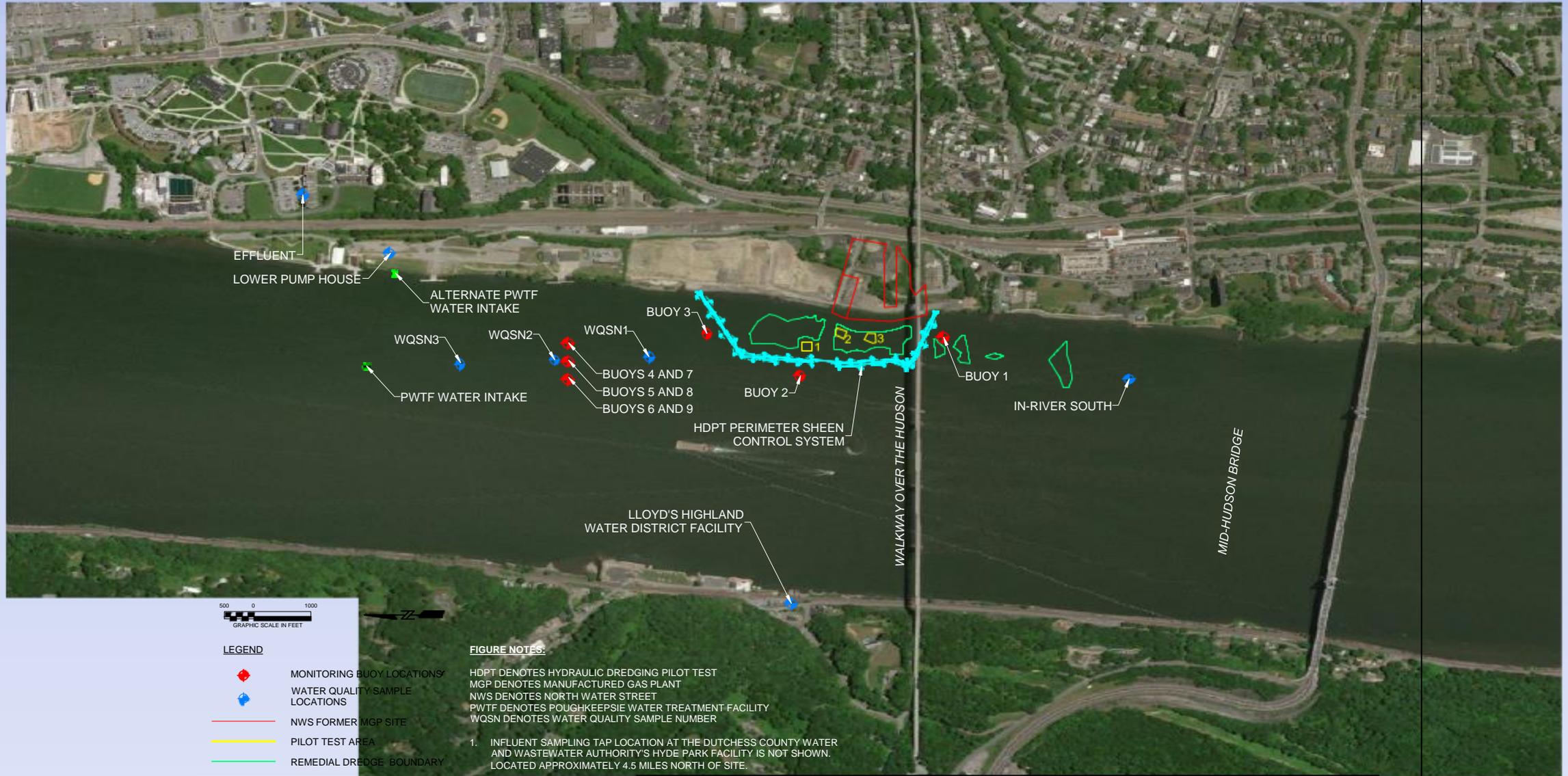


**Central Hudson North Water Street MGP
Remediation Project
Hydraulic Dredge Pilot Test
Fall 2020**

Environmental Controls

- Perimeter Sheen Control System – Double row of 18-inch plastic oil boom with absorbent sausage boom between the plastic booms as well as one attached on the in board side
- In- river monitoring buoys the same as in Season 2 (Figure on next slide)
- In-river water quality sampling and analysis as in Season 2
- Municipal water treatment plant intakes sampling and analysis as in Season 2
- Observer on the Walkway Over the Hudson as in Season 2
- Utilization of 4 patrol boats – 2 inside and 2 outside of the Perimeter Sheen Control System
- TV monitor and Slick Sleuth sheen detector already installed in PWTF wet well



- LEGEND**
- ◆ MONITORING BUOY LOCATIONS
 - ◆ WATER QUALITY SAMPLE LOCATIONS
 - NWS FORMER MGP SITE
 - PILOT TEST AREA
 - REMEDIAL DREDGE BOUNDARY

- FIGURE NOTES:**
- HDPT DENOTES HYDRAULIC DREDGING PILOT TEST
 - MGP DENOTES MANUFACTURED GAS PLANT
 - NWS DENOTES NORTH WATER STREET
 - PWTW DENOTES POUGHKEEPSIE WATER TREATMENT FACILITY
 - WQSN DENOTES WATER QUALITY SAMPLE NUMBER
1. INFLUENT SAMPLING TAP LOCATION AT THE DUTCHESS COUNTY WATER AND WASTEWATER AUTHORITY'S HYDE PARK FACILITY IS NOT SHOWN. LOCATED APPROXIMATELY 4.5 MILES NORTH OF SITE.



CENTRAL HUDSON GAS & ELECTRIC CORP.
NORTH WATER STREET MGP

60540671

SEASON 3
MONITORING LOCATIONS

DATE: 07/17/2020

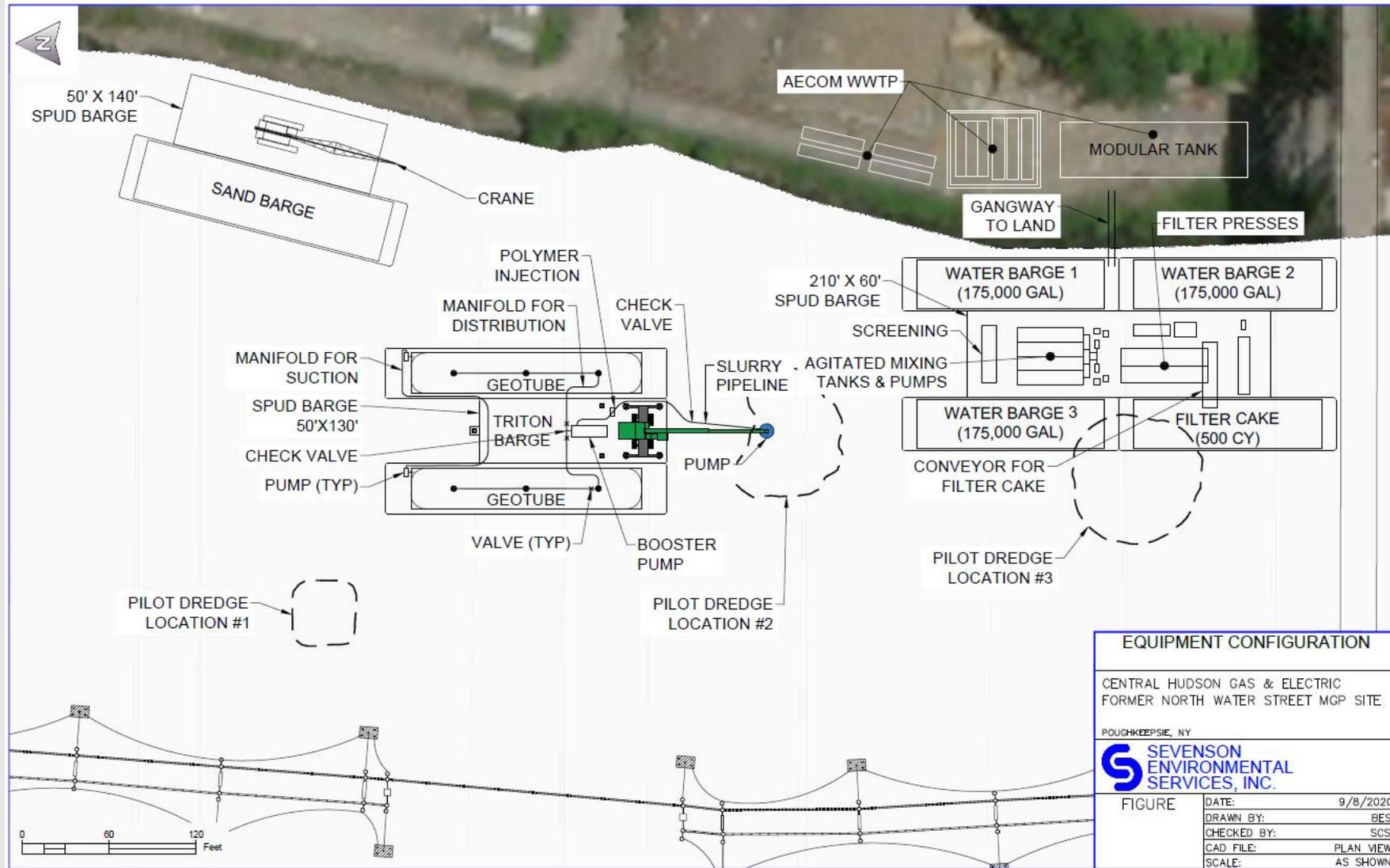
DRWN: DSK

FIGURE 1 OF 1

Water Quality Monitoring

Location	Event	Frequency	Duration	Period/Time	Daily # of samples	Analysis	Comments
Lower Pump House	Background	Start of each season	1 day	High Tide, Low Tide, midoutgoing flow, mid incoming tide	4	ASP Target Compound List plus 30	Standard TAT, Offsite laboratory
	Start-up	Daily ¹	5 days	High Tide, Low Tide	2	ASP Target Compound List plus 30	Expedited TAT, Offsite laboratory
	Normal Operations	Weekly	River Bank Re-Slope, Capping, and Dredging Activities	High Tide	1	ASP Target Compound List plus 30	Expedited TAT, Offsite laboratory
	Uncontrollable Sheen	Daily ²	Per Sheen Event	ASAP, TBD	2	ASP Target Compound List plus 30	Expedited TAT, Offsite laboratory
Effluent	Background	Start of each season	1 day	High Tide, Low Tide, midoutgoing flow, mid incoming tide	4	Chapter 5 and ASP Target Compound List plus 30	Standard TAT, Offsite laboratory
	Uncontrollable Sheen	Daily ²	Per Sheen Event	TBD	2	Chapter 5 and ASP Target Compound List plus 30	Expedited TAT, Offsite laboratory
In-River High Tide	Background ³	Daily ¹	2 days	High Tide, Low Tide, midoutgoing flow, mid incoming tide	8	ASP Target Compound List plus 30	Standard TAT, Offsite laboratory
	Start-up	Daily ²	5 days	High Tide	2	ASP Target Compound List plus 30	Expedited TAT, Offsite laboratory
	Normal Operations	Weekly	River Bank Re-Slope, Capping, and Dredging Activities	High Tide	2	BTEX + PAHs	Expedited TAT, Onsite laboratory
	Sheen outside Perimeter Curtain ⁴	Daily ²	Per Sheen Event	ASAP, High Tide ⁵	4	BTEX + PAHs	Expedited TAT, Onsite laboratory
In-River Low Tide	Background ³	Daily ¹	2 days	High Tide, Low Tide, midoutgoing flow, mid incoming tide	8	ASP Target Compound List plus 30	Standard TAT, Offsite laboratory
	Start-up	Daily ²	5 days	Low Tide	2	ASP Target Compound List plus 30	Expedited TAT, Offsite laboratory
	Normal Operations	Weekly	River Bank Re-Slope, Capping, and Dredging Activities	Low Tide	2	BTEX + PAHs	Expedited TAT, Onsite laboratory
	Sheen outside Perimeter Curtain ⁴	Daily ²	Per Sheen Event	ASAP, Low Tide ⁶	4	BTEX + PAHs	Expedited TAT, Onsite laboratory

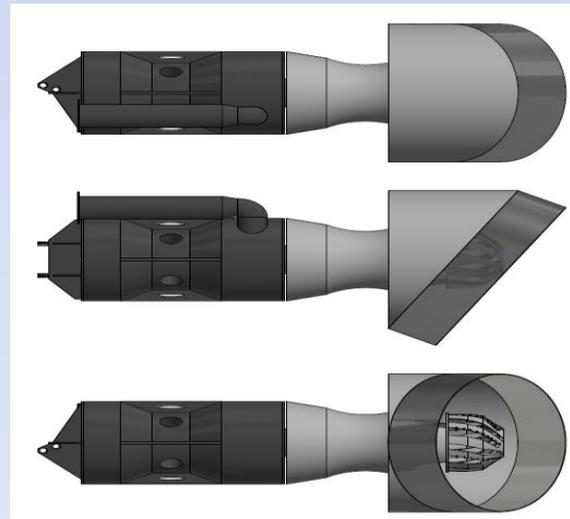
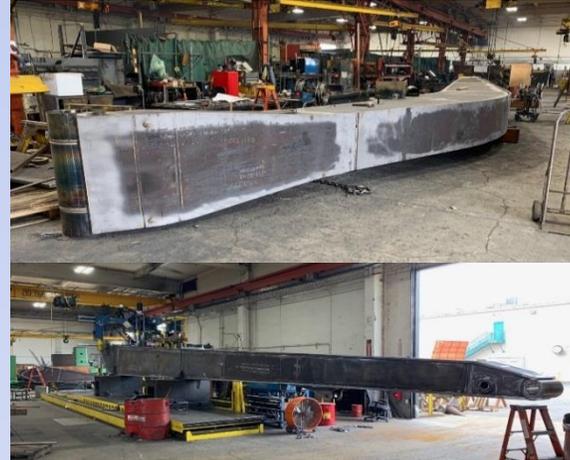
Operational Plan View



EQUIPMENT CONFIGURATION	
CENTRAL HUDSON GAS & ELECTRIC FORMER NORTH WATER STREET MGP SITE	
POUGHKEEPSIE, NY	
 SEVENSON ENVIRONMENTAL SERVICES, INC.	
FIGURE	DATE: 9/8/2020
	DRAWN BY: BES
	CHECKED BY: SCS
	CAD FILE: PLAN VIEW
	SCALE: AS SHOWN

Hydraulic Dredge Components

- Dredging Boom and Long Stick
- Hydraulic Dredging Pump
- Pump Auger Head
- Pump Shroud (conceptual)



Anticipated Timeline for Hydraulic Dredge Pilot Test

- Deploy sheen control perimeter boom and environmental monitoring equipment early/mid October;
- Perform pre-work activity water quality sampling late September/early October
- Commence Pilot Test Field Work – mid/late-October 2020
- Completion of Pilot Test Field Work – mid/late-December, 2020

Questions ?