtration vessels
6. Appropriate **$85,000 from Surplus Revenue** for the replacement of filter cartridges at the North Acton Water Treatment Plant (3rd of three appropriations)
7. Appropriate **$100,000 from Surplus Revenue** for filtration residuals management
8. Mitigation revolving fund for $100k
9. 20-year lease with Baldco, Inc.
10. Accept Utility easement expansion at 8 Post Office Square from 20' to 30' to accommodate utilities for the new Central Acton Water Treatment Plant
11. 20-year lease with EDF Renewables for ground-mount solar arrays at Lawsbrook Road & Knox Trail with option for two five-year additions for total of 30-years

Total from Surplus Revenue = $385,000.00 (Currently Surplus Revenue = $870,069)

Total from WR Grace RRA= $125,000

Grand Total = $505,000.00