NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES
THURSDAY, SEPTEMBER 20, 2012 – 7:00 PM

The Croton Facility Monitoring Committee (CFMC) met on Thursday, September 20, 2012 at the DEP Office, 3660 Jerome Avenue, Bronx, NY 10467.

Welcome
The meeting came to order at 7:05 pm. Chairman Paul Foster welcomed everyone.

Attending - CFMC Representatives – *Attachment1*
Hector Aponte, Bronx Borough Commissioner, Department of Parks & Recreation (DPR); Mr. Foster, Chair, and William Francis, Community Board # 7; Bob Fanuzzi, Chair, Community Board # 8; Wilhelm Ronda, Bronx Borough President's Office; George Diaz, Office of Council Member Oliver Koppell; Mark Lanaghan, Department of Environmental Protection (DEP) **Others Attending:** Department of Design and Construction (DDC) Assistant Commissioner Rebecca Clough; DEP Staff; DPR Staff; DEP Construction Manager.

Adoption of CFMC Meeting Agenda - *Attachment 2*
The agenda was adopted without objection by the CFMC.

Adoption of CFMC Meeting Minutes from June 21, 2012
The CFMC reviewed and adopted the June 21 minutes, after a discussion by Mr. Fanuzzi and Mr. Aponte, about the previously approved CFMC policy that statements the public wants in CFMC minutes should be submitted in writing, becoming an attachment to the minutes. The June 21 meeting minutes were adopted upon a motion by Mr. Lanaghan, seconded by Mr. Ronda.

Update on Design of Van Cortlandt Park Landscaping
Ms. Clough said the Van Cortlandt Park (VCP) design and construction of the Golf Course Clubhouse, Parking Lot and Driving Range were transferred from DEP to DDC under the supervision of DPR. The transition has been slowed by issues such as changing the funding mechanism (Water Finance Authority bonds are no longer funding the work), as well as by the value engineering process that is now underway. The value engineering will reduce costs while preserving the project aesthetics. Most of the design features previously reviewed by the CFMC have been retained; some of the features – such as the retention pond -- have been removed, and other cost savings measures have been achieved. Ms. Clough distributed two drawings (*Attachment 3*). Both drawings have June 2012 date on the bottom. She said design plans should significantly advance in the next several months. Ms. Clough said some construction could begin as early as summer 2013. In follow up discussion, Bernard Daly, DEP, said that the start of DDC construction must await removal of DEP contractors' construction trailers and other structures that will be in place until the Croton Filter Plant construction is completed in areas where DDC will be working. As a result, summer 2013 may be too soon for the

commencement. However, the two agencies are coordinating closely, along with the DPR, on scope and timing of the work. Questions were asked about the Club House and tee boxes, and whether the two waterfalls outside the park on Jerome Avenue will be removed. Mr. Aponte said the waterfalls will be removed so the public can see the golf course from outside the park. The CFMC asked Ms. Clough to return with more information at future meetings, and she agreed to do so.

Croton Construction Update, Costs and Schedule

Mr. Daly asked if there were questions about the costs report (*Attachment 4*). There were no questions.

Mr. Daly said the CRO 311, 315 and 313 contracts are each complete/nearly complete. The CRO-312 contractors continue work in and outside the Croton Filter Plant structures at VCP. Mr. Daly distributed the schedule (*Attachment 5*) and showed slides of current DEP work and listed the work to be performed by DDC. (*Attachment 6*) Testing of the filter process will begin early next year. Water filtration plant equipment is being field tested and checked out, and there are final inspections taking place throughout the plant. Mr. Ronda asked when the facility will be operational. Mr. Daly said operations will commence in spring or summer 2013, depending on decisions to be made by DEP's operating bureau, the Bureau of Water and Sewer Operations, which will manage the facility.

At the Shaft and Meter Chamber at Jerome Park Reservoir (JPR), work under CRO-312OS, is far along. Excavation and water main repairs to an existing 36" diameter water main at Sedgwick and Goulden Avenues near Gate House No.7 was completed before Labor Day 2012 and caused no community inconvenience. The roadway closure of Goulden Avenue at Sedgwick Avenue followed the Maintenance and Protection of Traffic plan similar to last year's, with detour to Paul Avenue. Local parking along most of Goulden Avenue was available. The water main connections at Gate House No.7 that were originally planned for 2012 (before the 36" diameter water main repairs became a priority) are scheduled for July and August 2013, with the last planned full roadway closure of Goulden Avenue from Sedgwick Avenue to 205 Street again in effect.

Mr. Daly showed additional slides related to underground work along Sedgwick Avenue at Goulden Avenue that must begin in the next few months to remove and replace equipment in Shaft 3, also known as the Mosholu Pumping Station. This work necessitates a right lane closure of eastbound Sedgwick Avenue, beginning east of the BX 10 bus stop to Goulden Avenue, because the shaft extends into the roadway and must be accessed by construction employees. Traffic analyses have been performed to ensure that the lane closure will not adversely affect eastbound traffic, and discussions with NYC Department of Transportation have been underway. (See *Attachment 7*) Mr. Fanuzzi said the traffic implications must be shared with the local community, and he requested DEP present the information to Community Board #8 at its October 10 meeting. [Note: Community Board #8 modified its request and DEP made the presentation to Community Board #8's Traffic and Transportation Committee on November 20, 2012.]

After explaining the Gate House No. 7 work where connections of the Croton water mains will take place, Mr. Daly reviewed the status of the other JPR Gate Houses. He said that work in Gate House No. 5 is now well along, and at Gate House No. 2 the scaffolding will be removed shortly. Gate House No. 6 work is complete. The CRO-334 contractor will clean JPR basins this fall. Water will be added and both basins are expected to be filled by fall 2013. In answer to a question, Mr. Lanaghan said DEP expects both JPR basins to be filled permanently.

Mr. Aponte requested that by fall 2013, when the water main connections have been made and the Shaft 3 work is complete, the parks work around JPR should begin. Mr. Daly agreed that restoration will begin in the second half of 2013.

CRO-312FM Force Main restoration of area-wide test pits is beginning later than planned but will be underway in fall 2012.

Update on Croton Jobs & Purchases –*Attachment 8*
Mr. Lanaghan reviewed the current Croton jobs report. The Bronx jobs participation is at 17% as of August 2012, and the value of Bronx purchases continues to be steady. Mr. Foster and Mr. Fanuzzi said DDC should also track Bronx-based businesses and jobs. They said they will make the request to DDC when the agency next meets with the CFMC.

CFMC Discussion
Mr. Foster asked if DEP has reconsidered its policy of not meeting every month. Mr. Lanaghan said there is no change in this policy. Mr. Diaz, representing Council Member Koppell, said Mr. Koppell is adamant that monthly meetings should continue. Mr. Aponte said Council Member Koppell had said he would communicate directly on behalf of monthly CFMC meetings with DEP Commissioner Carter Strickland. Mr. Lanaghan repeated that the CFMC could meet without DEP and its consultants. Mr. Fanuzzi said that is divisive. Mr. Foster asked if DEP is willing to meet in the event a special need arises, and Mr. Lanaghan said yes; however, he said the quarterly schedule appears to be sufficient to update the CFMC on Croton work. Margot Perron, DPR, suggested bi-monthly meetings. Between meetings, Mr. Lanaghan said that DEP will email the monthly costs and jobs reports to CFMC representatives.

Mr. Lanaghan suggested the next meeting be in December. Mr. Fanuzzi said tonight's meeting was informative and it validates the importance of monthly meetings. Mr. Foster said the CFMC would prepare a letter to the DEP Commissioner, disagreeing with quarterly meetings and asking for DEP to participate in monthly meetings. Mr. Ronda said the CFMC has fully discussed this issue, and the committee should be heartened that DEP agreed to meet if an urgent matter needs to be examined. The CFMC selected Thursday, December 6, 2012 for its next meeting.

Upon a motion by Mr. Ronda, the meeting adjourned at 8:25pm.

Name	Organization	Address	Phone	Fax	E-Mail
George Diaz	Representing Council Member Koppell	3636 Waldo Avenue Bronx NY 10463	(718) 549-7300		gdiaz@council.nyc.gov
Thomas Farrell, PE	URS-MP Construction Management	3701 Jerome Avenue Bronx, NY 10467	(718) 696 2000		thomas.farrell@shawgrp.com
Lauren Competello PE	Department of Environmental Protection	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000		laurenc@dep.nyc.gov
Robert Fanuzzi	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		fanuzzir@stjohns.edu
Andrew Penzi	Department of Parks & Recreation	Olmstead Center Flushing Meadows Corona Park	(718) 760 6577		andrew.penzi@parks.nyc.gov
Dennis Stanford	Department of Environmental Protection	3701 Jerome Avenue Bronx, NY 10467	(718) 696 2000		dstanford@dep.nyc.gov
Hector Aponte	Bronx Parks Commissioner	1 Bronx River Parkway Bronx NY	(718) 430-1801		hector.aponte@parks.nyc.gov
Mark Lanaghan	Department of Environmental Protection	59-17 Junction Blvd Flushing NY 11368	(718) 595-3519		markl@dep.nyc.gov
Don Spiegel	AECOM	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000		donald.spiegel@aecom.com
Martha Holstein	Strategic Urban Solutions, Inc.	335 Adams Street Brooklyn, NY 11201	(718) 625-1005 x. 223	(718) 625-1032	mholstein@urbansol.com
Bernard Daly, P.E.	DEP BEDC Project Manager	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000	(718) 324-3034	Bdaly@dep.nyc.gov
Erin Guire	AECOM	605 Third Avenue New York NY 10158	(732) 361-78098707		erin.guire@aecom.com
Paul Foster	Community Board #7	229A East 204th Street Bronx NY 10458	(718) 933-5650		pfoster@cb.nyc.gov
Wilhelm Ronda	Office of Bronx Borough President Diaz	198 East 161st Street Bronx, NY 10451	(718) 590-8087		wronda@bxbp.nyc.gov
Rebecca Clough	Department of Design and Construction	3030 Thomson Avenue Long Island City NY	(718) 391-1127		cloughr@ddc.nyc.gov
Ed Neisch	URS-MP Construction Management	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000		ed.neisch@arcadis-us.com
William Francis	Community Board #7	229A East 204th Street Bronx NY 10458	(718) 933 5650		bill2559@gmail.com
Margot Perron	Department of Parks & Recreation	1 Bronx River Parkway Bronx NY	(718) 430 1890		margot.perron@parks.nyc.gov
Bryan Suelto	AECOM	605 Third Avenue New York NY 10158	(212) 973 3163		bryan.suelto@aecom.com

Agenda
Croton Facility Monitoring Committee Meeting

Thursday, September 20, 2012 – 7:00 PM
DEP Office – 3660 Jerome Avenue, Bronx NY 10467 - (718) 231-8470

I Welcome	Paul Foster, Chair
II Consider and Adopt the Meeting Agenda	CFMC Representatives
III Consider, Adopt 6/21/12 Meeting Minutes	CFMC Representatives
IV Update on Van Cortlandt Park Landscaping Design	DDC, DPR & DEP Representatives
V Croton Construction Update, including work On Goulden & Sedgwick Aves, & Costs	Bernard Daly, P.E., DEP
VI Croton Jobs and Bronx Purchases	Mark Lanaghan, DEP
VII CFMC Discussion, Set Next Meeting	CFMC Representatives
VIII Adjourn	

PACKAGE 4 90% CD DESIGN

PACKAGE 4 PROPOSED SCENARIO WITH SEPT 2010 PRE-APPROVED PROJECT SAVINGS

REVISED RENDERING - WITH PACKAGE 4 PROPOSED SEPT 2010 SAVINGS

WM-11 Croton Water Treatment Plant
Cost Summary as of 8/31/2012

Croton WTP Construction Costs							
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	Amount Invoiced to Date	% Contract Increase	% Complete based on Amount Invoiced to Date
CRO-311	Schiavone Construction Co.	$127,660,000	-$14,445,214	$113,214,786	$113,214,786	-11%	100%
CRO-312G	Skanska/Tully, JV	$1,327,700,000	$136,571,809	$1,464,271,809	$1,275,325,979	10%	87%
CRO-312E1	Schlesinger-Siemens, LLC	$134,680,000	$24,394,697	$159,074,697	$83,312,864	18%	52%
CRO-312E2	Schlesinger-Siemens, LLC	$37,678,000	$7,358,105	$45,036,105	$32,171,069	20%	71%
CRO-312H	Durr Mechanical Construction	$105,700,000	$24,103,000	$129,803,000	$102,210,231	23%	79%
CRO-312P	Picone/WDF, JV	$58,475,000	$14,517,861	$72,992,861	$63,306,683	25%	87%
CRO-312OS-G	Picone-Schiavone, JV	$96,842,500	$29,146,981	$125,989,481	$92,590,322	30%	73%
CRO-312OS-E	Eldor Electric	$15,762,500	$1,553,340	$17,315,840	$11,924,263	10%	69%
CRO-312OS-H	AWL Industries	$822,000	$56,971	$878,971	$437,385	7%	50%
CRO-312OS-P	JPP Plumbing	$872,000	$194,117	$1,066,117	$783,981	22%	74%
CRO-312FM (1)	Maspeth Supply Co. LLC	$18,626,745	-$324,387	$18,302,358	$911,622	-2%	5%
CRO-313	Schiavone/Picone, JV	$212,227,000	-$6,787,681	$205,439,319	$205,645,619	-3%	100%
CRO-315G	Angelakis Construction Corp.	$3,641,000	$2,282	$3,643,282	$3,643,282	0%	100%
CRO-315E	Interphase Electric	$807,317	$144,874	$952,191	$952,191	18%	100%
CRO-312CE	Con Edison	$4,074,526	$0	$4,074,526	$2,716,351	0%	67%
TOTAL		**$2,145,568,588**	**$216,486,755**	**$2,362,055,343**	**$1,989,146,627**	**10%**	**84%**
Croton WTP Design / Construction Management Costs							
HED-543 DES	Metcalf & Eddy / Hazen and Sawyer, JV	$44,226,000	$248,899,624	$293,125,624	$272,013,005	563%	93%
HED-545 CM	URS/Malcolm Pirnie, JV	$63,400,000	$76,195,713	$139,595,713	$106,794,891	120%	77%
TOTAL		**$107,626,000**	**$325,095,337**	**$432,721,337**	**$378,807,897**	**302%**	**88%**

Rehabilitation of the New Croton Aqueduct Construction Costs							
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	Amount Invoiced to Date	% Contract Increase	% Complete based on Amount Invoiced to Date
CRO-334G	Frontier-Kemper/Schiavone/ Picone JV	$91,696,805	$23,259,516	$114,956,321	$87,232,744	25%	76%
CRO-334E	Community Electric	$1,119,000	$266,375	$1,385,375	$532,039	24%	38%
TOTAL		**$92,815,805**	**$23,525,891**	**$116,341,696**	**$87,764,783**	**25%**	**75%**
Rehabilitation of the New Croton Aqueduct Construction Management Costs (2)							
TCM-CRO-334	Washington/HAKS JV	$5,952,446	$2,161,900	$8,114,346	$7,525,406	36%	93%
TOTAL		**$5,952,446**	**$2,161,900**	**$8,114,346**	**$7,525,406**	**36%**	**93%**

Notes:
(1) Costs shown for CRO-312FM are for the original Force Main Route to Hunts Point WPCP.
(2) Design costs for CRO-334G and CRO-334E are included in Contract HED-543 DES.

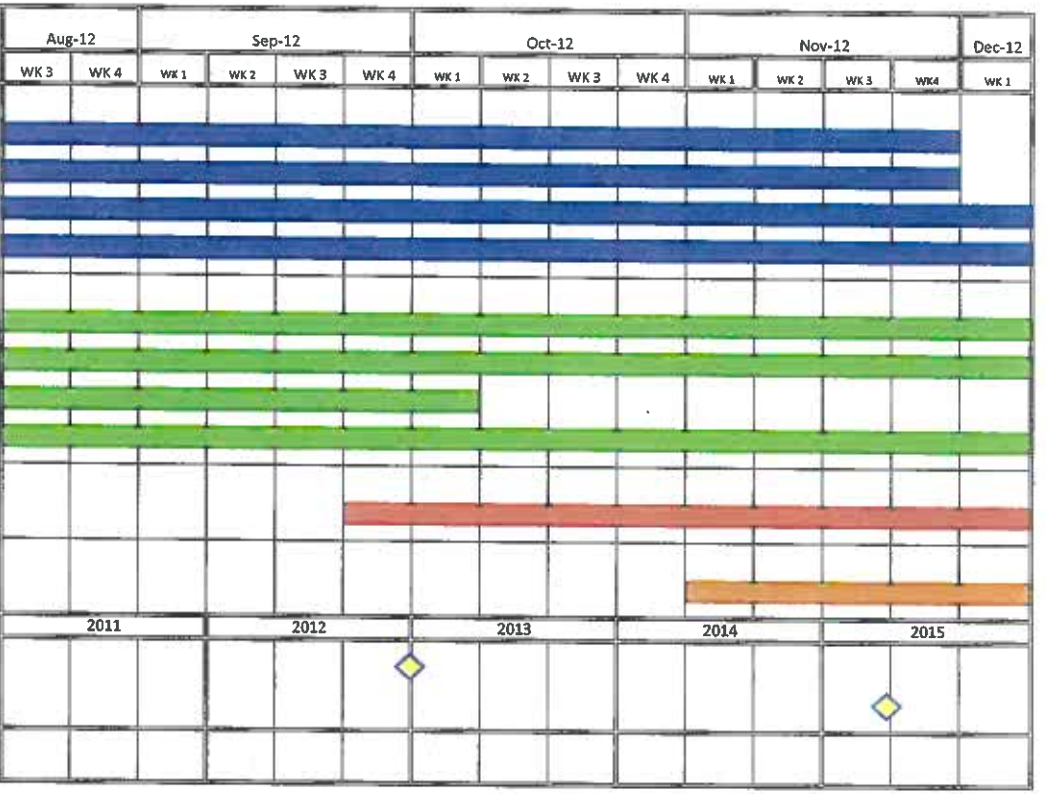
Attachment 4

WM-11 Croton Water Treatment Plant
Facility Monitoring Committee

Look-Ahead Schedule

September 20, 2012

Task	Current Forecasted Completion
CRO-312 - Water Treatment Plant Construction at Mosholu Site	
Water and Sewer Work in Jerome and Bainbridge Avenues	11/30/2012
Entrance Driveway Site Utility Work (Intermittent)	11/30/2012
Furnish and Install Equipment, Electrical, HVAC and Plumbing Work for Water Treatment Plant	4/19/2013
Checkout, Field Equipment Testing and Field System Testing - Plants A and B	6/3/2013
CRO-312OS - Off-Site Facilities at Jerome Park Reservoir and Gate House No. 1	
Shaft and Meter Chamber and Yard Work	5/1/2013
Rehabilitation Work and Entry Point Monitoring in Gate House No. 5	5/1/2013
Rehabilitation Work in Gate House No. 1 (including construction of new stairs)	10/4/2012
Mosholu Pump Station Water Main Work (Interior, Grass Area and Street)	8/31/2013
CRO-312FM - Residuals Force Main to Hunts Point	
Restoration of Test Pits Along Original Force Main Route	12/31/2012
CRO-334 - Rehabilitation of New Croton Aqueduct	
Clean North and South Basins at Jerome Park Reservoir	12/31/2012
Begin Startup and Testing of Water Treatment Plant	12/31/2012
Complete Above Grade Architectural Work at DEP Area	4/29/2015
Complete Golf Course Clubhouse, Driving Range, Etc.	TBD



Attachment 5

NYC Environmental Protection

Croton Water Filtration Plant
FMC Meeting

September 20, 2012

Attachment 6

Above Ground Work

Work to be performed by DEP Contractors

- DEP Entrance
- DEP Buildings
  - Police Booth
  - Chemical Fill Building
  - Arrivals and Receiving Building
- Retaining Walls and Gabion Walls
- Driving Range on top of roof
  - Drainage
  - Irrigation
  - Green Roof / Landscaping
  - Golf Course Netting
- Landscaping in DEP North Area

Work to be performed by DDC Contractors for DPR

- Club House
- Wetland Cell System
- DPR Parking Lot
- Landscaping in DPR Area

NYC Environmental Protection

June 2012

NYC Environmental Protection

Plant Roof

NYC Environmental Protection

Arrivals and Receiving Building

NYC Environmental Protection

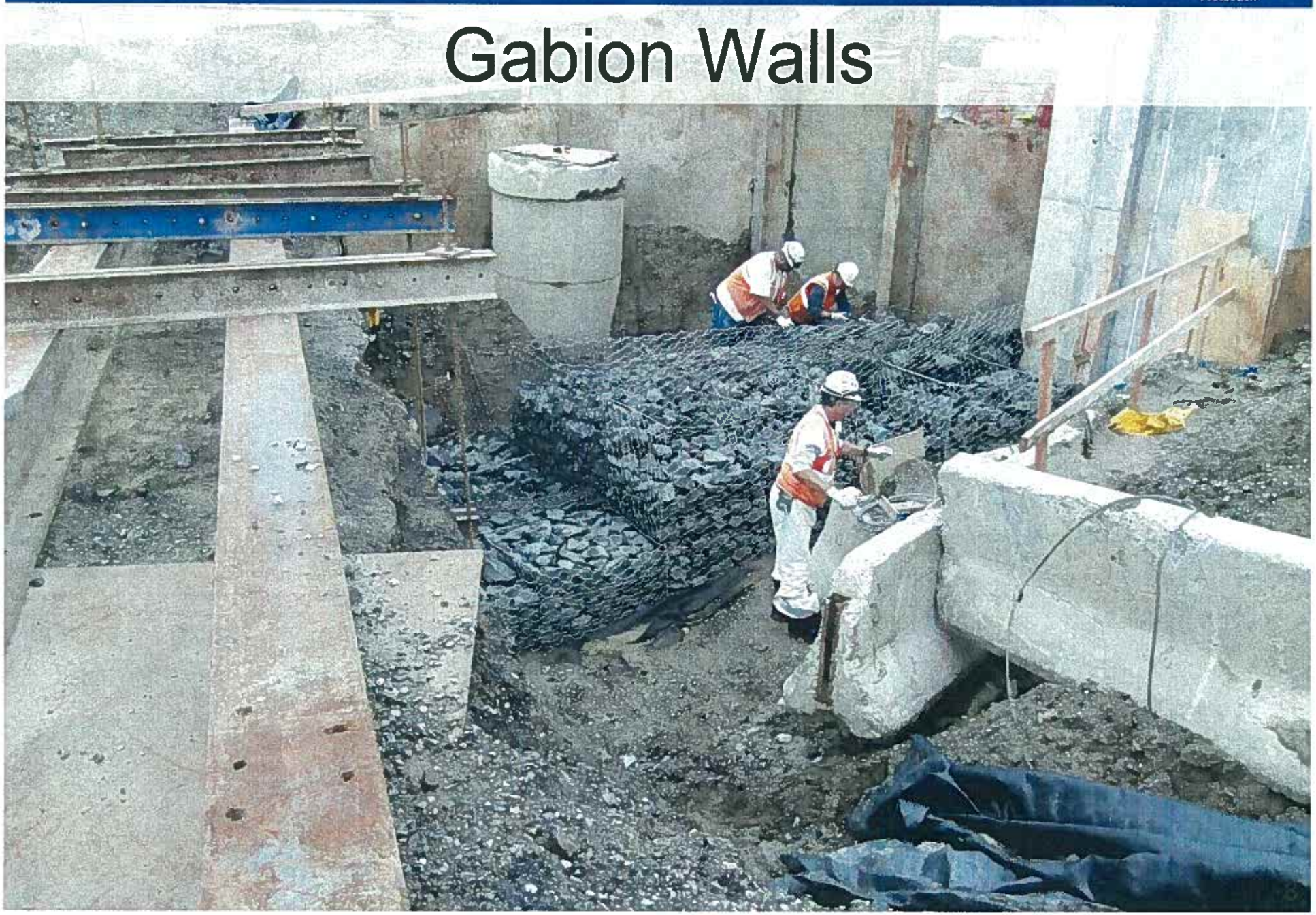
Chemical Fill Building

NYC Environmental Protection

Retaining Wall Stone Façade

NYC Environmental Protection

Gabion Walls



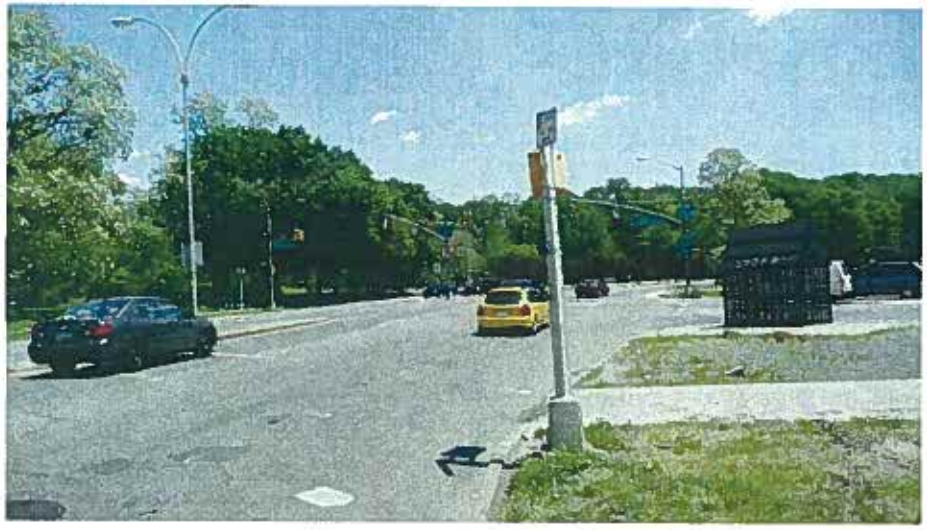
NYC Environmental Protection

Driving Range Netting Pole Foundation

Croton Water Filtration Plant Project
Jerome Park Reservoir Site

Shaft 3 & Mosholu Pumping Station Piping

Proposed Sedgwick Ave Lane Closure and MPT Scheme

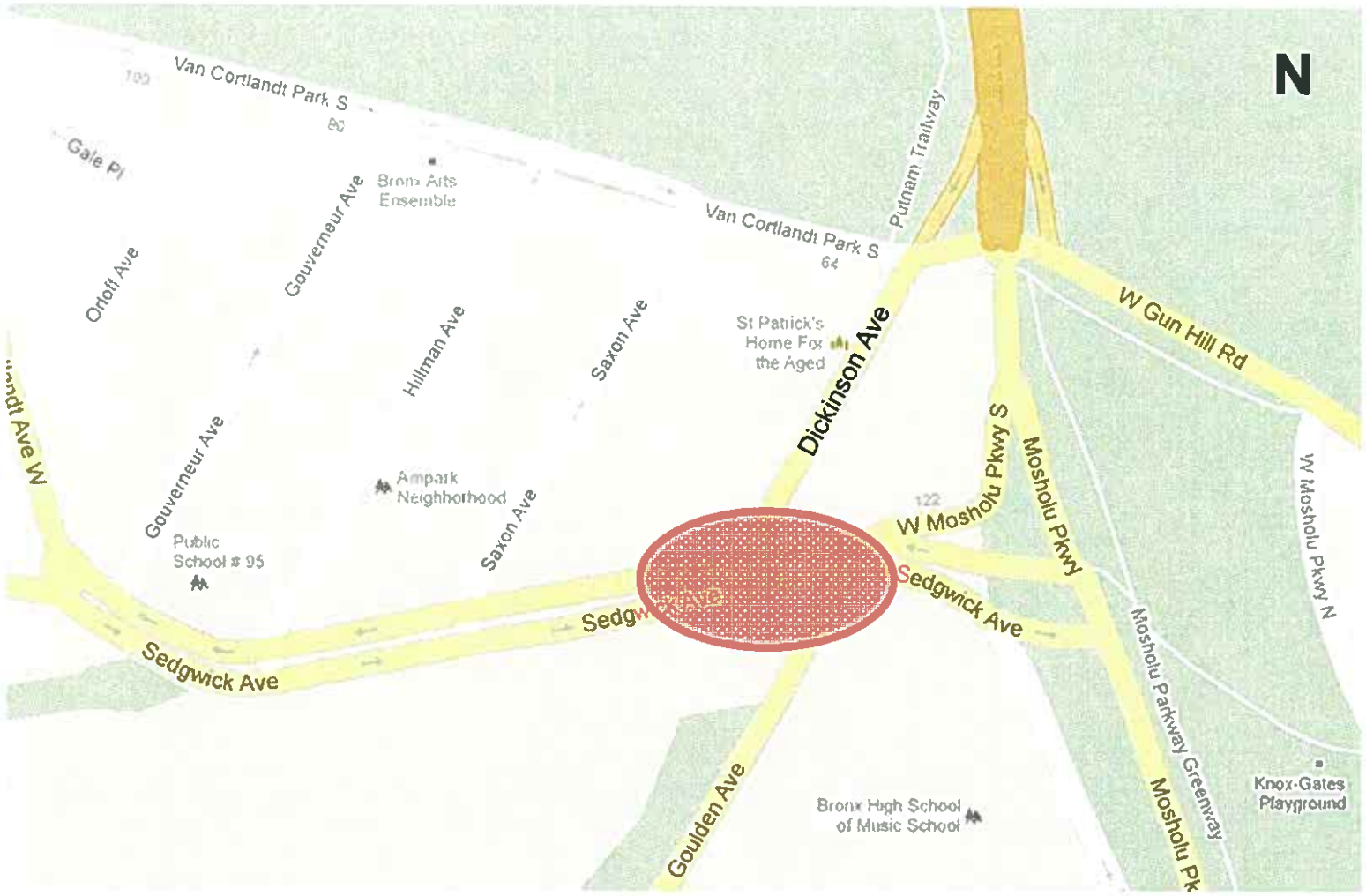


NYC Environmental Protection

Attachment 7

Environmental Protection

Study Area – Bronx, NY



Environmental Protection

Construction Purpose

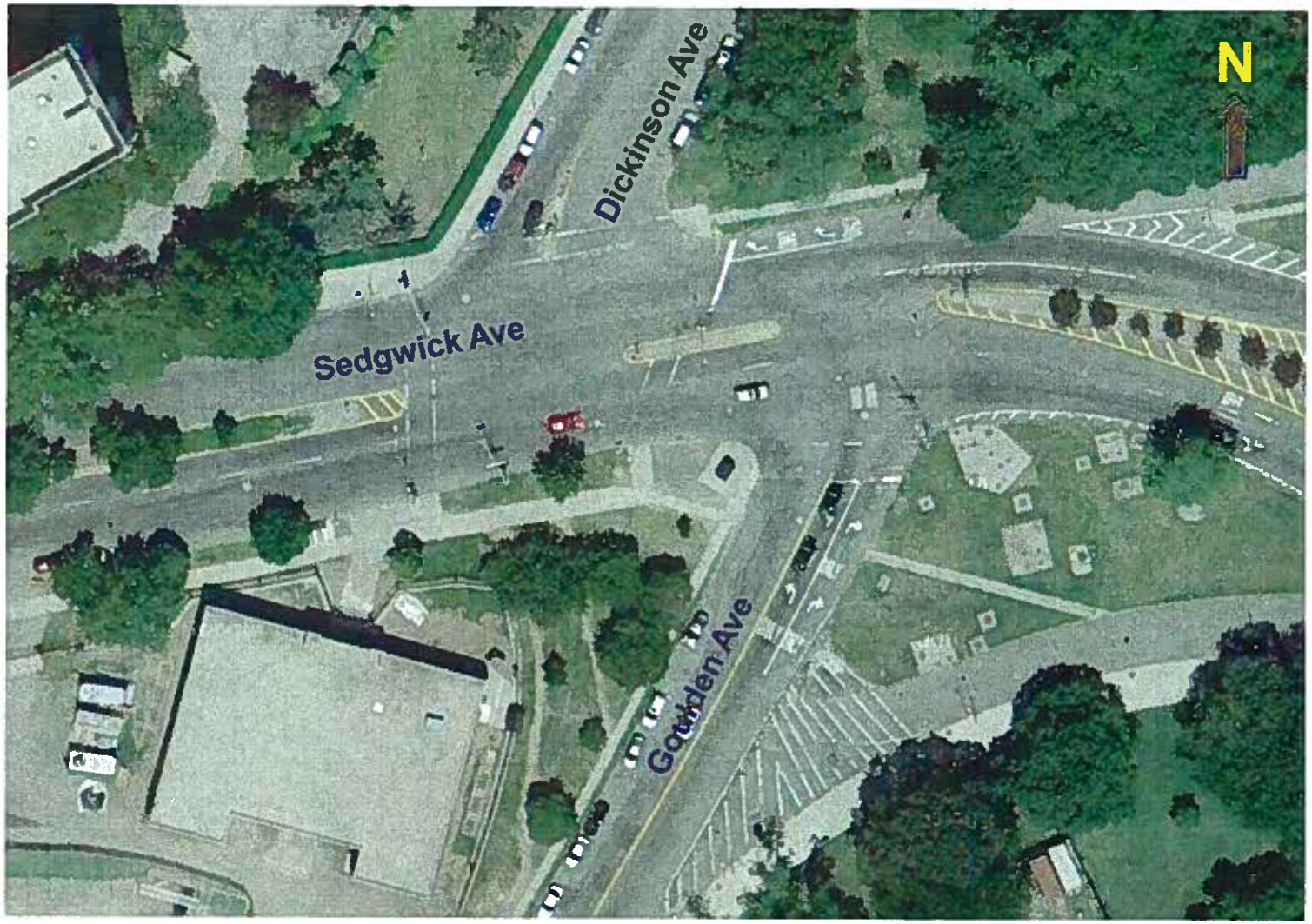
NYCDEP is currently performing construction for the Croton Water Filtration Plant project at Jerome Park Reservoir. The Sedgwick Avenue lane closure is required to perform the following work inside Mosholu Pumping Station (also called Shaft 3):

1. Demolish existing pumps, piping, and valves.

2. Install new piping and valves that will be connected to the Croton WFP high service system via existing Water Mains, Shaft & Meter Chamber and High Service Tunnel.

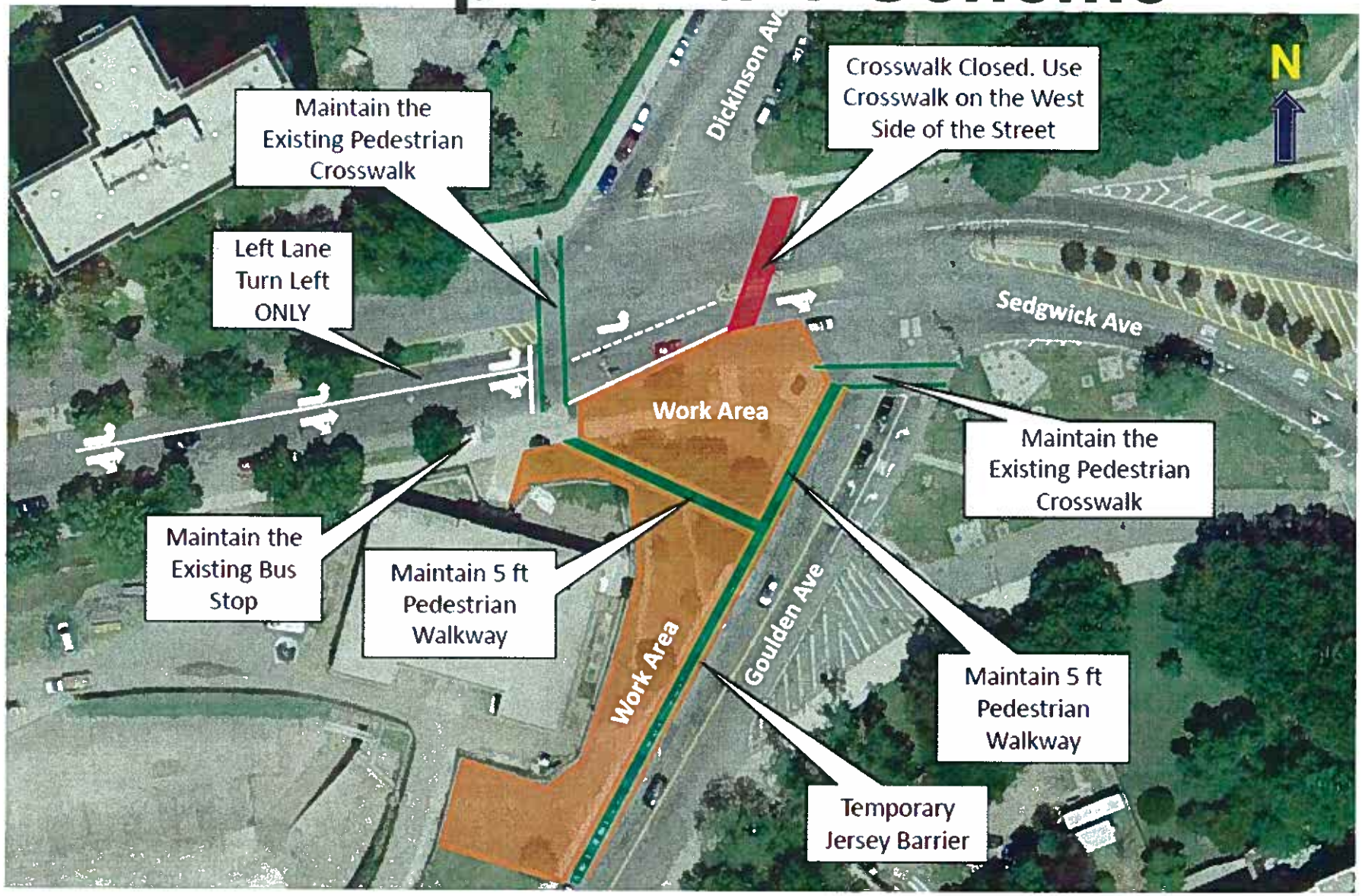
Environmental Protection

Existing Street Conditions



Environmental Protection

Conceptual MPT Scheme



Environmental Protection

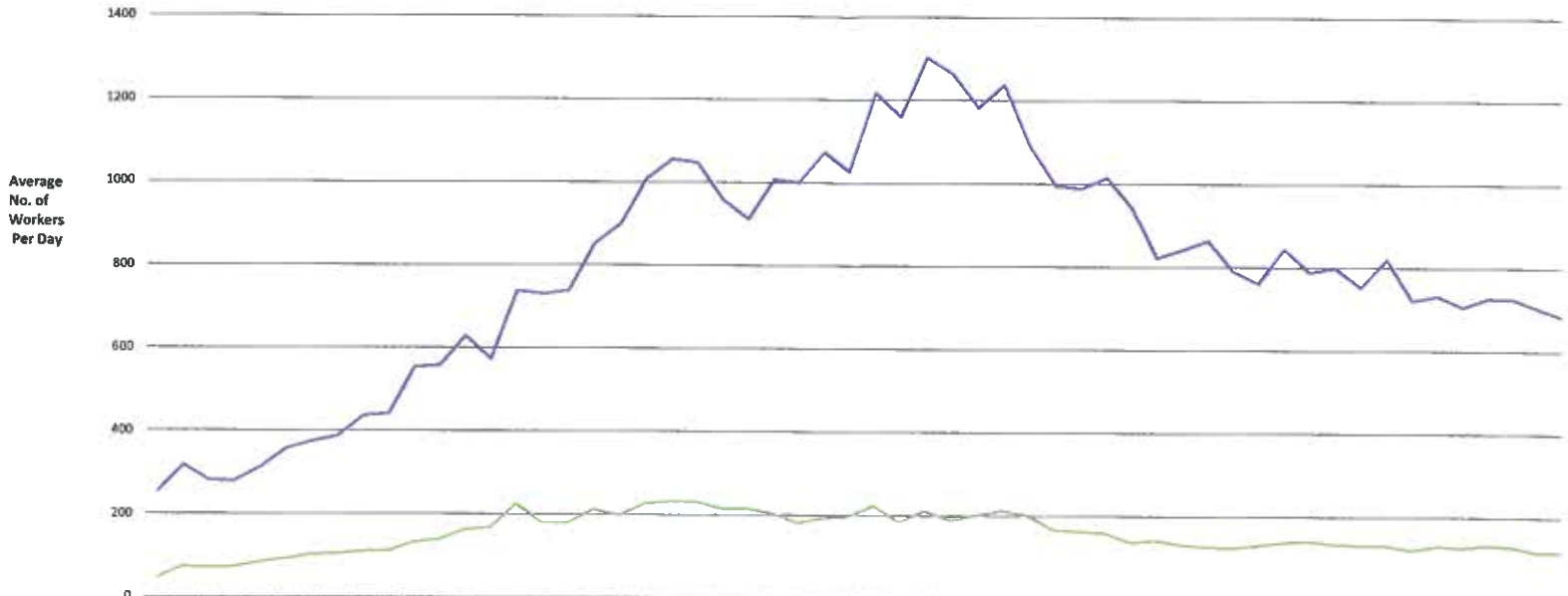
Proposed Improvements

The existing intersection level of service would be maintained during construction by the following improvements:

- Maintain a 15-ft lane at the EB approach of Sedgwick Ave/Goulden Ave Intersection
- Optimize signal timing and phasing at the Sedgwick Ave/Dickinson Ave/Goulden Ave intersection to allow more green time for the EB approach at Goulden Ave

Attachment 8

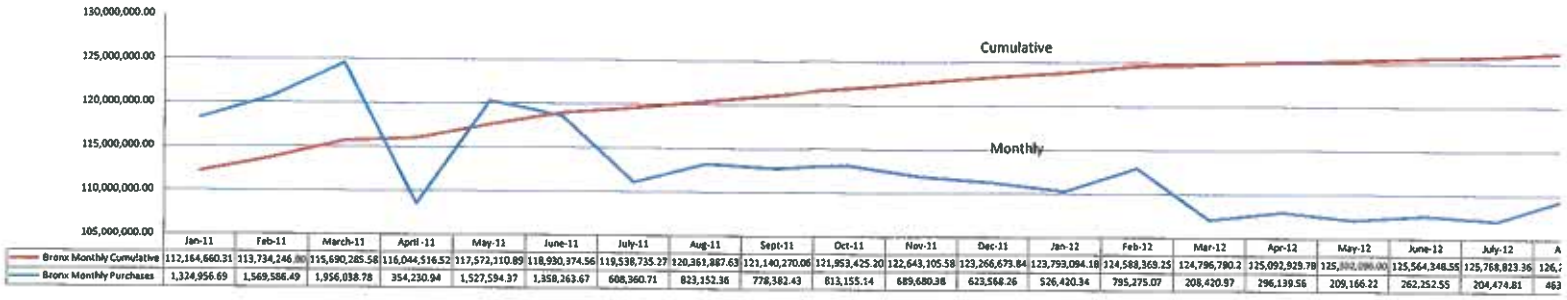
CROTON WATER TREATMENT PLANT AND OFFSITE FACILITIES AT JEROME PARK RESERVOIR



	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	June-11	July-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12
Bronx Workers	46	73	70	72	83	91	102	104	110	111	133	139	163	168	225	181	181	212	199	227	232	231	216	216	204	181	193	195	222	185	210	190	200	211	200	166	162	159	137	142	132	127	125	131	139	142	135	132	132	121	131	127	133	129	116	1
Total Workers	254	317	280	278	312	356	374	387	436	441	553	558	629	573	738	730	738	852	900	100	105	104	959	912	100	100	107	102	121	115	130	126	118	123	108	994	988	101	941	822	842	864	791	762	844	789	799	753	820	722	732	706	727	725	703	6
Bronx Workers %	18%	23%	25%	26%	27%	26%	27%	27%	25%	25%	24%	25%	26%	29%	30%	25%	25%	25%	22%	22%	22%	22%	23%	24%	20%	18%	18%	19%	18%	16%	16%	15%	17%	17%	18%	17%	16%	16%	15%	17%	16%	15%	16%	17%	16%	18%	17%	18%	16%	17%	18%	18%	18%	18%	17%	17

Total Average Overall= 20%

Croton WTP Bronx Purchases



	Jan-11	Feb-11	March-11	April -11	May-11	June-11	July-11	Aug-11	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	A
Bronx Monthly Cumulative	112,164,660.31	113,734,246.80	115,690,285.58	116,044,516.52	117,572,110.89	118,930,374.56	119,538,735.27	120,361,887.63	121,140,270.06	121,953,425.20	122,643,105.58	123,266,673.84	123,793,094.18	124,588,369.25	124,796,780.2	125,092,929.78	125,302,096.00	125,564,348.55	125,768,823.36	126,4
Bronx Monthly Purchases	1,324,956.69	1,569,586.49	1,956,038.78	354,230.94	1,527,594.37	1,358,263.67	608,360.71	823,152.36	778,382.43	813,155.14	689,680.38	623,568.26	526,420.34	795,275.07	208,420.97	296,139.56	209,166.22	262,252.55	204,474.81	463

TOP FIVE VENDORS TO DATE

Cumulative as of	Jenna Concrete	CFS Steel	Center Sheet Metal	Tilcon	Perimeter Security
Aug-12	39,954,192.30	37,872,110.75	32,504,207.00	2,309,413.12	3,741,367.23