

1-30-003A-003



Infrastructure, environment, buildings

Mr. Steven Scharf, P.E.
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Subject:

Results of Third Quarter 2005 Outpost Well Groundwater Monitoring, Northrop Grumman Corporation and Naval Weapons Industrial Reserve Plant Sites, Bethpage, New York. (NYSDEC Site #s 1-30-003A and B)

ENVIRONMENT

Dear Mr. Scharf:

Pursuant to the July 2003 Public Water Supply Contingency Plan (PWSCP) (ARCADIS G&M, Inc. 2003) for Operable Unit 2, ARCADIS is providing the NYSDEC with the validated results of groundwater monitoring performed for the Outpost Wells for the Third Quarter 2005. Table 1 summarizes the analytical results of monitoring for site-related volatile organic compounds (VOCs), as outlined in the PWSCP, for this period.

Date:
22 November 2005

Contact:
David E. Stern

From September 13 through September 15, 2005, samples were collected from the nine Outpost Wells using the sampling methodology described in the PWSCP. Based on the trigger values for site-related TVOC concentrations established in the PWSCP, there are no new exceedences of trigger values. Wells in Clusters OW-1 and OW-2 continue to exhibit site-related TVOC concentrations above their respective trigger values, which were initially detected in samples collected during the First and Second Quarters of 2004.

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Please contact us if you have any questions or comments.

Sincerely,

ARCADIS G&M, Inc.

David E. Stern
Senior Scientist

Carlo San Giovanni
Project Manager

Enclosures

Copies:

See Attached Distribution List

Part of a bigger picture

ARCADIS

Steven Scharf, P.E.
22 November 2005

Copies:

Water Parrish - New York State Department of Environmental Conservation
John Cofman - Northrop Grumman Corporation
Larry Leskovjan - Northrop Grumman Corporation
James Colter - U.S. Navy Northern Division
John Lovejoy - Nassau County Department of Health
Trevor Wescott - New York State Department of Health
Frank Flood - Massapequa Water District
Matt Snyder - New York Water Service
Anthony J. Sabino - Town of Oyster Bay
William Bier - South Farmingdale Water District
David Brayack - TetraTech NUS, Inc.
Arnold Palleschi - Town of Hempstead Water District
Kevin Lumpe - Steel Equities
Lois Lovisolo - Bethpage Public Library (Public Repository)
Andrew Musgrave - Bethpage Water District

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Table 1. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Third Quarter 2005, Northrop Grumman Corporation and Naval Weapons Industrial Reserve Plant Site, Bethpage, New York. ⁽¹⁾

CONSTITUENT (Units in ug/L)	SITE: SAMPLE ID: DATE:	OW 1-1 BPOW 1-1 9/13/2005	OW 1-2 BPOW 1-2 9/13/2005	OW 1-3 BPOW 1-3 9/13/2005	OW 2-1 ⁽⁵⁾ BPOW 2-1 9/14/2005	OW 2-2 BPOW 2-2 9/14/2005	OW 3-1 BPOW 3-1 9/15/2005	OW 3-2 BPOW 3-2 9/15/2005	OW 4-1 BPOW 4-1 9/15/2005	OW 4-2 BPOW 4-2 9/15/2005
Chlorobenzene		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene		2.4	<0.5	4.1	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane		1.6	<0.5	1.9	1.3J	<0.5J	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
Chloroform		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane		<0.5	<0.5	<0.5	1.8J	0.91J	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane		4.7	<0.5	7.8	0.67J	<0.5J	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
Trichloroethene		2.5	<0.5	1.4	1.9J	<0.5J	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene		<0.5	<0.5	<0.5	0.98J	<0.5J	<0.5	<0.5	<0.5	<0.5
Freon-113		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane		<0.5	<0.5	<0.5	<0.5J	<0.5J	<0.5	<0.5	<0.5	<0.5
Total Site-Related VOCs⁽¹⁾:		11.2⁽³⁾	0	15.2⁽³⁾	6.65⁽⁴⁾	0.91⁽⁴⁾	0	0	0	0
TVOC Trigger Value⁽²⁾:		0.6	0.6	0.6	1.5	1.5	1.5	1.5	1.5	1.5

⁽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 OW-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 Cluster OW-2 was initially exceeded on May 3, 2004; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003).

⁽⁵⁾ Benzene and Methyl tert-butyl ether (MTBE), which are not site-related VOCs, were detected in Outpost Well OW 2-1 on 9/14/05 at 11 ug/L and 7.3 ug/L, respectively.

ug/L

Micrograms per liter

Constituent detected