EDWARD P. MANGANO
COUNTY EXECUTIVE

SHILA SHAH-GAVNOUDIAS, P.E.
COMMISSIONER

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

November 13, 2017

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

RECEIVED
NOV 15 2017
REMEDIAL BUREAU A
DIV. OF ENV. REMEDIATION

Att: Ms. Cynthia Whitfield, P.E., Project Manager

Re: Purex Site @ Mitchel Field (Site # 130014)
Semi - Annual Results/revised groundwater monitoring program – 2017

To Whom It May Concern:

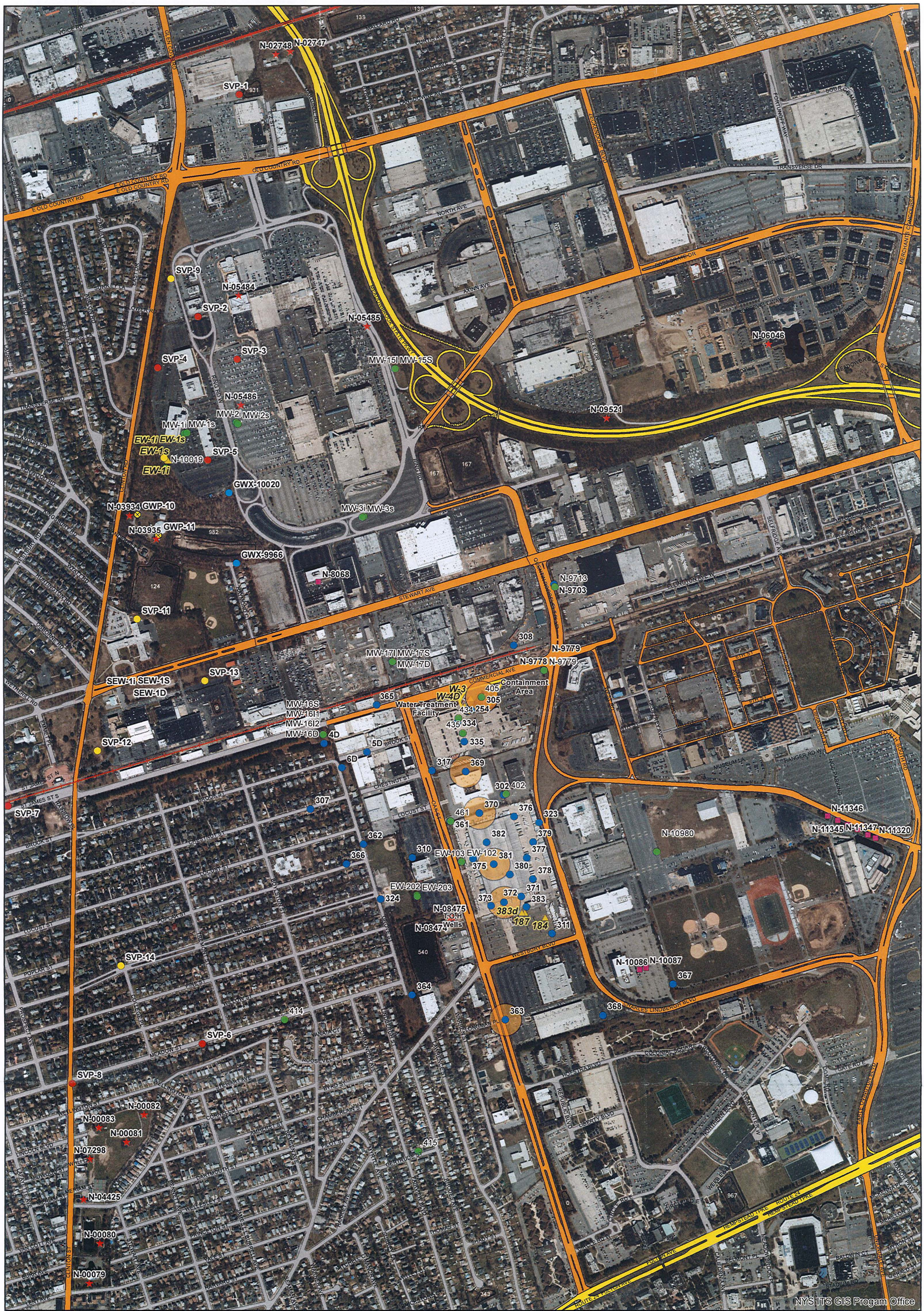
The Department would like to update your office on groundwater conditions at the former Purex site. Please find enclosed an updated well location map and the results of the New York State Department of Environmental Conservation Approved - Revised Semi-Annual Sampling Program. The results are consistent with those previously reported for the site, where groundwater collected from the seven (7) "plume core" wells is below the ***Water Condition*** specified in the ***Consent Decree*** for Total Volatile Organic Compounds (TVOC) and all individual compounds listed for the site.

If you require any additional information regarding these data please contact Mr. Michael Flaherty, Hydrogeologist III at (516) 571-7514.

Very truly yours,

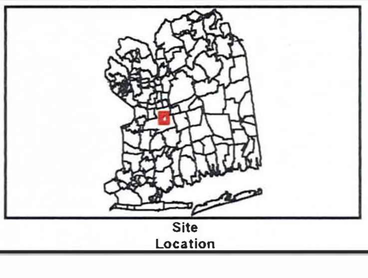
Shila Shah-Gavnoudias, P.E.
Commissioner of Public Works

SSG:KGA:JLD:rp
Attachment
c: Kenneth G. Arnold, Assistant to Commissioner of Public Works w/encl.
Joseph Defranco, Chief, Office of Soil and Groundwater Remediation, NCDH
Michael Flaherty, Hydrogeologist III
Walter J. Parish, Regional Hazardous Waste Engineer, NYSDEC



Legend

★ Roosevelt Field -Purex Area PS Wells	**Roadway**	▭ NASSAU.RechargeBasins
■ Heating-Cooling Wells	🟫 Other	─┼─ Railroad
● Monitoring Wells(Lower Magothy)	🟧 County	**Purex New RD Mulit-Port Wells**
● Monitoring Wells (Upper Magothy)	🟩 Federal	● Existing Conventional Well
△ Recovery Wells(Purex)	🟨 State	● Existing RD Multi-port Well
▭ Containment Area(Purex)		● Existing RI Multi-port Well
● Proposed Purex Sampling Well		⊗ Municipal Pumping Well
		⊙ Proposed New RD Mulit-port Well



Site Location

PUREX SITE & VICINITY

PROPOSED PUREX SAMPLING LOCATIONS - JUNE 2015

Mitchel Field, NY

Prepared By: - NCDPW - Water/Wastewater Engineering Unit

N
W E
S

0 80 160 320 480 640 800 Feet

Nassau County

Geographic Information System

Date: 5/27/2015

H:/Water-Wastewater Engineering/Purex/Proposed Purex Sampling Locations June 2015 Port 11x17 052715

PUREX SITE - Revised Sampling Program (PLUME CORE)
CLEANUP CRITERIA (Groundwater Condition) vs. VOC's 2017

VOLATILE ORGANICS COMPOUNDS (ppb)

	Purex Cleanup Criteria (ppb)	WELL W-305		WELL W-405		WELL W-369		WELL W-370		WELL W-381		WELL W-372		WELL W-363	
		DATE SAMPLED		DATE SAMPLED		DATE SAMPLED		DATE SAMPLED		DATE SAMPLED		DATE SAMPLED		DATE SAMPLED	
		4/28/17	10/16/17	4/28/17	10/16/17	4/27/17	10/10/17	4/24/17	10/10/17	5/2/17	10/17/17	4/24/17	10/10/17	4/27/17	10/11/71
1,1,1,2-Tetrachloroethane	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloro-1,1,2-trifluoroethane	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	50	BDL	BDL	BDL	BDL	2.2	3.5	BDL	1.7	BDL	BDL	1.9	2.7	BDL	BDL
1,1-Dichloroethene	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL
1,2-Dichloroethane	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	2.7	BDL	BDL	BDL	2.6	BDL	2.1	BDL	3	BDL	BDL	BDL	BDL
Benzene	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	100*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	100*	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	50	4.4	8	BDL	BDL	BDL	3.5	BDL	1.2	BDL	BDL	28.6	40.7	BDL	BDL
Dibromochloromethane	100*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m,p-Xylene	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
t-1,2 Dichloroethylene	50	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	50	16.2	34.9	1.4	2.5	7.8	4.6	BDL	BDL	BDL	BDL	5.2	5.5	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	50	4.2	4.7	BDL	BDL	6.8	7.4	1.3	BDL	BDL	BDL	6.9	BDL	BDL	BDL
Vinyl Chloride	5	BDL	1.1	BDL	BDL	1.2	1.3	1.1	BDL	BDL	BDL	4.3	4.1	BDL	BDL
TVOC	100	24.8	51.4	1.4	2.5	18.0	25.0	2.4	5.0	0.0	3.0	46.9	54.2	0.0	0.0

BDL - Below detection limits

B - Analyte detected in associated Method Blank

All results in ppb

* - Sum of these four compounds shall not exceed 100 ppb.

🟨 - Compound detected at conc. ***above*** cleanup criteria