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Date: September 3, 2025
Our Ref: 30279534.RPTI4
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Subject: - 2025 Second Quarter Operation, Maintenance, and Monitoring Report, Operable Unit 2, Northrop Grumman and Naval Weapons Industrial Reserve Plant (NWIRP) Sites, Bethpage, New York.
(NYSDEC Site #'s 1-30-003A and B)

Dear Ms. Johnston:

On behalf of Northrop Grumman, Arcadis is providing the NYSDEC with the Second Quarter 2025 Operation, Maintenance, and Monitoring Report (Report). This Report was prepared to document the operation, maintenance, and monitoring (OM&M) activities conducted for the on-site portion of the Operable Unit 2 (OU2) groundwater remedy and the results of ongoing volatile organic compound (VOC) and inorganic monitoring in groundwater to meet the remedial objectives set forth in the March 2001 OU2 Record of Decision (ROD) and associated December 2019 Amended Record of Decision (AROD).

Table 1 summarizes OU2 remedial system performance operational data, mass removed, and water balance. **Tables 2 and 3A/3B** provide the analytical results for remedial system water and vapor samples, respectively, for this period. **Tables 4A and 4B** provide an air quality impact analysis (under 6 CRR-NY 212 [Rule 212]) for quarterly vapor sample results collected from the Building 96 and Building 102 systems, respectively, including air modeling analysis if warranted. **Table 5, 6 and 7** provide validated analytical results associated with groundwater monitoring efforts completed during this period. **Figures 1 through 3** show the Locations of Wells and On-site Groundwater Remedy, ONCT Groundwater Extraction and Treatment System Site Plan, and the ONCT Groundwater Extraction and Treatment System Schematic, respectively.

Sarah Johnston
NYSDEC
September 3, 2025

Please contact us if you have any questions or comments.

Sincerely,
Arcadis of New York, Inc.

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Enclosures

Tables

Table 1
Operational Summary for the Treatment System
Second Quarter 2025[1] Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

	Quarterly Flow Rates (gpm)		Quarterly Flow Volumes (MG)			Quarterly VOC Concentrations (µg/L)		VOC Mass Removed (lbs)		Second Quarter Remedial Well Uptime (%)
	Current Model Design [2]	Current Operational Flow [3,4]	Design [2]	Actual [3,4]	% of Design	TCE [5,6]	TVOC [5,6]	Quarterly	Cumulative	
Influent Groundwater[7]										
Well 1	800	824	105	107	102%	359	379	339	60,627	99.2%
Well 3R	700	828	92	103	112%	160	225	194	96,480	95.3%
Well 17	1,000	1,005	131	123	94%	110	125	128	57,662	93.7%
Well 18	800	974	105	120	114%	21.5	40.4	41	7,994	93.7%
Well 19	500	504	66	26	39%	29.9	39.1	8	10,049	39.7%
Total [8]	**3,800**	**4,135**	**499**	**479**	**96%**	**--**	**--**	**710**	**232,812**	**--**
Effluent Groundwater [9,14]										
Calpine	100 - 400	20	--	3	--	--	--	--	--	--
OXY Biosparge [10]	2 - 42	0	--	0	--	--	--	--	--	--
West Recharge Basins	1,112 - 1,455	1,467	--	192	--	2.1	2.1	--	--	--
South Recharge Basins (Building 102)	2231 - 4631	2,055	296 - 607	269	--	ND	ND	--	--	--
South Recharge Basins (Building 109)	1,500	1,886	197	247	--	--	--	--	--	--
South Recharge Basins (Combined)	2231 - 4631	3,941	495 - 806	516	--	--	--	--	--	--
Total	**--**	**5,428**	**--**	**711**	**--**					
Additional Flow to South Recharge Basins										
Storm Water Runoff Contributing to South Recharge Basins Flow Volume [11]	--	--	--	14.9	--	--	--	--	--	--
Total Flow Volume to South Recharge Basins [10,11,12]			**495 - 806**	**531**	**--**					
Treatment Efficiencies [13]										
Building 96 System:	99.3%									
Building 102 System:	>99.9%									

See Notes and Abbreviations on last page.

Table 1
Operational Summary for the Treatment System
Second Quarter 2025[(1)] Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Notes and Abbreviations:

(1) Quarterly reporting period: April 1, 2025 through June 30, 2025.

(2) "Current Model Design" flow rates were determined for the five remedial wells and for the South Recharge Basin (SRB) based on computer modeling (ARCADIS G&M, Inc. 2002, updated in 2021 and 2023). Flow rates for Calpine Power Plant (Calpine), Occidental Chemical (OXY) Biosparge, and West Recharge Basin flow rates are typical flow rates and are provided for reader information. Flow to SRB reflects operation of the B109 treatment system. High-end of range of flow to the SRB reflects up to a 2,400 gpm contribution from B109. Model simulations demonstrated ONCT capture zone maintained for SRB discharge rates within range. "Design" flow volumes represent the volume of water that is expected to be pumped/discharged during the reporting period and is calculated by multiplying the design rate by the reporting period duration.

(3) Actual flow rates for the remedial wells represent the average actual pumping rates when the pumps are operational and do not take into account the time that a well is not operational. Actual flow volumes are collated from the monthly SPDES reports, which are calculated using the SCADA instantaneous flow rates transmitted from local flow meters.

(4) “Actual” flow rates for the system discharges represent the average flow rate during the reporting period and are determined by dividing the total flow recorded during the reporting period by the reporting period duration.

(5) The TCE and TVOC concentrations are from the quarterly sampling events performed during this reporting period on May 21, 2025 and June 11, 2025.

(6) The TCE and TVOC concentrations for the West Recharge Basin (Outfall 006 of the Building 96 System) and the South Recharge Basin (Outfall 005 of the Building 102 System) are representative of effluent samples collected at the Building 96 and Building 102 treatment systems, prior to discharge to the West and South Recharge Basins.

(7) Building 96 (Wells 1 and 3R): Well 3R shut down on 4/4/25 through 4/6/25, and 4/9/25 due to replacement of the PLC, VFD, and radio components. Well 1 shut down on 5/3/25 due to low system pressure while valve adjustments were made.
Building 102 (Wells 17, 18, and 19): Well 19 was shut down intermittently on 3/7/25 through 6/5/25 due to pump issues. The following maintenance items were completed to resolve the pump issues: tested pump motor leads, replaced the VFD and PLC, and replaced the pump motor. Building 102 system was shut down on 6/4/25 through 6/5/25 as part of addressing Well 19 pump issues. Building 102 system shut down on 6/23/25 through 6/26/25 due to a blower high pressure alarm.

(8) Total pumpage/recharge rates are accurate to ±15% based on available information and expected or typical precision/accuracy factors for the gauges and meters.

(9) There are four possible discharges for the effluent groundwater: South Recharge Basins, West Recharge Basins, Calpine, and the OXY Biosparge system. Treated water is continuously discharged to the south and west recharge basins during routine operation, and is available "on-demand" to both Calpine for use as make-up water, and the OXY Biosparge remediation system. For this quarter, the quarterly flow rates to the south and west recharge basins (SRB and WRB, respectively) were calculated using the remedial well flow rates and available additional information and assumptions provided by Northrop Grumman regarding flow distribution, as follows: the Building 96 system (Remedial Wells 1 and 3R) discharges effluent water to the WRB, less Calpine usage and less 119 gpm of Building 102 steam condenser usage (15.8 MG); the Building 102 System (Remedial Wells 17 through 19), including the Building 102 steam condenser usage (15.8 MG), and the Building 109 System (Remedial Wells 20 through 22) discharge effluent water to the SRB.

(10) Oxy has not reported any water usage for the OXY Biosparge system since May 2016.

(11) Storm water runoff volume is calculated by multiplying the adjusted tributary area and NOAA precipitation data for the reporting periods. The tributary area is adjusted by the runoff coefficient to exclude the infiltration volume from the total rainfall volume. The tributary area, runoff coefficient, and adjusted tributary area are from Dvirka and Bartilucci Consulting Engineers' Storm Water Permit Evaluation Report (January, 28, 2010). The NOAA precipitation data are calculated as a sum of NOAA daily precipitation data for the reporting period. NOAA precipitation data are retrieved from Station GHCND:USW00054787 - FARMINGDALE REPUBLIC AIRPORT, NY US for April, May, and June 2025.

(12) Total flow volume to South Recharge Basins is estimated as a sum of flow volumes contributed by the effluent groundwater to South Recharge Basins (B102 and B109 treatment systems) and from storm water runoff to South Recharge Basins. Second Quarter 2025 calculated South Recharge Basin flow volume is within historical operating range.

(13) Treatment system efficiencies are calculated by dividing the difference between the remedial well flow weighted influent and effluent TVOC concentrations by the remedial well flow weighted influent concentration.

(14) RW-21 system start-up testing was initiated in May 2023, and continuing with full-scale operation beginning in August 2023. As such, flow volumes to the south recharge basins are representative of volumes from the Building 102 and Building 109 treatment systems since RW-21 system start-up.

--	Not Applicable
µg/L	micrograms per liter
gpm	gallons per minute
lbs	pounds
MG	million gallons
NOAA	National Oceanic and Atmospheric Administration
SCADA	Supervisory Controls and Data Acquisition
SPDES	State Pollution Discharge Elimination System
TCE	trichloroethene
TVOC	total volatile organic compounds
VOC	volatile organic compounds

Table 2
Concentrations of Constituents in Remedial Wells and Treatment System Effluents
Second Quarter 2025[1] Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituents[2] (units in µg/L)	CAS#	Location ID: / Sample ID: / Sample Date:	WELL 1 / WELL 1 / 5/21/2025	WELL 3R / WELL 3R / 5/21/2025	96 EFFLUENT / 96 EFFLUENT / 5/21/2025	WELL 17 / WELL 17 / 6/11/2025	WELL 18 / WELL 18 / 6/11/2025	WELL 19 / WELL 19 / 6/11/2025	102 EFFLUENT / 102 EFFLUENT / 6/11/2025
Volatile Organic Compounds (VOCs)[3]									
1,1,1-Trichloroethane	00071-55-6		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	00079-34-5		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	00079-00-5		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	00075-34-3		< 2.5	**1.4**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
1,1-Dichloroethene	00075-35-4		**2.0 J**	**4.3**	< 1.0	**0.81 J**	**1.1**	**0.69 J**	< 1.0
1,2-Dichloroethane	00107-06-2		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	00078-87-5		**1.9 J**	< 1.0	< 1.0	**0.73 J**	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	00078-93-3		< 25	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone (MBK)	00591-78-6		< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone (MIK)	00108-10-1		< 13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	00067-64-1		< 25	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	00071-43-2		< 1.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	00075-27-4		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	00075-25-2		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	00074-83-9		< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	00075-15-0		< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	00056-23-5		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	00108-90-7		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	00075-00-3		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	00067-66-3		< 2.5	**0.50 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	00074-87-3		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	00156-59-2		**4.9 J**	**3.6**	< 1.0	**2.2**	**2.0**	**3.8**	< 1.0
cis-1,3-Dichloropropene	10061-01-5		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	00124-48-1		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	00100-41-4		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	00075-09-2		< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Styrene	00100-42-5		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	00127-18-4		**9.3**	**47.2**	< 1.0	**10.6**	**14.0**	**4.7**	< 1.0
Toluene	00108-88-3		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	00156-60-5		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	10061-02-6		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene	00079-01-6		**359**	**160**	**2.1**	**110**	**21.5**	**29.9**	< 1.0
Trichlorotrifluoroethane (Freon 113)	00076-13-1		**1.6 J**	**1.9 J**	< 5.0	**0.98 J**	**0.62 J**	< 5.0	< 5.0
Vinyl Chloride	00075-01-4		< 2.5	**1.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene-o	00095-47-6		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene-m,p	179601-23-1		< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total VOCs[4]			**379**	**221**	**2.1**	**125**	**40.4**	**39.1**	ND
1,4-Dioxane[3]			**2.9**	**6.5**	**4.4**	**6.6**	**4.2**	**2.8**	**4.5**

Notes and abbreviations on last page.

Table 2
Concentrations of Constituents in Remedial Wells and Treatment System Effluents
Second Quarter 2025[(1)] Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Notes and Abbreviations:

(1) Quarterly reporting period: April 1, 2025 through June 30, 2025.

(2) Results for the program are validated at 20% frequency, per protocols specified in OU2 Groundwater Monitoring Plan (Arcadis 2016).

(3) VOC samples analyzed using USEPA Method 8260C. 1,4-Dioxane samples analyzed using USEPA Method 8270D-SIM.

(4) TVOC concentrations are rounded to the number of decimal places of the individual VOC with the least numerical precision (decimal place), including whole numbers with no decimal place.

1.4	Bold value indicates a detection
< 1.0	Compound is not detected above its laboratory quantification limit
µg/L	micrograms per liter
J	Compound detected below its reporting limit; value is estimated
ND	Not detected
OU2	Operable Unit 2
REP	Blind Replicate Sample
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

Table 3A
Vapor Sample Analytical Results,
Building 96 Treatment System,
Second Quarter 2025[1] Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituents (units in µg/m3)	Location ID: Sample ID: Sample Date:	96 INFLUENT T96 INFLUENT 5/21/2025	96 MID-EFFLUENT T96 MIDTRAIN 5/21/2025	96 EFFLUENT T96 EFFLUENT 5/21/2025
Volatile Organic Compounds (VOCs)[2]	**CAS #**			
1,1,1-Trichloroethane	00071-55-6	< 22	< 22	**15**
1,1,2,2-Tetrachloroethane	00079-34-5	< 27	< 27	< 5.5
1,1,2-Trichloroethane	00079-00-5	< 22	< 22	< 4.4
1,1-Dichloroethane	00075-34-3	**49.0**	**53.4**	**65.2**
1,1-Dichloroethene	00075-35-4	**105**	**113**	**128**
1,2-Dichloroethane	00107-06-2	< 32	< 32	< 6.5
1,2-Dichloropropane	00078-87-5	**41**	**41**	**3.7 J**
Benzene	00071-43-2	< 26	< 26	< 5.1
Bromodichloromethane	00075-27-4	< 27	< 27	< 5.4
Bromoform	00075-25-2	< 17	< 17	< 3.3
Bromomethane	00074-83-9	< 31	< 31	< 6.2
Carbon Disulfide	00075-15-0	< 25	< 25	< 5.0
Carbon Tetrachloride	00056-23-5	< 10	< 10	< 2.0
Chlorobenzene	00108-90-7	< 37	< 37	< 7.4
Chloroethane	00075-00-3	< 21	< 21	< 4.2
Chloroform	00067-66-3	< 39	**19 J**	**25**
Chloromethane	00074-87-3	< 17	< 17	< 3.3
cis-1,2-Dichloroethene	00156-59-2	**188**	**220**	**301**
cis-1,3-Dichloropropene	10061-01-5	< 36	< 36	< 7.3
Dibromochloromethane	00124-48-1	< 34	< 34	< 6.8
Ethylbenzene	00100-41-4	< 35	< 35	< 6.9
Dichloromethane	00075-09-2	< 28	< 28	< 5.6
Styrene	00100-42-5	< 34	< 34	< 6.8
Tetrachloroethene	00127-18-4	**1,060**	**77.3**	< 2.2
Toluene	00108-88-3	< 30	< 30	< 6.0
trans-1,2-Dichloroethene	00156-60-5	< 32	< 32	**3.2 J**
trans-1,3-Dichloropropene	10061-02-6	< 36	< 36	< 7.3
Trichloroethylene	00079-01-6	**13,100**	**14,900**	**1,980**
Trichlorotrifluoroethane (Freon 113)	00076-13-1	**68**	**80.5**	**97.3**
Vinyl Chloride	00075-01-4	**25**	**26.1**	**22**
Xylene-o	00095-47-6	< 35	< 35	< 6.9
Xylene-m,p	179601-23-1	< 35	< 35	< 6.9
Total VOCs [3]		**14,636**	**15,530**	**2,640**

Notes and abbreviations on last page.

Table 3A
Vapor Sample Analytical Results,
Building 96 Treatment System,
Second Quarter 2025(1) Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Notes and Abbreviations:

(1)	Quarterly reporting period: April 1, 2025 through June 30, 2025.
(2)	Vapor samples collected by Arcadis on the dates shown and submitted to a NYSDOH ELAP certified laboratory for VOC analyses per Modified USEPA Method TO-15.
(3)	TVOC concentrations are rounded to the number of decimal places of the individual VOC with the least numerical precision (decimal place), including whole numbers with no decimal place.
15	Bold value indicates a detection
< 22	Compound is not detected above its laboratory quantification limit
µg/m^3	micrograms per cubic meter
J	Compound detected below its reporting limit; value is estimated
ELAP	Environmental Laboratory Approval Program
NYSDOH	New York State Department of Health
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

Table 3B
Vapor Sample Analytical Results
Building 102 Treatment System
Second Quarter 2025[1] Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constitents (units in µg/m3)	Location ID: Sample ID: Sample Date:	102 INFLUENT 102 INFLUENT 6/11/2025	102 EFFLUENT 102 EFFLUENT 6/11/2025
Volatile Organic Componds (VOCs) [2]	**CAS #**		
1,1,1-Trichloroethane	00071-55-6	< 8.7	**1.1**
1,1,2,2-Tetrachloroethane	00079-34-5	< 11	< 0.55
1,1,2-Trichloroethane	00079-00-5	< 8.7	< 0.44
1,1-Dichloroethane	00075-34-3	**36**	**40.9**
1,1-Dichloroethene	00075-35-4	**44.0**	**50.0**
1,2-Dichloroethane	00107-06-2	< 13	< 0.65
1,2-Dichloropropane	00078-87-5	**19**	< 0.74
Benzene	00071-43-2	< 10	**0.35 J**
Bromodichloromethane	00075-27-4	< 11	< 0.54
Bromoform	00075-25-2	< 6.6	< 0.33
Bromomethane	00074-83-9	< 12	< 0.62
Carbon Dislfide	00075-15-0	< 10	< 0.50
Carbon Tetrachloride	00056-23-5	< 4.0	**0.57**
Chlorobenzene	00108-90-7	< 15	< 0.74
Chloroethane	00075-00-3	< 8.4	< 0.42
Chloroform	00067-66-3	**7.8 J**	**5.4**
Chloromethane	00074-87-3	< 6.6	**1.4**
cis-1,2 Dichloroethene	00156-59-2	**171**	**35**
cis-1,3-Dichloropropene	10061-01-5	< 15	< 0.73
Dibromochloromethane	00124-48-1	< 14	< 0.68
Ethylbenzene	00100-41-4	< 14	< 0.69
Dichloromethane	00075-09-2	< 11	**4.5**
Styrene	00100-42-5	< 14	< 0.68
Tetrachloroethene	00127-18-4	**505**	**0.75**
Toluene	00108-88-3	< 12	**0.49 J**
trans-1,2-Dichloroethene	00156-60-5	< 13	**0.79**
trans-1,3-Dichloropropene	10061-02-6	< 15	< 0.73
Trichloroethylene	00079-01-6	**3,350**	**12**
Trichlorotrifloroethane (Freon 113)	00076-13-1	**31**	**34**
Vinyl Chloride	00075-01-4	< 1.6	< 0.082
Xylene-o	00095-47-6	< 14	< 0.69
Xylene-m,p	179601-23-1	< 14	< 0.69
Total VOCs [3]		**4,164**	**187**

Notes and abbreviations on last page.

Table 3B
Vapor Sample Analytical Results
Building 102 Treatment System
Second Quarter 2025(1) Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Notes and Abbreviations:

(1) Quarterly reporting period: April 1, 2025 through June 30, 2025.

(2) Vapor samples collected by Arcadis on the dates shown and submitted to a NYSDOH ELAP certified laboratory for VOC analyses per Modified USEPA Method TO-15.

(3) TVOC concentrations are rounded to the number of decimal places of the individual VOC with the least numerical precision (decimal place), including whole numbers with no decimal place.

1.1	Bold value indicates a detection
< 11	Compound is not detected above its laboratory quantification limit
µg/m^3	micrograms per cubic meter
J	Compound detected below its reporting limit; value is estimated
ELAP	Environmental Laboratory Approval Program
NYSDOH	New York State Department of Health
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

Table 4A
Rule 212 Evaluation
Building 96 Treatment System
Second Quarter 2025(1) Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Project VOCs	CAS#	HTAC[2]	Building 96 Treatment System Effluent Conc. (ug/m3)[3]	Building 96 Emissions (lb/yr)[4]	Rule 212 Limit (lb/yr)[5]	Rule 212 Evaluation[6]	Further evaluation Required?[6]
1,1,1-Trichloroethane	71-55-6	No	15	2.200	100	Less than limit, Rule 212 compliant	N
1,1-Dichloroethane	75-34-3	No	65.2	9.564	100	Less than limit, Rule 212 compliant	N
1,1-Dichloroethene	75-35-4	No	128	18.776	100	Less than limit, Rule 212 compliant	N
1,2-Dichloropropane	78-87-5	No	3.7	0.543	100	Less than limit, Rule 212 compliant	N
Chloroform	67-66-3	Yes	25	3.667	100	Less than limit, Rule 212 compliant	N
cis-1,2 Dichloroethene	156-59-2	No	301	44.154	100	Less than limit, Rule 212 compliant	N
trans-1,2-Dichloroethene	156-60-5	No	3.2	0.469	100	Less than limit, Rule 212 compliant	N
Trichloroethylene	79-01-6	Yes	1,980	290.446	500	Less than limit, Rule 212 compliant	N
Trichlorotrifluoroethane (Freon 113)	76-13-1	No	97.3	14.273	100	Less than limit, Rule 212 compliant	N
Vinyl Chloride	75-01-4	Yes	22	3.227	100	Less than limit, Rule 212 compliant	N

Flowrates and Normalized Modeling Impacts

Description	Flow (cfm)	AERMOD Normalized Ambient Impact at 1 g/s	
		Hourly ([µg/m^3]/[g/s])	Annual ([µg/m^3]/[g/s])
Building 96	4,480	148.1	4.3

Notes and Abbreviations:

(1) Quarterly reporting period: April 1, 2025 through June 30, 2025.

(2) High toxicity air contaminant (HTAC) based on 6 CRR-NY Rule 212-2.2, Table 2 – High Toxicity Air Contaminant List.

(3) Effluent concentrations based on sampling performed in the quarterly reporting period. Compounds not detected above the laboratory reporting limit are excluded from the air quality impact analysis summary.

(4) Emission rate calculated based on maximum effluent concentration and maximum air flow rates measured during the sampling events. Emission rate standardized at 70 ^{o}F and 1 atm.

Trichloroethylene (lb/yr) = Trichloroethylene [µg/m^3] x Air Flow Rate [ft^3/min] x (1 m^3/35.3147 ft^3) x (60 min/hr) x (0.000001 g/1 µg) x (0.0022 lb/g) x 8,760 hrs/yr

(5) 100 lb/yr for non-HTACs, and mass emission limits based on Rule 212-2.2, Table 2 for HTACs.

(6) For HTACs, no further demonstration is required if the actual emissions are less than mass emission limit. For non-HTACs, no further demonstration is required if the actual emissions are less than 100 lbs/yr.

SGC Short-Term Guideline Concentrations
AGC Annual Guideline Concentrations

Table 4B
Rule 212 Evaluation
Building 102 Treatment System
Second Quarter 2025[1] Reporting Period
Operable Unit 2
Northrop Grumman
Bethpage, New York

Project VOCs	CAS#	HTAC[2]	Building 102 Treatment System Effluent Conc. (ug/m3)[3]	Building 102 Emissions (lb/yr)[4]	Rule 212 Limit (lb/yr)[5]	Rule 212 Evaluation[6]	Further evaluation Required?[6]
1,1,1-Trichloroethane	71-55-6	No	1.1	0.278	100	Less than limit, Rule 212 compliant	N
1,1-Dichloroethane	75-34-3	No	40.9	10.325	100	Less than limit, Rule 212 compliant	N
1,1-Dichloroethene	75-35-4	No	50.0	12.623	100	Less than limit, Rule 212 compliant	N
Benzene	71-43-2	Yes	0.35	0.088	100	Less than limit, Rule 212 compliant	N
Carbon Tetrachloride	56-23-5	Yes	0.57	0.144	100	Less than limit, Rule 212 compliant	N
Chloroform	67-66-3	Yes	5.4	1.363	100	Less than limit, Rule 212 compliant	N
Chloromethane	74-87-3	No	1.4	0.353	100	Less than limit, Rule 212 compliant	N
cis-1,2 Dichloroethene	156-59-2	No	35	8.836	100	Less than limit, Rule 212 compliant	N
Methylene Chloride	75-09-2	No	4.5	1.136	100	Less than limit, Rule 212 compliant	N
Tetrachloroethene	127-18-4	Yes	0.75	0.189	1,000	Less than limit, Rule 212 compliant	N
Toluene	108-88-3	No	0.49	0.124	100	Less than limit, Rule 212 compliant	N
trans-1,2-Dichloroethene	156-60-5	No	0.79	0.199	100	Less than limit, Rule 212 compliant	N
Trichloroethylene	79-01-6	Yes	12	3.029	500	Less than limit, Rule 212 compliant	N
Trichlorotrifluoroethane (Freon 113)	76-13-1	No	34	8.583	100	Less than limit, Rule 212 compliant	N

Flowrates and Normalized Modeling Impacts

Description	Flow (cfm)	AERMOD Normalized Ambient Impact at 1 g/s	
		Hourly ([µg/m^3]/[g/s])	Annual ([µg/m^3]/[g/s])
Building 102	7,710	348.9	2.3

Notes and Abbreviations:

(1) Quarterly reporting period: April 1, 2025 through June 30, 2025.

(2) High toxicity air contaminant (HTAC) based on 6 CRR-NY Rule 212-2.2, Table 2 – High Toxicity Air Contaminant List.

(3) Effluent concentrations based on sampling performed in the quarterly reporting period. Compounds not detected above the laboratory reporting limit are excluded from the air quality impact analysis summary.

(4) Emission rate calculated based on maximum effluent concentration and maximum air flow rates measured during the sampling events. Emission rate standardized at 70 ^{o}F
Trichloroethylene (lb/yr) = Trichloroethylene [µg/m^3] x Air Flow Rate [ft^3/min] x (1 m^3/35.3147 ft^3) x (60 min/hr) x (0.000001 g/1 µg) x (0.0022 lb/g) x 8,760 hrs/yr

(5) 100 lb/yr for non-HTACs, and mass emission limits based on Rule 212-2.2, Table 2 for HTACs.

(6) For HTACs, no further demonstration is required if the actual emissions are less than mass emission limit. For non-HTACs, no further demonstration is required if the actual emissions are less than 100 lbs/yr.

SGC Short-Term Guideline Concentrations
AGC Annual Guideline Concentrations

Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	FW-03 4/8/2025 FW-03	GM-13D 4/17/2025 GM-13D	GM-13D 4/17/2025 REP041725BM1	GM-15SR 4/15/2025 GM-15SR	GM-15I 4/15/2025 GM-15I	GM-15D 4/15/2025 GM-15D	GM-15D 4/15/2025 REP041525AH1
Volatile Organic Compounds (VOCs)[1, 2]								
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		<1.0	**1.0**	**1.0**	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		<1.0	**0.82 J**	**0.78 J**	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)		<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone		<10	<10	<10	<10	<10	<10	<10
Benzene		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene		<1.0	**2.3**	**2.3**	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		**0.61 J**	**11.5**	**12.0**	<1.0	<1.0	<1.0	<1.0
Toluene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		**1.1**	**8.2**	**8.1**	**0.75 J**	**0.91 J**	**0.66 J**	**0.64 J**
Vinyl chloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs [3]		**1.7**	**23.8**	**24.2**	**0.75**	**0.91**	**0.66**	**0.64**
1,4 Dioxane [1,2]		<0.23	**2.0**	**1.9**	<0.25	**2.6**	<0.25	<0.25

See notes on last page

Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	GM-15D2 4/15/2025 GM-15D2	GM-17I 4/8/2025 GM-17I	GM-17D 4/8/2025 GM-17D	GM-18I 5/6/2025 GM-18I	GM-18D 5/6/2025 GM-18D	GM-20I 5/6/2025 GM-20I	GM-20D 5/6/2025 GM-20D	GM-21S 5/7/2025 GM-21S
Volatile Organic Compounds (VOCs)[1, 2]									
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)		<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone		<10	<10	<10	<10	<10	<10	<10	<10
Benzene		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		**2.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		**4.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs [3]		**7.0**	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane [1,2]		**2.0**	**5.5**	**5.9**	**4.5**	**6.3**	**2.9**	**2.4**	**2.1**

See notes on last page

Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	GM-21I 5/7/2025 GM-21I	GM-21D 5/7/2025 GM-21D	GM-21D2 5/7/2025 GM-21D2	GM-33D2 4/9/2025 GM-33D2	GM-34D 4/8/2025 GM-34D	GM-34D2 4/8/2025 GM-34D2	GM-35D2 5/6/2025 GM-35D2	GM-36D 5/7/2025 GM-36D
Volatile Organic Compounds (VOCs)[1, 2]									
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)		<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone		<10	<10	<10	<10	<10	<10	<10	<10
Benzene		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	**2.9**	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		<1.0	<1.0	<1.0	**0.58 J**	**3.6**	**2.8**	**2.9**	<1.0
Toluene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		<1.0	<1.0	**3.2**	**4.6**	**66.4**	**17.6**	**11.5**	<1.0
Vinyl chloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs [3]		ND	ND	**3.2**	**5.2**	**72.9**	**20.4**	**14.4**	ND
1,4 Dioxane [1,2]		**3.0**	**2.7**	**4.6**	**12**	**7.8**	**7.1**	**6.8**	**1.7**

See notes on last page

Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	GM-36D2 5/7/2025 GM-36D2	GM-37D 5/6/2025 GM-37D	GM-37D2 5/6/2025 GM-37D2	GM-38D 4/17/2025 GM-38D	GM-38D2 4/17/2025 GM-38D2	GM-39DA 4/8/2025 GM-39DA	GM-39DB 4/8/2025 GM-39DB	GM-70D2 5/7/2025 GM-70D2
Volatile Organic Compounds (VOCs)[1, 2]									
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		<1.0	<1.0	<1.0	<1.0	**2.5**	<1.0	<1.0	<1.0
1,1-Dichloroethene		<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	**0.75 J**	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)		<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone		<10	<10	<10	<10	<10	<10	<10	<10
Benzene		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene		<1.0	<1.0	<1.0	**0.64 J**	**1.3**	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		<1.0	<1.0	**1.1**	**1.2**	<1.0	<1.0	<1.0	**1.5**
Toluene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		**2.7**	**4.9**	**1.0**	**111**	**144**	**2.7**	**22.9**	**5.4**
Vinyl chloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs [3]		**2.7**	**4.9**	**2.1**	**114**	**149**	**2.7**	**22.9**	**6.9**
1,4 Dioxane [1,2]		**4.6**	**0.35**	**0.59**	**2.2**	**2.8**	**1.8**	**2.6**	**5.7**

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Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	GM-71D2 4/16/2025 GM-71D2	GM-73D 4/7/2025 GM-73D	GM-73D2 4/7/2025 GM-73D2	GM-73D2 4/7/2025 REP040725SH1	GM-73D3 [4] 4/7/2025 GM-73D3	GM-73D3 [4] 5/13/2025 GM-73D3	GM-74I 4/7/2025 GM-74I	GM-74D 4/7/2025 GM-74D
Volatile Organic Compounds (VOCs)[1, 2]									
1,1,1-Trichloroethane		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	<25	<25	<25	<25	<5.0	<25	<25
1,1,2-Trichloroethane		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,1-Dichloroethane		**0.99 J**	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,1-Dichloroethene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,2-Dichloroethane		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
1,2-Dichloropropane		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
2-Butanone (MEK)		<10	<50	<50 J	<50 J	<50	<10	<50	<50
4-Methyl-2-Pentanone		<5.0	<25	<25	<25	<25	<5.0	<25	<25
Acetone		<10	<50	<50	<50	<50	<10	<50	<50
Benzene		<0.50	<2.5	<2.5	<2.5	<2.5	<0.50	<2.5	<2.5
Bromodichloromethane		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Bromoform		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Bromomethane		<2.0	<10	<10	<10	<10	<2.0	<10	<10
Carbon Disulfide		<2.0	<10	<10	<10	<10	<2.0	<10	<10
Carbon Tetrachloride		<1.0	<5.0	<5.0 J	<5.0 J	<5.0	<1.0	<5.0	<5.0
Chlorobenzene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Chlorodibromomethane		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Chloroethane		<1.0	<5.0 J	<5.0	<5.0	<5.0 J	<1.0	<5.0 J	<5.0 J
Chloroform		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Chloromethane		<1.0	<5.0 J	<5.0 J	<5.0 J	<5.0 J	<1.0	<5.0 J	<5.0 J
cis-1,2-Dichloroethene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
cis-1,3-Dichloropropene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Dichloromethane		<2.0	<10	<10	<10	<10	<2.0	<10	<10
Ethylbenzene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
m&p-Xylenes		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<25	<25	<25	<25	<5.0	<25	<25
o-Xylene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Styrene (Monomer)		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Tetrachloroethene		<1.0	**6.5**	<5.0	<5.0	**6.3**	**1.6**	<5.0	<5.0
Toluene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
trans-1,2-Dichloroethene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
trans-1,3-Dichloropropene		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Trichloroethene		**6.6**	**8.7**	**47.6**	**48.7**	**484**	**1.7**	<5.0	**6.2**
Vinyl chloride		<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Total VOCs [3]		**7.6**	**15.2**	**47.6**	**48.7**	**490**	**3.3**	ND	**6.2**
1,4 Dioxane [1,2]		**2.4**	**1.1**	**3.3**	**3.7**	**0.69**	**--**	**2.5**	**4.5**

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Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	GM-74D2 4/7/2025 GM-74D2	GM-74D3 4/7/2025 GM-74D3	GM-75D2 4/9/2025 GM-75D2	GM-78S 4/16/2025 GM-78S	GM-78I 4/16/2025 GM-78I	GM-78D 4/16/2025 GM-78D	GM-78D2 4/16/2025 GM-78D2	GM-79I 4/9/2025 GM-79I
Volatile Organic Compounds (VOCs)[1, 2]									
1,1,1-Trichloroethane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	**3.9 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		**1.1**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		**0.69 J**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)		<10 J	<50 J	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone		<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone		<10	<50	<10	<10	<10	<10	<10	<10
Benzene		<0.50	<2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane		<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide		<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride		<1.0 J	<5.0 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0 J	<5.0 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene		**1.6**	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane		<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		**7.0**	**23.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		**14.3**	**22.8**	**6.4**	**0.79 J**	**1.3**	**0.59 J**	**0.69 J**	<1.0
Vinyl chloride		<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs [3]		**24.7**	**49.8**	**6.4**	**0.79**	**1.3**	**0.59**	**0.69**	ND
1,4 Dioxane [1,2]		**1.9**	**2.1**	**6.9**	**5.3**	**4.5**	**8.2**	**8.5**	**4.6**

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Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	GM-79D 4/9/2025 GM-79D	HN-24I 4/17/2025 HN-24I	HN-40S 4/16/2025 HN-40S	HN-40I 4/16/2025 HN-40I	HN-42S 4/14/2025 HN-42S	HN-42I 4/14/2025 HN-42I	MW-3-1 4/14/2025 MW-3-1	N-10624 4/9/2025 N-10624
Volatile Organic Compounds (VOCs)[1, 2]									
1,1,1-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**1.2 J**	<5.0
1,1,2-Trichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		<1.0	**0.97 J**	<1.0	<1.0	<1.0	<1.0	1.7	<1.0
1,1-Dichloroethene		<1.0	**0.87 J**	<1.0	<1.0	<1.0	<1.0	2.9	<1.0
1,2-Dichloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)		<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone		<10	<10	<10	<10	<10	<10	<10	<10
Benzene		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10.6**	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		<1.0	**3.0**	<1.0	<1.0	<1.0	<1.0	**16.1**	<1.0
Toluene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		**11.2**	**6.0**	<1.0	<1.0	<1.0	<1.0	**122**	<1.0
Vinyl chloride		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**45.1**	<1.0
Total VOCs [3]		**11.2**	**10.8**	ND	ND	ND	ND	**200**	ND
1,4 Dioxane [1,2]		**4.8**	**0.92**	<0.23	<0.24	<0.23	<0.23	**7.4**	**3.9**

See notes on last page

Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	N-10627 4/9/2025 N-10627	N-10631R 4/9/2025 N-10631R
Volatile Organic Compounds (VOCs)[1, 2]			
1,1,1-Trichloroethane		<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane (Freon113)		<5.0	<5.0
1,1,2-Trichloroethane		<1.0	<1.0
1,1-Dichloroethane		<1.0	<1.0
1,1-Dichloroethene		<1.0	<1.0
1,2-Dichloroethane		<1.0	<1.0
1,2-Dichloropropane		<1.0	<1.0
2-Butanone (MEK)		<10	<10
4-Methyl-2-Pentanone		<5.0	<5.0
Acetone		<10	<10
Benzene		<0.50	<0.50
Bromodichloromethane		<1.0	<1.0
Bromoform		<1.0	<1.0
Bromomethane		<2.0	<2.0
Carbon Disulfide		<2.0	<2.0
Carbon Tetrachloride		<1.0	<1.0
Chlorobenzene		<1.0	<1.0
Chlorodibromomethane		<1.0	<1.0
Chloroethane		<1.0	<1.0
Chloroform		<1.0	<1.0
Chloromethane		<1.0	<1.0
cis-1,2-Dichloroethene		<1.0	<1.0
cis-1,3-Dichloropropene		<1.0	<1.0
Dichloromethane		<2.0	<2.0
Ethylbenzene		<1.0	<1.0
m&p-Xylenes		<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	<5.0
o-Xylene		<1.0	<1.0
Styrene (Monomer)		<1.0	<1.0
Tetrachloroethene		<1.0	<1.0
Toluene		<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	<1.0
Trichloroethene		<1.0	<1.0
Vinyl chloride		<1.0	<1.0
Total VOCs [3]		ND	ND
1,4 Dioxane [1,2]		**4.1**	**2.3**

See notes on last page

Table 5
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Monitoring Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Notes and Abbreviations:

(1) Samples were analyzed for VOCs using USEPA Method 8260C. Samples were analyzed for 1,4-dioxane using USEPA Method 8270D-SIM.

(2) Results for the program are validated at 20% frequency, per protocols specified in OU2 Groundwater Monitoring Plan (Arcadis 2016).

(3) TVOC concentrations are rounded to the number of decimal places of the individual VOC with the least precision (decimal places), including whole numbers with no decimal place.

(4) GM-73D3 was resampled on May 13, 2025 due to elevated trichloroethylene (TCE) levels detected in the April 7, 2025 laboratory results. The resampling confirmed that the April 7 TCE data was elevated and anomalous when compared to the well's historical record. As a result, the May 13, 2025 data is used for evaluation purposes, although both sets of data are presented in the table. 1,4-Dioxane was not resampled on May 13, 2025, as its concentrations were consistent with previous data for this well.

Bold	Constituent detected
J	Constituent value is estimated
REP	Blind Replicate Sample
µg/L	Micrograms per liter
VOCs	Volatile Organic Compounds
<1.0	Compound not detected above its laboratory quanitfication limit
ND	Not Detected

Table 6
Concentrations of Metals and 1,4-Dioxane in Monitoring Wells[1,2]
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituent (units in µg/L)	Well ID: Sample ID: Date:	GM-15SR GM-15SR 4/15/2025	GM-78S GM-78S 4/16/2025	GM-78I GM-78I 4/16/2025	MW-01GF MW-01GF 4/14/2025	MW-02GF MW-02GF 4/14/2025	N-10631R N-10631R 4/9/2025	PLT1 MW-04 PLT1 MW-04 4/15/2025	PLT1 MW-05 PLT1 MW-05 4/15/2025	PLT1 MW-06 PLT1 MW-06 4/15/2025
Metals [2]										
Cadmium (Total)		--	<3.0	<3.0	<3.0	<3.0	<3.0	--	--	--
Cadmium (Dissolved)		--	<3.0	<3.0	<3.0	<3.0	<3.0	--	--	--
Chromium (Total)		**299**	<10	<10	<10	**25.4**	**20.4**	<10	**159**	**99.4**
Chromium (Dissolved)		**268**	<10	<10	<10	**21.3**	**18.7**	<10	**157**	**82.4**
1,4-Dioxane [3]		<0.25	**5.3**	**4.5**	**5.3**	**5.0**	**2.3**	<0.25	<0.23	<0.25

Notes and Abbreviations:

(1) Results for the program are validated at 20% frequency, per protocols specified in OU2 Groundwater Monitoring Plan (Arcadis 2016).
(2) Samples analyzed for total unfiltered and dissolved filtered cadium and chromium using USEPA Method 6010C.
(3) Samples were analyzed for 1,4-dioxane using USEPA Method 8270D-SIM.

µg/L Micrograms per liter
-- Not analyzed
<3.0 Compound not detected above its laboratory quanitfication limit
Bold Constituent detected

Table 7
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Outpost Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituents (units in ug/L)	Well ID: Sample ID: Date:	BPOW 1-1 BPOW 1-1 4/30/2025	BPOW 1-2 BPOW 1-2 4/30/2025	BPOW 1-3 BPOW 1-3 4/30/2025	BPOW 1-4 BPOW 1-4 4/30/2025
Volatile Organic Constituents [1,2]					
1,1,1-Trichloroethane		<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane		<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane		<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene		<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane		<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane		<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)		<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone		<2.0	<2.0	<2.0	<2.0
Acetone		<5.0	<5.0	<5.0	<5.0
Benzene		<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<0.50	<0.50	<0.50	<0.50
Bromoform		<0.50	<0.50	<0.50	<0.50
Bromomethane		<0.50	<0.50	<0.50	<0.50
Carbon Disulfide		<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride		<0.50	<0.50	<0.50	<0.50
Chlorobenzene		<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane		<0.50	<0.50	<0.50	<0.50
Chloroethane		<0.50	<0.50	<0.50	<0.50
Chloroform		<0.50	<0.50	<0.50	<0.50
Chloromethane		<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene		<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Dichloromethane		<0.50	<0.50	<0.50	<0.50
Ethylbenzene		<0.50	<0.50	<0.50	<0.50
m&p-Xylenes		<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)		<2.0	<2.0	<2.0	<2.0
o-Xylene		<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)		<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		<0.50	<0.50	<0.50	<0.50
Toluene		<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene		<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Trichloroethene		**0.77**	**0.65**	<0.50	<0.50
Vinyl chloride		<0.50	<0.50	<0.50	<0.50
TVOCs [3]		**0.77**	**0.65**	ND	ND
1,4 Dioxane [1,2]		<0.20	<0.20	<0.20	**0.29**

See notes and abbreviations on last page.

Table 7
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Outpost Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituents (units in ug/L)	Well ID: Sample ID: Date:	BPOW 1-5 BPOW 1-5 4/30/2025	BPOW 1-6 BPOW 1-6 4/30/2025	BPOW 2-1 BPOW 2-1 5/1/2025	BPOW 2-2 BPOW 2-2 5/1/2025
Volatile Organic Constituents [1,2]					
1,1,1-Trichloroethane		<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane		<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane		<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene		<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane		<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane		<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)		<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone		<2.0	<2.0	<2.0	<2.0
Acetone		<5.0	<5.0	<5.0	<5.0
Benzene		<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<0.50	<0.50	<0.50	<0.50
Bromoform		<0.50	<0.50	<0.50	<0.50
Bromomethane		<0.50	<0.50	<0.50	<0.50
Carbon Disulfide		<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride		<0.50	<0.50	<0.50	<0.50
Chlorobenzene		<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane		<0.50	<0.50	<0.50	<0.50
Chloroethane		<0.50	<0.50	<0.50	<0.50
Chloroform		<0.50	<0.50	<0.50	<0.50
Chloromethane		<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene		<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Dichloromethane		<0.50	<0.50	<0.50	<0.50
Ethylbenzene		<0.50	<0.50	<0.50	<0.50
m&p-Xylenes		<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)		<2.0	<2.0	<2.0	<2.0
o-Xylene		<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)		<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		<0.50	<0.50	<0.50	<0.50
Toluene		<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene		<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Trichloroethene		<0.50	<0.50	<0.50	<0.50
Vinyl chloride		<0.50	<0.50	<0.50	<0.50
TVOCs [3]		ND	ND	ND	ND
1,4 Dioxane [1,2]		<0.20	<0.20	**2.0**	**0.55**

See notes and abbreviations on last page.

Table 7
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Outpost Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituents (units in ug/L)	Well ID: Sample ID: Date:	BPOW 2-3 BPOW 2-3 5/1/2025	BPOW 3-1 BPOW 3-1 5/5/2025	BPOW 3-2 BPOW 3-2 5/5/2025	BPOW 3-3 BPOW 3-3 6/27/2025
Volatile Organic Constituents [1,2]					
1,1,1-Trichloroethane		<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)		<1.0	<1.0	<1.0	**0.98 J**
1,1,2-Trichloroethane		<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane		<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene		<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane		<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane		<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)		<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone		<2.0	<2.0	<2.0	<2.0
Acetone		<5.0	<5.0	<5.0	<5.0
Benzene		<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<0.50	<0.50	<0.50	<0.50
Bromoform		<0.50	<0.50	<0.50	<0.50
Bromomethane		<0.50	<0.50	<0.50	<0.50
Carbon Disulfide		<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride		<0.50	<0.50	<0.50	<0.50
Chlorobenzene		<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane		<0.50	<0.50	<0.50	<0.50
Chloroethane		<0.50	<0.50	<0.50	<0.50
Chloroform		<0.50	<0.50	<0.50	<0.50
Chloromethane		<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene		<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Dichloromethane		<0.50	<0.50	<0.50	<0.50
Ethylbenzene		<0.50	<0.50	<0.50	<0.50
m&p-Xylenes		<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)		<2.0	<2.0	<2.0	<2.0
o-Xylene		<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)		<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		<0.50	<0.50	<0.50	<0.50
Toluene		<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene		<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Trichloroethene		<0.50	<0.50	<0.50	<0.50
Vinyl chloride		<0.50	<0.50	<0.50	<0.50
TVOCs [3]		ND	ND	ND	**0.98**
1,4 Dioxane [1,2]		**3.6**	**0.69**	**3.5**	**7.7**

See notes and abbreviations on last page.

Table 7
Concentrations of Volatile Organic Compounds and 1,4 Dioxane in Outpost Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage, New York

Constituents (units in ug/L)	Well ID: Sample ID: Date:	BPOW 3-4 BPOW 3-4 6/27/2025	BPOW 4-1R BPOW 4-1R 5/1/2025	BPOW 4-2R BPOW 4-2R 5/1/2025	BPOW 4-2R REP050125SH1 5/1/2025
Volatile Organic Constituents [1,2]					
1,1,1-Trichloroethane		**0.88**	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane		<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)		**12.4**	**30.4**	**36.5**	**37.9**
1,1,2-Trichloroethane		**1.6**	<0.50	<0.50	<0.50
1,1-Dichloroethane		**1.6**	<0.50	<0.50	<0.50
1,1-Dichloroethene		**11.8**	**0.86**	**0.77**	**0.83**
1,2-Dichloroethane		**0.25 J**	<0.50	<0.50	<0.50
1,2-Dichloropropane		<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)		<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone		<2.0	<2.0	<2.0	<2.0
Acetone		<5.0	<5.0	<5.0	<5.0
Benzene		<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		<0.50	<0.50	<0.50	<0.50
Bromoform		<0.50	<0.50	<0.50	<0.50
Bromomethane		<0.50	<0.50	<0.50	<0.50
Carbon Disulfide		<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride		**0.64**	**0.30 J**	**0.26 J**	**0.26 J**
Chlorobenzene		<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane		<0.50	<0.50	<0.50	<0.50
Chloroethane		<0.50	<0.50	<0.50	<0.50
Chloroform		**1.9**	**0.74**	<0.50	<0.50
Chloromethane		<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene		**2.5**	**0.36 J**	**0.30 J**	**0.33 J**
cis-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Dichloromethane		<0.50	<0.50	<0.50	<0.50
Ethylbenzene		<0.50	<0.50	<0.50	<0.50
m&p-Xylenes		<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)		<2.0	<2.0	<2.0	<2.0
o-Xylene		<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)		<0.50	<0.50	<0.50	<0.50
Tetrachloroethene		<0.50	<0.50	**1.6**	**1.6**
Toluene		<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene		<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene		<0.50	<0.50	<0.50	<0.50
Trichloroethene		**283**	**1.4**	**4.2**	**4.3**
Vinyl chloride		<0.50	<0.50	<0.50	<0.50
TVOCs [3]		**317**	**34.1**	**43.6**	**45.2**
1,4 Dioxane [1,2]		**17.8**	**5.2**	**2.8**	**2.7**

See notes and abbreviations on last page.

Table 7
Concentrations of Volatile Organic Compounds
and 1,4 Dioxane in Outpost Wells
Second Quarter 2025
Operable Unit 2
Northrop Grumman
Bethpage,New York

Notes and Abbreviations:

(1) Samples were analyzed for VOCs using USEPA Method 524.2. Samples were analyzed for 1,4-dioxane using USEPA Method 522.

(2) Results for the program are validated at 20% frequency, per protocols specified in OU2 Groundwater Monitoring Plan (Arcadis 2016).

(3) TVOC concentrations are rounded to the number of decimal places of the individual VOC with the least precision (decimal places), including whole numbers with no decimal place.

Bold	Value indicates constituent detected
TVOCs	Total Volatile Organic Compounds
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
µg/L	micrograms per liter
<0.5	Compound not detected above its laboratory quantification limit
J	Value is estimated concentration
ND	Not Detected
REP	Blind Duplicate Sample

Figures

C:\Users\jlharris\ACCDocs\Arcadis\AUS-NORTHROP GRUMMAN-BETHPAGE-BETHPAGE New York\Project Files\2022\01-In Progress\01-DWG\OU2 2021-FIG1-WELL LOC-BRACKETS.dwg LAYOUT: 1 SAVED: 9/19/2022 4:20 PM ACADVER: 24.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/23/2022 1:00 PM BY: HARRIS, JESS
XREFS: IMAGES: PROJECTNAME: ----
X-LI-NY_R2.dwg Arcadis Logo_2021.PNG
Xr1496X01

HWD 10208
HWD 8779
BWD 8768
BWD 8767
BWD 9591
HAYPATH ROAD
FARMERS AVENUE
(PLAINVIEW ROAD)
(107)
FORMER U.S. NAVY SITE
PLANT 111
PLANT 35
PLANT 116
PLANT 115
PLANT 21
PLANT 37
PLANT 15
PLANT 14
PLANT 26
PLANT 30
PLANT 12
PLANT 12A
PLANT 3
PLANT 10
FW-03
BETHPAGE HIGH SCHOOL
HN-24I
HN-24S
HN-42S
HN-42I
PLANT 25
PLANT 5
GM-13D
GM-16I
GM-16SR
HN-40S
HN-40I
UPGRADIENT OF OU2 ONCT SYSTEM
BROADWAY
MW-3-1
WELL 3R
10597
WELL 3
GM-17SR
GM-17I
GM-17D
OU2 MAIN FACILITY REMEDIAL SYSTEM (TOWER 96)
OU2 MAIN FACILITY REMEDIAL SYSTEM (TOWER 102)
MW-1GF
GM-32S
PLANT 2
GRUMMAN ROAD
WELL 1
GM-19S
GM-19I
PLANT 1
MW-5
MW-6
MW-4
GM-15SR
GM-15I
GM-15D
GM-15D2
GM-39DA
GM-39DB
MW-2GF
GM-18S
GM-18I
GM-18D
GM-73D3
GM-73D2
GM-73D
GM-74I
GM-74D
GM-74D2
GM-74D3
WELL-18
WELL-19
GM-33D2
10631
WELL-17
MW-3R
RE123
PROXIMATE TO OU2 ONCT SYSTEM
LONG ISLAND RAILROAD
10600
GM-78S
GM-78I
GM-78D
GM-78D2
RE106
GM-20I
GM-20D
GM-21D2
10633
CENTRAL AVENUE
9921
RE107
GM-75D2
10624
GM-21S
GM-21I
GM-21D
RE126
GM-79I
GM-79D
10628
RE109
10627
10634
RE122
GM-71D2
GM-37D
GM-37D2
NEAR CENTRAL DOWNGRADIENT OF OU2 ONCT SYSTEM
BLOOMINGDALE ROAD
NORTH WANTAGH AVE.
RE108
GM-70D2
GM-35D2
GM-36D
GM-36D2
N-10821
BWD 6915
6916
FAR CENTRAL DOWNGRADIENT OF OU2 ONCT SYSTEM
MALLARD ROAD
BWD 8941
3876
GM-38D
GM-38D2
GM-34D
GM-34D2
HICKSVILLE ROAD
STEWART AVENUE
BWD 8004
(GARDINER'S AVENUE)
LOWLAND ROAD
SEAFORD - OYSTER BAY EXPRESSWAY
STHPAGE STATE PARKWAY
TOH(LWD) 7076
PIKE
BPOW 1-4
BPOW 1-5
BPOW 1-6
BPOW 1-3
BPOW 1-1
BPOW 1-2
SFWD 7377
SFWD 5148
SFWD 4043
BOUNDARY AVENUE
BPOW 4-2R
BPOW 4-1R
TOH(LWD) 5303
BPOW 2-2
BPOW 2-3
BPOW 2-1
SFWD 6150
BPOW 3-3
BPOW 3-4
BPOW 3-2
BPOW 3-1
NYAW 9338
NYAW 8480
HICKSVILLE

0 1000' 2000'
APPROXIMATE SCALE IN FEET

EXPLANATION

- PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE
- PROPERTY BOUNDARY OF THE FORMER NAVY SITE
- PROPERTY BOUNDARY OF THE FORMER OXY/RUCO SITE
- LONG ISLAND RAILROAD
- DENOTES NORTHROP GRUMMAN OWNED PROPERTY (AS OF 2022)
- DENOTES NAVY OWNED PROPERTY (AS OF 2014)
- DENOTES FORMER NAVY OWNED PROPERTY
- RECHARGE BASIN
- 10592 OBSERVATION/MONITORING/OUTPOST WELL (1)
- 9591 PUBLIC SUPPLY WELL (2)
- WELL-17 NORTHROP GRUMMAN REMEDIAL WELL
- RE108 SUPPLEMENTAL NAVY MONITORING WELL
- PART OF ON-SITE REMEDY
- NWIRP NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
- TOH (LWD) TOWN OF HEMPSTEAD LEVITOWN WATER DISTRICT
- HWD HICKSVILLE WATER DISTRICT
- SFWD SOUTH FARMINGDALE WATER DISTRICT
- BWD BETHPAGE WATER DISTRICT
- NYAW NEW YORK AMERICAN WATER

NOTE:

(1) THIS FIGURE DEPICTS OBSERVATION/MONITORING/OUTPOST WELLS INCLUDED IN THE OU-2 GROUNDWATER MONITORING PROGRAM.

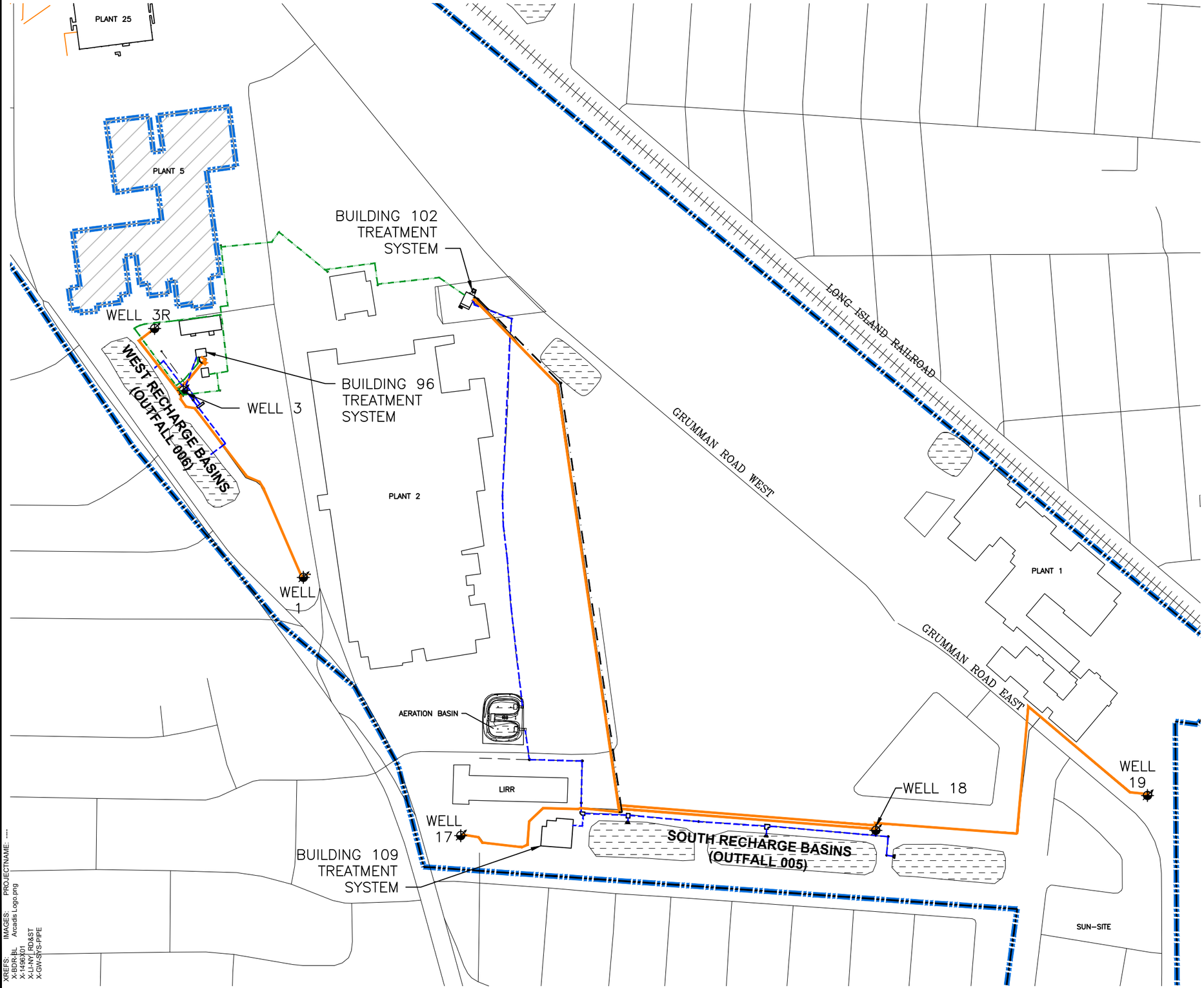
(2) PUBLIC SUPPLY WELLS ARE NOT SAMPLED AS A PART OF THE OU2 GROUNDWATER MONITORING PROGRAM AND ARE ONLY FOR REFERENCE.

NORTHROP GRUMMAN SYSTEMS CORPORATION
BETHPAGE, NEW YORK
OPERABLE UNIT 2

LOCATIONS OF OF WELLS AND ON-SITE GROUNDWATER REMEDY

ARCADIS

FIGURE 1



LEGEND:

- FORMER NORTHROP GRUMMAN PROPERTY LINE
- INFLUENT LINE
- BYPASS
- STORM DRAIN (EFFLUENT)
- NON POTABLE WATER DISTRIBUTION LINE (EFFLUENT)
- RAILROAD TRACKS
- FENCE
- WELL 18 — REMEDIAL WELL
- BASIN
- ONCT — ON–SITE CONTAMINANT

NOTES:

1. DRAWING IS NOT TO BE USED FOR DESIGN PURPOSES. LAYOUT OF PIPING IS FOR REPRESENTATION ONLY (LOCATIONS ARE APPROXIMATE).
2. THE PIPING REPRESENTED IN THIS DRAWING MAY BE CONSTRUCTED OF CAST IRON PIPE (CIP), DUCTILE IRON PIPE (DIP), ASBESTOS CEMENT PIPE (ACP) OR TRANSITE, OR A COMBINATION OF THESE PIPE TYPES.

NORTHROP GRUMMAN
BETHPAGE, NEW YORK

ONCT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SITE PLAN

ARCADIS

FIGURE
2

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PLOTTED: 6/2/2025 3:40 PM BY: SMALL, BRIAN
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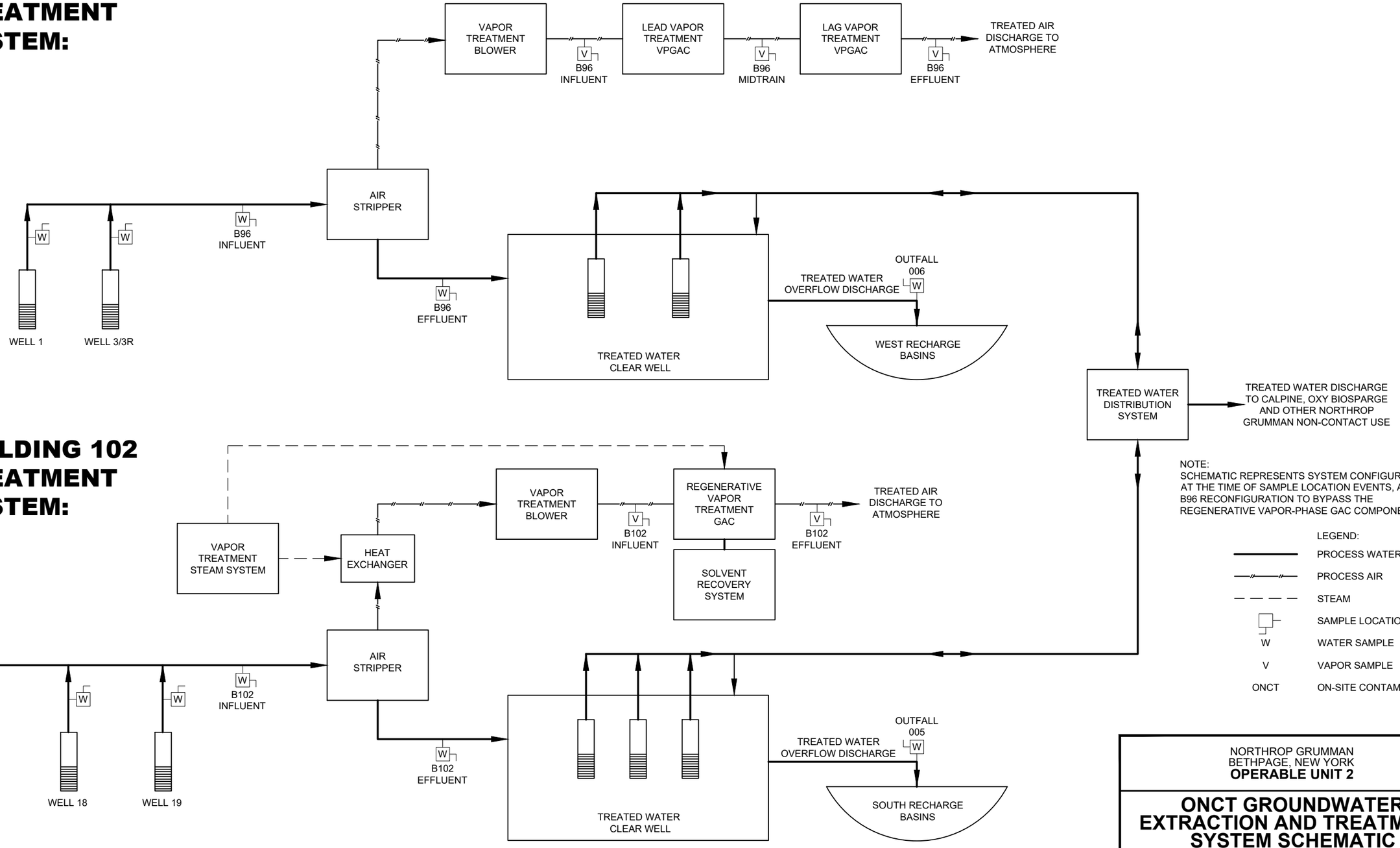
X-BDR-BL Arcadis Logo.png
X-1496X01
X-LI-NY_RD&ST
X-GW-SYS-PIPE

BUILDING 96 TREATMENT SYSTEM:



BUILDING 102 TREATMENT SYSTEM:

NOTE:
SCHEMATIC REPRESENTS SYSTEM CONFIGURATIONS AT THE TIME OF SAMPLE LOCATION EVENTS, AFTER B96 RECONFIGURATION TO BYPASS THE REGENERATIVE VAPOR-PHASE GAC COMPONENTS

LEGEND:

———	PROCESS WATER
——//——//——	PROCESS AIR
— — — —	STEAM
	SAMPLE LOCATION
W	WATER SAMPLE
V	VAPOR SAMPLE
ONCT	ON-SITE CONTAMINANT

NORTHROP GRUMMAN
BETHPAGE, NEW YORK
OPERABLE UNIT 2

ONCT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SCHEMATIC

ARCADIS

FIGURE
3

CITY: MANCHESTER DIV/GROUP: ENVCAD DB: B.SMALL PM: TM:
C:\Users\BSmall\DOCACCDocs\Arcadis ACC US\AUS-99999999-NOR GRUM_BETHPAGE_NY\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\OU2-F03-GWE SYSTEM.dwg LAYOUT: 3 SAVED: 3/28/2024 12:03 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB
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