

THOMAS R. SUOZZI
COUNTY EXECUTIVE



RAYMOND A. RIBEIRO, P.E.
COMMISSIONER

COUNTY OF NASSAU
DEPARTMENT OF PUBLIC WORKS
1194 PROSPECT AVENUE
WESTBURY, NEW YORK 11590-2723

October 30, 2008

New York State Department of
Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control
625 Broadway
Albany, New York 12233

Att: Cynthia Whitfield, P.E.
Environmental Engineer II

Re: 2008 Monthly Effluent Monitoring Reports
Nassau County Fireman's Training Center, Site #1-30-042

Ladies and Gentlemen:

Attached are the June through September 2008 Monthly Effluent Monitoring Reports for the groundwater remediation at the Fireman's Training Center site in Old Bethpage, New York.

If you have any questions concerning the monthly monitoring reports, please contact Mr. Joseph Walker, Assistant Superintendent of Water Supply, at (516) 571-6983.

Very truly yours,

Kenneth G. Arnold, P.E.
Sanitary Engineer IV
Unit Head, Water/Wastewater Engineering Unit

KGA:JNW:jb
Attachments

c: Joseph L. Davenport, Deputy Commissioner of Public Works
William Spitz, Region 1, NYSDEC
Joseph N. Walker, Assistant Superintendent of Water Supply

**NASSAU COUNTY FIREMAN'S TRAINING CENTER
GROUNDWATER REMEDIATION FACILITY
MONTHLY EFFLUENT MONITORING REPORT
OUTFALL 001**

JUNE 2008

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMPT MDL	WEEK 1	WEEK 2	WEEK 3	WEEK 4
				6/3/08	06/10/08	06/17/08	06/24/08
FLOW, DAILY AVG	MONITOR	GPD	NA	815386	799000	830543	833714
FLOW, DAILY MAX	MONITOR	GPD	NA	820800	825600	840300	840200
1,1,1-TRICHLOROETHANE	5	µ g/l	1.4	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
1,2(CIS)-DICHLOROETHENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2(TRANS)-DICHLOROETHENE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
ACETONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL
BENZENE	0.7	µ g/l	0.7	BDL	BDL	BDL	BDL
CHLOROFORM	7	µ g/l	1.1	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µ g/l	0.7	BDL	BDL	BDL	BDL
DICHLOROBROMOMETHANE	50	µ g/l	0.9	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µ g/l	2.4	BDL	BDL	BDL	BDL
METHYL ETHYL KEYTONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL
NAPHTHALENE	10	µ g/l	1.7	BDL	BDL	BDL	BDL
o-XYLENE	5	µ g/l	1.3	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
TOLUENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µ g/l	1.7	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
TOTAL VOCs		µ g/l	0.0	0.0	0.0	0.0	0.0
BIS(2-ETHYLHEXYL)PHTHALATE	4.3	µ g/l	1.0	BDL	BDL	BDL	BDL
DIETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
DIMETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
DI-N-OCTYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
FLUORENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
PHENANTHRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
PYRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
ALUMINUM, TOTAL	2000	µ g/l	40.0	23.0	5.0	18.0	12.0
ARSENIC, TOTAL	50	µ g/l	48.0	BDL	BDL	BDL	BDL
CHROMIUM, TOTAL	50	µ g/l	2.0	BDL	BDL	BDL	BDL
IRON, TOTAL	600	µ g/l	2.0	171.0	86.0	191.0	585.0
MANGANESE, TOTAL	600	µ g/l	1.0	718.0	711.0	1380.0	674.0
NICKEL, TOTAL	2000	µ g/l	5.0	9.0	5.0	11.0	52.0
SUM IRON & MANGANESE	1000	µ g/l	NA	898.0	802.0	1582.0	1311.0

* Iron is a naturally occurring compound in Long Island groundwater. Elevated concentrations may occur

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GROUNDWATER REMEDIATION FACILITY
MONTHLY EFFLUENT MONITORING REPORT
OUTFALL 001**

JULY 2008

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMPT MDL	WEEK 1 7/1/08	WEEK 2 07/08/09	WEEK 3 07/15/08	WEEK 4* 07/22/08	WEEK 5 07/29/08
FLOW, DAILY AVG	MONITOR	GPD	NA	1041414	1024371	1053257	910000	1014186
FLOW, DAILY MAX	MONITOR	GPD	NA	1059100	1058800	1056000	1060000	1041100
1,1,1-TRICHLOROETHANE	5	µ g/l	1.4	BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µ g/l	1.1	BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
1,2(CIS)-DICHLOROETHENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
1,2(TRANS)-DICHLOROETHENE	5	µ g/l	1.1	BDL	BDL	BDL	BDL	BDL
ACETONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL	BDL
BENZENE	0.7	µ g/l	0.7	BDL	BDL	BDL	BDL	BDL
CHLOROFORM	7	µ g/l	1.1	BDL	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µ g/l	0.7	BDL	BDL	BDL	BDL	BDL
DICHLOROBROMOMETHANE	50	µ g/l	0.9	BDL	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µ g/l	2.4	BDL	BDL	BDL	BDL	BDL
METHYL ETHYL KEYTONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL	BDL
NAPHTHALENE	10	µ g/l	1.7	BDL	BDL	1.2	BDL	BDL
o-XYLENE	5	µ g/l	1.3	BDL	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
TOLUENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µ g/l	1.7	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µ g/l	1.1	BDL	BDL	BDL	BDL	BDL
TOTAL VOCs		µ g/l	0.0	0.0	0.0	0.0	0.0	0.0
BIS(2-ETHYLHEXYL)PHTHALATE	4.3	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
DIETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
DIMETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
DI-N-OCTYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
FLUORENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
PHENANTHRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
PYRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
ALUMINIUM, TOTAL	2000	µ g/l	40.0	23.0	33.0	BDL	25.0	18.0
ARSENIC, TOTAL	50	µ g/l	48.0	BDL	BDL	BDL	BDL	BDL
CHROMIUM, TOTAL	50	µ g/l	2.0	BDL	20.0	BDL	BDL	BDL
IRON, TOTAL	600	µ g/l	2.0	90.0	352.0	40.0	90.0	84.0
MANGANESE, TOTAL	600	µ g/l	1.0	533.0	552.0	566.0	511.0	554.0
NICKEL, TOTAL	2000	µ g/l	5.0	BDL	13.0	6.0	11.0	7.0
SUM IRON & MANGANESE	1000	µ g/l	NA	623.0	904.0	612.0	612.0	645.0

* Comparison to previous and subsequent samples indicate that the effluent sample was mislabeled SP-1B instead of SP-2.

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AUGUST 2008

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMPT MDL	WEEK 1 8/5/08	WEEK 2 08/12/08	WEEK 3 08/19/08	WEEK 4 08/26/08
FLOW, DAILY AVG	MONITOR	GPD	NA	1026343	1022029	1021243	1016214
FLOW, DAILY MAX	MONITOR	GPD	NA	1036400	1025800	1028400	1020900
1,1,1-TRICHLOROETHANE	5	µ g/l	1.4	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
1,2(CIS)-DICHLOROETHENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2(TRANS)-DICHLOROETHENE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
ACETONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL
BENZENE	0.7	µ g/l	0.7	BDL	BDL	BDL	BDL
CHLOROFORM	7	µ g/l	1.1	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µ g/l	0.7	BDL	BDL	BDL	BDL
DICHLOROBROMOMETHANE	50	µ g/l	0.9	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µ g/l	2.4	BDL	BDL	BDL	BDL
METHYL ETHYL KEYTONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL
NAPHTHALENE	10	µ g/l	1.7	BDL	BDL	BDL	BDL
o-XYLENE	5	µ g/l	1.3	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
TOLUENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µ g/l	1.7	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
TOTAL VOCs		µ g/l	0.0	0.0	0.0	0.0	0.0
BIS(2-ETHYLHEXYL)PHTHALATE	4.3	µ g/l	1.0	BDL	BDL	BDL	BDL
DIETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
DIMETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
DI-N-OCTYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
FLUORENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
PHENANTHRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
PYRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
ALUMINUM, TOTAL	2000	µ g/l	40.0	7.0	BDL	6.0	11.0
ARSENIC, TOTAL	50	µ g/l	48.0	BDL	BDL	BDL	BDL
CHROMIUM, TOTAL	50	µ g/l	2.0	BDL	BDL	BDL	BDL
IRON, TOTAL	600	µ g/l	2.0	480.0	62.0	62.0	69.0
MANGANESE, TOTAL	600	µ g/l	1.0	555.0	509.0	517.0	494.0
NICKEL, TOTAL	2000	µ g/l	5.0	9.0	BDL	BDL	6.0
SUM IRON & MANGANESE	1000	µ g/l	NA	1044.0	571.0	579.0	569.0

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SEPTEMBER 2008

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMPT MDL	WEEK 1 9/2/08	WEEK 2 09/09/08	WEEK 3 09/16/08	WEEK 4 09/23/08
FLOW, DAILY AVG	MONITOR	GPD	NA	1006986	601157	983100	976386
FLOW, DAILY MAX	MONITOR	GPD	NA	1014800	1072200	1000100	986500
1,1,1-TRICHLOROETHANE	5	µ g/l	1.4	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
1,2(CIS)-DICHLOROETHENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2(TRANS)-DICHLOROETHENE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
ACETONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL
BENZENE	0.7	µ g/l	0.7	BDL	BDL	BDL	BDL
CHLOROFORM	7	µ g/l	1.1	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µ g/l	0.7	BDL	BDL	BDL	BDL
DICHLOROBROMOMETHANE	50	µ g/l	0.9	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µ g/l	2.4	BDL	BDL	BDL	BDL
METHYL ETHYL KEYTONE	50	µ g/l	10.0	BDL	BDL	BDL	BDL
NAPHTHALENE	10	µ g/l	1.7	BDL	BDL	BDL	BDL
o-XYLENE	5	µ g/l	1.3	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
TOLUENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µ g/l	1.7	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µ g/l	1.1	BDL	BDL	BDL	BDL
TOTAL VOCs		µ g/l	0.0	0.0	0.0	0.0	0.0
BIS(2-ETHYLHEXYL)PHTHALATE	4.3	µ g/l	1.0	BDL	BDL	BDL	BDL
DIETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
DIMETHYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
DI-N-OCTYL PHTHALATE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
FLUORENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
PHENANTHRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
PYRENE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
ALUMINUM, TOTAL	2000	µ g/l	40.0	BDL	3.0	7.0	12.0
ARSENIC, TOTAL	50	µ g/l	48.0	BDL	BDL	BDL	BDL
CHROMIUM, TOTAL	50	µ g/l	2.0	BDL	BDL	BDL	BDL
IRON, TOTAL	600	µ g/l	2.0	171.0	58.0	63.0	70.0
MANGANESE, TOTAL	600	µ g/l	1.0	484.0	492.0	485.0	479.0
NICKEL, TOTAL	2000	µ g/l	5.0	BDL	BDL	BDL	BDL
SUM IRON & MANGANESE	1000	µ g/l	NA	655.0	550.0	548.0	549.0