

## **Rye Lake Water Filtration Plant**

WJWW Board of Trustees Meeting April 12, 2022

Project Info & Public Comment: <a href="http://wjwwfiltration.org/seqra/">http://wjwwfiltration.org/seqra/</a>



## **SEQR Technical Team**

Hazen







#### **NELSON POPE VOORHIS**

environmental • land use • planning









## **Project Background**

- WJWW's Rye Lake water source is currently treated at the Rye Lake Pump Station (RLPS)
- Water is pumped from the RLPS to the Purchase Street Storage Tanks
- To comply with NYS Sanitary Code and USEPA's Surface Water Treatment rule, a new 30-mgd dissolved air flotation/filtration (DAFF) water filtration plant will be constructed
- Site was chosen due to proximity WJWW's infrastructure including the RLPS, Purchase Street Storage Tanks, and Purchase Street Booster Station



## **Proposed Rye Lake Water Filtration Plant**



#### **Treatment Selection**

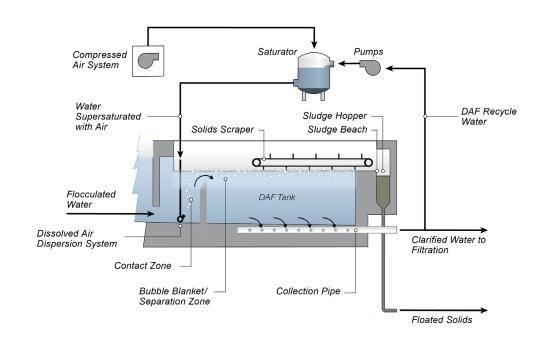
- Dissolved Air Flotation/Filtration (DAFF) treatment
- Used widely throughout the Northeast on similar water supplies

## Capacity

30 million gallons per day

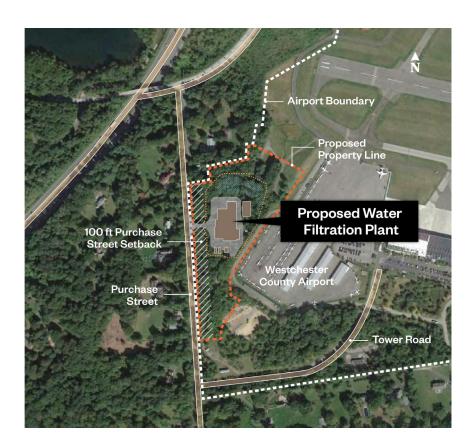
## **Building Size**

Approximately 1 acre



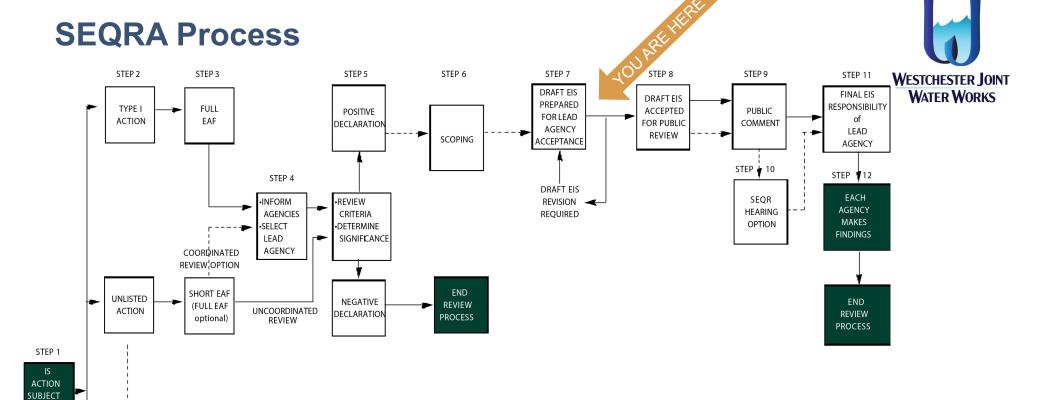
## **Facility Overview**

- Major Components
  - ~1 acre filtration building
  - Two emergency generators
  - Constructed wetlands and bioretention
  - Washwater tanks
- Access from Purchase Street
- Maintain 100-ft Purchase Street setback and existing stone wall



## **Facility Design**







**TYPE II** 

**ACTION** 

(See flow chart on the other side)

CONDITIONED NEGATIVE DECLARATION OPTION

NO

REVIEW

TO SEQR?

## **SEQRA Milestones**



Positive Declaration

January 12, 2020

Draft Scope Adopted

March 23, 2021

Public Scoping

April 13, 2021-May 10, 2021

Final Scope

October 26, 2021

## **DEIS Sections**



## 1. Executive Summary

## 2. Project Description

Describes the Proposed Action, public need and benefit for the project, permits and approvals

## 3. Existing Conditions, Potential Impacts and Mitigations Measures

Detailed narrative analyzing topic areas using data from government agencies and studies undertaken for the project

## 4. Other Environmental Impacts

Required per SEQRA: Unavoidable impacts, irreversible commitment of resources, growth inducing impacts. Energy use and Conservation, Measures to avoid/reduce impacts on climate change.

#### 5. Alternatives

Required per SEQRA: A description and evaluation of the range of reasonable alternatives to the Proposed Action that are feasible, considering the objectives and capabilities of the project sponsor.

## 2. Project Description

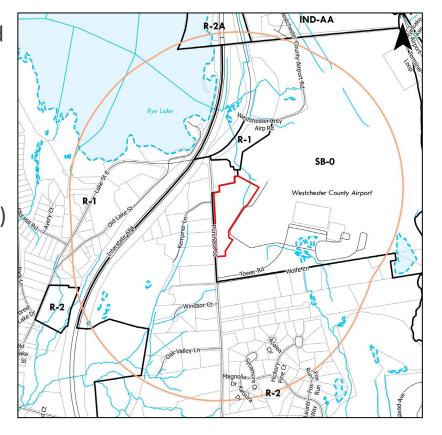
- Introduction
- Background, need, objectives and benefits
- Location and Site Conditions
- Project design and layout
- Overview of Water Treatment
  Plant
- Permits and approvals required
- Involved and Interested agencies.





#### **Land Use, Zoning & Public Policy**

- Description and comparison of the existing and proposed land uses and zoning districts of the Project Site and neighboring properties
- Village/Town of Harrison Zoning Code
- Village/Town of Harrison Comprehensive Plan (2013)
- Westchester County Airport Master Plan (2017)





#### **Community Character & Visual Impacts**

- Description and comparison of existing and proposed landscape/public views of the Project Site and neighboring properties
- Visual Impact Analysis
- Height Comparison Cross Sections
- Description of proposed landscaping and lighting





#### **Fiscal and Economic Impacts**

- Current Taxes
- Fiscal Impact Analysis

Tax impacts and impact of water rate increase

#### **Community Services**

- Demographics data
- Police, Fire and Emergency Services
  Interviews and meetings with service providers, public data from websites
- Solid Waste

Calculations

#### **Utilities**

- Water SupplyHistory and purpose of project
- Water and sewer infrastructure
  Location and connection to water and sewer lines
- Electric, Telephone and Cell data



#### **Stormwater**

- Conformance with NYS DEC Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and Its Sources
- Conformance with NYS DEC SPDES General Permit for Stormwater Discharges from Construction Activity
- Pre & Post development stormwater management
- Pre & Post development Hydrologic Analysis
- Preparation of a draft SWPPP

Hazen

## **Geology, Soils & Topography**

- **USGS Soil Survey**
- Topography
- Phase 1 Environmental Site Assessment (2019 and 2021)
- Geotechnical Engineering Report (2021)







## **Vegetation & Wildlife**

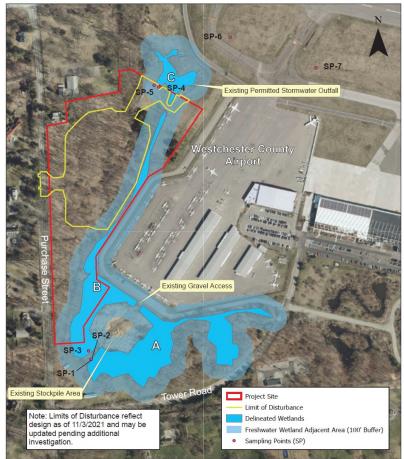
- NYS Breeding Bird Atlas Project
- US Fish and Wildlife Service
- NYS DEC/ Natural Heritage
  Program
- Tree Survey, Site Inspections (2019, 2021)
- Wetland delineation (2021)
- Description of landscaping



Illustrative Landscape Pan

#### Wetlands, Waterbodies & Water

- Wetland delineation (2021)
- Description of applicable local,
  State and Federal regulations & permits



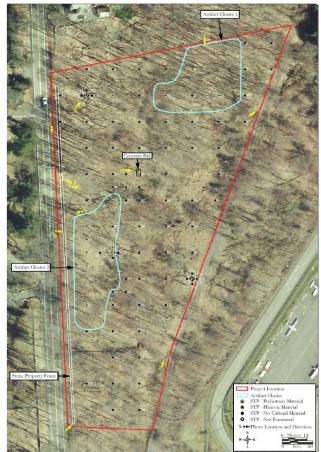


19 (a)7%eni



#### **Archaeological & Historic Resources**

- Phase 1 Archaeological Survey (2019)
- Consultation on historic structures with NYSOPRHP
- NYSOPRHP correspondence





# WESTCHESTER JOINT WATER WORKS

#### **Traffic & Transportation**

- Traffic Impact Study
  - Construction
  - Post Construction
  - Level of Service analysis
  - Site Access and Circulation



Figure 3L-1, Locations of Sound Measurements



#### **Noise**

Sound Level Analysis
 Construction
 Post Construction

### <u>Air</u>

- Current Air Quality levels at Project Site
- Air Quality Analysis
  Construction
  Post Construction

#### **Public Health**

- Project impact on public health
- Water Quality Report (2019)
- Phase 1 Environmental Site Assessment (2019)
- On-site hazardous materials storage and disposal

#### **Construction**

- Proposed Construction Schedule
  Truck trips and personnel per phase
- Construction related impacts



## 4. Other Environmental Impacts



#### **Unavoidable Impacts**

- Short Term
- Long Term

# Irreversible & Irretrievable Commitment of Resources

- Vegetation
- Construction Materials
- Nonrenewable Energy Sources

# Growth Inducing, Secondary & Cumulative Impacts

None

#### **Energy Use & Conservation**

 Rye Lake Water Filtration Plant Sustainability Memorandum

# Measures to Avoid or Reduce Impacts to Climate Change

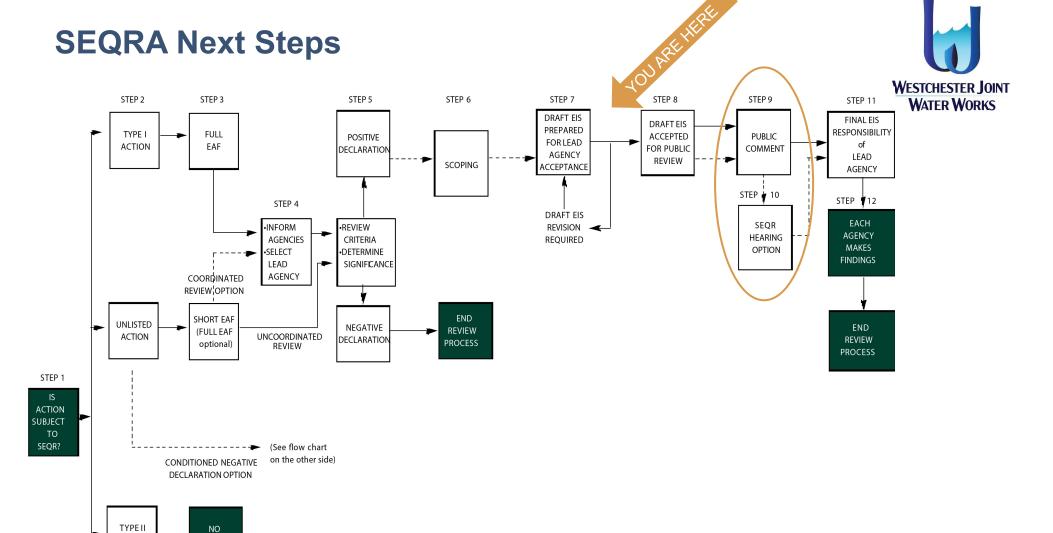
- PV arrays
- Other Energy Conservation Methods

## 5. Alternatives



- No Action
- Alternative Site Plan (exchange parcel)
- Alternative filtration technology
- Alternative façade treatment
- Alternative site plan, connection to Tower Road
- Alternative site location to the south of proposed site
- Alternative location at Rye Lake Pump Station
- Alternative location on SBL 0097.-1 owned by NYS DOT
- Alternative to filtration plan involving Shaft 20
- Alternatives explored in the 2008 FEIS

Hazen



ACTION

REVIEW

## **SEQRA** and **Project Next Steps**



- 1. Accept DEIS as "complete"- April 12, 2022
- 2. Set DEIS public hearing and public comment period *Public Hearing, May 25, 2022, and Public Comment deadline, June 6, 2022*
- 3. Submit land use applications for permits and approvals *May 2022*
- 4. Prepare Final EIS (FEIS)
- 5. Issue SEQRA Findings Statement

Hazen