ARCADIS

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 4/11/2008	MW-116-5 8/4/2008	MW-116-5 9/29/2008
1,1,1-Trichloroethane	< 50	< 50	< 50
1,1,2,2-Tetrachloroethane	< 50	< 50	< 50
1,1,2-Trichloroethane	< 50	< 50	< 50
1,1-Dichloroethane	< 50	< 50	< 50
1,1-Dichloroethene	< 50	< 50	< 50
1,2-Dichloroethane	< 50	< 50	< 50
1,2-Dichloropropane	< 50	< 50	< 50
2-Butanone	< 500	< 500	< 500
2-Hexanone	< 500	< 500	< 500
4-methyl-2-pentanone	< 500	< 500	< 500
Acetone	< 500	< 500	< 500
Benzene	< 7.0	< 7.0	< 7.0
Bromodichloromethane	< 50	< 50	< 50
Bromoform	< 50	< 50	< 50
Bromomethane	< 50	< 50	< 50
Carbon Disulfide	< 500	< 500	< 500
Carbon Tetrachloride	< 50	< 50	< 50
Chlorobenzene	< 50	< 50	< 50
Chlorodifluoromethane (Freon 22)	< 50	< 50	< 50
Chloroethane	< 50	< 50	< 50
Chloroform	< 70	< 70	< 70
Chloromethane	< 50	< 50	< 50
cis-1,2-dichloroethene	**130**	**130**	**140**
cis-1,3-dichloropropene	< 50	< 50	< 50
Dibromochloromethane	< 50	< 50	< 50
Dichlorodifluoromethane (Freon 12)	< 50	< 50	< 50
Ethylbenzene	< 50	< 50	< 50
Methyl tert-Butyl Ether	--	--	--
Methylene Chloride	< 50	< 50	< 50
Styrene	< 50	< 50	< 50
Tetrachloroethene	< 50	< 50	< 50
Toluene	< 50	< 50	< 50
trans-1,2-dichloroethene	< 50	< 50	< 50
trans-1,3-dichloropropene	< 50	< 50	< 50
Trichloroethylene	**1100**	**1100**	**1300**
Trichlorofluoromethane (CFC-11)	--	--	--
Trichlorotrifluoroethane (Freon 113)	< 50	< 50	< 50
Vinyl Chloride	< 20	< 20	< 20
Xylene-o	< 50	< 50	< 50
Xylenes - m,p	< 50	< 50	< 50
TVOCs	**1200**	**1200**	**1400**

Notes and Abbreviations on last page.

MW-116-5 12/29/2008	MW-116-5 3/31/2009	MW-116-5 7/22/2009	MW-116-5 11/3/2009	MW-116-5 12/3/2009
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	**3.7 J**	< 50	< 50	< 50
< 50	**15 J**	**6.5 J**	**7.0 J**	**7.9 J**
< 50	< 50	< 50	< 50	< 50
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 7.0	< 7.0	< 7.0	< 7.0	< 7.0
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 500	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 70	**34 J**	**15 J**	**13 J**	**14 J**
< 50	< 50	< 50	< 50	< 50 R
150	**210**	**130**	**150**	**160**
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
--	--	--	--	--
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	**5.6 J**	< 50	**5.3 J**	< 50
< 50	< 50	< 50	< 50	< 50
1100	**1200**	**1100**	**2000**	**2000 D**
--	--	--	--	--
< 50	< 50	< 50	< 50	< 50
< 20	< 20	< 20	< 20	< 20
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
1300	**1500**	**1300**	**2200**	**2200**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 1/13/2010	MW-116-5 2/8/2010	MW-116-5 3/11/2010
1,1,1-Trichloroethane	< 50	< 50	< 50
1,1,2,2-Tetrachloroethane	< 50	< 50	< 50
1,1,2-Trichloroethane	< 50	< 50	< 50
1,1-Dichloroethane	< 50	< 50	< 50
1,1-Dichloroethene	< 50	< 50	< 50
1,2-Dichloroethane	**7.5 J**	**5.6 J**	**7.0 J**
1,2-Dichloropropane	< 50	< 50	< 50
2-Butanone	< 500	< 500	< 500
2-Hexanone	< 500	< 500	< 500
4-methyl-2-pentanone	< 500	< 500	< 500
Acetone	< 500	< 500 B	< 500
Benzene	< 7.0	< 7.0	< 7.0
Bromodichloromethane	< 50	< 50	< 50
Bromoform	< 50	< 50	< 50
Bromomethane	< 50	< 50	< 50
Carbon Disulfide	< 50	**3.4 J**	< 50
Carbon Tetrachloride	< 50	< 50	< 50
Chlorobenzene	< 50	< 50	< 50
Chlorodifluoromethane (Freon 22)	< 50	< 50	< 50
Chloroethane	< 50	< 50	< 50
Chloroform	**12 J**	**9.4 J**	**10 J**
Chloromethane	< 50	< 50	< 50
cis-1,2-dichloroethene	**150**	**130**	**150**
cis-1,3-dichloropropene	< 50	< 50	< 50
Dibromochloromethane	< 50	< 50	< 50
Dichlorodifluoromethane (Freon 12)	< 50	< 50	< 50
Ethylbenzene	< 50	< 50	< 50
Methyl tert-Butyl Ether	< 50	< 50	< 50
Methylene Chloride	< 50	< 50	< 50
Styrene	< 50	< 50	< 50
Tetrachloroethene	< 50	< 50	< 50
Toluene	< 50	< 50	< 50
trans-1,2-dichloroethene	< 50	< 50	< 50
trans-1,3-dichloropropene	< 50	< 50	< 50
Trichloroethylene	**2000**	**1600**	**1700**
Trichlorofluoromethane (CFC-11)	< 50	< 50	< 50
Trichlorotrifluoroethane (Freon 113)	< 50	< 50	< 50
Vinyl Chloride	< 20	< 20	< 20
Xylene-o	< 50	< 50	< 50
Xylenes - m,p	< 50	< 50	< 50
TVOCs	**2200**	**1700**	**1900**

Notes and Abbreviations on last page.

MW-116-5 4/26/2010	MW-116-5 5/26/2010	MW-116-5 6/25/2010	MW-116-5 7/27/2010	MW-116-5 8/25/2010
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
7.7 J	**8.2 J**	**9.0 J**	**8.2 J**	**8.4 J**
< 50	< 50	< 50	**4.5 J**	**5.1 J**
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 7.0	< 7.0	< 7.0	< 7.0	< 7.0
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
13 J	**15 J**	**20 J**	**15 J**	**15 J**
< 50	< 50	< 50	< 50	< 50
180	**170**	**180**	**180**	**190**
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	**3.5 J**
< 50	< 50	< 50	< 50	< 50
1800	**1800**	**1700**	**1700**	**1900**
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 20	< 20	< 20	< 20	< 20
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
2000	**2000**	**1900**	**1900**	**2100**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 9/20/2010	MW-116-5 10/22/2010	MW-116-5 11/22/2010
1,1,1-Trichloroethane	< 50	< 100	< 50
1,1,2,2-Tetrachloroethane	< 50	< 100	< 50
1,1,2-Trichloroethane	< 50	< 100	< 50
1,1-Dichloroethane	< 50	< 100	< 50
1,1-Dichloroethene	**3.6 J**	< 100	**4.0 J**
1,2-Dichloroethane	**9.0 J**	**12 J**	**15 J**
1,2-Dichloropropane	**5.1 J**	< 100	**4.3 J**
2-Butanone	< 500	<1000	< 500
2-Hexanone	< 500	<1000	< 500
4-methyl-2-pentanone	< 500	<1000	< 500
Acetone	**9.5 J**	<1000	< 500
Benzene	< 7.0	< 14	< 7.0
Bromodichloromethane	< 50	< 100	< 50
Bromoform	< 50	< 100	< 50
Bromomethane	< 50	< 100	< 50
Carbon Disulfide	< 50	< 100	< 50
Carbon Tetrachloride	< 50	< 100	< 50
Chlorobenzene	< 50	< 100	< 50
Chlorodifluoromethane (Freon 22)	< 50	< 100	< 50
Chloroethane	< 50	< 100	< 50
Chloroform	**15 J**	**18 J**	**28 J**
Chloromethane	< 50	< 100	< 50
cis-1,2-dichloroethene	**160**	**170**	**230**
cis-1,3-dichloropropene	< 50	< 100	< 50
Dibromochloromethane	< 50	< 100	< 50
Dichlorodifluoromethane (Freon 12)	< 50	< 100	< 50
Ethylbenzene	< 50	< 100	< 50
Methyl tert-Butyl Ether	< 50	< 100	< 50
Methylene Chloride	< 50	< 100	< 50
Styrene	< 50	< 100	< 50
Tetrachloroethene	< 50	< 100	< 50
Toluene	< 50	< 100	< 50
trans-1,2-dichloroethene	< 50	< 100	**4.8 J**
trans-1,3-dichloropropene	< 50	< 100	< 50
Trichloroethylene	**2100 D**	**2100**	**1800**
Trichlorofluoromethane (CFC-11)	< 50	< 100	< 50
Trichlorotrifluoroethane (Freon 113)	< 50	< 100	< 50
Vinyl Chloride	< 20	< 40	< 20
Xylene-o	< 50	< 100	< 50
Xylenes - m,p	< 50	< 100	< 50
TVOCs	**2300**	**2300**	**2100**

Notes and Abbreviations on last page.

MW-116-5 12/17/2010	MW-116-5 1/17/2011	MW-116-5 2/16/2011	MW-116-5 3/22/2011	MW-116-5[1] 4/21/2011
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
3.1 J	< 50	**3.6 J**	**3.3 J**	**4.2 J**
< 50	< 50	< 50	< 50	50R
4.5 J	**5.8 J**	**5.8 J**	**6.3 J**	**4.4 J**
16 J	**17 J**	**20 J**	**17 J**	**17 J**
3.3 J	**3.8 J**	**4.4 J**	**4.4 J**	**4.2 J**
< 500	< 500	< 500	< 500	500R
< 500	< 500	< 500	< 500	500R
< 500	< 500	< 500	< 500	500R
< 500	< 500	< 500	< 500	500R
< 7.0	< 7.0	< 7.0	< 7.0	7.0R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
31 J	**32 J**	**33 J**	**32 J**	**32 J**
< 50	< 50	< 50	< 50	50R
250	**270**	**270**	**270**	**300 J**
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
4.7 J	< 50	**5.9J**	**6.1J**	50R
< 50	< 50	< 50	< 50	50R
1800	**1900**	**1900**	**1900**	**2000J**
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
< 20	< 20	< 20	< 20	50R
< 50	< 50	< 50	< 50	50R
< 50	< 50	< 50	< 50	50R
2100	**2200**	**2200**	**2200**	**2400**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 5/19/2011	MW-116-5 6/21/2011	MW-116-5 7/19/2011
1,1,1-Trichloroethane	< 50	<100	<100
1,1,2,2-Tetrachloroethane	< 50	<100	<100
1,1,2-Trichloroethane	**3.6 J**	<100	<100
1,1-Dichloroethane	< 50	<100	<100
1,1-Dichloroethene	**6.1 J**	<100	**6.2 J**
1,2-Dichloroethane	**17 J**	**15 J**	**15 J**
1,2-Dichloropropane	**5.6 J**	<100	**7.0 J**
2-Butanone	< 500	< 1000	< 1000
2-Hexanone	< 500	< 1000	< 1000
4-methyl-2-pentanone	< 500	< 1000	< 1000
Acetone	< 500	< 1000	< 1000
Benzene	< 7.0	< 14	< 14
Bromodichloromethane	< 50	<100	<100
Bromoform	< 50	<100	<100
Bromomethane	< 50	<100	<100
Carbon Disulfide	< 50	<100	<100
Carbon Tetrachloride	< 50	<100	<100
Chlorobenzene	< 50	<100	<100
Chlorodifluoromethane (Freon 22)	< 50	<100	<100
Chloroethane	< 50	<100	<100
Chloroform	**34 J**	**28 J**	**28 J**
Chloromethane	< 50	<100	<100
cis-1,2-dichloroethene	**280**	**350**	**350**
cis-1,3-dichloropropene	< 50	<100	<100
Dibromochloromethane	< 50	<100	<100
Dichlorodifluoromethane (Freon 12)	< 50	<100	<100
Ethylbenzene	< 50	<100	<100
Methyl tert-Butyl Ether	< 50	<100	<100
Methylene Chloride	< 50	<100	<100
Styrene	< 50	<100	<100
Tetrachloroethene	< 50	<100	<100
Toluene	< 50	<100	<100
trans-1,2-dichloroethene	**4.3J**	<100	<100
trans-1,3-dichloropropene	< 50	<100	<100
Trichloroethylene	**2200**	**2300**	**2600**
Trichlorofluoromethane (CFC-11)	< 50	< 50	<100
Trichlorotrifluoroethane (Freon 113)	< 50	< 50	<100
Vinyl Chloride	< 20	< 20	< 40
Xylene-o	< 50	< 50	<100
Xylenes - m,p	< 50	< 50	<100
TVOCs	**2600**	**2700**	**3000**

Notes and Abbreviations on last page.

MW-116-5 8/22/2011	MW-116-5 9/22/2011	MW-116-5 10/17/2011	MW-116-5 11/16/2011	MW-116-5 12/21/2011
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	**4.8 J**	<100	< 100
<100	<100	<100	<100	< 100
6.0 J	**5.4 J**	**5 J**	**5.8 J**	< 100
14 J	**12 J**	**14 J**	**17 J**	**16 J**
6.6 J	<100	**8 J**	**8.6 J**	**7.6 J**
< 1000	< 1000	< 1000	< 1000	< 1000
< 1000	< 1000	< 1000	< 1000	< 1000
< 1000	< 1000	< 1000	< 1000	< 1000
< 1000	< 1000	< 1000	< 1000	< 1000
< 14	< 14	< 14	< 14	< 14
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
25 J	**29 J**	**25 J**	**26J**	**26 J**
<100	<100	<100	<100	< 100
270	**350**	**360**	**390**	**380**
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	**4.6 BJ**	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
<100	<100	**5 J**	<100	**9.6 J**
<100	<100	<100	<100	< 100
2700	**2600**	**3000**	**2900**	**2700**
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
< 40	< 40	< 40	< 40	< 40
<100	<100	<100	<100	< 100
<100	<100	<100	<100	< 100
3000	**3000**	**3400**	**3400**	**3100**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 1/24/2012	MW-116-5 2/22/2012	MW-116-5 3/30/2012
1,1,1-Trichloroethane	< 100	< 100	< 100
1,1,2,2-Tetrachloroethane	< 100	< 100	< 100
1,1,2-Trichloroethane	< 100	< 100	< 100
1,1-Dichloroethane	< 100	< 100	< 100
1,1-Dichloroethene	< 100	**4.4 J**	**5.4 J**
1,2-Dichloroethane	**20 J**	**16 J**	**13 J**
1,2-Dichloropropane	< 100	< 100	< 100
2-Butanone	< 1000	< 1000	< 1000
2-Hexanone	< 1000	< 1000	< 1000
4-methyl-2-pentanone	< 1000	< 1000	< 1000
Acetone	< 1000	< 1000	< 1000
Benzene	< 14	< 14	< 14
Bromodichloromethane	< 100	< 100	< 100
Bromoform	< 100	< 100	< 100
Bromomethane	< 100	< 100	< 100
Carbon Disulfide	< 100	< 100	< 100
Carbon Tetrachloride	< 100	< 100	< 100
Chlorobenzene	< 100	< 100	< 100
Chlorodifluoromethane (Freon 22)	< 100	< 100	< 100
Chloroethane	< 100	< 100	< 100
Chloroform	**35 J**	**26 J**	**20 J**
Chloromethane	< 100	< 100	< 100
cis-1,2-dichloroethene	**430**	**370**	**270**
cis-1,3-dichloropropene	< 100	< 100	< 100
Dibromochloromethane	< 100	< 100	< 100
Dichlorodifluoromethane (Freon 12)	< 100	< 100	< 100
Ethylbenzene	< 100	< 100	< 100
Methyl tert-Butyl Ether	< 100	< 100	< 100
Methylene Chloride	< 100	**5 J**	< 100
Styrene	< 100	< 100	< 100
Tetrachloroethene	< 100	< 100	< 100
Toluene	< 100	< 100	< 100
trans-1,2-dichloroethene	**11 J**	**4.8 J**	< 100
trans-1,3-dichloropropene	< 100	< 100	< 100
Trichloroethylene	**2400**	**2500**	**1900**
Trichlorofluoromethane (CFC-11)	< 100	< 100	< 100
Trichlorotrifluoroethane (Freon 113)	< 100	< 100	< 100
Vinyl Chloride	< 40	< 40	< 40
Xylene-o	< 100	< 100	< 100
Xylenes - m,p	< 100	< 100	< 100
TVOCs	**2900**	**2900**	**2200**

Notes and Abbreviations on last page.

MW-116-5 4/30/2012	MW-116-5 5/30/2012	MW-116-5 6/28/2012	MW-116-5 7/24/2012	MW-116-5 8/30/2012
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	**2.3 J**	<50
< 100	<50	<50	<50	<50
4.2 J	**3.6 J**	<50	**2.8 J**	**2.6 J**
9.4 J	**10 J**	<50	**10 J**	**7.9 J**
6.2 J	**4.9 J**	**5.2 J**	**4.3 J**	**3.2 J**
< 1000	<500	<500	<500	<500
< 1000	<500	<500	<500	<500
< 1000	<500	<500	<500	<500
< 1000	<500	<500 B	<500	<500
< 14	< 7	< 7	<7	<7
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
13 J	**14 J**	**14 J**	**14 J**	**13 J**
< 100	<50	<50	<50	<50
230	**210**	**210**	**200**	**190**
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
4.6 J	**3.7 J**	**2.2 J**	<50	<50
< 100	<50	<50	<50	<50
1900	**2000**	**1900**	**1900**	**1700**
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
< 40	< 20	<50	<20	<20
< 100	<50	<50	<50	<50
< 100	<50	<50	<50	<50
2200	**2200**	**2100**	**2100**	**1900**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 9/20/2012	MW-116-5 11/13/2012	MW-116-5 12/19/2012
1,1,1-Trichloroethane	<50	< 50	< 50
1,1,2,2-Tetrachloroethane	<50	< 50	< 50
1,1,2-Trichloroethane	**2.6 J**	< 50	**2.5 J**
1,1-Dichloroethane	<50	< 50	< 50
1,1-Dichloroethene	**2.5 J**	**3.5 J**	**2.5 J**
1,2-Dichloroethane	**9.3 J**	**8.5 J**	**9.8 J**
1,2-Dichloropropane	**5.2 J**	**5.2 J**	**5.9 J**
2-Butanone	<500	< 500	< 500
2-Hexanone	<500	< 500	< 500
4-methyl-2-pentanone	<500	< 500	< 500
Acetone	<500	< 500	< 500
Benzene	<7	< 7	< 7
Bromodichloromethane	<50	< 50	< 50
Bromoform	<50	< 50	< 50
Bromomethane	<50	< 50	< 50
Carbon Disulfide	<50	< 50	< 50
Carbon Tetrachloride	<50	< 50	< 50
Chlorobenzene	<50	< 50	< 50
Chlorodifluoromethane (Freon 22)	<50	< 50	< 50
Chloroethane	<50	< 50	< 50
Chloroform	**13 J**	**12 J**	**14 J**
Chloromethane	<50	< 50	< 50
cis-1,2-dichloroethene	**220**	**190**	**210**
cis-1,3-dichloropropene	<50	< 50	< 50
Dibromochloromethane	<50	< 50	< 50
Dichlorodifluoromethane (Freon 12)	<50	< 50	< 50
Ethylbenzene	<50	< 50	< 50
Methyl tert-Butyl Ether	<50	< 50	< 50
Methylene Chloride	<50	< 50	< 50
Styrene	<50	< 50	< 50
Tetrachloroethene	<50	< 50	< 50
Toluene	<50	< 50	< 50
trans-1,2-dichloroethene	**2.2 J**	< 50	**2.5 J**
trans-1,3-dichloropropene	<50	< 50	< 50
Trichloroethylene	**1900**	**1700**	**1900**
Trichlorofluoromethane (CFC-11)	<50	< 50	< 50
Trichlorotrifluoroethane (Freon 113)	<50	< 50	< 50
Vinyl Chloride	<20	< 20	< 20
Xylene-o	<50	< 50	< 50
Xylenes - m,p	<50	< 50	< 50
TVOCs	**2200**	**1900**	**2100**

Notes and Abbreviations on last page.

MW-116-5 1/24/2013	MW-116-5 2/22/2013	MW-116-5 3/25/2013	MW-116-5 4/25/2013	MW-116-5 5/17/2013
< 50	< 50 U	< 50 U	<50	< 50
< 50	< 50 U	< 50 U	<50	< 50
2.1 J	< 50 U	**3.3 J**	**2.6 J**	**3.2 J**
< 50	< 50 U	< 50 U	<50	< 50
2.6 J	**2.6 J**	**3.4 J**	**4.0 J**	**5.0 J**
8.5 J	**8.7 J**	**11 J**	**11 J**	**13 J**
4.2 J	**5.4 J**	**5.0 J**	**4.3 J**	**5.5 J**
< 500	< 500	< 500	<500	< 500
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 500	< 500	< 500	< 500	< 500
< 7	< 7	< 7	<7	< 7
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
15 J	**15 J**	**16 J**	**17 J**	**20 J**
< 50	< 50	< 50	< 50	< 50
200	**200**	**210**	**250**	**270**
< 50	< 50	< 50	<50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 50	**2.6 J**	< 50	< 50	**4.1 J**
< 50	< 50	< 50	< 50	< 50
1800	**2100 D**	**1900**	**1900**	**1900**
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
< 20	< 20	< 20	< 20	< 20
< 50	< 50	< 50	< 50	< 50
< 50	< 50	< 50	< 50	< 50
2000	**2300**	**2200**	**2200**	**2200**

Table 1: Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 6/4/2013	MW-116-5 7/26/2013	MW-116-5 8/23/2013
1,1,1-Trichloroethane	**1.8**	**2.2 J**	< 100 J
1,1,2,2-Tetrachloroethane	<0.50	<50	< 100 J
1,1,2-Trichloroethane	**3.2**	**3.4 J**	< 100 J
1,1-Dichloroethane	**1.9**	**2.5 J**	< 100 J
1,1-Dichloroethene	**6.6**	**4.7 J**	**5.8 J**
1,2-Dichloroethane	**16.9**	**17 J**	**18 J**
1,2-Dichloropropane	**5.3**	**6.3 J**	< 100 J
2-Butanone	<2.5	<500	< 1000 J
2-Hexanone	<2.5	<500	< 1000 J
4-methyl-2-pentanone	<2.5	<500	< 1000 J
Acetone	<5.0	<500	< 1000 J
Benzene	<0.50	<7	< 14 J
Bromodichloromethane	<0.50	<50	< 100 J
Bromoform	<0.50	<50	< 100 J
Bromomethane	<0.50	<50	< 100 J
Carbon Disulfide	<0.50	<50	< 100 J
Carbon Tetrachloride	**1.6**	<50	< 100 J
Chlorobenzene	<0.50	<50	< 100 J
Chlorodifluoromethane (Freon 22)	<0.50	<50	< 100 J
Chloroethane	<0.50	<50	< 100 J
Chloroform	**26.1**	**24 J**	**24 J**
Chloromethane	<0.50	<50	< 100 J
cis-1,2-dichloroethene	**332 D**	**390**	**380 J**
cis-1,3-dichloropropene	<0.50	<50	< 100 J
Dibromochloromethane	<0.50	<50	< 100 J
Dichlorodifluoromethane (Freon 12)	<0.50	<50	< 100 J
Ethylbenzene	<0.50	<50	< 100 J
Methyl tert-Butyl Ether	<0.50	<50	< 100 J
Methylene Chloride	<0.50	<50	< 100 J
Styrene	<0.50	<50	< 100 J
Tetrachloroethene	**1.4**	<50	< 100 J
Toluene	<0.50	<50	< 100 J
trans-1,2-dichloroethene	**1.5**	**5.9 J**	< 100 J
trans-1,3-dichloropropene	<0.50	<50	< 100 J
Trichloroethylene	**2480 D**	**2600 D**	**2600 J**
Trichlorofluoromethane (CFC-11)	<0.50	<50	< 100 J
Trichlorotrifluoroethane (Freon 113)	--	<50	< 100 J
Vinyl Chloride	<0.50	<20	< 40 J
Xylene-o	<0.50	<50	< 100 J
Xylenes - m,p	<1.0	<50	< 100 J
TVOCs	**2900**	**3100**	**3000**

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MW-116-5 9/26/2013	MW-116-5 10/24/2013	MW-116-5 11/20/2013	MW-116-5 12/27/2013	MW-116-5 1/23/2014
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
4.6 J	<100	<100	**5.6 J**	**6.0 J**
<100	<100	<100	<100	<100
7.0J	**6.0 J**	**7.0 J**	**7.6 J**	**5.8 J**
18J	**19 J**	**20 J**	**20 J**	**21 J**
8.6J	**6.8 J**	**8.0 J**	**8.4 J**	**7.6 J**
<1000	<1000	<1000	<1000	<1000
<1000	<1000	<1000	<1000	<1000
<1000	<1000	<1000	<1000	<1000
<1000	<1000	<1000	<1000	<1000
<14	<14	<14	<14	<14
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
26J	**26 J**	**28 J**	**30 J**	**28 J**
<100	<100	<100	<100	<100
420	**430**	**470**	**460**	**430**
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	**5.4 J**	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	**4.4 J**	<100	<100	<100
<100	<100	<100	<100	<100
2600	**2700**	**2700**	**2700**	**2800**
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
<100	<100	<100	<100	<100
3100	**3200**	**3200**	**3200**	**3300**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 2/20/2014	MW-116-5 3/19/2014	MW-116-5 4/21/2014
1,1,1-Trichloroethane	<100	<100	<100
1,1,2,2-Tetrachloroethane	<100	<100	<100
1,1,2-Trichloroethane	**4.4 J**	**5.2 J**	**5.0 J**
1,1-Dichloroethane	<100	<100	<100
1,1-Dichloroethene	**4.2 J**	**5.8 J**	**4.2 J**
1,2-Dichloroethane	**18 J**	**18 J**	**17 J**
1,2-Dichloropropane	**7.8 J**	**6.6 J**	**5.4 J**
2-Butanone	<1000	<1000	<1000
2-Hexanone	<1000	<1000	<1000
4-methyl-2-pentanone	<1000	<1000	<1000
Acetone	<1000	<1000	<1000
Benzene	<14	<14	<14
Bromodichloromethane	<100	<100	<100
Bromoform	<100	<100	<100
Bromomethane	<100	<100	<100
Carbon Disulfide	<100	<100	<100
Carbon Tetrachloride	<100	<100	<100
Chlorobenzene	<100	<100	<100
Chlorodifluoromethane (Freon 22)	<100	<100	<100
Chloroethane	<100	<100	<100
Chloroform	**25 J**	**25 J**	**25 J**
Chloromethane	<100	<100	<100
cis-1,2-dichloroethene	**450**	**440**	**390**
cis-1,3-dichloropropene	<100	<100	<100
Dibromochloromethane	<100	<100	<100
Dichlorodifluoromethane (Freon 12)	<100	<100	<100
Ethylbenzene	<100	<100	<100
Methyl tert-Butyl Ether	<100	<100	<100
Methylene Chloride	<100	<100	**7.0 J**
Styrene	<100	<100	<100
Tetrachloroethene	<100	**5.4 J**	<100
Toluene	<100	<100	<100
trans-1,2-dichloroethene	<100	<100	<100
trans-1,3-dichloropropene	<100	<100	<100
Trichloroethylene	**2700**	**2800**	**2700**
Trichlorofluoromethane (CFC-11)	<100	<100	<100
Trichlorotrifluoroethane (Freon 113)	<100	<100	<100
Vinyl Chloride	<100	<100	<100
Xylene-o	<100	<100	<100
Xylenes - m,p	<100	<100	<100
TVOCs	**3200**	**3300**	**3200**

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MW-116-5 5/23/2014	MW-116-5 6/12/2014	MW-116-5 7/14/2014	MW-116-5 8/13/2014	MW-116-R 8/13/2014
1.7 J	<50	**1.3 J**	<25	<50
< 25	<50	<25	<25	<50
3.5 J	<50	**1.6 J**	**2.2 J**	<50
2.1 J	<50	**1.8 J**	**2.0 J**	**2.6 J**
4.9 J	**4.8 J**	**4.4 J**	**4.3 J**	<50
16 J	**12 J**	**13 J**	**15 J**	**16 J**
3.6 J	**4.1 J**	**3.4 J**	**3.7 J**	**3.9 J**
< 250	<500	< 250	< 250	<500
< 250	<500	< 250	< 250	<500
< 250	<500	< 250	< 250	<500
< 250	<500	< 250	< 250	<500
< 3.5	<7.0	< 3.5	< 3.5	<7.0
< 25	<50	< 25	< 25	<50
< 25	<50	< 25	< 25	<50
< 25	<50	< 25	< 25	<50
< 25	<50	< 25	< 25	<50
1.5 J	<50	< 25	< 25	<50
1.3 J	<50	< 25	< 25	<50
< 25	<50	< 25	< 25	<50
< 25	<50	< 25	< 25	<50
21 J	**18 J**	**15 J**	**17 J**	**18 J**
< 25	<50	<25	< 25	<50
310	**240**	**230**	**230**	**250**
< 25	<50	<25	<25	<50
< 25	<50	<25	<25	<50
< 25	<50	<25	<25	<50
< 25	<50	<25	<25	<50
--	--	--	--	--
< 25	<50	< 25 B	<25	<50
< 25	<50	< 25	<25	<50
1.5 J	<50	**1.2 J**	<25	<50
< 25	<50	< 25	<25	<50
3.2 J	<50	**2.4 J**	**3.1 J**	<50
< 25	<50	<25	<25	<50
2000 D	**1600**	**1500 D**	**1600 D**	**1500**
--	--	--	--	--
< 25	<50	< 25	< 25	<50
< 10	<20	< 10	< 10	<20
< 25	<50	< 25	< 25	<50
< 25	<50	< 25	< 25	<50
2400	**1900**	**1800**	**1900**	**1800**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 9/10/2014	MW-116-5 10/13/2014	MW-116-5 11/10/2014
1,1,1-Trichloroethane	<25	**2.2**	**1.5**
1,1,2,2-Tetrachloroethane	<25	<1	< 1.0
1,1,2-Trichloroethane	<25	**2.9**	**1.9**
1,1-Dichloroethane	<25	**3.3**	**2.6**
1,1-Dichloroethene	<25	**7.3**	**5.3**
1,2-Dichloroethane	<25	**16.4**	**12.5**
1,2-Dichloropropane	<25	**5.5**	**4.0**
2-Butanone	<50	<10	<10
2-Hexanone	<50	<5	<5
4-methyl-2-pentanone	<50	<5	<5
Acetone	<50	<10	<10
Benzene	<25	<1	<1
Bromodichloromethane	<25	<1	<1
Bromoform	<25	<4	<4
Bromomethane	<25	<2	<2
Carbon Disulfide	<50	<2	<2
Carbon Tetrachloride	<25	**2.4**	**1.8**
Chlorobenzene	<25	<1	<1
Chlorodifluoromethane (Freon 22)	<25 J	<5	<5
Chloroethane	<25	<1	<1
Chloroform	<25	**23.9**	**17.0**
Chloromethane	<25 J	<1	<1
cis-1,2-dichloroethene	**250**	**220 D**	**242 D**
cis-1,3-dichloropropene	<25	<1	<1
Dibromochloromethane	<25	<1	<1
Dichlorodifluoromethane (Freon 12)	<25	<5	<5
Ethylbenzene	<25	<1	<1
Methyl tert-Butyl Ether	--	--	--
Methylene Chloride	<25	<2	<2
Styrene	<25	<5	<5
Tetrachloroethene	<25	**1.4 J**	**0.99 J**
Toluene	<25	<1	<1
trans-1,2-dichloroethene	<25	**3.6**	**2.2**
trans-1,3-dichloropropene	<25	<1	<1
Trichloroethylene	**1700 D**	**1640 D**	**1410 D**
Trichlorofluoromethane (CFC-11)	--	--	--
Trichlorotrifluoroethane (Freon 113)	<25	<5	<5
Vinyl Chloride	<25	<1	<1
Xylene-o	<25	<1	<1
Xylenes - m,p	<25	<1	<1
TVOCs	**2000**	**1900**	**1700**

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MW-116-5 12/17/2014	MW-116-5 1/15/2015	MW-116-5 2/10/2015	MW-116-5 3/10/2015	MW-116-5 4/9/2015
<10	<5.0	**1.3 J**	**1.5**	**1.4**
<10	<5.0	< 2.5	<1.0	<1.0
<10	**2.6 J**	**2.2 J**	**2**	**1.8**
<10	**2.7 J**	**2.3 J**	**2.3**	**2.1**
<10	**5.8**	**3.4**	**3.8**	**4**
13.8	**13.8**	**14.5**	**12.8**	**11.8**
<10	**5.2**	**3.8**	**4**	**3.3**
<100	<50	< 25	<10	<10
<50	<25	< 13	<5.0	<5.0
<50	<25	< 13	<5.0	<5.0
<100	<50	< 25	<10	<10
<10	<5.0	< 2.5	<1.0	<0.50
<10	<5.0	< 2.5	<1.0	<1.0
<40	<20	< 10	<4.0	<1.0
<20	<10	< 5.0	<2.0	<2.0
<20	<10	< 5.0	<2.0	<2.0
<10	**1.8 J**	**1.8 J**	**1.8**	**1.5**
<10	<5.0	< 2.5	<1.0	<1.0
<50	<25	< 13	<5.0	<5.0
<10	<5.0	< 2.5	<1.0	<1.0
16.5	**18.7**	**16.1**	**15.7**	**14.5**
<10	<5.0	< 2.5	<1.0	<1.0
233	**309**	**224**	**223 D**	**206 D**
<10	<5.0	< 2.5	<1.0	<1.0
<10	<5.0	< 2.5	<1.0	<1.0
<50	<25	< 13	<5.0	<2.0
<10	<5.0	< 2.5	<1.0	<1.0
--	--	--	--	--
<20	<10	< 5.0	<2.0	<2.0
<50	<25	< 13	<5.0	<1.0
<10	<5.0	**1.1 J**	**1**	**1**
<10	<5.0	< 2.5	<1.0	<1.0
8.5 J	<5.0	**7.5**	**3.3**	**2**
<10	<5.0	< 2.5	<1.0	<1.0
1430	**1690 D**	**1500 D**	**1510 D**	**1340 D**
--	--	--	--	--
<50	<25	< 13	<5.0	<5.0
<10	<5.0	< 2.5	<1.0	<1.0
<10	<5.0	< 2.5	<1.0	<1.0
<10	<5.0	< 2.5	<1.0	<1.0
1700	**2000**	**1800**	**1800**	**1600**

Table 1. Concentrations of Volatile Organic Compounds in Groundwater Samples Collected from Monitoring Well MW116-5, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID: MW-116-5 Sample Date: 5/19/2015	MW-116-5 6/5/2015	MW-116-5 7/8/2015
1,1,1-Trichloroethane	<10	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10	<10
1,1,2-Trichloroethane	<10	<10	<10
1,1-Dichloroethane	**2.3 J**	<10	<10
1,1-Dichloroethene	<10	<10	<10
1,2-Dichloroethane	**11.0**	**11.2**	**14.5**
1,2-Dichloropropane	<10	<10	<10
2-Butanone	<100	<100	<100
2-Hexanone	<50	<50	<50
4-methyl-2-pentanone	<50	<50	<50
Acetone	<100	<100	<100
Benzene	<5.0	<5.0	<5.0
Bromodichloromethane	<10	<10	<10
Bromoform	<10	<10	<10
Bromomethane	<20	<20	<20
Carbon Disulfide	<20	<20	<20
Carbon Tetrachloride	<10	<10	<10
Chlorobenzene	<10	<10	<10
Chlorodifluoromethane (Freon 22)	<50	<50	<50
Chloroethane	<10	<10	<10
Chloroform	**16.1**	**14.1**	**16**
Chloromethane	<10	<10	<10 J
cis-1,2-dichloroethene	**224**	**189**	**217**
cis-1,3-dichloropropene	<10	<10	<10
Dibromochloromethane	<10	<10	<10
Dichlorodifluoromethane (Freon 12)	<20	<20	<20
Ethylbenzene	<10	<10	<10
Methyl tert-Butyl Ether	--	--	--
Methylene Chloride	<20	<20	<20
Styrene	<10	<10	<10
Tetrachloroethene	<10	<10	<10
Toluene	<10	<10	<10
trans-1,2-dichloroethene	<10	<10	<10
trans-1,3-dichloropropene	<10	<10	<10
Trichloroethylene	**1640**	**1410**	**1530**
Trichlorofluoromethane (CFC-11)	--	--	--
Trichlorotrifluoroethane (Freon 113)	<50	<50	<50
Vinyl Chloride	<10	<10	<10
Xylene-o	<10	<10	<10
Xylenes - m,p	<10	<10	<10
TVOCs	**1900**	**1600**	**1800**

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MW-116-5 8/6/2015
<10
<10
<10
3.1 J
<10
13.3
4.2 J
<100
<50
<50
<100
<5.0
<10
<10
<20
<20
<10
<10
<50
<10
18.4
<10
238
<10
<10
<20
<10
--
<20
<10
<10
<10
11
<10
1690
--
<50
<10
<10
<10
2000

Notes and Abbreviations:

Results validated following protocols specified in March 2006 RI/FS Work Plan (ARCADIS G&M, Inc. 2006).

Samples collected between 4/11/2008 and 7/14/2014 were analyzed for the TCL VOCs using NYSDEC ASP Method 2000 OLM4.3.

Samples collected subsequent to 8/13/2014 were analyzed for TCL VOCs using EPA Method 8260C.

TVOCs are rounded to two significant figures.

"B" qualified data not included in sum of VOCs.

(1) : Detected concentrations are estimated and non-detected values are rejected because sample was analyzed one day out of the allowable holding time.

Bold value indicates a detection.

RI/FS

NYSDEC

TCL

VOC

TVOC

ASP

MW-116R

ug/L

B

J

R

D

--

Remedial Investigation/Feasibility Study

New York State Department of Environmental Conservation

Target compound list

Volatile Organic Compound

Total Volatile Organic Compounds

Analytical services protocol

Replicate

Micrograms per liter

Compound detected in associated blank sample

Value is estimated

Value is rejected

Value from a secondary dilution

Not Analyzed