



Infrastructure, environment, facilities

Mr. Steven Scharf, P.E.
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Subject:

Results of Second Quarter 2009 Groundwater Monitoring,
Operable Unit 2, Northrop Grumman Systems Corporation (Northrop Grumman) and
Naval Weapons Industrial Reserve Plant (NWIRP) Sites, Bethpage, New York.
(NYSDEC Site #s 1-30-003A and B)

ENVIRONMENT

Dear Mr. Scharf:

On behalf of Northrop Grumman Systems Corporation (Northrop Grumman),
ARCADIS is providing the New York State Department of Environmental
Conservation (NYSDEC) with the validated results of 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) for the Second Quarter of 2009 for Operable Unit 2
(OU2). Table 1 provides OU2 remedial system performance operational data and
water balance. Tables 2 and 3 provide the analytical results of monitoring for this
period. Figure 1 shows the site plan with well locations.

Date:

September 11, 2009

Contact:

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Please contact us if you have any questions or comments.

Our ref:

NY001492.0409.00004

Sincerely,

ARCADIS U.S., Inc.

David E. Stern
Senior Hydrogeologist

Enclosures

Copies:

See Attached Distribution List

Imagine the result

Copies:

John Cofman – Northrop Grumman
Kent Smith – Northrop Grumman
Walter Parish – NYSDEC Region 1
Bill Spitz, NYSDEC Region 1
Jacqueline Nealon – New York State Department of Health
Michael Alarcon – Nassau County Department of Health
Joseph DeFranco – Nassau County Department of Health
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Table 1. Summary of Operational Data and Water Balance for the On-Site Portion of the OU2 Groundwater Remedy, Second Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Identification	Design Pumping/Recharge Rate ^(a) (gpm)	Current Actual Average Pumping/Recharge Rate ^(b) (gpm)	Design Total Pumpage/Recharge (MG)	Current Actual Total Pumpage/Recharge (MG)	Current Percent of Design Pumpage/Recharge	Current TCE Concentration (ug/L)	Current TVOC Concentration ^(c) (ug/L)	2nd Quarter 2009 Estimated VOC Mass Removed ^(d) (lbs)
Remedial Wells		Groundwater Removed from Aquifer						
Well 1	800	844	97.9	103.3	106%	370	488	420
Well 3	700	705	85.7	86.3	101%	2,700	3,022	2,172
Well 17	1,000	1,112	122.4	133.4	109%	230	272	302
Well 18	600	674	73.4	80.9	110%	100	126	85
Well 19	700	750	85.7	89.0	104%	190	225.0	167
Rounded Totals:	3,800	4,085	465	493	106%	--	--	3,146
Recharge Basins ^(a)		Treated Water Recharged to Aquifer						
West Recharge Basins	0	1,184	0	144.9	--	--	--	--
South Recharge Basins	2,231	2,619	273.1	320.6	117%	--	--	--
Rounded Totals:	2,231	3,803	273	465.5	171%	--	--	--
Treated Water Sent to Calpine								
Calpine Demand	100-400	276	14-56	33.8	--	--	--	--
Treatment Efficiencies		Average SPDES Outfall TVOC Concentrations (ug/L) ^(f)						
Tower 96 System Efficiency ^(e) :		99.9%		1.5				
Tower 102 System Efficiency ^(e) :		>99.9%		0				

see footnotes on last page

Table 1. Summary of Operational Data and Water Balance for the On-Site Portion of the OU2 Groundwater Remedy, Second Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

- (a) - Design remedial well pumping rates based on computer modeling (ARCADIS G& M, Inc. 2003c). Acceptable design recharge rates based on computer modeling (ARCADIS G&M, Inc. 2004b). Design pumping and recharge rates were modified in April, 2005. Recharge includes remedial well pumpage (minus Calpine demand, Oxy biosparge system demand, and pipe loss), plus incidental runoff from precipitation. Current average recharge rates have been determined using the entire 98-day span of time as opposed to current average pumping rates, which account for varying amounts of downtime, as indicated below.
- (b) - OU2 wells were operational during the Second Quarter 2009, at the following percentages: Well-1 (>99.9%), Well-3 (>99.9%); Well-17 (98%), Well-18 (98%), and Well-19 (97%). The Actual Average Pumping Rates and rate of treated water sent to Calpine are for when the wells are pumping.
- (c) - The TVOC concentration for each well was calculated based on Second Quarter 2009 groundwater monitoring data (Table 2).
- (d) - TVOC mass removed is based on the TVOC data given above and the following formula:

$$\text{(TVOC concentration in ug/L) X (gallons pumped) X (3.785 L/gal) X (1 x 10}^{-6}\text{ g/ug) X (2.2 x 10}^{-3}\text{ lb/g)}$$

- (e) Air Stripping Efficiency calculated from values above and in Table 2 using the following formula:

$$1 - \left[\left(\frac{\text{Average SPDES TVOC Concentration at Outfall}}{\frac{[(\text{TVOC}_{\text{Well 1}} \times \text{Q}_{\text{Well 1}}) + (\text{TVOC}_{\text{Well 2}} \times \text{Q}_{\text{Well 2}}) \text{ etc...}]}{(\text{Q}_{\text{Well 1}} + \text{Q}_{\text{Well 2}} \text{ etc...})}} \right) \right]$$

-When non-detectable levels of VOCs are found in the effluent, a value of zero is used to estimate the efficiency of the air stripper.

- (f) -Towers 102 and 96 outfalls are identified as Outfalls 005 and 006, respectively (commonly known as the South Recharge Basins and Plant 5 Recharge Basins, respectively). Complete SPDES reporting provided to NYSDEC by NGC under separate cover.

--	Not Available or Not Applicable	lb/g	pounds per gram
TVOC	Total Volatile Organic Compounds	lbs	pounds
g/ug	grams per microgram	MG	Million Gallons
gpm	gallons per minute	ug/L	micrograms per liter
L/gal	Liters per gallon	OU2	Operable Unit 2
SPDES	State Pollutant Discharge Elimination System	Q	Pumping Rate
NGC	Northrop Grumman Corporation	NYSDEC	New York State Department of Environmental Conservation

Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Second Quarter 2009, 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
	Sample ID:	GM-20I	GM-20D	GM-21I	GM-21D	GM-33D2	GM-34D
	Date:	5/22/2009	5/22/2009	5/17/2009	5/17/2009	5/18/2009	5/15/2009
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Vinyl Chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Methylene Chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 130
Carbon Disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 13
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	9.4 J
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	0.98 J
cis-1,2-dichloroethene	< 5	< 5	< 5	< 5	< 5	0.83 J	8.3 J
trans-1,2-dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Chloroform	< 5	< 5	< 5	< 5	< 5	< 5	< 13
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 130
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
cis-1,3-dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Trichloroethylene	< 5	< 5	< 5	< 5	0.74 J	50	490 D
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 1.8
trans-1,3-dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 13
4-methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 130
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 130
Tetrachloroethene	< 5	< 5	< 5	< 5	< 5	13	5.3 J
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Trichlorotrifluoroethane (Freon 113)	< 5	< 5	< 5	< 5	< 5	29	8.8 J
Xylene-o	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Xylenes - m,p	< 5	< 5	< 5	< 5	< 5	< 5	< 13
Total VOCs	0	0	0	0.74	92.83	523.68	

Notes and Abbreviations

- Bold** Constituent detected
- VOCs Volatile Organic Compounds
- ug/L Micrograms per liter
- J Constituent value is estimated
- D Constituent identified at a secondary dilution

Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Second Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	Well:	GM-34D2	GM-35D2	GM-75D2	GM-79I	GM-79D	WELL 1
	Sample ID:	GM-34D2	GM-35D2	GM-75D2	GM-79I	GM-79D	WELL 1
	Date:	5/15/2009	5/26/2009	5/18/2009	5/14/2009	5/14/2009	5/18/2009
Chloromethane	< 5	< 10	< 5	< 5	< 5	< 13	
Bromomethane	< 5	< 10	< 5	< 5	< 5	< 13	
Vinyl Chloride	0.42 J	< 4	< 2	< 2	< 2	< 5	
Chloroethane	< 5	< 10	< 5	< 5	< 5	< 13	
Methylene Chloride	< 5	< 10	< 5	< 5	< 5	< 13	
Acetone	< 50 B	< 100	< 50 B	< 50	< 50	< 130	
Carbon Disulfide	< 5	< 10	< 5	< 5	< 5	< 13	
1,1-Dichloroethene	2 J	0.78 J	1.3 J	< 5	0.36 J	3 J	
1,1-Dichloroethane	0.47 J	< 10	< 5	< 5	< 5	1.1 J	
cis-1,2-dichloroethene	11	1.9 J	0.35 J	< 5	0.4 J	5.4 J	
trans-1,2-dichloroethene	< 5	< 10	< 5	< 5	< 5	< 13	
Chloroform	< 5	< 10	< 5	< 5	< 5	< 13	
1,2-Dichloroethane	< 5	< 10	< 5	< 5	< 5	< 13	
2-Butanone	< 50	< 100	< 50	< 50	< 50	< 130	
1,1,1-Trichloroethane	< 5	< 10	< 5	< 5	< 5	0.9 J	
Carbon tetrachloride	< 5	< 10	< 5	< 5	< 5	< 13	
Bromodichloromethane	< 5	< 10	< 5	< 5	< 5	< 13	
1,2-Dichloropropane	< 5	< 10	< 5	< 5	< 5	4.3 J	
cis-1,3-dichloropropene	< 5	< 10	< 5	< 5	< 5	< 13	
Trichloroethylene	170	210	130	< 5	37	370	
1,1,2-Trichloroethane	< 5	< 10	< 5	< 5	< 5	< 13	
Benzene	< 0.7	< 1.4	< 0.7	< 0.7	< 0.7	< 1.8	
trans-1,3-dichloropropene	< 5	< 10	< 5	< 5	< 5	< 13	
Bromoform	< 5	< 10	< 5	< 5	< 5	< 13	
4-methyl-2-pentanone	< 50	< 100	< 50	< 50	< 50	< 130	
2-Hexanone	< 50	< 100	< 50	< 50	< 50	< 130	
Tetrachloroethene	6.8	7.8 J	3.7 J	< 5	0.81 J	99	
1,1,2,2-Tetrachloroethane	< 5	< 10	< 5	< 5	< 5	< 13	
Toluene	< 5	< 10	< 5	< 5	< 5	< 13	
Chlorobenzene	< 5	< 10	< 5	< 5	< 5	< 13	
Ethylbenzene	< 5	< 10	< 5	< 5	< 5	< 13	
Styrene	< 5	< 10	< 5	< 5	< 5	< 13	
Trichlorotrifluoroethane (Freon 113)	2.3 J	4.3 J	1.1 J	< 5	0.62 J	4.7 J	
Xylene-o	< 5	< 10	< 5	< 5	< 5	< 13	
Xylenes - m,p	0.33 J	< 10	< 5	< 5	< 5	< 13	
Total VOCs	193.88	224.78	136.45	0	39.19	488.4	

Notes and Abbreviations

- Bold** Constituent detected
- VOCs Volatile Organic Compounds
- ug/L Micrograms per liter
- J Constituent value is estimated
- D Constituent identified at a secondary dilution

Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Second Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	Well:	WELL 3	96 EFFLUENT	WELL 17	WELL 18	WELL 19	102 EFFLUENT
	Sample ID:	WELL 3	96 EFFLUENT	WELL 17	WELL 18	WELL 19	102 EFFLUENT
	Date:	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009
Chloromethane	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Bromomethane	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Vinyl Chloride	210	< 2	< 4	< 2	< 2	< 2	< 2
Chloroethane	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Methylene Chloride	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Acetone	< 1000	< 50	2.8 J	1.4 J	< 50	< 50	< 50
Carbon Disulfide	< 100	< 5	< 10	< 5	< 5	< 5	< 5
1,1-Dichloroethene	14 J	< 5	2.5 J	5	1.6 J	< 5	< 5
1,1-Dichloroethane	< 100	< 5	0.94 J	1.3 J	1 J	< 5	< 5
cis-1,2-dichloroethene	16 J	< 5	3.8 J	1.9 J	21	< 5	< 5
trans-1,2-dichloroethene	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Chloroform	< 100	< 5	< 10	0.31 J	0.78 J	< 5	< 5
1,2-Dichloroethane	< 100	< 5	< 10	< 5	0.71 J	< 5	< 5
2-Butanone	< 1000	< 50	< 100	< 50	< 50	< 50	< 50
1,1,1-Trichloroethane	< 100	< 5	< 10	1.6 J	0.73 J	< 5	< 5
Carbon tetrachloride	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Bromodichloromethane	< 100	< 5	< 10	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 100	< 5	< 10	< 5	< 5	< 5	< 5
cis-1,3-dichloropropene	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Trichloroethylene	2700	1.2 J	230	100	190 D	0.5 J	< 5
1,1,2-Trichloroethane	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Benzene	< 14	< 0.7	< 1.4	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-dichloropropene	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Bromoform	< 100	< 5	< 10	< 5	< 5	< 5	< 5
4-methyl-2-pentanone	< 1000	< 50	< 100	< 50	< 50	< 50	< 50
2-Hexanone	< 1000	< 50	< 100	< 50	< 50	< 50	< 50
Tetrachloroethene	71 J	< 5	24	12	8.2	< 5	< 5
1,1,2,2-Tetrachloroethane	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Toluene	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Chlorobenzene	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Ethylbenzene	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Styrene	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Trichlorotrifluoroethane (Freon 113)	11 J	< 5	8.2 J	1.7 J	0.91 J	< 5	< 5
Xylene-o	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Xylenes - m,p	< 100	< 5	< 10	< 5	< 5	< 5	< 5
Total VOCs	3022	1.2	272.24	125.57	225.34	0.5	

Notes and Abbreviations

- Bold** Constituent detected
- VOCs Volatile Organic Compounds
- ug/L Micrograms per liter
- J Constituent value is estimated
- D Constituent identified at a secondary dilution

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Table 3. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Second Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	Well: BPOW 1-1 ⁽³⁾	BPOW 1-2	BPOW 1-3 ⁽³⁾	BPOW 3-1	BPOW 3-2	BPOW 4-1	BPOW 4-2
	Sample ID: BPOW 1-1	BPOW 1-2	BPOW 1-3	BPOW 3-1	BPOW 3-2	BPOW 4-1	BPOW 4-2
	Date: 5/19/2009	5/19/2009	5/19/2009	5/20/2009	5/20/2009	5/21/2009	5/21/2009
1,1,1-Trichloroethane	1.8	< 0.5 U	2	< 0.5 U	< 0.5 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
1,1,2-Trichloroethane	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
1,1-Dichloroethane	0.61	< 0.5 U	0.87	< 0.5 U	< 0.5 U	< 5 U	< 5 U
1,1-Dichloroethene	1	< 0.5 U	1.5	< 0.5 U	< 0.5 U	< 5 U	< 5 U
1,2-Dichloroethane	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
Carbon Tetrachloride	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
Chlorobenzene	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
Chloroform	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
Trichlorotrifluoroethane (Freon 113)	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
Tetrachloroethene	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 5 U	< 5 U
Trichloroethene	1.4	< 0.5 U	0.76	< 0.5 U	< 0.5 U	< 5 U	< 5 U
Total Site-Related VOCs ⁽¹⁾ :	4.81	0	5.13	0	0	0	0
TVOC Trigger Value ⁽²⁾:	0.6	0.6	0.6	1.5	1.5	1.5	1.5

Note: Outpost wells OW2-1 and OW2-2 were not sampled by Northrop Grumman this round, due to ongoing NYSDEC investigation of non-site related VOCs (benzene and methyl tertiary butyl ether) detected in these wells.

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

⁽²⁾ TVOC Trigger Values were established in the PWSCP (ARCADIS G&M, Inc. 2003).

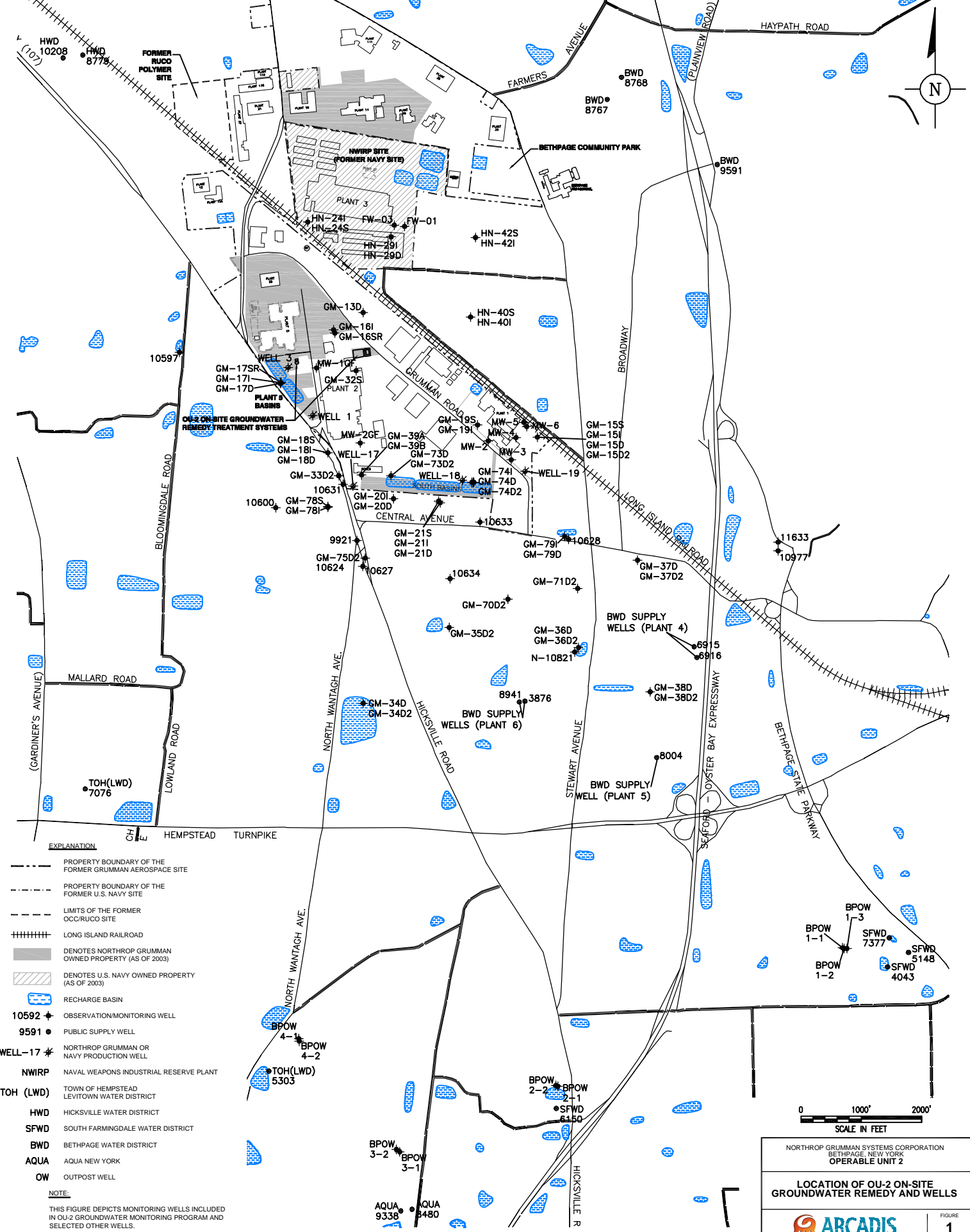
⁽³⁾ The TVOC Trigger Value for Cluster 1 was initially exceeded on April 23, 2004; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003).

ug/L Micrograms per liter

Bold Constituent detected

TVOC Total Volatile Organic Compounds

PROJECT NAME: NY101483-0002-0004
 USER: sll



EXPLANATION

- PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE
- PROPERTY BOUNDARY OF THE FORMER U.S. NAVY SITE
- LIMITS OF THE FORMER OCC/RUCO SITE
- +++++ LONG ISLAND RAILROAD
- DENOTES NORTHROP GRUMMAN OWNED PROPERTY (AS OF 2003)
- ▨ DENOTES U.S. NAVY OWNED PROPERTY (AS OF 2003)
- RECHARGE BASIN
- 10592 ◆ OBSERVATION/MONITORING 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
- OW OUTPOST WELL

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 OU-2 ON-SITE
 GROUNDWATER REMEDIY AND WELLS**

ARCADIS

FIGURE
1