



Mr. Steven Scharf, P.E.
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Subject:
Results of Second Quarter 2012 Groundwater Monitoring,
Operable Unit 2, Northrop Grumman Systems Corporation and Naval Weapons
Industrial Reserve Plant (NWIRP) Sites, Bethpage, New York.
(NYSDEC Site #s 1-30-003A and B)

Dear Mr. Scharf:

On behalf of Northrop Grumman Systems Corporation (Northrop Grumman),
ARCADIS is providing the NYSDEC with the validated results of Operable Unit 2
(OU2) groundwater monitoring, performed in accordance with the approved
groundwater monitoring plan (ARCADIS G&M, Inc. 2006) and the Public Water
Supply Contingency Plan (PWSCP) (ARCADIS G&M, Inc. 2003), plus additional
wells installed by the Navy that Northrop Grumman agreed to monitor on a voluntary
basis. Table 1 provides OU2 remedial system performance operational data and
water balance. Tables 2 and 3 provide the validated analytical results of monitoring
for this period. Figure 1 shows the site plan with well locations.

Please contact us if you have any questions or comments.

Sincerely,

ARCADIS of New York, Inc.

David E. Stern
Senior Hydrogeologist

Carlo San Giovanni
Project Manager

Enclosures

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ENVIRONMENT

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NY001496.0312.GWMI4

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Table 1. Operational Summary for the On-Site Portion of the Operable Unit 2 Groundwater Remedy, Second Quarter 2012, Northrop Grumman Systems Corporation, Bethpage, New York. ⁽¹⁾

Identification	Flow Rates (gpm)		Quarterly Flow Volumes (MG)			VOC Concentrations (ug/L)		VOC Mass Removed (lbs) ⁽⁷⁾
	Design ⁽²⁾	Average ^(3,4)	Design ⁽²⁾	Actual ^(3,4)	% of Design	TCE ⁽⁵⁾	TVOC ^(5,6)	Quarterly
<u>Influent Groundwater</u>								
Well 1	800	826	104.8	103.9	99%	410	476	413
Well 3	700	728	91.7	91.6	100%	1,700	1,936	1,450
Well 17	1,000	1,034	131.0	132.7	101%	230	278	301
Well 18	600	636	78.6	81.7	104%	67	90	60
Well 19	700	717	91.7	93.1	102%	190	224	171
Total	3,800	3,941	498	503	101%	--	--	2,395
<u>Effluent Groundwater</u> ⁽⁸⁾								
Calpine	100 - 400	242	--	31.3	--	--	--	--
OXY Biosparge ⁽¹¹⁾	14 - 54	0.0	--	0.0	--	--	--	--
West Recharge Basins	1,112 - 1,455	780	--	102.2	--	--	0.87	--
South Recharge Basins ⁽¹²⁾	2,231	2,820	292.4	369.5	126%	--	0.39	--
Total	--	3,842	--	503	--	--	--	--
<u>Treatment Efficiencies</u> ⁽⁹⁾								
Tower 96 System Efficiency:	99.88%							
Tower 102 System Efficiency:	100%							

see footnotes on last page

Table 1. Operational Summary for the On-Site Portion of the Operable Unit 2 Groundwater Remedy, Second Quarter 2012, Northrop Grumman Systems Corporation, Bethpage, New York. ⁽¹⁾

- (1) Quarterly reporting period: April 02, 2012 through July 02, 2012.
- (2) "Design" flow rates were determined for the five remedial wells and for the South Recharge Basins based on computer modeling (ARCADIS G&M, Inc. 2003c, modified in April 2005). Flow rates for Calpine, OXY Biosparge and West Recharge Basins are typical flow rates and are provided for reader information. "Design" flow volumes represent the volume of water that should be pumped/discharged during the reporting period and is calculated by multiplying the design rate by the reporting period duration.
- (3) "Average" 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 not is operational. During this reporting period, the remedial wells operated for the following percentage of the time: Well 1 (96%), Well 3 (96%), Well 17 (98%), Well 18 (98%), and Well 19 (99%). "Actual" volumes are determined via totalizing flow meters.
- (4) "Average" flow rates for the system discharges represent the average flow rate during the entire reporting period and are determined by dividing the total flow during the reporting period by the reporting period duration. The Calpine, OXY Biosparge, and South Recharge Basins flow volumes are determined via totalizing flow meters. The West Recharge Basin flow is calculated by subtracting the cumulative flow to the other discharges from the total influent flow. Actual flow to the recharge basins are greater than shown because storm water combines with the plant effluents prior to discharge to the recharge basins.
- (5) The TCE and TVOC concentrations for the remedial wells are from the quarterly sampling event performed during this reporting period (Table 2).
- (6) The TVOC concentration for the two sets of recharge basins are their respective average monthly SPDES concentration for the current quarter.
- (7) TVOC mass removed for the reporting period is calculated by multiplying the TVOC concentration from the quarterly sampling event and the quantity of water pumped during the reporting period.
- (8) There are five discharges for the effluent groundwater: South Recharge Basins, West Recharge Basins, Calpine, OXY Biosparge system, and pipe loss. Treated water is continuously discharged to the south and west recharge basins, and is available "on-demand" to both the Calpine Power Plant (Calpine) for use as make-up water, and the biosparge remediation system operated by Occidental Chemical (OXY Biosparge).
- (9) Treatment System Efficiencies are calculated by dividing the difference between the influent and effluent TVOC concentrations by the influent concentration.
- (10) The discharge flow rate and flow volume to the south basin (T102 weir overflow) were estimated throughout the duration of this reporting period due to the need for re-calibration of the ultrasonic level indicator associated with the water level over the weir. Estimated values were calculated using historic data associated with the total clear well water elevation and weir overflow rates.
- (11) OXY Biosparge was not in operation throughout the entire quarter due to construction related activities.
- (12) The discharge flow rate and flow volume to the south basin (T102 weir overflow) were estimated throughout the duration of this reporting period due to an apparent need for re-calibration of the ultrasonic level indicator associated with the water level over the weir. Estimated values were calculated using historic data associated with the total clear well water elevation and weir overflow rates.

Acronyms:

-	Not Available or Not Applicable	lbs	pounds
TVOC	Total Volatile Organic Compounds	MG	Million Gallons
gpm	gallons per minute	ug/L	micrograms per liter
SPDES	State Pollutant Discharge Elimination System	OU2	Operable Unit 2
NG	Northrop Grumman Systems Corporation	NYSDEC	New York State Department of Environmental Conservation
TCE	Trichloroethene		



Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Second Quarter 2012, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	Well:	GM-20I	GM-20D	GM-21I	GM-21D	GM-33D2	GM-34D	GM-34D2	GM-35D2	GM-75D2
	Sample ID:	GM-20I	GM-20D	GM-21I	GM-21D	GM-33D2	GM-34D	GM-34D2	GM-35D2	GM-75D2
	Date:	5/31/2012	5/31/2012	5/9/2012	5/9/2012	5/16/2012	5/17/2012	5/17/2012	5/11/2012	5/16/2012
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	0.93 J	0.42 J	< 5	< 5	< 5
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	5.7 J	1.4 J	0.25 J	0.37 J	< 5
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
2-Butanone (MEK)	< 50	< 50	< 50	< 50	< 50	< 130	< 100	< 50	< 50	< 50
2-Hexanone (MBK)	< 50	< 50	< 50	< 50	< 50	< 130	< 100	< 50	< 50	< 50
4-methyl-2-pentanone (MIK)	< 50	< 50	< 50	< 50	< 50	< 130	< 100	< 50	< 50	< 50
Acetone	< 50	< 50	< 50	< 50	< 50	2 J	< 100	0.65 J	< 50	< 50
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 1.8	< 1.4	< 0.7	< 0.7	< 0.7
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Carbon Disulfide	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Carbon Tetrachloride	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Chloroform	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
cis-1,2-dichloroethene	< 5	< 5	< 5	< 5	0.29 J	8.4 J	4.5 J	0.57 J	< 5	< 5
cis-1,3-dichloropropene	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Methylene Chloride	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Tetrachloroethene	< 5	< 5	< 5	< 5	5.9	6 J	8.3 J	7.6	1.9 J	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
trans-1,2-dichloroethene	< 5	< 5	< 5	< 5	< 5	< 13	0.44 J	< 5	< 5	< 5
trans-1,3-dichloropropene	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Trichloroethylene	< 5	< 5	< 5	0.43 J	41	350	200	110	37	< 5
Trichlorotrifluoroethane (Freon 113)	< 5	< 5	< 5	< 5	14	6.7 J	1.6 J	1.6 J	0.72 J	< 5
Vinyl Chloride	< 2	< 2	< 2	< 2	< 2	< 5	< 4	< 2	< 2	< 2
Xylene-o	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
Xylenes - m,p	< 5	< 5	< 5	< 5	< 5	< 13	< 10	< 5	< 5	< 5
	0	0	0	0.43	61	380	217	120	40	

See last page notes and abbreviations.



Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Second Quarter 2012, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	Well: GM-79I	GM-79D	WELL 1	WELL 3	96 EFFLUENT	WELL 17	WELL 18	WELL 19	102 EFFLUENT
	Sample ID: GM-79I	GM-79D	WELL 1	WELL 3	96 EFFLUENT	WELL 17	WELL 18	WELL 19	102 EFFLUENT
	Date: 5/12/2012	5/18/2012	5/8/2012	5/8/2012	5/8/2012	5/8/2012	5/8/2012	5/8/2012	5/8/2012
1,1,1-Trichloroethane	< 5	< 5 J	0.58 J	2.1 J	< 5	0.6 J	1 J	0.51 J	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5 J	0.93 J	< 50	< 5	1.2 J	1.1 J	0.93 J	< 5
1,1-Dichloroethene	< 5	< 5 J	3.2 J	10 J	< 5	2.9 J	4.1 J	1.3 J	< 5
1,2-Dichloroethane	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	0.65 J	< 5
1,2-Dichloropropane	< 5	< 5 J	6.2 J	< 50	< 5	< 10	< 5	< 5	< 5
2-Butanone (MEK)	< 50	< 50 J	< 130	< 500	< 50	< 100	< 50	< 50	< 50
2-Hexanone (MBK)	< 50	< 50 J	< 130	< 500	< 50	< 100	< 50	< 50	< 50
4-methyl-2-pentanone (MIK)	< 50	< 50 J	< 130	< 500	< 50	< 100	< 50	< 50	< 50
Acetone	< 50	< 50 J	< 130	< 500	< 50	< 100	< 50	< 50	< 50
Benzene	< 0.7	< 0.7 J	< 1.8	< 7	< 0.7	< 1.4	< 0.7	< 0.7	< 0.7
Bromodichloromethane	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Bromoform	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Bromomethane	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Carbon Disulfide	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Carbon Tetrachloride	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Chlorobenzene	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Chloroethane	< 5	< 5 J	< 13	5 J	< 5	< 10	< 5	< 5	< 5
Chloroform	< 5	< 5 J	< 13	< 50	< 5	< 10	0.27 J	0.71 J	< 5
Chloromethane	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
cis-1,2-dichloroethene	< 5	0.3 J	3.8 J	12 J	< 5	4.7 J	2 J	21	< 5
cis-1,3-dichloropropene	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Dibromochloromethane	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Ethylbenzene	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Methylene Chloride	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5 B	< 5 B	< 5
Styrene	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Tetrachloroethene	< 5	0.44 J	48	58	< 5	33	12	6.8	< 5
Toluene	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
trans-1,2-dichloroethene	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	0.47 J	< 5
trans-1,3-dichloropropene	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Trichloroethylene	< 5	26 J	410	1700	1.4 J	230	67	190	< 5
Trichlorotrifluoroethane (Freon 113)	< 5	0.28 J	3.4 J	8.4 J	< 5	5.2 J	1.5 J	0.9 J	< 5
Vinyl Chloride	< 2	< 2 J	< 5	140	< 2	< 4	< 2	< 2	< 2
Xylene-o	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
Xylenes - m,p	< 5	< 5 J	< 13	< 50	< 5	< 10	< 5	< 5	< 5
	0	27	480	1900	1.4	280	89	220	0

Note: Results rounded to two significant figures.

Bold Constituent detected
VOCs Volatile Organic Compounds
ug/L Micrograms per liter
J Constituent value is estimated
B Constituent also detected in an associated blank sample

Table 3. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Second Quarter 2012, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	Well: BPOW 1-1	BPOW 1-2	BPOW 1-3	BPOW 1-4	BPOW 1-5	BPOW 1-6	BPOW 2-1	BPOW 2-3	BPOW 3-1	BPOW 3-1
	Sample ID: BPOW 1-1	BPOW 1-2	BPOW 1-3	BPOW 1-4	BPOW 1-5	BPOW 1-6	BPOW 2-1	BPOW 2-3	REP5412	BPOW 3-1
	Date: 5/1/2012	5/1/2012	5/1/2012	5/8/2012	5/14/2012	5/15/2012	5/3/2012	5/3/2012	5/4/2012	5/4/2012
1,1,1-Trichloroethane	0.32 J	0.28 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon tetrachloride	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorotrifluoroethane (i-reon 113)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	1.1	0.33 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Site-Related VOCs ⁽¹⁾:	1.42⁽³⁾	0.61⁽³⁾	0	0	0	0	0	0	0	0
TVOC Trigger Value ⁽²⁾:	0.6	0.6	0.6	NE	NE	NE	NE	NE	1.5	1.5

See last page for notes and abbreviations.

Table 3. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Second Quarter 2012, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	Well:	BPOW 3-2	BPOW 3-3	BPOW 3-4	BPOW 4-1	BPOW 4-2
	Sample ID:	BPOW 3-2	BPOW 3-3	BPOW 3-4	BPOW 4-1	BPOW 4-2
	Date:	5/4/2012	5/15/2012	5/16/2012	5/7/2012	5/8/2012
1,1,1-Trichloroethane		< 0.5	< 0.5	< 1	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane		< 0.5	< 0.5	< 1	< 0.5	< 0.5
1,1,2-Trichloroethane		< 0.5	< 0.5	< 1	< 0.5	< 0.5
1,1-Dichloroethane		< 0.5	< 0.5	< 1	< 0.5	< 0.5
1,1-Dichloroethene		< 0.5	< 0.5	< 1	< 0.5	< 0.5
1,2-Dichloroethane		< 0.5	< 0.5	< 1	< 0.5	< 0.5
Carbon tetrachloride		< 0.5	< 0.5	1	< 0.5	< 0.5
Chlorobenzene		< 0.5	< 0.5	< 1	< 0.5	< 0.5
Chloroform		< 0.5	< 0.5	1	< 0.5	< 0.5
cis-1,2-dichloroethene		< 0.5	< 0.5	0.64 J	< 0.5	< 0.5
Trichlorotrifluoroethane (Freon 113)		< 0.5	< 0.5	< 1	2.1	0.79
Tetrachloroethene		< 0.5	< 0.5	< 1	< 0.5	< 0.5
trans-1,2-dichloroethene		< 0.5	< 0.5	< 1	< 0.5	< 0.5
Trichloroethylene		< 0.5	< 0.5	51	< 0.5	< 0.5
Total Site-Related VOCs ⁽¹⁾:		0	0	53.64	2.1 ⁽⁴⁾	0.79
TVOC Trigger Value ⁽²⁾:		NE	NE	NE	1.5	1.5

Note: Outpost wells OW2-2 was not sampled by Northrop Grumman this round, due to significant drawdown during purging indicating possible well fouling. Wells BPOW1-4, BPOW1-5, BPOW1-6, BPOW3-3, and BPOW3-4 screen intervals were selected by the Navy based on data obtained from vertical profile borings VP-127 (BPOW-1 cluster) and VP-128 (BPOW-3 cluster).

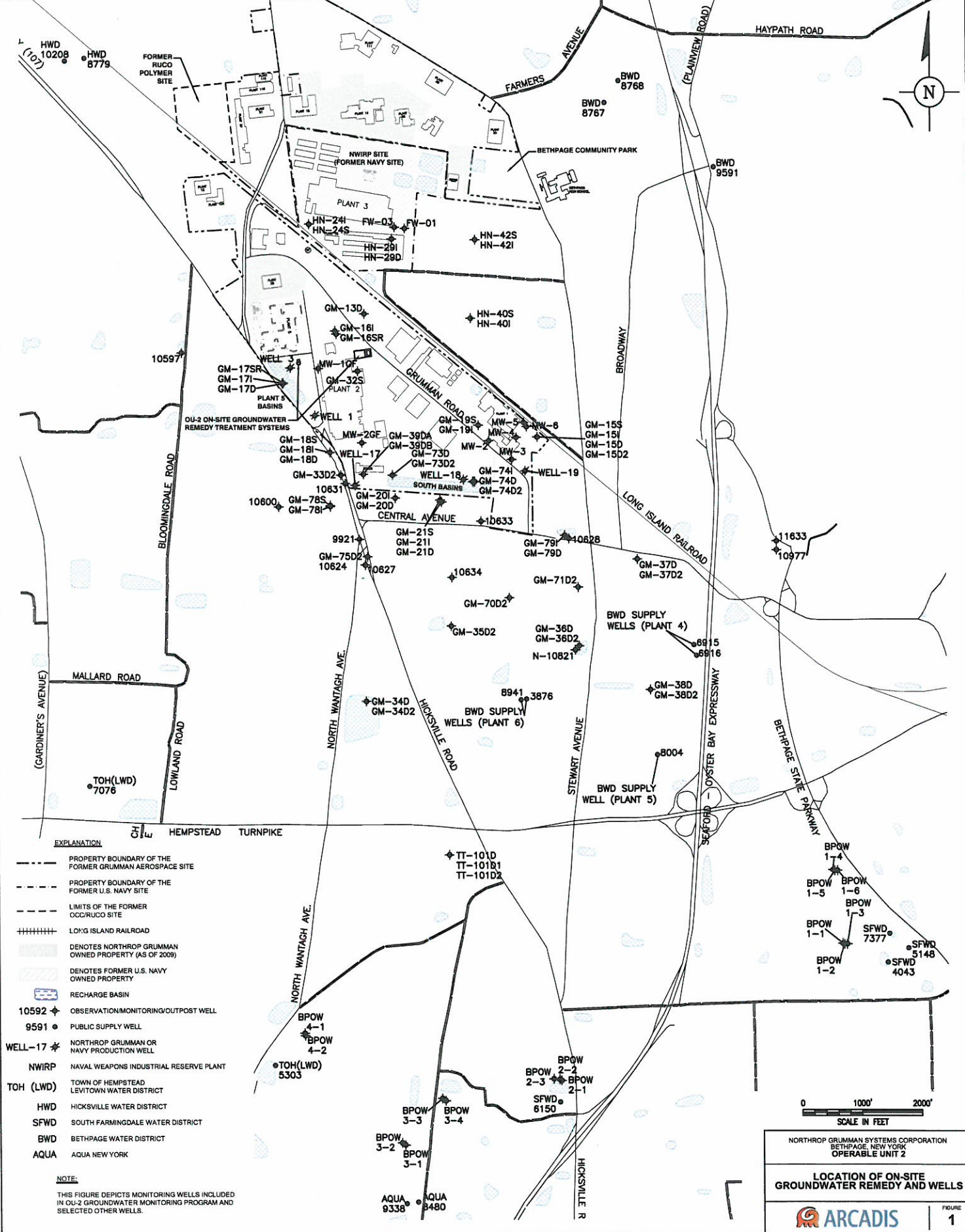
⁽¹⁾ Site-related VOCs were established for the wells identified above in the Public Water Supply Contingency Plan (PWSCP) (ARCADIS G&M, Inc. 2003).

⁽²⁾ TVOC Trigger Values were established for Wells BPOW1-1, BPOW1-2, BPOW1-3, BPOW3-1, BPOW3-2, BPOW4-1, and BPOW4-2 in the PWSCP (ARCADIS G&M, Inc. 2003).

⁽³⁾ The TVOC Trigger Value for Cluster 1 was initially exceeded on April 23, 2004; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003).

⁽⁴⁾ The TVOC Trigger Value for BPOW 4-1 was initially exceeded on March 1, 2012; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003).

Bold Constituent detected
TVOC Total Volatile Organic Compounds
NE Trigger Value Not Established
J Value is estimated



EXPLANATION

- PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE
- PROPERTY BOUNDARY OF THE FORMER U.S. NAVY SITE
- LIMITS OF THE FORMER OCCURCO SITE
- +++++ LONG ISLAND RAILROAD
- DENOTES NORTHROP GRUMMAN OWNED PROPERTY (AS OF 2009)
- DENOTES FORMER U.S. NAVY OWNED PROPERTY
- RECHARGE BASIN
- 10592 ◆ OBSERVATION/MONITORING/OUTPOST WELL
- 9591 ● PUBLIC SUPPLY WELL
- WELL-17 ★ NORTHROP GRUMMAN OR NAVY PRODUCTION WELL
- 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
- AQUA AQUA NEW YORK

NOTE:

THIS FIGURE DEPICTS MONITORING WELLS INCLUDED IN OU-2 GROUNDWATER MONITORING PROGRAM AND SELECTED OTHER WELLS.



NORTHROP GRUMMAN SYSTEMS CORPORATION
 BETHPAGE, NEW YORK
 OPERABLE UNIT 2

**LOCATION OF ON-SITE
 GROUNDWATER REMEDIATION AND WELLS**

ARCADIS

FIGURE
1