

**PUREX SITE at MITCHEL FIELD
GROUNDWATER REMEDIATION**

DEPARTMENT OF PUBLIC WORKS

Nassau County

Long Island, New York



**ANNUAL
OPERATIONS and ENVIRONMENTAL
MONITORING SUMMARY**



2006

**Purex Site at Mitchel Field Groundwater Remediation
Annual Operations and Environmental
Monitoring Summary
For Year 2006**

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1.0 2006 Treatment Plant Operations

1.1 2006 Treatment Systems Configuration

Nassau County took over operation of the Mitchel Field Purex Groundwater Remediation Facility (MFPGRF) from Purex Corporation on January 1, 2003. Purex Corporation had operated the facility for nearly fourteen (14) years at the time of the transfer to the County. Operating Year (OY) 2006 was the fourth year of the site's operation by Nassau County.

The MFPGRF was constructed to extract contaminated groundwater from two separate areas (a highly contaminated source area which is surrounded by a slurry wall and a more diffuse down gradient plume area), treat the water to meet the State's required standards, and discharge the treated water to a County recharge basin. For OY 2006 (January 1, 2006 to December 31, 2006) there was one (1) plume area recovery well active for the most of MFPGRF. Following system repairs and stripping tower rehabilitation in October both the source area and plume area recovery well systems were operated for the remainder OY 2006.

Recovered water from both source area and plume area well locations was pumped via force mains to the MFPGRF located at the intersection of Oak Street and Commercial Avenue in East Garden City, New York. Once within the treatment facility, recovered water underwent air stripping treatment, with a typical air to water ratio of 50 to 1. After air stripping, treated water was pumped from the facility's effluent wet well to a County recharge basin.

1.2 Significant OY 2006 Operations Events

Source area recovery wells W-3 and W-4a were turned off from January 2, 2006 through November 5, 2006 due to the presence of volatile organic compounds in effluent at concentrations exceeding recharge criteria. In response to this condition the plant was shutdown from October 17, 2006 through November 5, 2006, to service all eight (8) air stripping towers and replace the packing in each tower. Groundwater treatment operations in both the source and plume areas resumed on November 6, 2006.

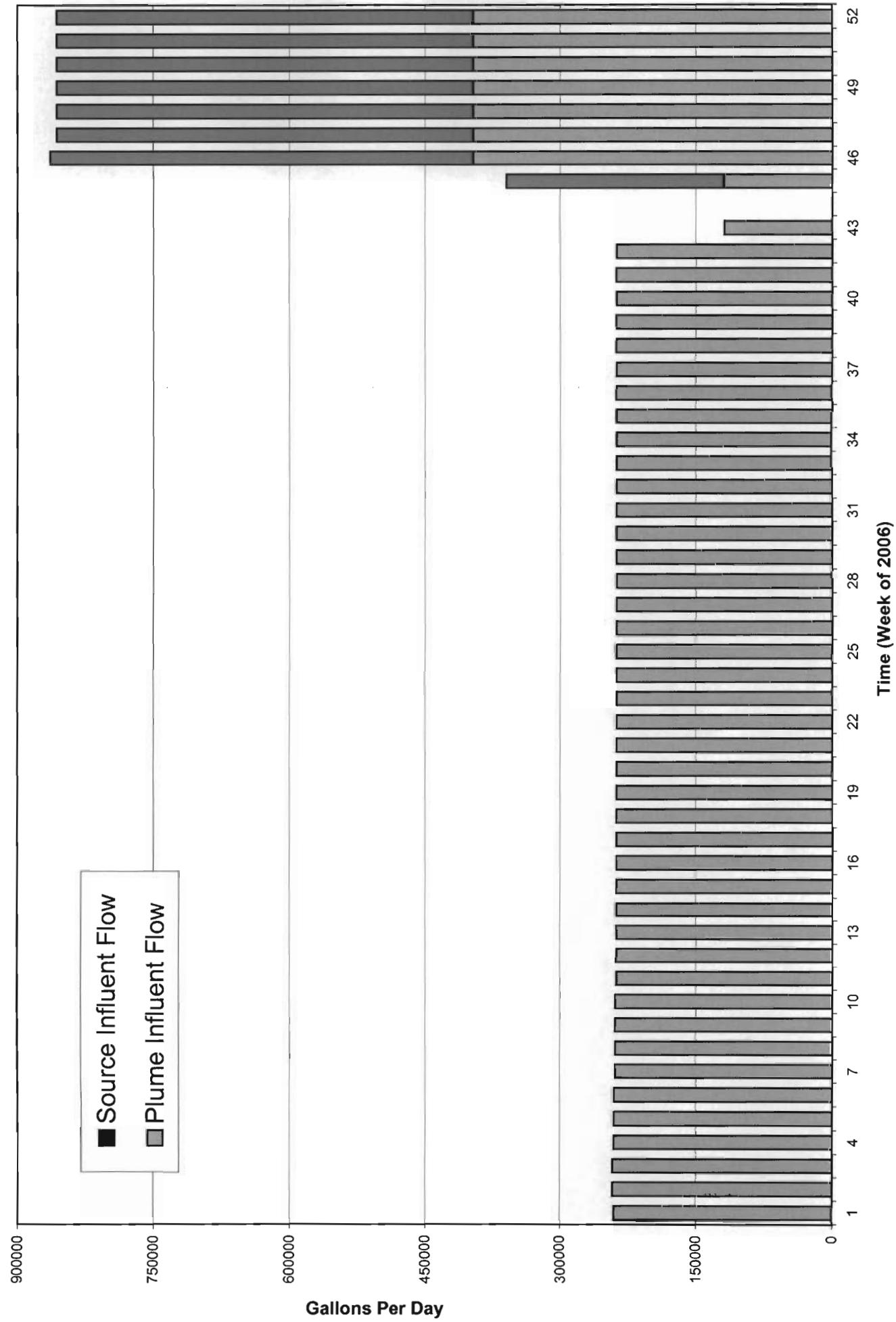
2.0 Treatment Plant Operations Monitoring Results

2.1 Total Flow and On-Line Performance

The MFPGRF pumped and treated a total of 113,290,320 gallons of contaminated groundwater in OY 2006. A total of 24,946,620 gallons was recovered from the source area system and a total of 88,343,700 gallons from the plume area system. Figure 1 shows daily flow rates for each week of OY 2006. Detailed monthly summaries of flow are presented below:

Figure 1

PUREX SITE - 2006
COMBINED INFLUENT FLOW



2006

MONTH	SOURCE (Gallons)	PLUME (Gallons)	TOTAL (Gallons)
JANUARY	0	7,444,800	7,444,800
FEBRUARY	0	6,694,560	6,694,560
MARCH	0	7,306,200	7,306,200
APRIL	0	7,128,000	7,128,000
MAY	0	7,014,150	7,014,150
JUNE	0	6,969,600	6,969,600
JULY	0	7,202,250	7,202,250
AUGUST	0	7,365,600	7,365,600
SEPTEMBER	0	7,128,000	7,128,000
OCTOBER	0	4,039,200	4,039,200
NOVEMBER	10,661,820	7,775,340	18,437,160
DECEMBER	14,284,800	12,276,000	26,560,800
TOTAL	24,946,620	88,343,700	113,290,320

The MFPGRF has treated 877,015,944 gallons of groundwater during the County's 4 years of operation of the remediation facility. A cumulative summary for each operating year is provided below:

<u>YEAR</u>	SOURCE <u>FLOW</u>	PLUME <u>FLOW</u>	ANNUAL <u>TOTAL</u>	CUMULATIVE <u>TOTAL</u>
2003	150,013,020	167,837,280	317,850,300	317,850,300
2004	74,133,324	202,205,520	276,338,844	594,189,144
2005	22,314,840	147,221,640	169,536,480	763,725,624
2006	24,946,620	88,343,700	113,290,320	877,015,944

The MFPGTF operated a total of 8401 hours out of a possible 8760 hours for the 12 months covered in this report's operating year. This resulted in an overall on-line performance of 96 % during OY 2006. The majority of the system's downtime in OY 2006 resulted from repairs and stripping tower rehabilitation (336 hrs.). Power outages in January (12 hrs.) and November (11 hrs.) also caused system downtime. Detailed monthly summaries of on-line performance are presented in Appendix A.

2.2 Influent Water Quality Results

2.2.1 Source Influent Water Quality Results

Source influent water quality samples were collected on a weekly basis. The samples were analyzed for volatile organic compounds (VOC's). Detailed monthly data summaries are presented in Appendix B.

In OY 2006 the source area wells were not operated until November following stripping tower rehabilitation.

Influent TVOC levels for the source area groundwater ranged from 1871.5 parts per billion (ppb) to 5937.4 ppb (Figure 2). Tetrachloroethene, Trichloroethene and Cis-1,2-Dichloroethene were the three (3) compounds that accounted for 74 % of the source area influent TVOC in OY 2006 (Figure 3).

2.2.2 Plume Influent Quality Results

Plume influent water quality samples were collected on a weekly basis. The samples were analyzed for VOC's. Detailed monthly summaries of the off-site influent quality results are presented in Appendix B.

The plume influent TVOCs ranged from 24.9 ppb to 113.7 ppb in OY 2006 (Figure 4). As observed with the source influent, 82% of the plume influent contamination was comprised of three (3) compounds, Tetrachloroethene, Trichloroethene and Cis-1,2-Dichloroethene (Figure 5).

2.3 Recovery Well Data

Both the source area and plume area recovery well systems were operated in OY 2006. Table 1 shows the operation of recovery wells on a weekly basis. No weekly water quality samples have been collected at the well head since the start of the remediation in 1990 due to confined space entry requirements.

2.4 Effluent Water Quality Results

Effluent water quality samples were collected on a weekly basis. The samples were analyzed for VOCs and pH. Detailed monthly summaries of the effluent quality results are presented in Appendix C.

In OY 2006 there were three (3) weeks where one or more effluent discharge limitations were exceeded. Tetrachloroethene was the principal compound that exceeded the individual discharge limitation.

Figure 2

PUREX SITE - 2006
SOURCE INFLUENT TOTAL VOLATILE ORGANIC COMPOUNDS

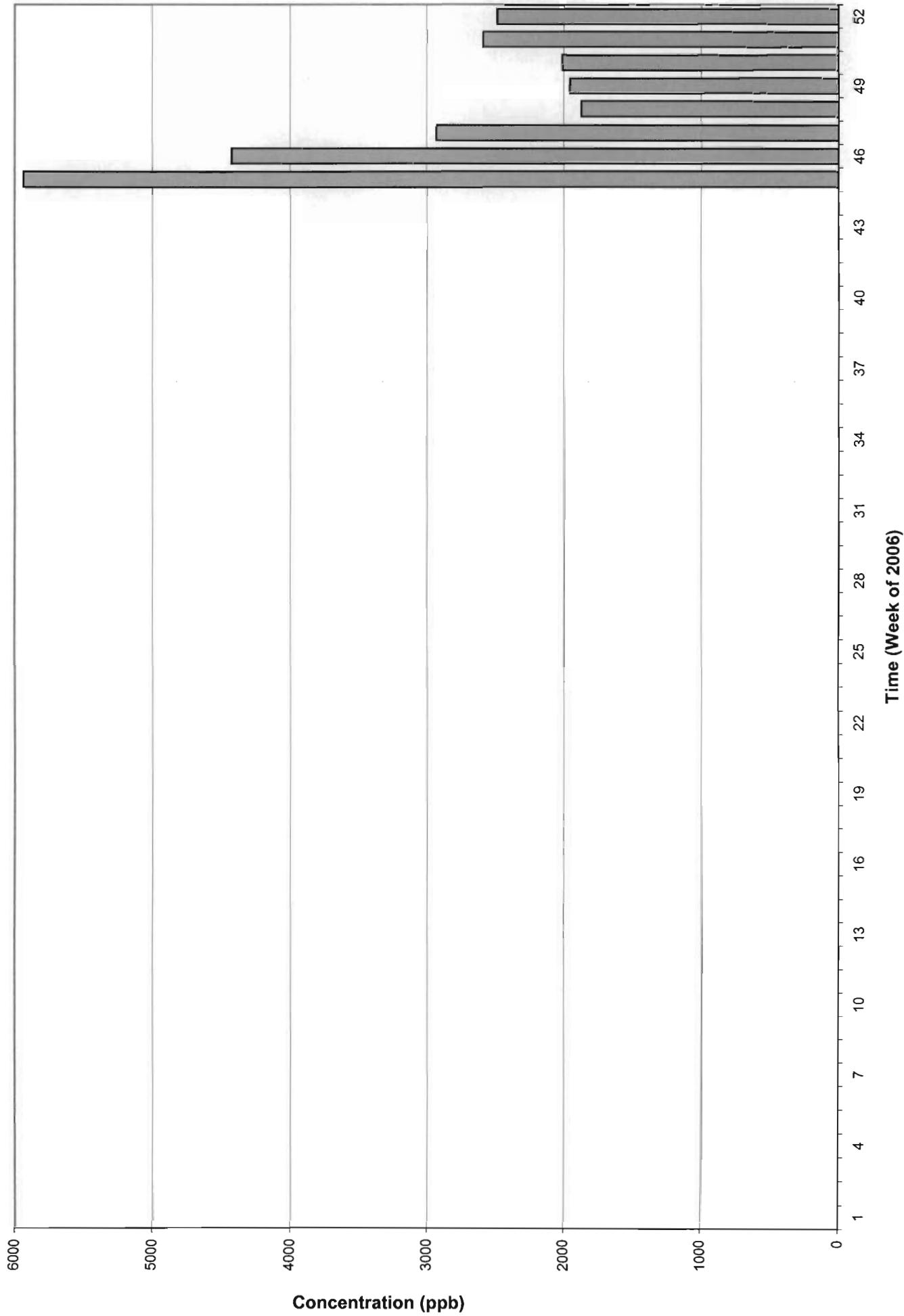


Figure 3

PUREX SITE - 2006
SOURCE INFLUENT VOLATILE ORGANIC COMPOUNDS

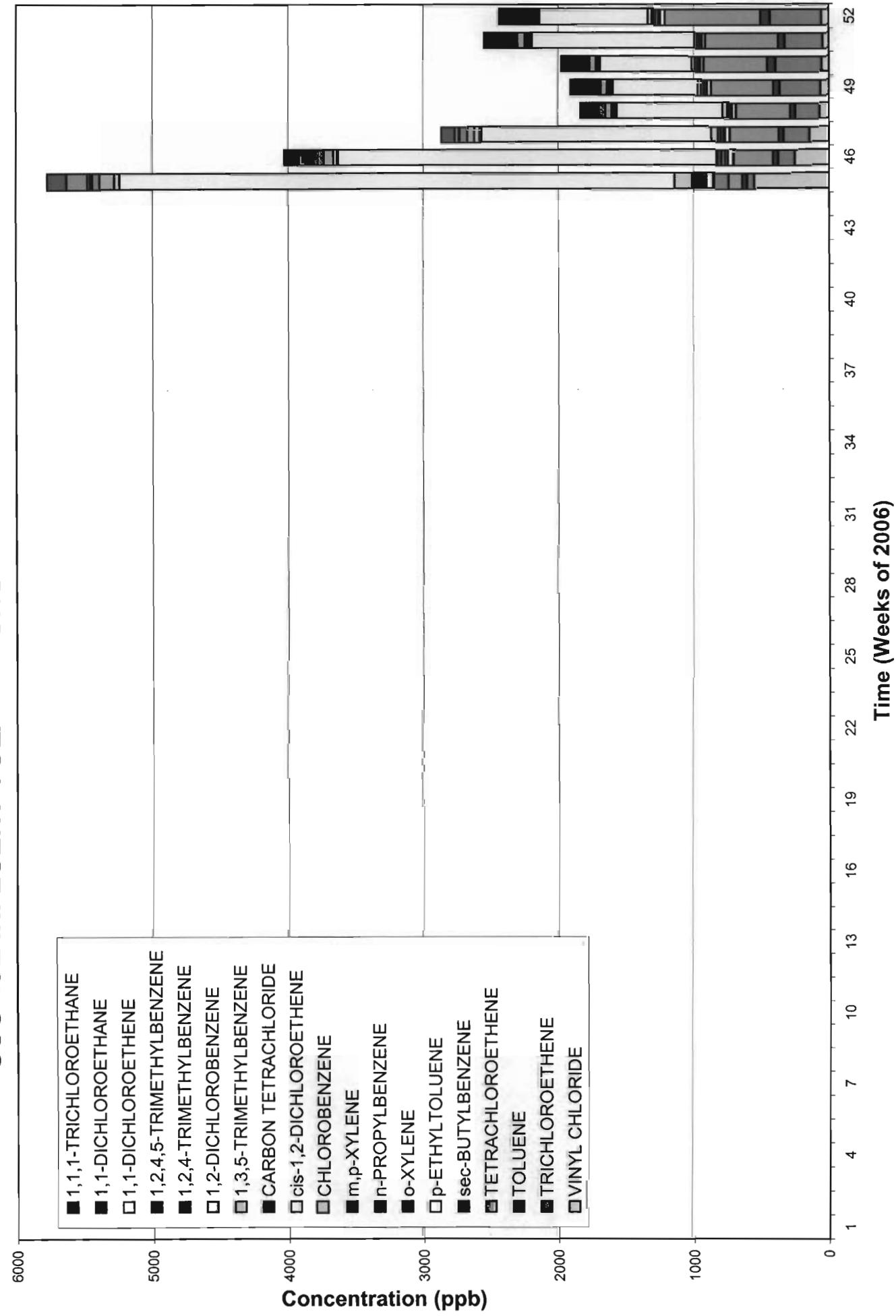


Figure 4

PUREX SITE - 2006
PLUME INFLUENT TOTAL VOLATILE ORGANIC COMPOUNDS

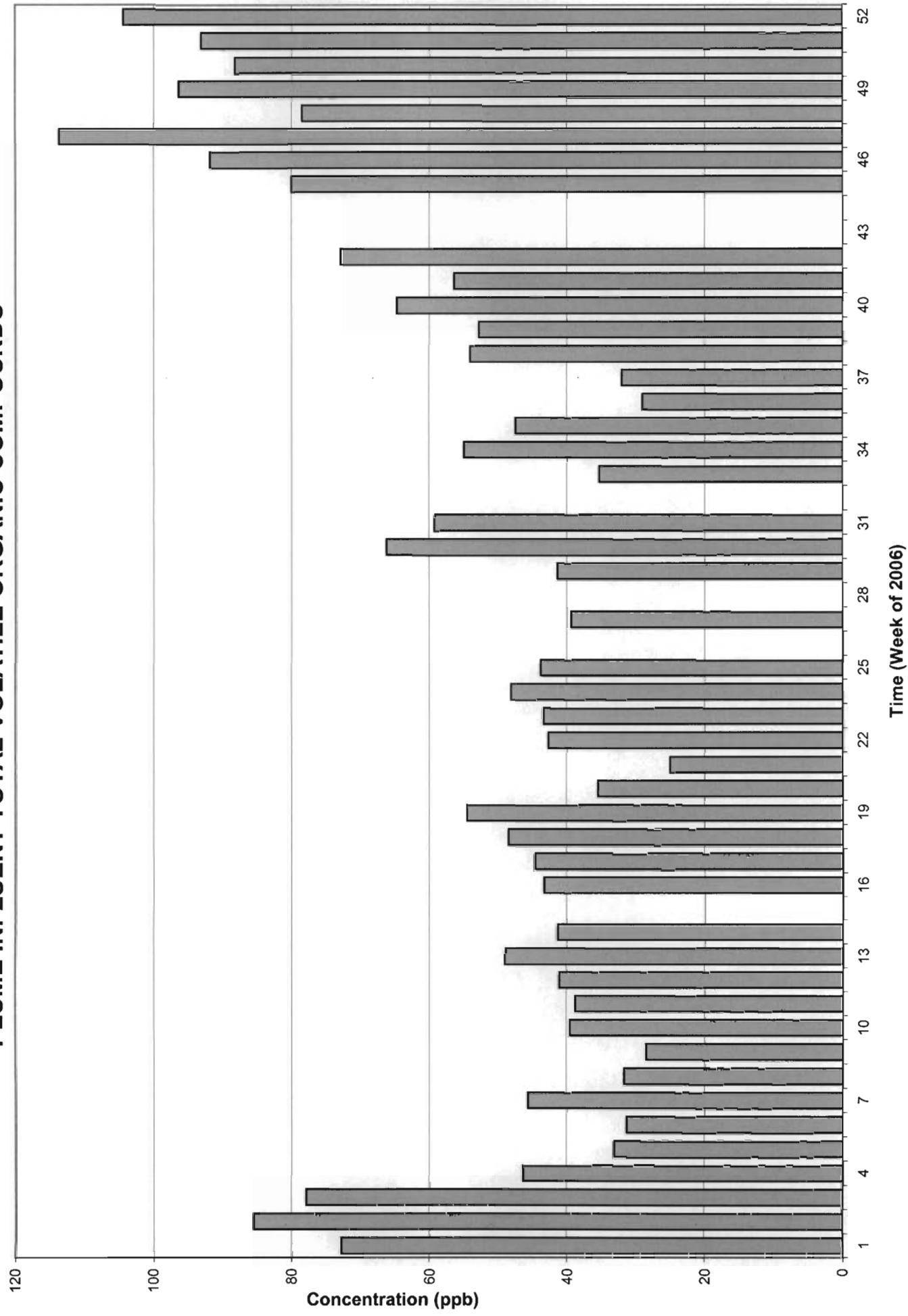


Figure 5
PUREX SITE - 2006
PLUME INFLUENT VOLATILE ORGANIC COMPOUNDS

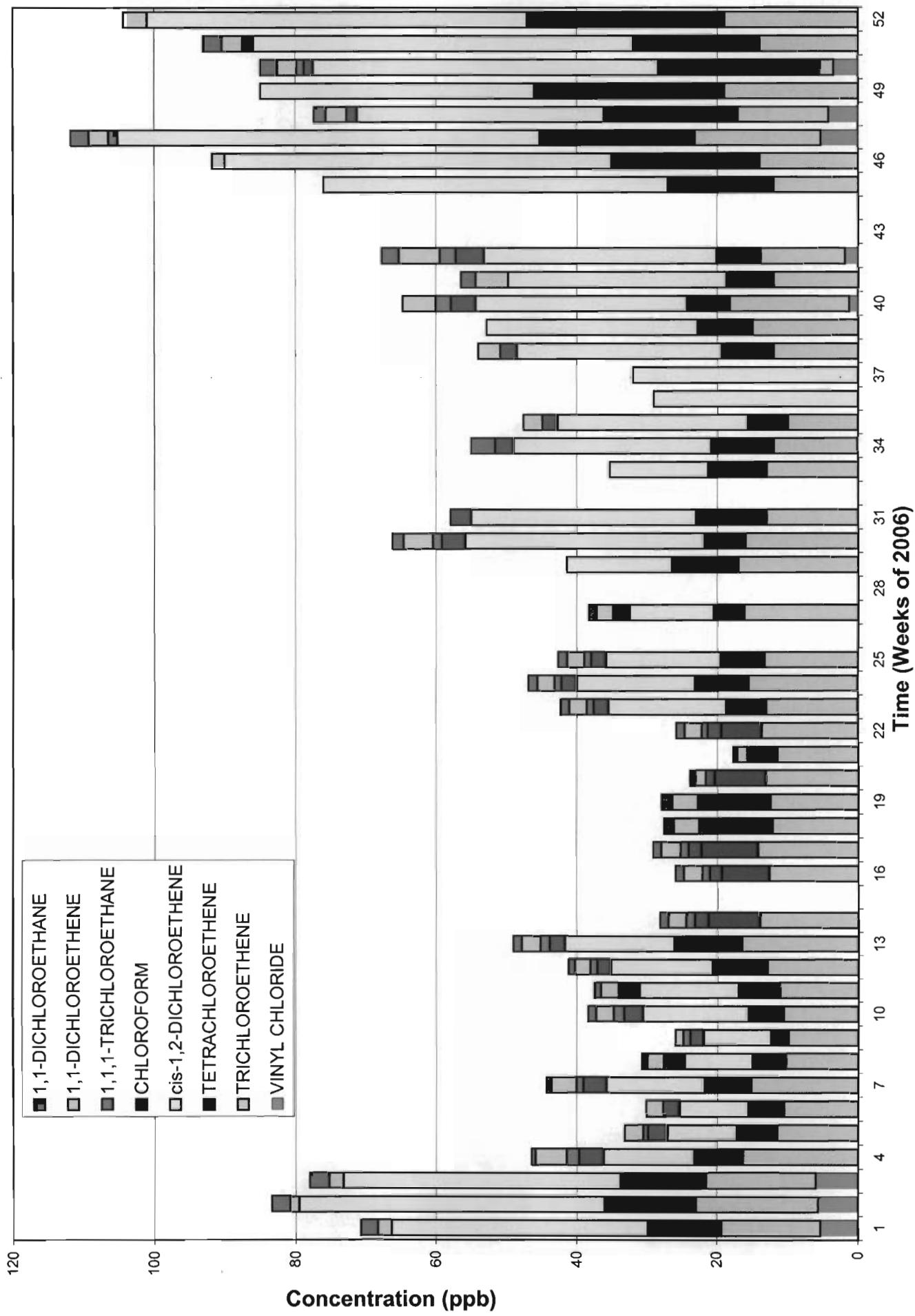


TABLE 1
PUREX SITE
2006 Recovery Wells in Service

WEEK STARTING MONDAY:	SOURCE WELLS	PLUME WELLS	COMMENTS
1/2/06		W-184	
1/9/06		W-184	
1/16/06		W-184	
1/23/06		W-184	
1/30/06		W-184	
2/6/06		W-184	
2/13/06		W-184	
2/20/06		W-184	
2/27/06		W-184	
3/6/06		W-184	
3/13/06		W-184	
3/20/06		W-184	
3/27/06		W-184	
4/3/06		W-184	
4/10/06		W-184	
4/17/06		W-184	
4/24/06		W-184	
5/1/06		W-184	
5/8/06		W-184	
5/15/06		W-184	
5/22/06		W-184	
5/29/06		W-184	
6/5/06		W-184	
6/12/06		W-184	
6/19/06		W-184	
6/26/06		W-184	
7/3/06		W-184	
7/10/06		W-184	
7/17/06		W-184	
7/23/06		W-184	
7/31/06		W-184	
8/7/06		W-184	
8/14/06		W-184	
8/21/06		W-184	
8/28/06		W-184	
9/4/06		W-184	
9/11/06		W-184	
9/18/06		W-184	
9/25/06		W-184	
10/2/06		W-184	
10/9/06		W-184	
10/16/06		W-184	Plant Shut-down for tower rehab. 10/17/06
10/23/06			
10/30/06			
11/6/06	W-3, W-4D	W-183, W-184, W-187	Rehab complete 11/8/06 - Plume wells off 11/10 to 11/12/06
11/13/06	W-3, W-4D	W-183, W-184, W-187	
11/20/06	W-3, W-4D	W-183, W-184, W-187	
11/27/06	W-3, W-4D	W-183, W-184, W-187	
12/4/06	W-3, W-4D	W-183, W-184, W-187	
12/11/06	W-3, W-4D	W-183, W-184, W-187	
12/18/06	W-3, W-4D	W-183, W-184, W-187	
12/25/06	W-3, W-4D	W-183, W-184, W-187	

2.5 Air Emissions Monitoring Results

Two (2) compounds: Tetrachloroethene and Vinyl Chloride were identified as significant potential air contaminant sources resulting from the operation of the MFPGRF. No direct air emissions sampling is required at the MFPGRF; instead, air emissions rates are calculated based on a specific day's influent contaminant concentration and its associated fluid flow rate. The calculation assumes that 100% of the measured compound is removed by the air strippers and discharged to the atmosphere.

During OY 2006 the highest calculated emission rates for Tetrachloroethene and Vinyl Chloride were 2.821 lbs/d and 1.103 lbs/d, respectively. The highest emission rate for Tetrachloroethene represents 49% of the compound's maximum allowable rate of 5.76 lbs/d. The highest emission rate for Vinyl Chloride represents 71% of the compound's maximum allowable rate of 1.56 lbs/d. The weekly air emissions data for these meters are presented graphically in Figures 6 and 7.

These emission rates were elevated when the source area recovery wells were returned to service on November 6, 2006. The Vinyl Chloride emission rate then averaged 24% of the allowable rate for the remainder of the year and overall, averaged 4.6% for OY 2006.

3.0 2006 Environmental Monitoring Program

3.1 2006 Environmental Monitoring Dates, Wells and Parameters

In compliance with the Mitchel Field-Purex Groundwater Remediation Project's (MFPGRP) Remediation Monitoring Plan (RMP), the County conducted two (2) sampling events in Monitoring Year (MY) 2006 (January 1, 2006 to December 31, 2006). The two (2) sampling events were conducted in April and October. Each sampling event analyzed network groundwater monitoring wells for volatile organic compounds (VOC's). The monitoring network now consists of 27 wells with the addition of three (3) annual wells (Figure 8). All but the three annual monitoring wells are equipped with dedicated sampling devices (Grundfos Redi-flo 2 submersible pump) (Appendix D).

3.1.1 2006 Environmental Monitoring Special Notes

There were no unusual or special environmental conditions to report in monitoring year 2006.

Figure 6

PUREX SITE - 2006

COMBINED (Plume & Source) AIR DISCHARGE - TETRACHLOROETHENE

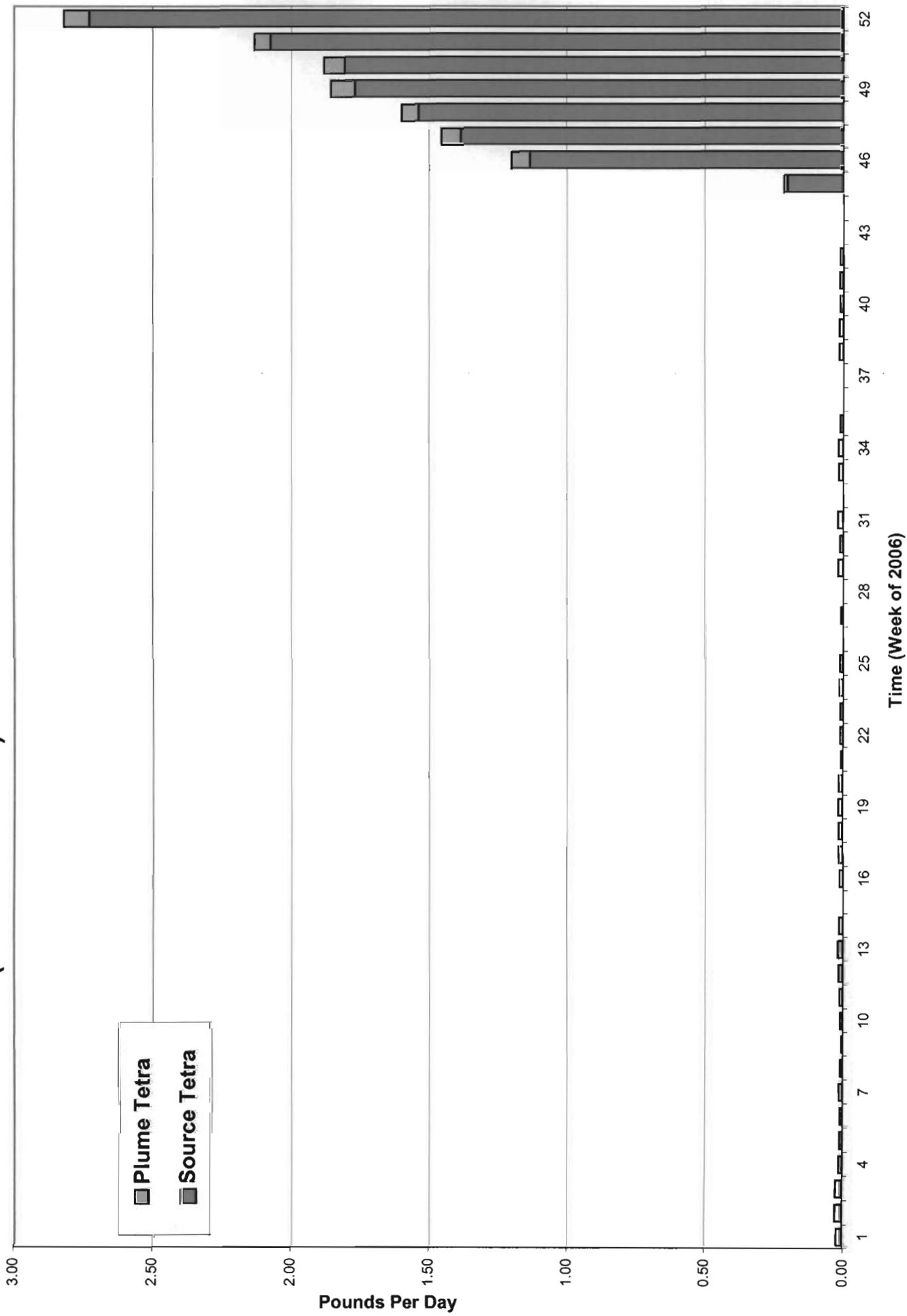
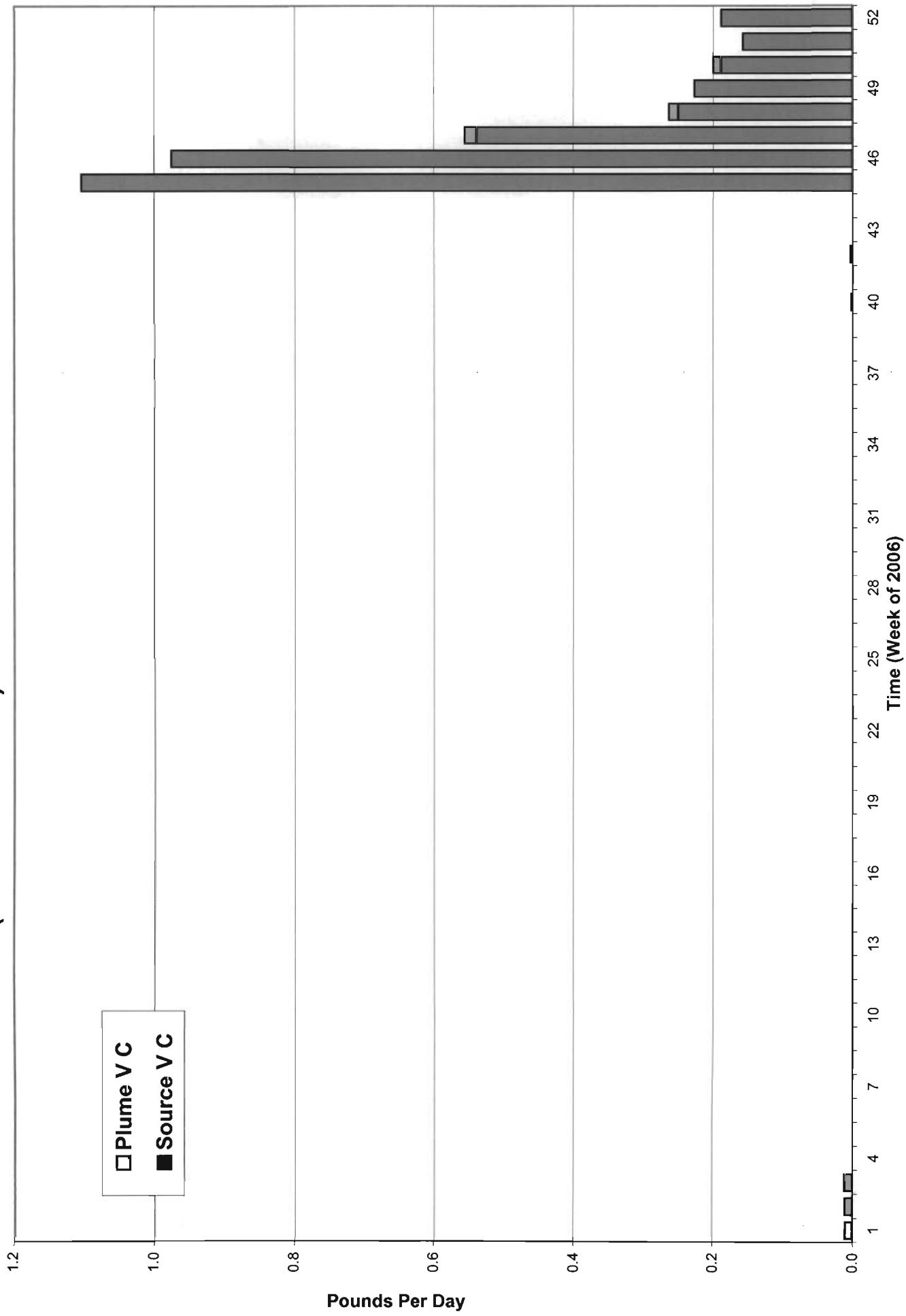


Figure 7

PUREX SITE - 2006
COMBINED (Plume & Source) AIR DISCHARGE - VINYL CHLORIDE



4.0 Environmental Monitoring Results

4.1 Semi-Annual Sampling Results

4.1.1 Volatile Organic Sampling Results

Groundwater samples were collected from twenty-four (24) groundwater monitoring wells and from up to five recovery wells (depending on the operational configuration) for each of the two (2) Semi-Annual sampling events. Three (3) groundwater monitoring wells are sampled annually in October. The results of the Semi-Annual sampling analyses are presented in Tables 2 and 3. These tables list only those compounds that have been detected historically at the Purex site. If a specific compound listed in the List of Analytes/Groundwater Clean-up Criteria (Table 1 & 2 in Appendix D) does not appear in the tables it has never been detected in groundwater at the site.

Figure 8 presents an aerial site map with the known extent of groundwater contamination in the upper portion of the Magothy formation, based on the October 2006 monitoring well sampling results. Of the twenty-four (24) semi-annual monitoring wells sampled, eight (8) wells had TVOCs less than 10 ppb for both MY 2006 sampling events, thirteen (13) wells had at least one sampling event where its TVOC was greater than 10 ppb but less than 100 ppb and six (6) wells had at least one sampling event where its TVOC was greater than 100 ppb.

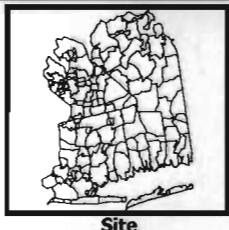
The plot of total volatile organic compound (TVOC, ppb) concentrations prepared from the October 2006 monitoring well sampling results reveal two relatively narrow plumes, the first located immediately south of the MSBA garage extends to the southeast and is approximately 650 ft. long, the second plume, located beneath UPS also extends to the southeast and is approximately 2,000 ft. long. Both plumes are approximately 250 ft. wide. The plume of contamination originally emanated from beneath the former Purex site. The overall configuration of the VOC plume has been modified due to sustained pumpage from offsite recovery wells W-183 and W-184. Pumping effects from these wells have separated the original plume and appear to be collecting volatile organics from other sources. TVOC concentrations within the first plume range from 36 ppb to 54 ppb in the vicinity of plume recovery well W-183. Concentrations within the second, southernmost plume range from 56 ppb to 180 ppb. The leading edge of the Purex plume terminates at the three southernmost plume recovery wells (W-184, W-187 and W-383D) located in the United Parcel Service (UPS) parking lot. Elevated TVOC concentrations observed in groundwater samples collected from W-311 (180 ppb) and W-368 (47ppb) may be from a secondary source.

Figure 8



Legend

- Upper Magathy Monitoring Wells With TVOC(ppb) Reading for 10/06
- ▲ Plume Recovery Wells
- △ Source Area Recovery Wells
- Contaminant Area
- Influent Pipe
- Heating-Cooling Wells Purex TVOC(ppb) Contour Oct., 2006
 - >25ppb
 - >100ppb
 - >400ppb
- * (-) MTBE, Halogenated Organics Only



**PUREX SITE & VICINITY
PUREX TVOC (ppb)
October, 2006**

Mitchel Field, NY
Prepared By: - NCDPW - Water/Wastewater Engineering Unit



1 Inch equals 500 Feet

Nassau County



Geographic Information System

Copyright 1993-2002
County of Nassau, New York

Date: 10/11/2007

PUREX SITE
SEMI-ANNUAL GROUNDWATER SAMPLING RESULTS FOR 2006

VOLATILE ORGANICS COMPOUNDS (ppb)												
	WELL W-234 DATE SAMPLED 4/26/06			WELL W-402 DATE SAMPLED 4/20/06			WELL W-405 DATE SAMPLED 4/26/06			WELL W-435 DATE SAMPLED 10/31/06		
	DATE SAMPLED	WELL W-234 DATE SAMPLED 4/26/06	WELL W-402 DATE SAMPLED 4/20/06	DATE SAMPLED	WELL W-405 DATE SAMPLED 4/26/06	WELL W-435 DATE SAMPLED 10/31/06	DATE SAMPLED	WELL W-461 DATE SAMPLED 4/20/06	WELL W-461 DATE SAMPLED 4/20/06	DATE SAMPLED	WELL W-305 DATE SAMPLED 4/25/06	WELL W-311R DATE SAMPLED 4/21/06
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NR
1,1,1-Trichloroethane	24.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.6
1,1,2-Trichloroethane	9.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NR
1,1-Dichloroethane	14.3	30.0	3.6	2.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
1,1-Dichloroethene	1.9	19.0	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4,5-Tetramethylbenzene	NR	1.8	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL
1,2,4,5-Trimethylbenzene	BDL	4.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	200.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	BDL	20.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	BDL	278.0	3200.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
c-1,2-Dichloroethylene	BDL	15.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	35.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	3.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	18.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene	BDL	2.9	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m,p-Xylene	BDL	1.7	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-Butyl Ether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	BDL	4.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	NR	2.9	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
n-Butyl Benzene	BDL	501.0	520.0	9.2	5.2	5.4	3.3	6.6	5.2	5.1	4.1	188.0
n-Propylbenzene	BDL	8.8	BDL	BDL	BDL	BDL	7.1	BDL	BDL	BDL	BDL	BDL
o-Xylene	BDL	NR	BDL	BDL	BDL	BDL	NR	BDL	BDL	BDL	BDL	BDL
p-Ethyltoluene	BDL	240.0	3.8	2.1	BDL	BDL	BDL	NR	BDL	BDL	BDL	BDL
p-Isopropyltoluene	BDL	32.0	BDL	BDL	BDL	BDL	BDL	NR	BDL	BDL	BDL	BDL
Tetrachloroethylene	Toluene	17.9	9.9	12.5	3.3	12.4	28.0	9.1	10.0	569.5	54.2	3.0
Trichlorodifluoromethane	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL
Trichloroethylene	74.5	240.0	3.8	2.1	BDL	BDL	5.8	6.8	4.0	5.9	32.0	12.0
Vinyl Chloride	2.1	433.0	17.9	9.9	12.5	3.3	12.4	28.0	9.1	10.0	569.5	54.2
TVCOC	946.1	433.0	17.9	9.9	12.5	3.3	12.4	28.0	9.1	10.0	569.5	54.2
												179.9

PUREX SITE
SEMI-ANNUAL GROUNDWATER SAMPLING RESULTS FOR 2006

WELL W-361 DATE SAMPLED	WELL W-363 DATE SAMPLED		WELL W-366 DATE SAMPLED		WELL W-367 DATE SAMPLED		WELL W-368 DATE SAMPLED		WELL W-369 DATE SAMPLED		WELL W-370 DATE SAMPLED		WELL W-371 DATE SAMPLED	
	4/20/06	10/24/06	4/27/06	10/24/06	4/27/06	10/24/06	4/27/06	10/24/06	4/27/06	10/24/06	4/20/06	10/25/06	4/21/06	10/26/06
1,1,1,2-Tetrachloroethane	BDL	BDL												
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	3.4	BDL	BDL	2.2	1.8	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	2.5	BDL	BDL	1.4	BDL	3.6	BDL	0.6	BDL	3.9
1,1-Dichloroethene	BDL	BDL	BDL	BDL	1.3	BDL	BDL	10.2	6.9	3.0	2.4	BDL	BDL	1.5
1,2,3-Trichlorobenzene	BDL	BDL												
1,2,3-Trichloropropane	BDL	BDL												
1,2,4,5-Tetramethylbenzene	NR	BDL												
1,2,4,Trimethylbenzene	BDL	BDL	BDL	3.7										
1,2-Dichlorobenzene	BDL	BDL												
1,2-Dichloroethane	BDL	BDL												
1,2,1-Dichloroethene	BDL	BDL												
1,3,5-Trimethylbenzene	BDL	BDL												
1,3-Dichlorobenzene	BDL	BDL												
1,4-Dichlorobenzene	BDL	BDL	BDL	1.1										
Benzene	BDL	BDL												
c-1,2-Dichloroethylene	BDL	BDL	2.6	BDL	1.7	BDL	BDL	13.4	9.1	157.0	19.0	9.4	4.2	5.5
Carbon Tetrachloride	BDL	BDL												
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.1	5.4	BDL	BDL	BDL	BDL	BDL
Chloromethane	BDL	BDL												
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17.5	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	BDL												
Hexachlorobutadiene	BDL	BDL												
Isopropylbenzene	BDL	BDL												
m,p-Xylene	BDL	BDL												
Methyl t-Butylether (MTBE)	BDL	BDL												
Methylene Chloride	BDL	NR												
Naphthalene	BDL	BDL												
n-Butyl Benzene	NR	BDL	BDL	NR										
n-Propylbenzene	BDL	BDL												
o-Xylene	BDL	BDL												
p-Ethyltoluene	NR	BDL	BDL	NR										
p-Isopropyltoluene	BDL	BDL												
sec-Butyl Benzene	BDL	BDL												
tert-Butyl Benzene	BDL	BDL												
Tetrachloroethylene	4.9	2.6	BDL	2.4	2.0	BDL	BDL	14.5	7.2	28.0	5.7	10.2	2.2	3.2
Toluene	BDL	BDL												
Trichlorodifluoromethane	NR	BDL	BDL	NR										
Trichloroethylene	BDL	BDL	1.4	26.9	38.0	BDL	BDL	25.0	16.0	15.5	5.2	2.0	BDL	2.6
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.1	2.5	BDL	BDL	5.1
TVOC	4.9	2.6	0.0	4.0	29.3	48.9	0.0	0.0	91.3	46.8	216.9	35.9	22.2	6.4
														85.1

PUREX SITE
SEMI-ANNUAL GROUNDWATER SAMPLING RESULTS FOR 2006

	VOLATILE ORGANICS COMPOUNDS (ppb)											
	WELL W-372 DATE SAMPLED 10/26/06		WELL W-373 DATE SAMPLED 10/26/06		WELL W-375 DATE SAMPLED 10/26/06		WELL W-377 DATE SAMPLED 4/21/06		WELL W-378 DATE SAMPLED 10/26/06		WELL W-380 DATE SAMPLED 4/21/06	
	4/21/06	4/21/06	4/21/06	4/21/06	4/21/06	4/21/06	4/21/06	4/21/06	4/21/06	4/25/06	4/25/06	4/25/06
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	1.5	BDL
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4,5-Tetramethylbenzene	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	27.8	17.0	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-T-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.2	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5	BDL	BDL
c-1,2-Dichloroethylene	BDL	1.2	0.8	BDL	BDL	2.1	BDL	BDL	1.1	BDL	9.9	16.0
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	31.8	33.0	51.0
Methylene Chloride	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NR	BDL	NR
n-Butyl Benzene	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p-Ethyltoluene	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL
p-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
sec-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
tert-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.3	3.6	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorodifluoromethane	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL	NR	BDL
Trichloroethylene	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	4.1	1.8	4.3	3.3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	1.6	BDL	BDL	BDL	6.9	11.0	BDL
TVOC	0.0	1.2	0.8	0.0	0.0	4.8	0.0	0.0	8.5	3.4	90.3	85.6
												6.2
												DATE SAMPLED 10/30/06
												WELL W-382

PUREX SITE
SEMI-ANNUAL SAMPLING RESULTS FOR 2006

	WELL W-383 DATE SAMPLED	WELL X-156 DATE SAMPLED	WELL X-157 DATE SAMPLED	RECOVERY WELL W-3 DATE SAMPLED		RECOVERY WELL W-4D DATE SAMPLED		RECOVERY WELL W-183 DATE SAMPLED		RECOVERY WELL W-184 DATE SAMPLED		RECOVERY WELL W-187 DATE SAMPLED		RECOVERY WELL W-383D DATE SAMPLED	
				RECOVERY WELL W-3 DATE SAMPLED	RECOVERY WELL W-4D DATE SAMPLED	RECOVERY WELL W-183 DATE SAMPLED	RECOVERY WELL W-184 DATE SAMPLED	RECOVERY WELL W-187 DATE SAMPLED	RECOVERY WELL W-383D DATE SAMPLED	RECOVERY WELL W-3 DATE SAMPLED	RECOVERY WELL W-4D DATE SAMPLED	RECOVERY WELL W-183 DATE SAMPLED	RECOVERY WELL W-184 DATE SAMPLED	RECOVERY WELL W-187 DATE SAMPLED	RECOVERY WELL W-383D DATE SAMPLED
4/21/06	10/31/06	10/27/06	10/27/06	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	11.0	51.0					0.9					
1,1,1-Trichloroethane	BDL	BDL	BDL	1.0	BDL					BDL					
1,1,2-Trichloroethane	BDL	BDL	BDL												
1,1-Dichloroethane	5.2	BDL	1.1		2.2										
1,1,2,3-Tetrachlorobenzene	3.2	BDL	8.7	Well Scheduled for One Sample Per Year	290.0	Well Off No Sample	2.4	Well Off No Sample	Well Off No Sample	Well Off No Sample	Well Off No Sample	NR			
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Tetramethylbenzene	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	11.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
c-1,2-Dichloroethylene	58.0	38.0	1.5		BDL										13.3
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-Butyl Ether (MTBE)	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	BDL	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
n-Butylbenzene	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p-Ethyltoluene	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
sec-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
tert-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	19.7	6.4	17.0												
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	NR	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	20.7	10.0	2.0												
Vinyl Chloride	34.4	14.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TVOC	145.7	79.4	0.0	43.8	0.0	367.7	0.0	0.0	0.0	0.0	0.0	0.0	44.5	0.0	0.0

Varying levels of volatile organic compounds are also observed to the south beyond the known extent of the Purex plume in the vicinity of monitoring wells MW-311R, MW-367 and 368. These wells had TVOC concentrations ranging from 47 to 180 ppb. This contamination is believed to be associated with the operation of a closed loop cooling system in the vicinity of 50 Charles Lindbergh Blvd. NYSDEC records indicate that two heating and cooling wells, N-10086 and N-10087 operate in the parking lot of the Reckson Building (50 Charles Lindbergh Blvd). These wells are approximately 900 feet southeast of Purex monitoring well W-311R. Any volatile organic compounds that might be introduced during recharge could fall under the combined hydraulic influence of plume recovery wells W-184, W-187 and W-383D. During the 2006 sampling rounds groundwater collected from monitoring well W-311R was found to contain up to 9 volatile organic compounds including 16 ppb of Dichlorodifluoromethane. This compound is not common to the Purex plume and is a form of Freon that can be linked to cooling system operation. Dichlorodifluoromethane was also detected in groundwater samples collected from monitoring wells W-368 at a concentration of 18 ppb.

Review of the monitoring well data collected during MY 2006 indicates that the location of the operating recovery wells is correct, provides hydraulic control and allows for efficient recovery of contaminated groundwater from the MFGRP's plume.

In MY 2006, the MFGRP was in its sixteenth (16th) year of the remediation. To better illustrate the progress made in obtaining the site's clean-up objectives, historical plots of the sampling results from specific wells that still exhibit measurable levels of contamination in MY 2006 are presented in Figures 9 through 15. A summary of these plots is as follows:

Historical High TVOC's

<u>Monitoring Well</u>	<u>Concentration</u>	<u>Date</u>	<u>MY 2006 Concentration</u>
302	23,000 ppb	5/22/90	54.2 ppb
311R	34,600 ppb	7/20/89	179.9 ppb
371	22,756 ppb	1/5/95	85.1 ppb
380	32,780 ppb	10/26/95	85.6 ppb
381	7870 ppb	10/25/95	55.9 ppb
383	23,814 ppb	10/26/95	79.4 ppb
234	11,411 ppb	7/29/93	4,333 ppb

Review of the data presented indicates that the bulk of the remediation, from a contaminant mass standpoint, has been completed at the MFGRP site. The current aerial extent and the remaining levels of contamination at the MRGRP site reflects a low concentration asymptotic condition which is characteristic of long term pump and treat remediations.

Figure 9

W-302
VOC CONCENTRATIONS
1984 to 2006

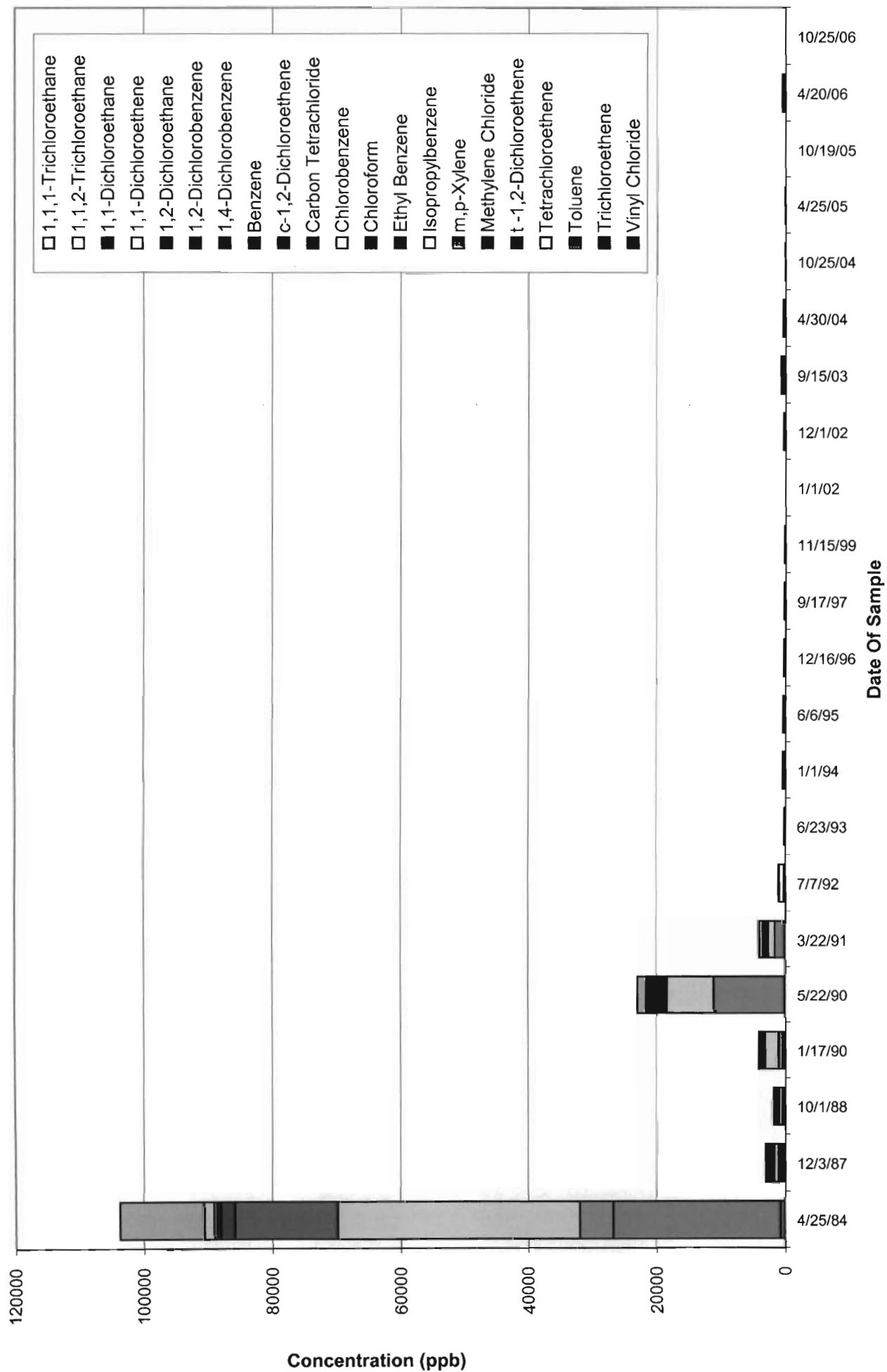


Figure 10
W-311R
VOC CONCENTRATIONS
1988 to 2006

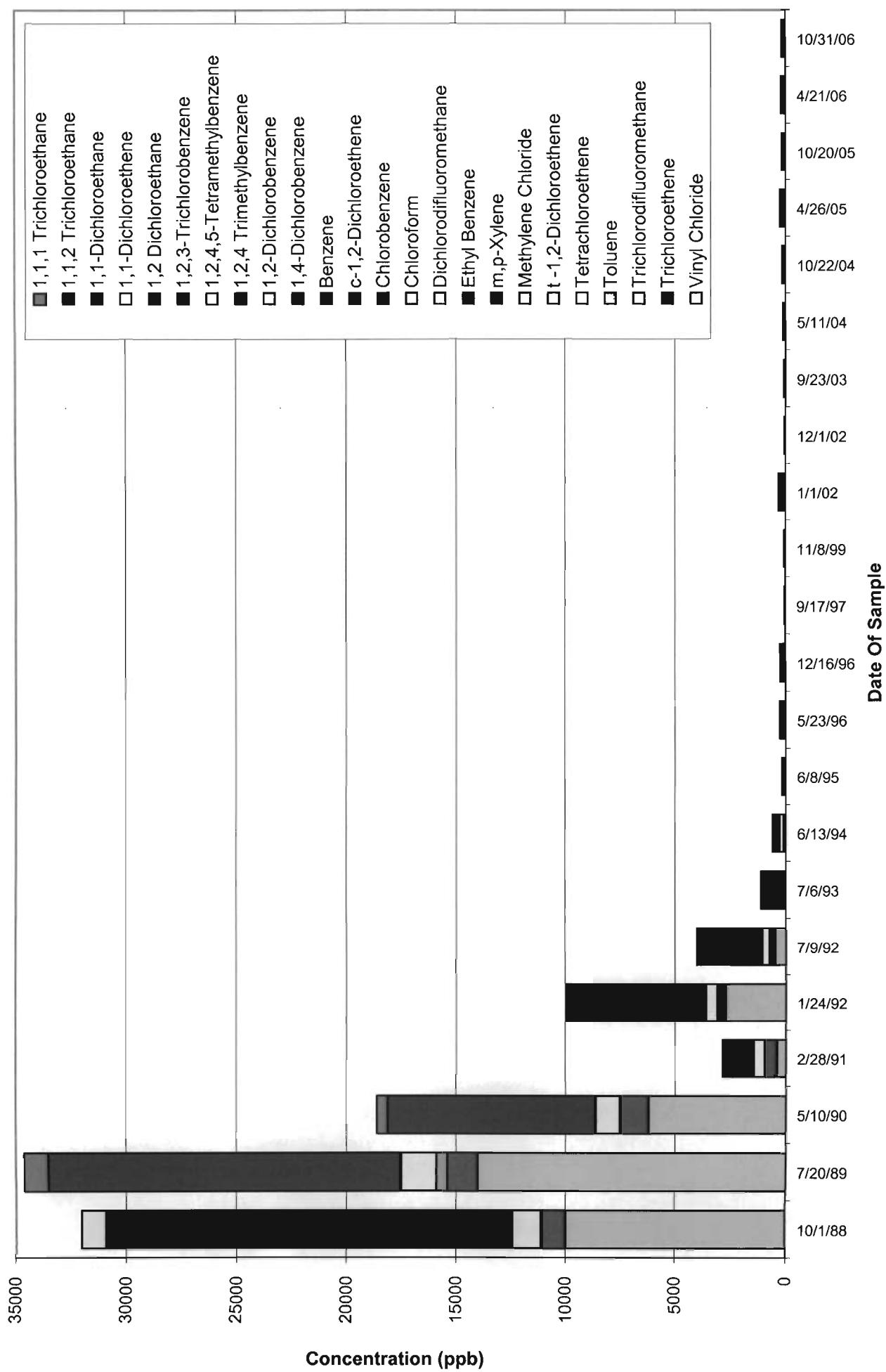


Figure 11

W-371 VOC CONCENTRATIONS 1995 to 2006

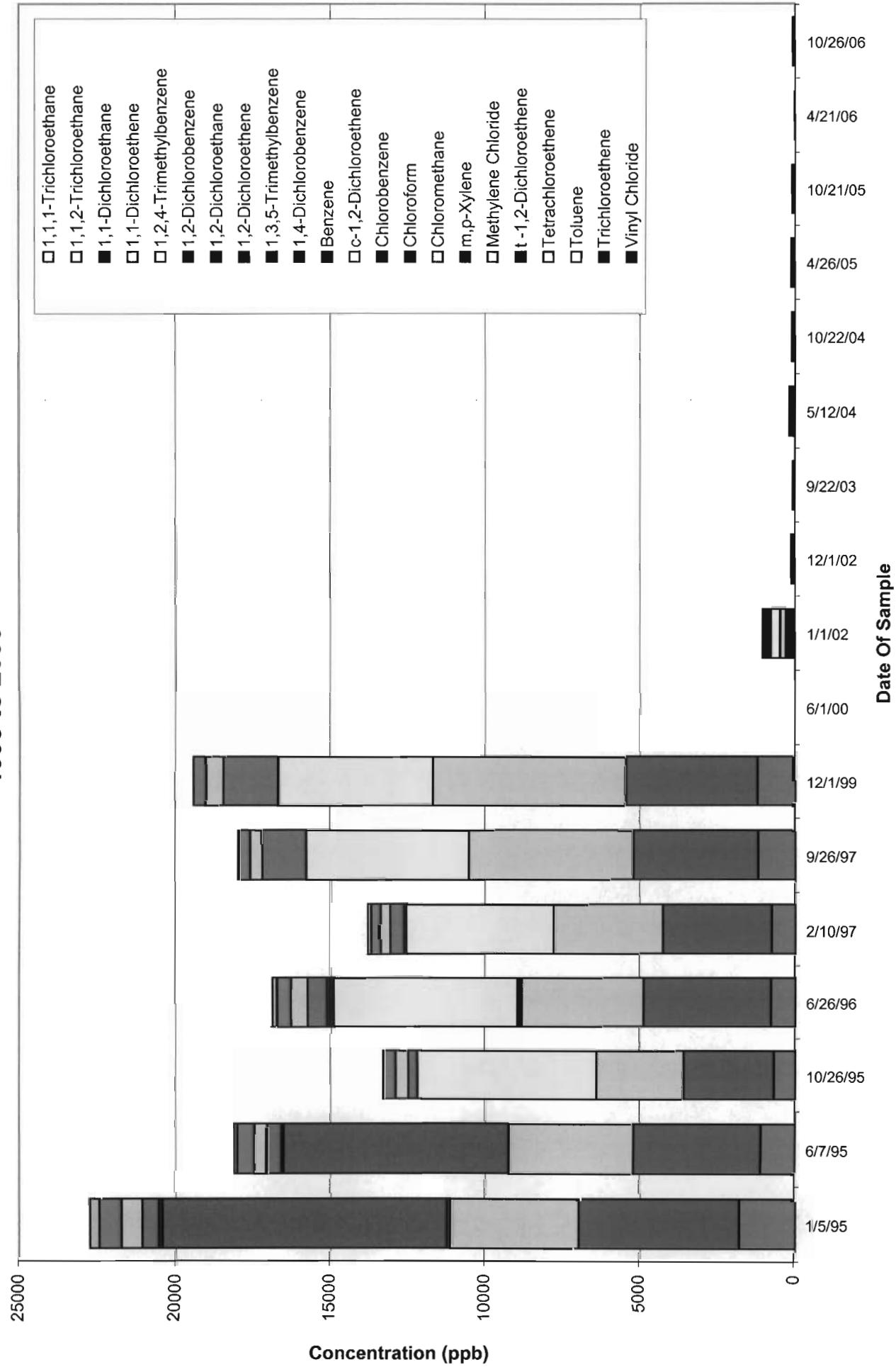


Figure 12
W-380
VOC CONCENTRATIONS
1995 to 2006

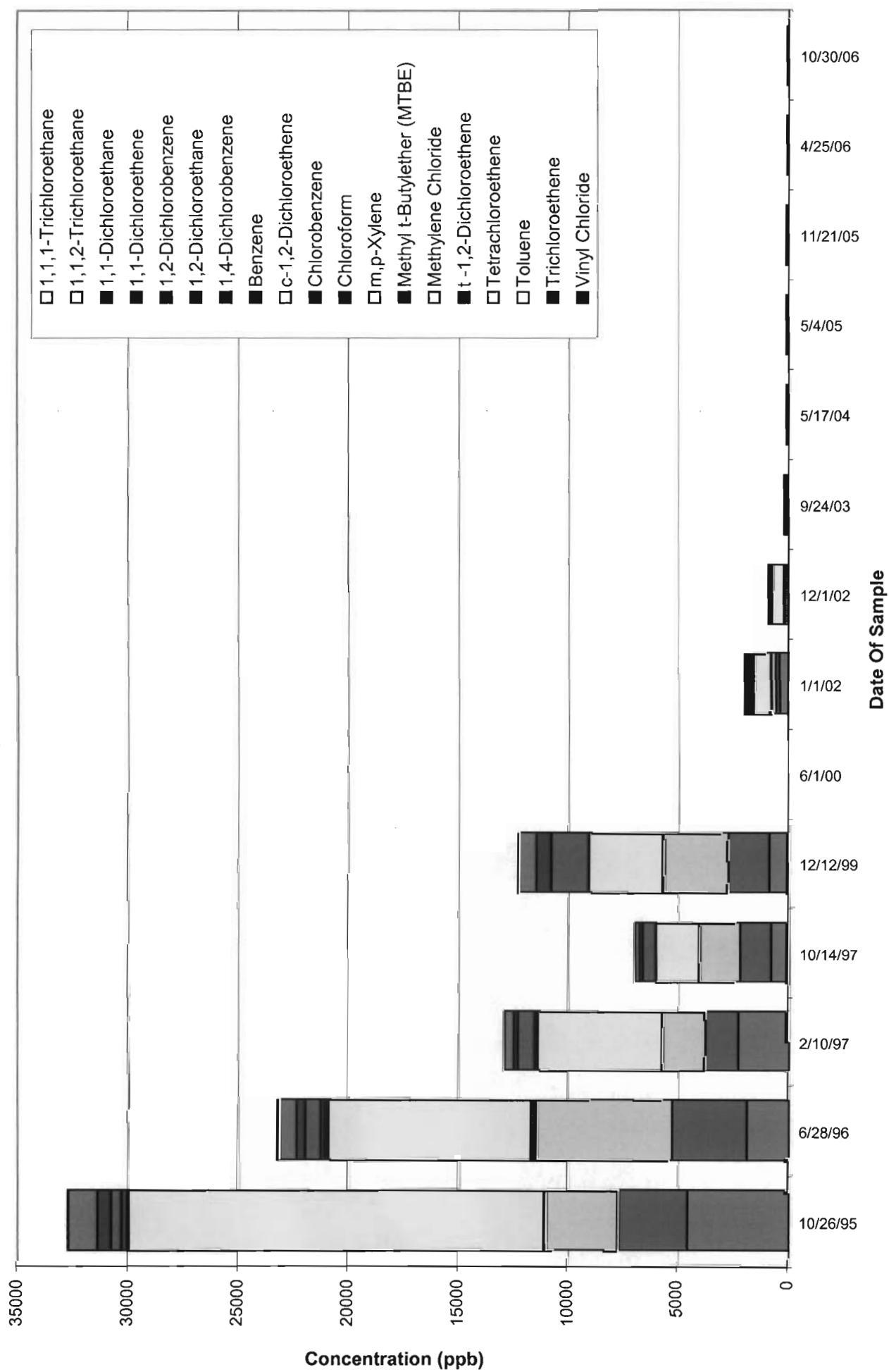


Figure 13

W-381
VOC CONCENTRATIONS
1995 to 2006

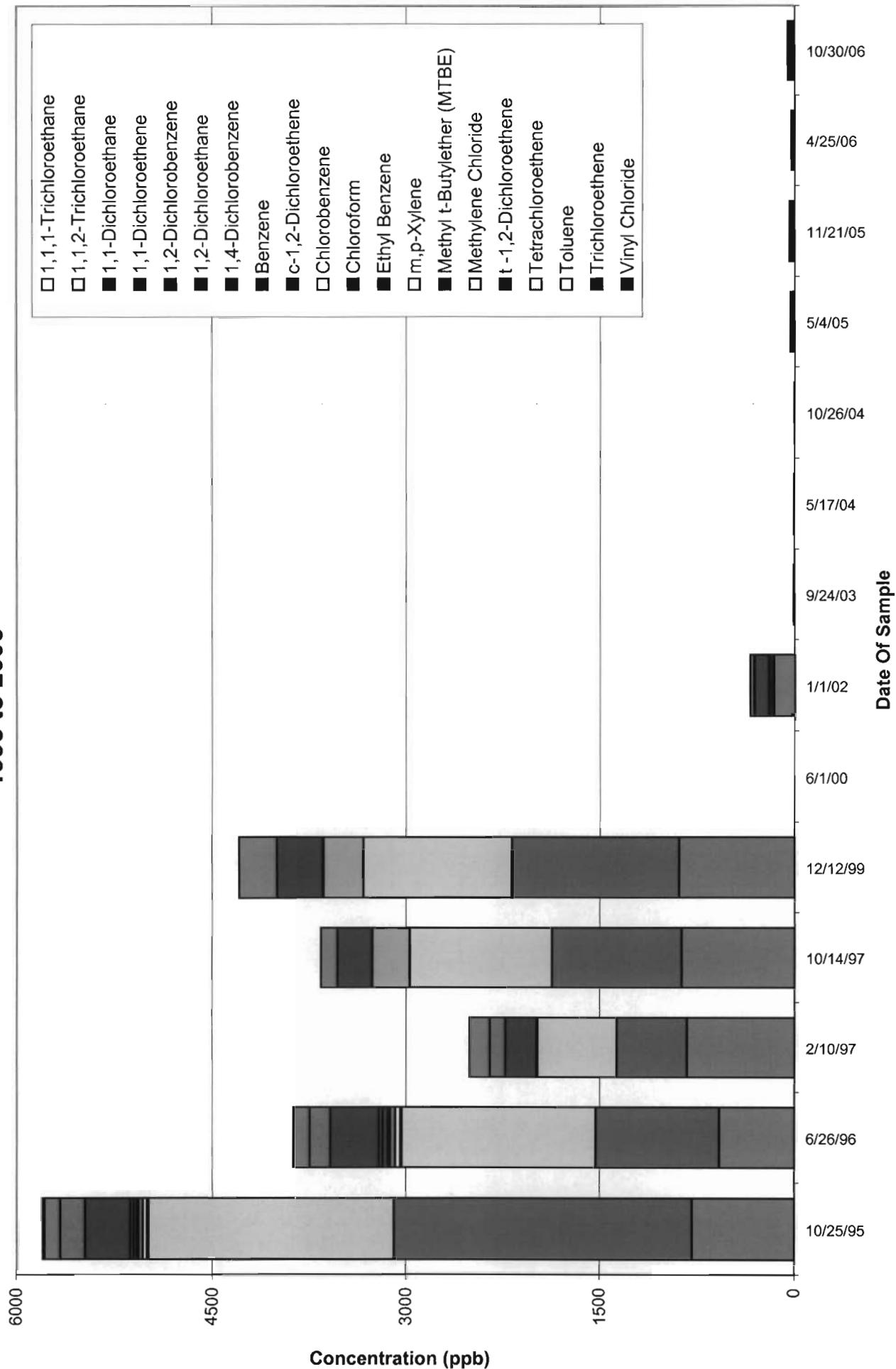


Figure 14

W-383
VOC CONCENTRATIONS
1995 to 2006

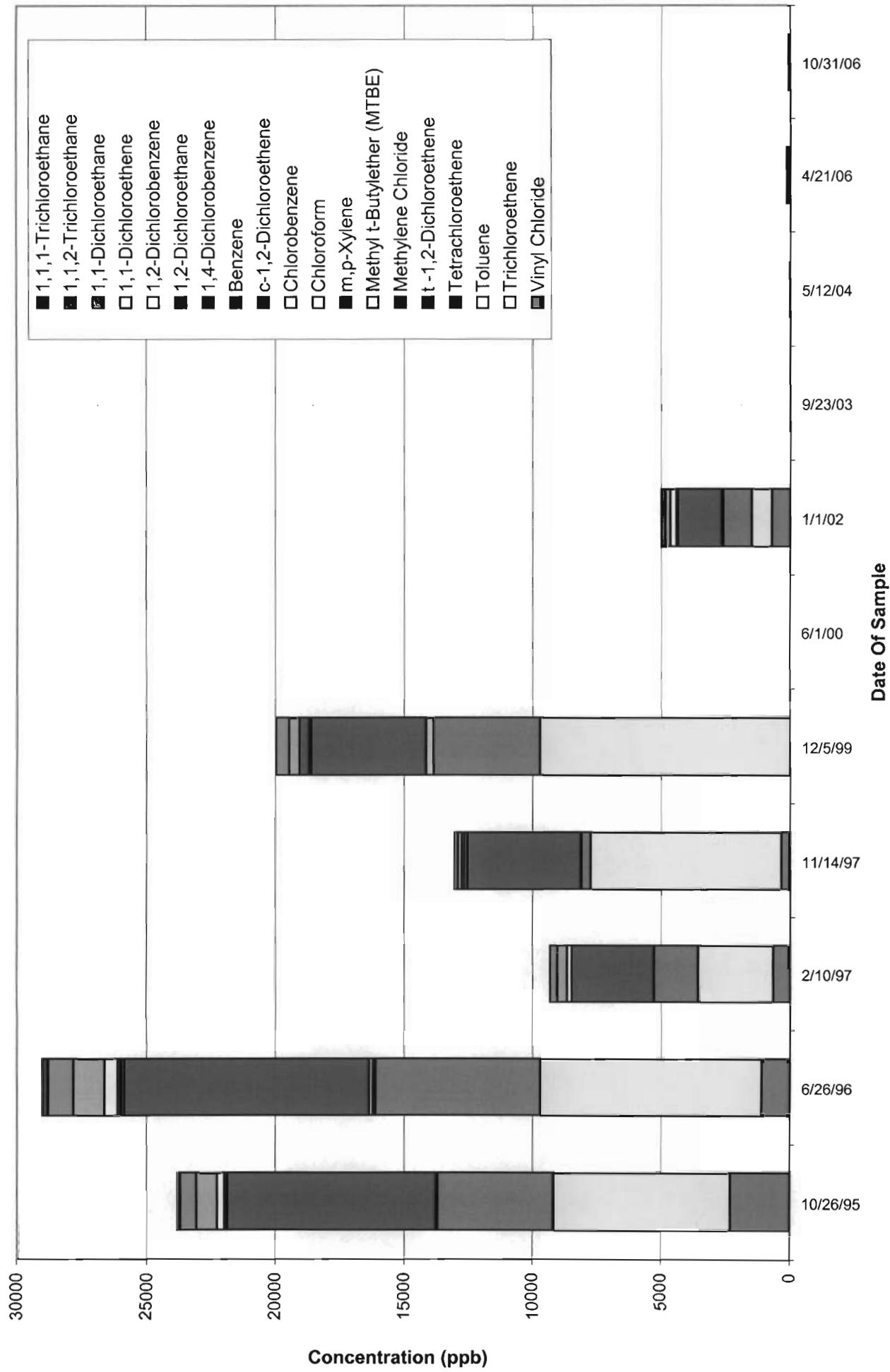
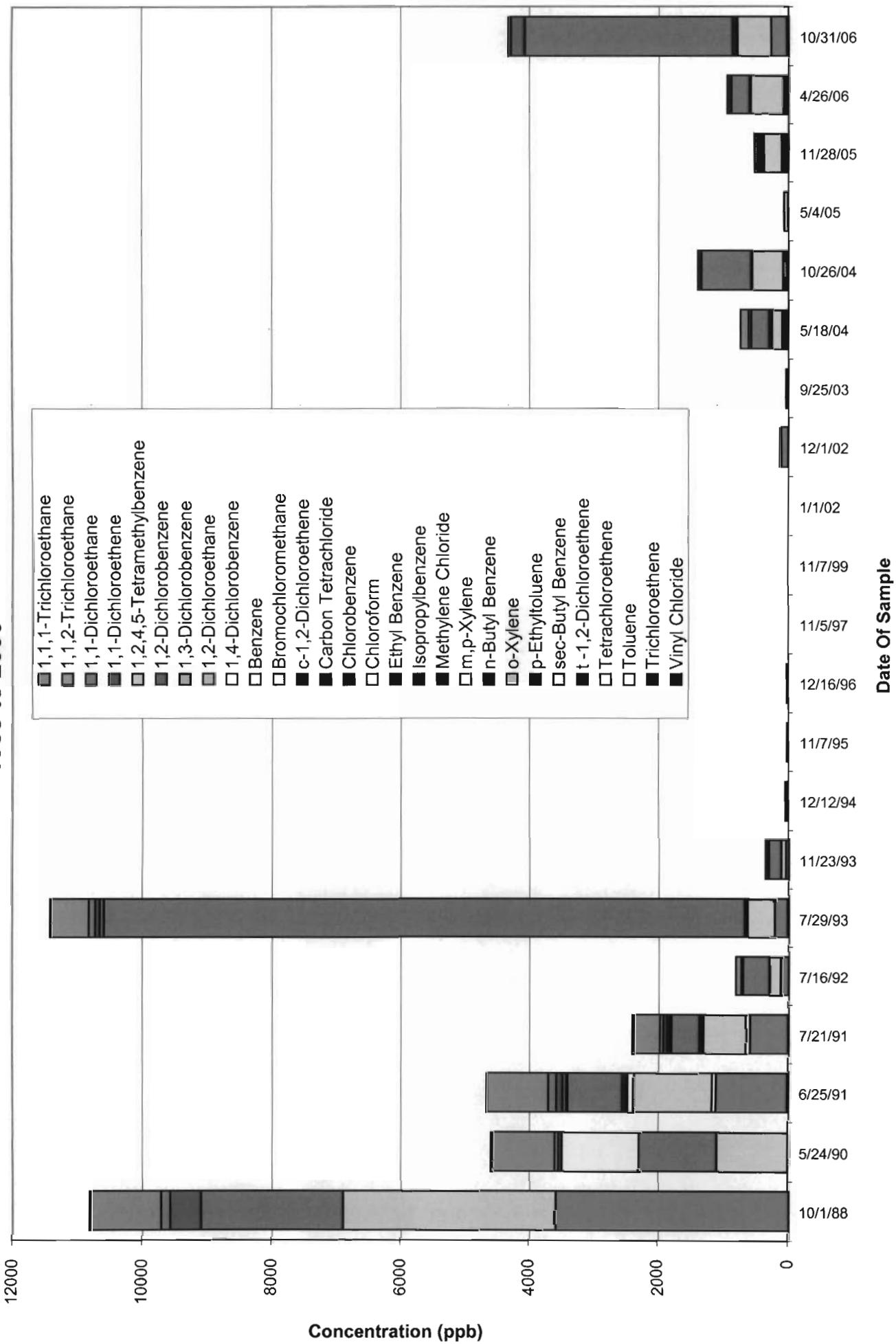


Figure 15

W-234
VOC CONCENTRATIONS
1988 to 2006



4.2 Semi-Annual Hydraulic Monitoring

4.2.1 Hydraulic Effects

Hydraulic conditions are monitored on a semi-annual basis to ensure that all operating recovery wells are effectively treating plume contamination. All available monitoring wells were measured by County hydrogeologists on November 28, 2006. The results of this survey are presented in table 3.

The depth to water measurements collected during the survey were converted to water elevations. These elevations were then plotted to produce a potentiometric surface map for the Upper Magothy formation. The contoured elevation data is presented in figure 16.

Review of figure 16 indicates that regional contour elevations range from 54.80 ft. above mean sea level in the vicinity of County well N-9712 (X-156) to 38.51 ft. above mean sea level near monitoring well, W-383. Local groundwater flow in the upper portion of the Magothy formation is from the north-northwest to the south-southeast. All contours have been modified by groundwater recovery operations. Two depressions are formed beneath the study area. The first zone of depression occurs at the southeast corner of the Concept 400 building where an elevation of 31.84 ft. was recorded at recovery well W-183. A second larger hydraulic depression is created by the combined pumping effects of recovery wells W-187 and W-184 and is formed just south of the UPS building insuring hydraulic control of the “lead edge” of volatile organic contamination.

TABLE 3
PUREX SITE
WATER LEVEL MEASUREMENTS

November 28, 2006

WELL	TIME	MEASURING POINT ELEV.	D.T.W.	W.T.E.	COMMENTS
GLACIAL WELL					
W-234	1132	79.69	27.03	52.66	
UPPER MAGOTHY WELLS					
W-302	1103	81.74	32.28	49.46	
W-305	1147	79.73	27.50	52.23	
W-311R	0914	81.70	36.40	45.30	
W-361	1040	76.53	24.70	51.83	
W-363	0851		29.59		
W-366	1030	71.08	19.40	51.68	
W-367	0906	81.71	31.53	50.18	
W-368	0857	78.63	29.59	49.04	
W-369	1107	76.01	24.47	51.54	
W-370	1044	77.43	26.86	50.57	
W-371	0949	76.66	31.08	45.58	
W-372	0945	76.44	29.45	46.99	
W-373	1022	76.26	27.83	48.43	
W-375	1009	76.78	26.34	50.44	
W-377	0959	77.79	28.32	49.47	
W-378	0955	77.81	30.54	47.27	
W-380	1015	77.14	29.46	47.68	
W-381	1014	76.92	27.08	49.84	
W-382	1004	77.16	26.85	50.31	
W-383	0928	75.76	37.25	38.51	
LOWER MAGOTHY WELLS					
W-402	1101	81.67	30.85	50.82	
W-405	1149	80.72	28.88	51.84	
W-435	1141	77.96	26.17	51.79	
W-461	1038	76.02	25.34	50.68	
UPGRADIENT WELLS					
X-156	1159	87.12	32.32	54.80	
X-157	1156	87.15	33.23	53.92	
RECOVERY WELLS					FLOW RATE
W-3	1114	77.90	44.05	33.85	On
W-4D	1122	79.20	57.55	21.65	On
W-183	1052	77.07	45.23	31.84	On at rim - 51.10
W-184	0920	80.90	59.56	21.34	On at rim - 60.21
W-187	0930	76.00	45.40	30.60	On at rim - 50.12
W-383D	0934	76.00		76.00	No port

LEGEND

D.T.W. = DEPTH TO WATER

W.T.E. = WATER TABLE ELEVATION

Figure 16



Legend

- Monitoring Wells

Contour Post Map Nov.28, 2006



Site Location

PUREX
POTENTIOMETRIC SURFACE
NOVEMBER 28, 2006

Prepared By: - NCDPW - Water/Wastewater
Engineering Unit



1 Inch equals 600 Feet

Nassau County



Geographic Information System

Copyright 1993-2002
County of Nassau, New York

Date: 5/04/2007

APPENDIX A
PLANT EFFICIENCY REPORTS
2006

PLANT EFFICIENCY

JANUARY 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	20	83.3%	Power Outage
11	16	66.7%	Power Outage
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
31	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
744	732	98.4%	

PLANT EFFICIENCY

FEBRUARY 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
672	672	100.0%	

PLANT EFFICIENCY

MARCH 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
31	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
744	744	100.0%	

PLANT EFFICIENCY

APRIL 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
720	720	100.0%	

PLANT EFFICIENCY

MAY 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
31	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
744	744	100.0%	

PLANT EFFICIENCY

JUNE 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
720	720	100.0%	

PLANT EFFICIENCY

JULY 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	23.75	99.0%	Power Outage
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
31	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
744	743.75	100.0%	

PLANT EFFICIENCY

AUGUST 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
31	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
744	744	100.0%	

PLANT EFFICIENCY

SEPTEMBER 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
720	720	100.0%	

PLANT EFFICIENCY

OCTOBER 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	12	50.0%	Plant secured for stripping tower rehab.
18	0	0.0%	Plant secured for stripping tower rehab.
19	0	0.0%	Plant secured for stripping tower rehab.
20	0	0.0%	Plant secured for stripping tower rehab.
21	0	0.0%	Plant secured for stripping tower rehab.
22	0	0.0%	Plant secured for stripping tower rehab.
23	0	0.0%	Plant secured for stripping tower rehab.
24	0	0.0%	Plant secured for stripping tower rehab.
25	0	0.0%	Plant secured for stripping tower rehab.
26	0	0.0%	Plant secured for stripping tower rehab.
27	0	0.0%	Plant secured for stripping tower rehab.
28	0	0.0%	Plant secured for stripping tower rehab.
29	0	0.0%	Plant secured for stripping tower rehab.
30	0	0.0%	Plant secured for stripping tower rehab.
31	12	50.0%	Plume side W-183 & W-184 in service
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
744	408	54.8%	

PLANT EFFICIENCY

NOVEMBER 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	18	75.0%	Power Outage
12	19	79.2%	Power Outage
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	
720	709	98.5%	

PLANT EFFICIENCY

DECEMBER 2006

DATE	HOURS OF OPERATION	EFFICIENCY OF OPERATION	REASON FOR OUTAGE
1	24	100.0%	
2	24	100.0%	
3	24	100.0%	
4	24	100.0%	
5	24	100.0%	
6	24	100.0%	
7	24	100.0%	
8	24	100.0%	
9	24	100.0%	
10	24	100.0%	
11	24	100.0%	
12	24	100.0%	
13	24	100.0%	
14	24	100.0%	
15	24	100.0%	
16	24	100.0%	
17	24	100.0%	
18	24	100.0%	
19	24	100.0%	
20	24	100.0%	
21	24	100.0%	
22	24	100.0%	
23	24	100.0%	
24	24	100.0%	
25	24	100.0%	
26	24	100.0%	
27	24	100.0%	
28	24	100.0%	
29	24	100.0%	
30	24	100.0%	
31	24	100.0%	
TOTAL HOURS IN THE MONTH	TOTAL HOURS OF OPERATION	EFFICIENCY OF MONTHLY OPERATION	YEARLY TOTALS
744	744	100.0%	

TOTAL HOURS IN THE YEAR	8760
TOTAL HOURS OF OPERATION	8401
EFFICIENCY OF OPERATION FOR 2004	95.9%

APPENDIX B
MONTHLY INFLUENT MONITORING REPORTS
2006

**NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT**

JANUARY 2006

INFLUENT PARAMETER	Week 1 01/03/06		Week 2 01/09/06		Week 3 01/17/06		Week 4 01/23/06		Week 5 01/31/06	
	PLUME SP-101	SOURCE SP-102								
FLOW, DAILY AVG (GPD)	239520	0	240480	0	240660	0	240480	0	239400	0
FLOW, DAILY MAX (GPD)	240480	0	241920	0	241920	0	240480	0	240480	0
1,1,1-TRICHLOROETHANE	BDL		BDL		BDL		1.8		0.7	
1,1,2,2-TETRACHLOROETHANE	BDL									
1,1,2-TRICHLOROETHANE	BDL									
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	NA									
1,1-DICHLOROETHANE	2.5		2.6		2.8		0.6		BDL	
1,1-DICHLOROETHENE	1.9		1.4		2.0		4.4		2.7	
1,2,4,5-TRIMETHYLBENZENE	NA									
1,2,4-TRIMETHYLBENZENE	BDL									
1,2-DICHLOROBENZENE	1.5		1.4		BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL									
1,2-DICHLOROPROPANE	BDL									
1,3,5-TRIMETHYLBENZENE	BDL									
1,3-DICHLOROBENZENE	BDL									
1,4-DICHLOROBENZENE	0.7		0.7		BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	NA									
2-CHLOROTOLUENE	BDL									
4-ISOPROPYL TOLUENE	NA									
BENZENE	BDL									
BROMOFORM	BDL									
BROMOMETHANE	BDL									
CARBON TETRACHLORIDE	BDL									
CHLOROBENZENE	BDL									
CHLOROETHANE	BDL									
CHLOROFORM	BDL		BDL		BDL		3.5		2.7	
cis-1,2-DICHLOROETHENE	36.5		43.5		39.5		12.9		9.8	
cis-1,3-DICHLOROPROPENE	BDL									
DIBROMOCHLOROMETHANE	BDL									
DICHLOROBROMOMETHANE	BDL									
DICHLOROFLUOROMETHANE	BDL									
ETHYL ACETATE	NA									
ETHYLBENZENE	BDL									
ISOPROPYLBENZENE	BDL									
m,p-XYLENE	BDL									
METHYL CHLORIDE	BDL									
METHYL tert-BUTYL ETHER	BDL									
n-BUTYLBENZENE	BDL									
n-PROPYLBENZENE	BDL									
o-XYLENE	BDL									
p-DIETHYLBENZENE	NA									
p-ETHYLTOLUENE	NA									
sec-BUTYLBENZENE	BDL									
STYRENE	BDL									
t-1,2-DICHLOROETHENE	BDL									
t-1,3-DICHLOROPROPENE	BDL									
tert-BUTYLBENZENE	BDL									
TETRACHLOROETHENE	10.5		13.1		12.2		6.9		5.7	
TOLUENE	BDL									
TRICHLOROETHENE	14.0		17.3		15.6		16.3		11.5	
TRICHLOROFLUOROMETHANE	BDL									
VINYL CHLORIDE	5.3		5.6		5.9		BDL		BDL	
TOTAL VOCs	72.9		85.6		78.0		46.4		33.1	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT

FEBRUARY 2006

INFLUENT PARAMETER	Week 1 02/06/06		Week 2 02/13/06		Week 3 02/21/06		Week 4 02/27/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	239280	0	239040	0	239040	0	239040	0
FLOW, DAILY MAX (GPD)	240480	0	239040	0	239040	0	239040	0
1,1,1-TRICHLOROETHANE	BDL		1.0		BDL		1.0	
1,1,2,2-TETRACHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	NA		NA		NA		NA	
1,1-DICHLOROETHANE	BDL		0.7		0.8		BDL	
1,1-DICHLOROETHENE	2.4		3.6		2.3		1.1	
1,2,4,5-TRIMETHYLBENZENE	NA		NA		NA		NA	
1,2,4-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL		BDL		BDL		BDL	
1,2-DICHLOROPROPANE	BDL		BDL		BDL		BDL	
1,3,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,4-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	NA		NA		NA		NA	
2-CHLOROTOLUENE	BDL		BDL		BDL		BDL	
4-ISOPROPYLTOLUENE	NA		NA		NA		NA	
BENZENE	BDL		BDL		BDL		BDL	
BROMOFORM	BDL		BDL		BDL		BDL	
BROMOMETHANE	BDL		BDL		BDL		BDL	
CARBON TETRACHLORIDE	BDL		BDL		BDL		BDL	
CHLOROBENZENE	BDL		BDL		BDL		BDL	
CHLOROETHANE	BDL		BDL		BDL		BDL	
CHLOROFORM	2.3		3.3		2.2		2.0	
cis-1,2-DICHLOROETHENE	9.7		13.9		9.6		9.5	
cis-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
DIBROMOCHLOROMETHANE	BDL		BDL		BDL		BDL	
DICHLOROBROMOMETHANE	BDL		BDL		BDL		BDL	
DICHLOROFLUOROMETHANE	1.3		1.4		1.0		1.0	
ETHYL ACETATE	NA		NA		NA		NA	
ETHYLBENZENE	BDL		BDL		BDL		BDL	
ISOPROPYLBENZENE	BDL		BDL		BDL		BDL	
m,p-XYLENE	BDL		BDL		BDL		BDL	
METHYL CHLORIDE	BDL		BDL		BDL		1.5	
METHYL tert-BUTYL ETHER	BDL		BDL		BDL		BDL	
n-BUTYLBENZENE	BDL		BDL		BDL		BDL	
n-PROPYLBENZENE	BDL		BDL		BDL		BDL	
o-XYLENE	BDL		BDL		BDL		BDL	
p-DIETHYLBENZENE	NA		NA		NA		NA	
p-ETHYLTOLUENE	NA		NA		NA		NA	
sec-BUTYLBENZENE	BDL		BDL		BDL		BDL	
STYRENE	BDL		BDL		BDL		BDL	
t-1,2-DICHLOROETHENE	BDL		BDL		BDL		BDL	
t-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
tert-BUTYLBENZENE	BDL		BDL		BDL		BDL	
TETRACHLOROETHENE	5.1		6.6		4.8		2.5	
TOLUENE	BDL		BDL		BDL		BDL	
TRICHLOROETHENE	10.5		15.2		10.2		9.9	
TRICHLOROFLUOROMETHANE	BDL		BDL		BDL		BDL	
VINYL CHLORIDE	BDL		BDL		BDL		BDL	
TOTAL VOCs	31.3		45.7		30.9		28.5	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT

MARCH 2006

INFLUENT PARAMETER	Week 1 03/06/06		Week 2 03/13/06		Week 3 03/20/06		Week 4 03/26/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	237806	0	237600	0	229114	0	237600	0
FLOW, DAILY MAX (GPD)	239040	0	237600	0	237600	0	237600	0
1,1,1-TRICHLOROETHANE	1.6		0.7		1.0		1.3	
1,1,2,2-TETRACHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	NA		NA		NA		NA	
1,1-DICHLOROETHANE	1.2		1.0		0.9		1.2	
1,1-DICHLOROETHENE	2.5		2.5		2.2		2.6	
1,2,4,5-TRIMETHYLBENZENE	NA		NA		NA		NA	
1,2,4-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL		BDL		BDL		BDL	
1,2-DICHLOROPROPANE	BDL		BDL		BDL		BDL	
1,3,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,4-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	NA		NA		NA		NA	
2-CHLOROTOLUENE	BDL		BDL		BDL		BDL	
4-ISOPROPYL TOLUENE	NA		NA		NA		NA	
BENZENE	BDL		BDL		BDL		BDL	
BROMOFORM	BDL		BDL		BDL		BDL	
BROMOMETHANE	BDL		BDL		BDL		BDL	
CARBON TETRACHLORIDE	BDL		BDL		BDL		BDL	
CHLOROBENZENE	BDL		BDL		BDL		BDL	
CHLOROETHANE	BDL		BDL		BDL		BDL	
CHLOROFORM	2.6		2.3		1.9		2.1	
cis-1,2-DICHLOROETHENE	14.9		14.0		14.4		15.6	
cis-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
DIBROMOCHLOROMETHANE	BDL		BDL		BDL		BDL	
DICHLOROBROMOMETHANE	BDL		BDL		BDL		BDL	
DICHLOROFUOROMETHANE	1.2		1.3		BDL		BDL	
ETHYL ACETATE	NA		NA		NA		NA	
ETHYLBENZENE	BDL		BDL		BDL		BDL	
ISOPROPYL BENZENE	BDL		BDL		BDL		BDL	
m,p-XYLENE	BDL		BDL		BDL		BDL	
METHYL CHLORIDE	BDL		BDL		BDL		BDL	
METHYL tert-BUTYL ETHER	BDL		BDL		BDL		BDL	
n-BUTYLBENZENE	BDL		BDL		BDL		BDL	
n-PROPYLBENZENE	BDL		BDL		BDL		BDL	
o-XYLENE	BDL		BDL		BDL		BDL	
p-DIETHYLBENZENE	NA		NA		NA		NA	
p-ETHYL TOLUENE	NA		NA		NA		NA	
sec-BUTYLBENZENE	BDL		BDL		BDL		BDL	
STYRENE	BDL		BDL		BDL		BDL	
t-1,2-DICHLOROETHENE	BDL		BDL		BDL		BDL	
t-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
tert-BUTYLBENZENE	BDL		BDL		BDL		BDL	
TETRACHLOROETHENE	5.0		5.9		7.8		9.6	
TOLUENE	BDL		BDL		BDL		BDL	
TRICHLOROETHENE	10.6		11.1		12.9		16.5	
TRICHLOROFUOROMETHANE	BDL		BDL		BDL		BDL	
VINYL CHLORIDE	BDL		BDL		BDL		BDL	
TOTAL VOCs	39.6		38.8		41.1		48.9	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT

APRIL 2006

INFLUENT PARAMETER	Week 1 04/03/06		Week 2 04/10/06		Week 3 04/17/06		Week 4 04/25/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	237600	0	237600	0	237600	0	237600	0
FLOW, DAILY MAX (GPD)	237600	0	237600	0	237600	0	237600	0
1,1,1-TRICHLOROETHANE	1.3		0.9		1.1		1.2	
1,1,2,2-TETRACHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	NA		NA		NA		NA	
1,1-DICHLOROETHANE	1.2		1.3		1.2		1.2	
1,1-DICHLOROETHENE	2.5		2.9		2.6		2.7	
1,2,4,5-TRIMETHYLBENZENE	NA		NA		NA		NA	
1,2,4-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL		BDL		BDL		BDL	
1,2-DICHLOROPROPANE	BDL		BDL		BDL		BDL	
1,3,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,4-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	NA		NA		NA		NA	
2-CHLOROTOLUENE	BDL		BDL		BDL		BDL	
4-ISOPROPYLTOLUENE	NA		NA		NA		NA	
BENZENE	BDL		BDL		BDL		BDL	
BROMOFORM	BDL		BDL		BDL		BDL	
BROMOMETHANE	BDL		BDL		BDL		BDL	
CARBON TETRACHLORIDE	BDL		BDL		BDL		BDL	
CHLOROBENZENE	BDL		BDL		BDL		BDL	
CHLOROETHANE	BDL		BDL		BDL		BDL	
CHLOROFORM	1.9		2.1		1.7		1.8	
cis-1,2-DICHLOROETHENE	BDL		21.5		BDL		BDL	
cis-1,3-DICHLOROPROPENE	13.2		BDL		15.2		15.5	
DIBROMOCHLOROMETHANE	BDL		BDL		BDL		BDL	
DICHLOROBROMOMETHANE	BDL		BDL		BDL		BDL	
DICHLOROFLUOROMETHANE	BDL		BDL		BDL		BDL	
ETHYL ACETATE	NA		NA		NA		NA	
ETHYLBENZENE	BDL		BDL		BDL		BDL	
ISOPROPYLBENZENE	BDL		BDL		BDL		BDL	
m,p-XYLENE	BDL		BDL		BDL		BDL	
METHYL CHLORIDE	BDL		BDL		BDL		BDL	
METHYL tert-BUTYL ETHER	BDL		BDL		2.2		BDL	
n-BUTYLBENZENE	BDL		BDL		BDL		BDL	
n-PROPYLBENZENE	BDL		BDL		BDL		BDL	
o-XYLENE	BDL		BDL		BDL		BDL	
p-DIETHYLBENZENE	NA		NA		NA		NA	
p-ETHYLTOLUENE	NA		NA		NA		NA	
sec-BUTYLBENZENE	BDL		BDL		BDL		BDL	
STYRENE	BDL		BDL		BDL		BDL	
t-1,2-DICHLOROETHENE	BDL		BDL		BDL		BDL	
t-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
tert-BUTYLBENZENE	BDL		BDL		BDL		BDL	
TETRACHLOROETHENE	7.3		6.2		6.7		8.0	
TOLUENE	BDL		BDL		BDL		BDL	
TRICHLOROETHENE	13.9		15.5		12.6		14.2	
TRICHLOROFLUOROMETHANE	BDL		BDL		BDL		BDL	
VINYL CHLORIDE	BDL		BDL		BDL		BDL	
TOTAL VOCs	41.3		50.4		43.3		44.6	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

**NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT**

MAY 2006

INFLUENT PARAMETER	Week 1 05/01/06		Week 2 05/08/06		Week 3 05/15/06		Week 4 05/22/06		Week 5 05/29/06	
	PLUME SP-101	SOURCE SP-102								
FLOW, DAILY AVG (GPD)	237600	0	237600	0	237600	0	201536	0	223457	0
FLOW, DAILY MAX (GPD)	237600	0	237600	0	237600	0	237600	0	237600	0
1,1,1-TRICHLOROETHANE	1.1		BDL		BDL		BDL		0.9	
1,1,2,2-TETRACHLOROETHANE	BDL									
1,1,2-TRICHLOROETHANE	BDL									
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	NA									
1,1-DICHLOROETHANE	1.4		1.5		0.8		0.6		1.2	
1,1-DICHLOROETHENE	3.6		3.6		1.5		1.4		2.4	
1,2,4,5-TRIMETHYLBENZENE	NA									
1,2,4-TRIMETHYLBENZENE	BDL		1.0		BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL									
1,2-DICHLOROETHANE	BDL									
1,2-DICHLOROPROPANE	BDL									
1,3,5-TRIMETHYLBENZENE	BDL		2.2		BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL									
1,4-DICHLOROBENZENE	BDL									
2-CHLOROETHYL VINYL ETHER	NA									
2-CHLOROTOLUENE	BDL									
4-ISOPROPYL TOLUENE	NA									
BENZENE	BDL									
BROMOFORM	BDL									
BROMOMETHANE	BDL									
CARBON TETRACHLORIDE	BDL									
CHLOROBENZENE	BDL									
CHLOROETHANE	BDL									
CHLOROFORM	2.2		2.4		1.3		0.9		1.9	
cis-1,2-DICHLOROETHENE	BDL									
cis-1,3-DICHLOROPROPENE	18.6		17.9		11.6		7.1		15.3	
DIBROMOCHLOROMETHANE	BDL									
DICHLOROBROMOMETHANE	BDL									
DICHLOROFLUOROMETHANE	BDL		BDL		BDL		BDL		1.1	
ETHYL ACETATE	NA									
ETHYLBENZENE	BDL									
ISOPROPYLBENZENE	BDL									
m,p-XYLENE	BDL									
METHYL CHLORIDE	BDL									
METHYL tert-BUTYL ETHER	2.3		BDL		BDL		BDL		BDL	
n-BUTYLBENZENE	BDL									
n-PROPYLBENZENE	BDL		5.6		BDL		BDL		BDL	
o-XYLENE	BDL									
p-DIETHYLBENZENE	NA									
p-ETHYLTOLUENE	NA									
sec-BUTYLBENZENE	BDL									
STYRENE	BDL									
t-1,2-DICHLOROETHENE	BDL		BDL		BDL		BDL		0.5	
t-1,3-DICHLOROPROPENE	BDL									
tert-BUTYLBENZENE	BDL									
TETRACHLOROETHENE	7.1		7.9		7.2		3.4		5.7	
TOLUENE	BDL									
TRICHLOROETHENE	12.2		12.5		13.1		11.5		13.7	
TRICHLOROFLUOROMETHANE	BDL									
VINYL CHLORIDE	BDL									
TOTAL VOCs	48.5		54.6		35.5		24.9		42.7	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT

JUNE 2006

INFLUENT PARAMETER	Week 1 06/05/06		Week 2 06/12/06		Week 3 06/19/06		Week 4 06/27/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	214971	0	237600	0	237600	0	237600	0
FLOW, DAILY MAX (GPD)	237600	0	237600	0	237600	0	237600	0
1,1,1-TRICHLOROETHANE	1.0		1.0		1.0		BDL	
1,1,2,2-TETRACHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	NA		NA		NA		NA	
1,1-DICHLOROETHANE	1.3		1.3		1.3		0.7	
1,1-DICHLOROETHENE	2.5		2.4		2.4		1.5	
1,2,4,5-TRIMETHYLBENZENE	NA		NA		NA		NA	
1,2,4-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL		BDL		BDL		BDL	
1,2-DICHLOROPROPANE	BDL		BDL		BDL		BDL	
1,3,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,4-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	NA		NA		NA		NA	
2-CHLOROTOLUENE	BDL		BDL		BDL		BDL	
4-ISOPROPYL TOLUENE	NA		NA		NA		NA	
BENZENE	BDL		BDL		BDL		BDL	
BROMOFORM	BDL		BDL		BDL		BDL	
BROMOMETHANE	BDL		BDL		BDL		BDL	
CARBON TETRACHLORIDE	BDL		BDL		BDL		BDL	
CHLOROBENZENE	BDL		BDL		BDL		BDL	
CHLOROETHANE	BDL		BDL		BDL		BDL	
CHLOROFORM	2.1		2.1		2.1		1.0	
cis-1,2-DICHLOROETHENE	16.6		16.8		16.2		7.8	
cis-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
DIBROMOCHLOROMETHANE	BDL		BDL		BDL		BDL	
DICHLOROBROMOMETHANE	BDL		BDL		BDL		BDL	
DICHLOROFLUOROMETHANE	1.1		1.3		1.2		BDL	
ETHYL ACETATE	NA		NA		NA		NA	
ETHYL BENZENE	BDL		BDL		BDL		BDL	
ISOPROPYL BENZENE	BDL		BDL		BDL		BDL	
m,p-XYLENE	BDL		BDL		BDL		BDL	
METHYL CHLORIDE	BDL		BDL		BDL		BDL	
METHYL tert-BUTYL ETHER	BDL		BDL		BDL		BDL	
n-BUTYL BENZENE	BDL		BDL		BDL		BDL	
n-PROPYLBENZENE	BDL		BDL		BDL		BDL	
o-XYLENE	BDL		BDL		BDL		BDL	
p-DIETHYLBENZENE	NA		NA		NA		NA	
p-ETHYL TOLUENE	NA		NA		NA		NA	
sec-BUTYLBENZENE	BDL		BDL		BDL		BDL	
STYRENE	BDL		BDL		BDL		BDL	
t-1,2-DICHLOROETHENE	BDL		BDL		BDL		BDL	
t-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
tert-BUTYLBENZENE	BDL		BDL		BDL		BDL	
TETRACHLOROETHENE	5.7		7.6		6.3		6.1	
TOLUENE	BDL		BDL		BDL		BDL	
TRICHLOROETHENE	13.1		15.6		13.3		15.9	
TRICHLOROFUOROMETHANE	BDL		BDL		BDL		BDL	
VINYL CHLORIDE	BDL		BDL		BDL		BDL	
TOTAL VOCs	43.4		48.1		43.8		33.0	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

**NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT**

JULY 2006

INFLUENT PARAMETER	Week 1 07/05/06		Week 2 07/10/06		Week 3 07/17/06		Week 4 07/24/06		Week 5 07/31/06	
	PLUME SP-101	SOURCE SP-102								
FLOW, DAILY AVG (GPD)	237600	0	237600	0	237600	0	237600	0	214264	0
FLOW, DAILY MAX (GPD)	237600	0	237600	0	237600	0	237600	0	237600	0
1,1,1-TRICHLOROETHANE	0.8				BDL		1.3		BDL	
1,1,2,2-TETRACHLOROETHANE	BDL				BDL		BDL		BDL	
1,1,2-TRICHLOROETHANE	BDL		NO SAMPLE		BDL		BDL		BDL	
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	NA				BDL		BDL		BDL	
1,1-DICHLOROETHANE	1.1				BDL		1.7		BDL	
1,1-DICHLOROETHENE	2.4				BDL		4.1		BDL	
1,2,4,5-TRIMETHYLBENZENE	NA				BDL		BDL		BDL	
1,2,4-TRIMETHYLBENZENE	BDL				BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL				BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL				BDL		BDL		BDL	
1,2-DICHLOROPROPANE	BDL				BDL		BDL		BDL	
1,3,5-TRIMETHYLBENZENE	BDL				BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL				BDL		BDL		BDL	
1,4-DICHLOROBENZENE	BDL				BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	NA				BDL		BDL		BDL	
2-CHLOROTOLUENE	BDL				BDL		BDL		BDL	
4-ISOPROPYLtolUENE	NA				BDL		BDL		BDL	
BENZENE	BDL				BDL		BDL		BDL	
BROMOFORM	BDL				BDL		BDL		BDL	
BROMOMETHANE	BDL				BDL		BDL		BDL	
CARBON TETRACHLORIDE	BDL				BDL		BDL		BDL	
CHLOROBENZENE	BDL				BDL		BDL		BDL	
CHLOROETHANE	BDL				BDL		BDL		BDL	
CHLOROFORM	1.6				BDL		3.3		2.9	
cis-1,2-DICHLOROETHENE	11.9				15.0		34.0		32.0	
cis-1,3-DICHLOROPROPENE	BDL				BDL		BDL		BDL	
DIBROMOCHLOROMETHANE	BDL				BDL		BDL		BDL	
DICHLOROBROMOMETHANE	BDL				BDL		BDL		BDL	
DICHLOROFUOROMETHANE	1.1				BDL		BDL		BDL	
ETHYL ACETATE	NA				BDL		BDL		BDL	
ETHYLBENZENE	BDL				BDL		BDL		BDL	
ISOPROPYLBENZENE	BDL				BDL		BDL		BDL	
m,p-XYLENE	BDL				BDL		BDL		BDL	
METHYL CHLORIDE	BDL				BDL		BDL		BDL	
METHYL tert-BUTYL ETHER	BDL				BDL		BDL		1.3	
n-BUTYLBENZENE	BDL				BDL		BDL		BDL	
n-PROPYLBENZENE	BDL				BDL		BDL		BDL	
o-XYLENE	BDL				BDL		BDL		BDL	
p-DIETHYLBENZENE	NA				BDL		BDL		BDL	
p-ETHYLTOLUENE	NA				BDL		BDL		BDL	
sec-BUTYLBENZENE	BDL				BDL		BDL		BDL	
STYRENE	BDL				BDL		BDL		BDL	
t-1,2-DICHLOROETHENE	BDL				BDL		BDL		BDL	
t-1,3-DICHLOROPROPENE	BDL				BDL		BDL		BDL	
tert-BUTYLBENZENE	BDL				BDL		BDL		BDL	
TETRACHLOROETHENE	4.3				9.4		5.8		10.0	
TOLUENE	BDL				BDL		BDL		BDL	
TRICHLOROETHENE	16.2				17.0		16.0		13.0	
TRICHLOROFUOROMETHANE	BDL				BDL		BDL		BDL	
VINYL CHLORIDE	BDL				BDL		BDL		BDL	
TOTAL VOCs	39.4				41.4		66.2		59.2	

SAMPLE RESULT UNITS ARE $\mu\text{ g/l}$ LAB CHANGE TO AMERICAN ANALYTICAL ON JULY 10

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT

AUGUST 2006

INFLUENT PARAMETER	Week 1 08/07/06		Week 2 08/14/06		Week 3 08/21/06		Week 4 08/28/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	237600	0	237600	0	237600	0	237600	0
FLOW, DAILY MAX (GPD)	237600	0	237600	0	237600	0	237600	0
1,1,1-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2,2-TETRACHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	BDL		BDL		BDL		BDL	
1,1-DICHLOROETHANE	BDL		BDL		3.5		BDL	
1,1-DICHLOROETHENE	BDL		BDL		BDL		2.7	
1,2,4,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2,4-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL		BDL		BDL		BDL	
1,2-DICHLOROPROPANE	BDL		BDL		BDL		BDL	
1,3,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,4-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	BDL		BDL		BDL		BDL	
2-CHLOROTOLUENE	BDL		BDL		BDL		BDL	
4-ISOPROPYL TOLUENE	BDL		BDL		BDL		BDL	
BENZENE	BDL		BDL		BDL		BDL	
BROMOFORM	BDL		BDL		BDL		BDL	
BROMOMETHANE	BDL		BDL		BDL		BDL	
CARBON TETRACHLORIDE	BDL		BDL		BDL		BDL	
CHLOROBENZENE	BDL		BDL		BDL		BDL	
CHLOROETHANE	BDL		BDL		BDL		BDL	
CHLOROFORM	BDL		BDL		2.6		2.1	
cis-1,2-DICHLOROETHENE	BDL		14.0		28.0		27.0	
cis-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
DIBROMOCHLOROMETHANE	BDL		BDL		BDL		BDL	
DICHLOROBROMOMETHANE	BDL		BDL		BDL		BDL	
DICHLOROFLUOROMETHANE	BDL		BDL		BDL		BDL	
ETHYL ACETATE	BDL		BDL		BDL		BDL	
ETHYLBENZENE	BDL		BDL		BDL		BDL	
ISOPROPYLBENZENE	BDL		BDL		BDL		BDL	
m,p-XYLENE	BDL		BDL		BDL		BDL	
METHYL CHLORIDE	6.1B		7.4B		17.0B		22.0B	
METHYL tert-BUTYL ETHER	BDL		BDL		BDL		BDL	
n-BUTYLBENZENE	BDL		BDL		BDL		BDL	
n-PROPYLBENZENE	BDL		BDL		BDL		BDL	
o-XYLENE	BDL		BDL		BDL		BDL	
p-DIETHYLBENZENE	BDL		BDL		BDL		BDL	
p-ETHYLTOLUENE	BDL		BDL		BDL		BDL	
sec-BUTYLBENZENE	BDL		BDL		BDL		BDL	
STYRENE	BDL		BDL		BDL		BDL	
t-1,2-DICHLOROETHENE	BDL		BDL		BDL		BDL	
t-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
tert-BUTYLBENZENE	BDL		BDL		BDL		BDL	
TETRACHLOROETHENE	BDL		8.3		8.9		5.7	
TOLUENE	BDL		BDL		BDL		BDL	
TRICHLOROETHENE	BDL		13.0		12.0		10.0	
TRICHLOROFUOROMETHANE	BDL		BDL		BDL		BDL	
VINYL CHLORIDE	BDL		BDL		BDL		BDL	
TOTAL VOCs	0.0		35.3		55.0		47.5	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION

MONTHLY INFLUENT MONITORING REPORT

SEPTEMBER 2006

INFLUENT PARAMETER	Week 1 09/04/06		Week 2 09/11/06		Week 3 09/18/06		Week 4 09/25/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	237600	0	237600	0	237600	0	237600	0
FLOW, DAILY MAX (GPD)	237600	0	237600	0	237600	0	237600	0
1,1,1-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2,2-TETRACHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,2-TRICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	BDL		BDL		BDL		BDL	
1,1-DICHLOROETHANE	BDL		BDL		BDL		BDL	
1,1-DICHLOROETHENE	BDL		BDL		3.2		BDL	
1,2,4,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2,4-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,2-DICHLOROETHANE	BDL		BDL		BDL		BDL	
1,2-DICHLOROPROPANE	BDL		BDL		BDL		BDL	
1,3,5-TRIMETHYLBENZENE	BDL		BDL		BDL		BDL	
1,3-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
1,4-DICHLOROBENZENE	BDL		BDL		BDL		BDL	
2-CHLOROETHYL VINYL ETHER	BDL		BDL		BDL		BDL	
2-CHLOROTOLUENE	BDL		BDL		BDL		BDL	
4-ISOPROPYL TOLUENE	BDL		BDL		BDL		BDL	
BENZENE	BDL		BDL		BDL		BDL	
BROMOFORM	BDL		BDL		BDL		BDL	
BROMOMETHANE	BDL		BDL		BDL		BDL	
CARBON TETRACHLORIDE	BDL		BDL		BDL		BDL	
CHLOROBENZENE	BDL		BDL		BDL		BDL	
CHLOROETHANE	BDL		BDL		BDL		BDL	
CHLOROFORM	BDL		BDL		2.4		BDL	
cis-1,2-DICHLOROETHENE	29.0		32.0		29.0		30.0	
cis-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
DIBROMOCHLOROMETHANE	BDL		BDL		BDL		BDL	
DICHLOROBROMOMETHANE	BDL		BDL		BDL		BDL	
DICHLOROFUOROMETHANE	BDL		BDL		BDL		BDL	
ETHYL ACETATE	BDL		BDL		BDL		BDL	
ETHYL BENZENE	BDL		BDL		BDL		BDL	
ISOPROPYL BENZENE	BDL		BDL		BDL		BDL	
m,p-XYLENE	BDL		BDL		BDL		BDL	
METHYL CHLORIDE	NR		NR		NR		NR	
METHYL tert-BUTYL ETHER	BDL		BDL		BDL		BDL	
n-BUTYL BENZENE	BDL		BDL		BDL		BDL	
n-PROPYLBENZENE	BDL		BDL		BDL		BDL	
o-XYLENE	BDL		BDL		BDL		BDL	
p-DIETHYL BENZENE	BDL		BDL		BDL		BDL	
p-ETHYL TOLUENE	BDL		BDL		BDL		BDL	
sec-BUTYL BENZENE	BDL		BDL		BDL		BDL	
STYRENE	BDL		BDL		BDL		BDL	
t-1,2-DICHLOROETHENE	BDL		BDL		BDL		BDL	
t-1,3-DICHLOROPROPENE	BDL		BDL		BDL		BDL	
tert-BUTYL BENZENE	BDL		BDL		BDL		BDL	
TETRACHLOROETHENE	BDL		BDL		7.4		7.8	
TOLUENE	BDL		BDL		BDL		BDL	
TRICHLOROETHENE	BDL		BDL		12.0		15.0	
TRICHLOROFUOROMETHANE	BDL		BDL		BDL		BDL	
VINYL CHLORIDE	BDL		BDL		BDL		BDL	
TOTAL VOCs	29.0		32.0		54.0		52.8	

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

**NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY INFLUENT MONITORING REPORT**

OCTOBER 2006

INFLUENT PARAMETER	Week 1 10/02/06		Week 2 10/09/06		Week 3 10/16/06		Week 4 10/23/06		Week 5 10/30/06	
	PLUME SP-101	SOURCE SP-102								
FLOW, DAILY AVG (GPD)	237600	0	237600	0	237600	0	16971	0	0	0
FLOW, DAILY MAX (GPD)	237600	0	237600	0	237600	0	118800	0	0	0
1,1,1-TRICHLOROETHANE	2.2		BDL		2.3					
1,1,2,2-TETRACHLOROETHANE	BDL		BDL		BDL					
1,1,2-TRICHLOROETHANE	BDL		BDL		BDL					
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	BDL		BDL		BDL					
1,1-DICHLOROETHANE	BDL		2.1		2.4					
1,1-DICHLOROETHENE	4.7		4.6		5.8					
1,2,4,5-TRIMETHYLBENZENE	BDL		BDL		BDL					
1,2,4-TRIMETHYLBENZENE	BDL		BDL		BDL					
1,2-DICHLOROBENZENE	BDL		BDL		BDL					
1,2-DICHLOROETHANE	BDL		BDL		BDL					
1,2-DICHLOROPROPANE	BDL		BDL		BDL					
1,3,5-TRIMETHYLBENZENE	BDL		BDL		BDL					
1,3-DICHLOROBENZENE	BDL		BDL		BDL					
1,4-DICHLOROBENZENE	BDL		BDL		BDL					
2-CHLOROETHYL VINYL ETHER	BDL		BDL		BDL					
2-CHLOROTOLUENE	BDL		BDL		BDL					
4-ISOPROPYLtolUENE	BDL		BDL		BDL					
BENZENE	BDL		BDL		BDL					
BROMOFORM	BDL		BDL		BDL					
BROMOMETHANE	BDL		BDL		BDL					
CARBON TETRACHLORIDE	BDL		BDL		BDL					
CHLOROBENZENE	BDL		BDL		BDL					
CHLOROETHANE	BDL		BDL		BDL					
CHLOROFORM	3.5		BDL		4.0					
cis-1,2-DICHLOROETHENE	30.0		31.0		33.0					
cis-1,3-DICHLOROPROPENE	BDL		BDL		BDL					
DIBROMOCHLOROMETHANE	BDL		BDL		BDL					
DICHLOROBROMOMETHANE	BDL		BDL		BDL					
DICHLOROFLUOROMETHANE	BDL		BDL		2.7					
ETHYL ACETATE	BDL		BDL		BDL					
ETHYLBENZENE	BDL		BDL		BDL					
ISOPROPYLBENZENE	BDL		BDL		BDL					
m,p-XYLENE	BDL		BDL		BDL					
METHYL CHLORIDE	NR		NR		NR					
METHYL tert-BUTYL ETHER	BDL		BDL		2.6					
n-BUTYLBENZENE	BDL		BDL		BDL					
n-PROPYLBENZENE	BDL		BDL		BDL					
o-XYLENE	BDL		BDL		BDL					
p-DIETHYLBENZENE	BDL		BDL		BDL					
p-ETHYLTOLUENE	BDL		BDL		BDL					
sec-BUTYLBENZENE	BDL		BDL		BDL					
STYRENE	BDL		BDL		BDL					
t-1,2-DICHLOROETHENE	BDL		BDL		BDL					
t-1,3-DICHLOROPROPENE	BDL		BDL		BDL					
tert-BUTYLBENZENE	BDL		BDL		BDL					
TETRACHLOROETHENE	6.1		6.7		6.3					
TOLUENE	BDL		BDL		BDL					
TRICHLOROETHENE	17.0		12.0		12.0					
TRICHLOROFLUOROMETHANE	BDL		BDL		BDL					
VINYL CHLORIDE	1.2		BDL		1.8					
TOTAL VOCs	64.7		56.4		72.9					

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION

MONTHLY INFLUENT MONITORING REPORT

NOVEMBER 2006

INFLUENT PARAMETER	Week 1 11/06/06		Week 2 11/13/06		Week 3 11/20/06		Week 4 11/27/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	18206	35383	147814	368649	396000	460800	396000	460800
FLOW, DAILY MAX (GPD)	118800	240480	396000	468000	396000	460800	396000	460800
1,1,1-TRICHLOROETHANE	BDL	140.0	BDL	110.0	1.3	100.0	BDL	100.0
1,1,2,2-TETRACHLOROETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	BDL	BDL	BDL	26.0	BDL	BDL	BDL	BDL
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	BDL	150.0	BDL	50.0	2.6	29.0	1.7	12.0
1,1-DICHLOROETHENE	BDL	18.0	1.8	10.0	2.8	7.2	3.0	7.1
1,2,4,5-TRIMETHYLBENZENE	BDL	17.0	BDL	30.0	BDL	BDL	BDL	16.0
1,2,4-TRIMETHYLBENZENE	BDL	53.0	BDL	94.0	BDL	57.0	BDL	49.0
1,2-DICHLOROBENZENE	4.0	110.0	BDL	71.0	1.8	51.0	1.2	47.0
1,2-DICHLOROETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROPROPANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-TRIMETHYLBENZENE	BDL	38.0	BDL	28.0	BDL	38.0	BDL	15.0
1,3-DICHLOROBENZENE	BDL	2.0	BDL	61.0	BDL	1.1	BDL	BDL
1,4-DICHLOROBENZENE	BDL	14.0	BDL	65.0	BDL	6.8	BDL	BDL
2-CHLOROETHYL VINYL ETHER	BDL	BDL	BDL	61.0	BDL	BDL	BDL	BDL
2-CHLOROTOLUENE	BDL	BDL	BDL	4.2	BDL	BDL	BDL	BDL
4-ISOPROPYLtolUENE	BDL	5.8	BDL	BDL	BDL	3.2	BDL	1.9
BENZENE	BDL	BDL	BDL	1.3	BDL	1.2	BDL	BDL
BROMOFORM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BROMOMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	BDL	BDL	BDL	8.2	BDL	14.0	BDL	24.0
CHLOROBENZENE	BDL	130.0	BDL	7.6	BDL	50.0	BDL	35.0
CHLOROETHANE	BDL	43.0	BDL	BDL	BDL	2.8	BDL	BDL
CHLOROFORM	BDL	11.0	BDL	4.6	BDL	5.5	1.5	6.1
cis-1,2-DICHLOROETHENE	49.0	4100.0	55.0	2800.0	60.0	1700.0	35.0	780.0
cis-1,3-DICHLOROPROPENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DICHLOROBROMOMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DICHLOROFUOROMETHANE	BDL	BDL	BDL	BDL	BDL	7.0	BDL	BDL
ETHYL ACETATE	BDL	BDL	BDL	120.0	BDL	BDL	BDL	BDL
ETHYLBENZENE	BDL	26.0	BDL	17.0	BDL	14.0	BDL	12.0
ISOPROPYLBENZENE	BDL	25.0	BDL	13.0	BDL	8.1	BDL	4.6
m,p-XYLENE	BDL	36.0	BDL	30.0	BDL	22.0	BDL	19.0
METHYL CHLORIDE	NR	2.6	NR	4.1	NR	NR	4.7B	4.9B
METHYL tert-BUTYL ETHER	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
n-BUTYLBENZENE	BDL	BDL	BDL	6.0	BDL	2.6	BDL	BDL
n-PROPYLBENZENE	BDL	47.0	BDL	28.0	BDL	19.0	BDL	11.0
o-XYLENE	BDL	24.0	BDL	20.0	BDL	14.0	BDL	10.0
p-DIETHYLBENZENE	BDL	19.0	BDL	12.0	BDL	8.4	BDL	4.9
p-ETHYLTOLUENE	BDL	47.0	BDL	37.0	BDL	31.0	BDL	26.0
sec-BUTYLBENZENE	BDL	120.0	BDL	6.2	BDL	3.8	BDL	3.5
STYRENE	BDL	BDL	BDL	BDL	BDL	2.4	BDL	BDL
t-1,2-DICHLOROETHENE	BDL	21.0	BDL	BDL	BDL	1.1	BDL	BDL
t-1,3-DICHLOROPROPENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
tert-BUTYLBENZENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.4
TETRACHLOROETHENE	15.0	100.0	21.0	290.0	22.0	360.0	19.0	400.0
TOLUENE	BDL	37.0	BDL	40.0	BDL	38.0	BDL	37.0
TRICHLOROETHENE	12.0	51.0	14.0	120.0	18.0	190.0	13.0	180.0
TRICHLOROFUOROMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE	BDL	550.0	BDL	250.0	5.2	140.0	4.1	65.0
TOTAL VOCs	80.0	5937.4	91.8	4425.2	113.7	2928.2	78.5	1871.5

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION

MONTHLY INFLUENT MONITORING REPORT

DECEMBER 2006

INFLUENT PARAMETER	Week 1 12/04/06		Week 2 12/11/06		Week 3 12/18/06		Week 4 12/26/06	
	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102	PLUME SP-101	SOURCE SP-102
FLOW, DAILY AVG (GPD)	396000	460800	396000	460800	396000	460800	396000	460800
FLOW, DAILY MAX (GPD)	396000	460800	396000	460800	396000	460800	396000	460800
1,1,1-TRICHLOROETHANE	BDL	150.0	1.1	140.0	BDL	170.0	BDL	210.0
1,1,2,2-TETRACHLOROETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,3-TRICHLORO-1,2,2-TRIFLUORO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	BDL	BDL	2.4	14.0	2.7	13.0	BDL	11.0
1,1-DICHLOROETHENE	BDL	6.5	2.8	10.0	2.9	9.7	3.4	11.0
1,2,4,5-TRIMETHYLBENZENE	4.2	21.0	BDL	8.0	BDL	16.0	BDL	17.0
1,2,4-TRIMETHYLBENZENE	BDL	48.0	BDL	36.0	BDL	40.0	BDL	BDL
1,2-DICHLOROBENZENE	BDL	47.0	1.2	48.0	BDL	53.0	BDL	BDL
1,2-DICHLOROETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROPROPANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-TRIMETHYLBENZENE	BDL	18.0	BDL	11.0	BDL	12.0	BDL	17.0
1,3-DICHLOROBENZENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	BDL	BDL	BDL	BDL	BDL	6.0	BDL	BDL
2-CHLOROETHYL VINYL ETHER	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-CHLOROTOLUENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-ISOPROPYL TOLUENE	BDL	8.9	BDL	2.4	BDL	2.4	BDL	3.4
BENZENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BROMOFORM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BROMOMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	BDL	24.0	BDL	20.0	BDL	41.0	BDL	34.0
CHLOROBENZENE	BDL	25.0	BDL	23.0	BDL	21.0	BDL	28.0
CHLOROETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CHLOROFORM	BDL	6.0	1.3	7.0	1.5	7.4	BDL	7.2
cis-1,2-DICHLOROETHENE	39.0	630.0	49.0	680.0	54.0	1200.0	54.0	800.0
cis-1,3-DICHLOROPROPENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DICHLOROBROMOMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DICHLOROFUOROMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ETHYL ACETATE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ETHYLBENZENE	BDL	9.4	BDL	8.6	BDL	8.9	BDL	15.0
ISOPROPYL BENZENE	BDL	5.6	BDL	4.6	BDL	4.0	BDL	7.7
m,p-XYLENE	BDL	20.0	BDL	19.0	BDL	18.0	BDL	30.0
METHYL CHLORIDE	BDL	3.3B	4.0B	3.9B	15.0B	15.0B	5.1B	5.8B
METHYL tert-BUTYL ETHER	BDL	BDL	2.0	BDL	BDL	BDL	BDL	BDL
n-BUTYLBENZENE	BDL	3.8	BDL	BDL	BDL	3.4	BDL	3.9
n-PROPYLBENZENE	BDL	14.0	BDL	13.0	BDL	13.0	BDL	21.0
o-XYLENE	BDL	11.0	BDL	10.0	BDL	9.0	BDL	14.0
p-DIETHYLBENZENE	BDL	7.8	BDL	7.0	BDL	6.3	BDL	8.8
p-ETHYLTOLUENE	BDL	27.0	BDL	21.0	BDL	21.0	BDL	34.0
sec-BUTYLBENZENE	BDL	2.7	BDL	2.6	BDL	1.8	BDL	BDL
STYRENE	BDL	3.3	BDL	BDL	BDL	3.0	BDL	3.7
t-1,2-DICHLOROETHENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
t-1,3-DICHLOROPROPENE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
tert-BUTYLBENZENE	BDL	BDL	BDL	4.2	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	27.0	460.0	23.0	470.0	18.0	540.0	28.0	710.0
TOLUENE	7.1	48.0	BDL	63.0	BDL	49.0	BDL	72.0
TRICHLOROETHENE	19.0	300.0	2.0	340.0	14.0	280.0	19.0	380.0
TRICHLOROFUOROMETHANE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE	BDL	59.0	3.4	49.0	BDL	41.0	BDL	49.0
TOTAL VOCs	96.3	1956.0	88.2	2011.4	93.1	2589.9	104.4	2487.7

SAMPLE RESULT UNITS ARE $\mu\text{g/l}$

APPENDIX C
MONTHLY EFFLUENT MONITORING REPORTS
2006

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

JANUARY 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMP'T MDL	WEEK 1 01/03/06	WEEK 2 01/09/06	WEEK 3 01/17/06	WEEK 4 01/23/06	WEEK 5 01/30/06
FLOW, DAILY MAX	MONITOR	GPD		240480	241920	241920	240480	240480
PH	6.5-8.5	µ g/l		7.4	6.93	7.3	6.99	7.04
DICHLOROBROMOMETHANE	50	µ g/l	0.9	BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	5	µ g/l	1.3	BDL	BDL	BDL	BDL	BDL
BROMOFORM	50	µ g/l	0.7	BDL	BDL	BDL	BDL	BDL
DI(BROMO)CHLOROMETHANE	50	µ g/l	0.7	BDL	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µ g/l	1.1	BDL	BDL	BDL	BDL	BDL
TOLUENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
BENZENE	0.7	µ g/l	0.7	BDL	BDL	BDL	BDL	BDL
CHLOROBENZENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
TETRA(CHLORO)ETHENE	0.5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
TRICHLOROFUOROMETHANE	0.5	µ g/l	1.2	BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µ g/l	1.1	2.5	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µ g/l	1.2	1.9	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µ g/l	1.4	BDL	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µ g/l	0.9	BDL	BDL	BDL	BDL	BDL
1,1,2,2-TETRA(CHLORO)ETHANE	0.3	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µ g/l	0.8	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROBENZENE	4.7	µ g/l	0.9	1.5	BDL	BDL	BDL	BDL
1,2-DICHLOROPROpane	5	µ g/l	1.0	BDL	BDL	BDL	BDL	BDL
1,2(trans)-DICHLOROPROPENE	2	µ g/l	1.1	BDL	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µ g/l	1.1	BDL	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	4.7	µ g/l	1.0	0.7	BDL	BDL	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µ g/l	0.9	BDL	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µ g/l	0.9	BDL	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µ g/l	2.4	BDL	BDL	BDL	BDL	BDL
BROMOMETHANE	5	µ g/l	2.4	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µ g/l	1.1	5.3	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µ g/l	0.6	14.0	BDL	BDL	BDL	BDL
1,2(cis)-DICHLOROETHENE	5	µ g/l	0.7	36.5	0.8	0.8	BDL	BDL
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µ g/l	NA	NA	NA	NA	NA	NA
o-XYLENE	5	µ g/l	1.3	BDL	BDL	BDL	BDL	BDL
CHLOROETHANE	5	µ g/l	1.6	BDL	BDL	BDL	BDL	BDL
TOTAL VOCs	100	µ g/l		72.9	0.8	0.8	0.0	0.0

NA - Not Analyzed

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

FEBRUARY 2006
OUTFALL 001G

EFFLUENT PARAMETER	FLOW, DAILY MAX	DISCHARGE LIMITATIONS	UNITS	COMP'T MDL	WEEK 1		WEEK 2		WEEK 3		WEEK 4	
					MONITOR	GPD	02/06/06	02/13/06	02/21/06	02/27/06		
pH	6.5-8.5	SU	µ g/l	0.9	BDL	BDL	BDL	BDL	BDL	BDL	6.78	
DICHLOROBROMOMETHANE	50	µ g/l	0.9	1.3	BDL	BDL	BDL	BDL	BDL	BDL		
CARBON TETRACHLORIDE	5	µ g/l	0.7	0.7	BDL	BDL	BDL	BDL	BDL	BDL		
BROMOFORM	50	µ g/l	0.7	0.7	BDL	BDL	BDL	BDL	BDL	BDL		
DIBROMOCHLOROMETHANE	50	µ g/l	1.1	1.1	BDL	BDL	BDL	BDL	BDL	BDL		
CHLOROFORM	0.2	µ g/l	1.2	1.2	BDL	BDL	BDL	BDL	BDL	BDL		
TOLUENE	5	µ g/l	1.2	0.7	BDL	BDL	BDL	BDL	BDL	BDL		
BENZENE	0.7	µ g/l	0.7	0.7	BDL	BDL	BDL	BDL	BDL	BDL		
CHLOROBENZENE	5	µ g/l	1.2	1.2	BDL	BDL	BDL	BDL	BDL	BDL		
ETHYLBENZENE	5	µ g/l	1.2	1.2	BDL	BDL	BDL	BDL	BDL	BDL		
METHYLENE CHLORIDE	5	µ g/l	1.0	1.0	BDL	BDL	BDL	BDL	BDL	BDL		
TETRACHLOROETHENE	0.5	µ g/l	1.2	1.2	BDL	BDL	BDL	BDL	BDL	BDL		
TRICHLOROFLUOROMETHANE	5	µ g/l	1.2	1.2	BDL	BDL	BDL	BDL	BDL	BDL		
1,1-DICHLOROETHANE	5	µ g/l	1.1	1.1	BDL	BDL	BDL	BDL	BDL	BDL		
1,1-DICHLOROETHENE	0.9	µ g/l	1.2	1.2	BDL	BDL	BDL	BDL	BDL	BDL		
1,1,1-TRICHLOROETHANE	5	µ g/l	1.4	1.4	BDL	BDL	BDL	BDL	BDL	BDL		
1,1,2-TRICHLOROETHANE	0.5	µ g/l	0.9	0.9	BDL	BDL	BDL	BDL	BDL	BDL		
1,1,2,2-TETRACHLOROETHANE	0.3	µ g/l	1.0	1.0	BDL	BDL	BDL	BDL	BDL	BDL		
1,2-DICHLOROETHANE	1	µ g/l	0.8	0.8	BDL	BDL	BDL	BDL	BDL	BDL		
1,2-DICHLOROBENZENE	4.7	µ g/l	0.9	0.9	BDL	BDL	BDL	BDL	BDL	BDL		
1,2-DICHLOROPROPANE	5	µ g/l	1.0	1.0	BDL	BDL	BDL	BDL	BDL	BDL		
1,2-(trans)-DICHLOROETHENE	2	µ g/l	1.1	1.1	BDL	BDL	BDL	BDL	BDL	BDL		
1,3-DICHLOROBENZENE	5	µ g/l	1.1	1.1	BDL	BDL	BDL	BDL	BDL	BDL		
1,4-DICHLOROBENZENE	4.7	µ g/l	1.0	0.9	BDL	BDL	BDL	BDL	BDL	BDL		
1,3(trans)-DICHLOROPROPENE	2	µ g/l	0.9	0.9	BDL	BDL	BDL	BDL	BDL	BDL		
1,3(cis)-DICHLOROPROPENE	2	µ g/l	0.9	0.9	BDL	BDL	BDL	BDL	BDL	BDL		
m,p-XYLENE	5	µ g/l	2.4	2.4	BDL	BDL	BDL	BDL	BDL	BDL		
BROMOMETHANE	5	µ g/l	2.4	2.4	BDL	BDL	BDL	BDL	BDL	BDL		
VINYL CHLORIDE	5	µ g/l	1.1	1.1	BDL	BDL	BDL	BDL	BDL	BDL		
TRICHLOROETHENE	10	µ g/l	0.6	0.6	BDL	BDL	BDL	BDL	BDL	BDL		
1,2(cis)-DICHLOROETHENE	5	µ g/l	0.7	0.7	BDL	NA	NA	NA	NA	NA		
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µ g/l	1.3	1.3	BDL	BDL	BDL	BDL	BDL	BDL		
O-XYLENE	5	µ g/l	1.6	1.6	BDL	BDL	BDL	BDL	BDL	BDL		
CHLOROETHANE	5	µ g/l	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL VOCs		100	µ g/l									

NA - Not Analyzed

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

APRIL 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMPT MDL	WEEK 1 04/03/06	WEEK 2 04/17/06	WEEK 3 04/21/06	WEEK 4 04/25/06
FLOW, DAILY MAX	MONITOR 6.5-8.5	GPD SU	NA	237600 6.92	237600 6.41	237600 6.41	237600 6.78
pH							
DICHLOROBROMOMETHANE	50	µg/l	0.9	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	5	µg/l	1.3	BDL	BDL	BDL	BDL
BROMOFORM	50	µg/l	0.7	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µg/l	0.7	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µg/l	1.1	BDL	BDL	BDL	BDL
TOLUENE	5	µg/l	1.2	BDL	BDL	BDL	BDL
BENZENE	0.7	µg/l	0.7	BDL	BDL	BDL	BDL
CHLOROBENZENE	5	µg/l	1.2	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µg/l	1.2	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	0.5	µg/l	0.5	BDL	BDL	BDL	BDL
TRICHLOROFUOROMETHANE	5	µg/l	1.2	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µg/l	1.1	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µg/l	1.2	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µg/l	1.4	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µg/l	0.9	BDL	BDL	BDL	BDL
1,1,2,2-TETRACHLOROETHANE	0.3	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µg/l	0.8	BDL	BDL	BDL	BDL
1,2-DICHLOROBENZENE	4.7	µg/l	0.9	BDL	BDL	BDL	BDL
1,2-DICHLOROPROPANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-(trans)-DICHLOROETHENE	2	µg/l	1.1	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µg/l	1.1	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µg/l	0.9	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µg/l	0.9	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µg/l	2.4	BDL	BDL	BDL	BDL
BROMOMETHANE	5	µg/l	2.4	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µg/l	1.1	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µg/l	0.6	BDL	BDL	BDL	BDL
1,2(cis)-DICHLOROETHENE	5	µg/l	0.7	BDL	BDL	BDL	BDL
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µg/l	NA	NA	NA	NA	NA
O-XYLENE	5	µg/l	1.3	BDL	BDL	BDL	BDL
CHLOROETHANE			1.6	BDL	BDL	BDL	BDL
TOTAL VOCs		100	µg/l	0.0	0.0	0.0	0.0

NA - Not Analyzed

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

MAY 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMPT MDL	WEEK 1 05/01/06	WEEK 2 05/08/06	WEEK 3 05/15/06	WEEK 4 05/22/06	WEEK 5 05/29/06
FLOW, DAILY MAX	MONITOR	GPD		237600	237600	237600	237600	237600
pH	6.5-8.5	µg/l	0.9	7.38	7.25	7.42	7.36	7.30
DICHLOROBROMOMETHANE	50	µg/l	1.3	BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	5	µg/l	0.7	BDL	BDL	BDL	BDL	BDL
BROMOFORM	50	µg/l	0.7	BDL	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µg/l	1.1	BDL	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µg/l	1.2	BDL	BDL	BDL	BDL	BDL
TOLUENE	5	µg/l	0.7	BDL	BDL	BDL	BDL	BDL
BENZENE	0.7	µg/l	0.7	BDL	BDL	BDL	BDL	BDL
CHLOROBENZENE	5	µg/l	1.2	BDL	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µg/l	1.2	BDL	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	0.5	µg/l	0.5	BDL	BDL	BDL	BDL	BDL
TRICHLOROFUOROMETHANE	5	µg/l	1.2	BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µg/l	1.1	BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µg/l	1.2	BDL	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µg/l	1.4	BDL	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µg/l	0.9	BDL	BDL	BDL	BDL	BDL
1,1,2,2-TETRACHLOROETHANE	0.3	µg/l	1.0	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µg/l	0.8	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROETHENE	5	µg/l	0.9	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROPROPANE	2	µg/l	1.1	BDL	BDL	BDL	BDL	BDL
1,2-(trans)-DICHLOROETHENE	2	µg/l	0.9	BDL	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µg/l	1.1	BDL	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µg/l	0.9	BDL	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µg/l	0.9	BDL	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µg/l	2.4	BDL	BDL	BDL	BDL	BDL
BROMOMETHANE	5	µg/l	2.4	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µg/l	NA	BDL	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µg/l	0.6	BDL	BDL	BDL	BDL	BDL
1,2,(cis)-DICHLOROETHENE	5	µg/l	0.7	BDL	BDL	BDL	BDL	BDL
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µg/l	NA	NA	NA	NA	NA	NA
O-XYLENE	5	µg/l	1.3	BDL	BDL	BDL	BDL	BDL
CHLOROETHANE	5	µg/l	1.6	BDL	BDL	BDL	BDL	BDL
TOTAL VOCs	100	µg/l	0.0	0.0	0.0	0.0	0.0	0.0

NA - Not Analyzed

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

JUNE 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	COMPT MDL	WEEK 1				WEEK 2				WEEK 3				WEEK 4			
				MONITOR	GPD	06/05/06	237600	06/12/06	237600	06/19/06	237600	06/29/06	237600	06/19/06	237600	06/29/06	237600		
FLOW, DAILY MAX	6.5-8.5	SU				7.41		6.74		6.83		7.3							
pH	50	µ g/l	0.9																
DICHLOROBROMOMETHANE	5	µ g/l	1.3																
CARBON TETRACHLORIDE	50	µ g/l	0.7																
BROMOFORM	50	µ g/l	0.7																
DIBROMOCHLOROMETHANE	0.2	µ g/l	1.1																
CHLOROFORM	5	µ g/l	1.2																
TOLUENE	5	µ g/l	0.7																
BENZENE	0.7	µ g/l	0.7																
CHLOROBENZENE	5	µ g/l	1.2																
ETHYLBENZENE	5	µ g/l	1.2																
METHYLENE CHLORIDE	5	µ g/l	1.0																
TETRACHLOROETHENE	0.5	µ g/l	0.5																
TRICHLOROFUOROMETHANE	5	µ g/l	1.2																
1,1-DICHLOROETHENE	0.9	µ g/l	1.1																
TRICHLOROETHANE	0.5	µ g/l	1.4																
1,1,1-TRICHLOROETHANE	0.5	µ g/l	0.9																
1,1,2-TRICHLOROETHANE	0.3	µ g/l	1.0																
1,1,2,2-TETRACHLOROETHANE	0.3	µ g/l	1.2																
1,2-DICHLOROETHANE	1	µ g/l	0.8																
1,2-DICHLOROBENZENE	4.7	µ g/l	0.9																
1,2-DICHLOROPROPANE	5	µ g/l	1.0																
1,2-(trans)-DICHLOROETHENE	2	µ g/l	1.1																
1,3-DICHLOROBENZENE	5	µ g/l	1.1																
1,4-DICHLOROBENZENE	4.7	µ g/l	1.0																
1,3(trans)-DICHLOROPROPENE	2	µ g/l	0.9																
1,3(cis)-DICHLOROPROPENE	2	µ g/l	0.9																
m,p-XYLENE	5	µ g/l	2.4																
BROMOMETHANE	5	µ g/l	2.4																
VINYL CHLORIDE	5	µ g/l	1.1																
TRICHLOROETHENE	10	µ g/l	0.6																
1,2(cis)-DICHLOROETHENE	5	µ g/l	0.7																
1,1,2-TRICHLORO 1,2-TRIFLUOROETHANE	5	µ g/l	NA																
O-XYLENE	5	µ g/l	1.3																
CHLOROETHANE	5	µ g/l	1.6																
TOTAL VOCs	100	µ g/l	0.0																

NA - Not Analyzed

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

JULY 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	REPORTING LIMIT	GPD	MONITOR	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
FLOW, DAILY MAX	6.5-8.5	SU	NA	237600		237600	6.58	6.49	6.70	237600
PH	5.0	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
DICHLOROBROMOMETHANE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	50	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
BROMOFORM	50	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
TOLUENE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
BENZENE	0.7	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
CHLOROBENZENE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
TETRACHLOROETHENE	0.5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
TRICHLOROFUOROMETHANE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,1,2,2-TETRACHLOROETHANE	0.3	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROBENZENE	4.7	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,2-DICHLOROPROpane	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,2,(trans)-DICHLOROETHENE	2	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	4.7	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
BROMOMETHANE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,2(cis)-DICHLOROETHENE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
O-XYLENE	5	µg/l	1.0	BDL		BDL	BDL	BDL	BDL	BDL
CHLOROETHANE	5	µg/l	0.0	0.0		0.0	0.0	0.0	0.0	0.0
TOTAL VOCs	100	µg/l	0.0	0.0		0.0	0.0	0.0	0.0	0.0

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

AUGUST 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	REPORTING LIMIT	WEEK 1	WEEK 2	WEEK 3	WEEK 4
FLOW, DAILY MAX	MONITOR	GPD	NA	08/07/06	08/14/06	08/21/06	08/29/06
PH	6.5-8.5	µ g/l	1.0	BDL	7.13	6.23	6.41
DICHLOROBROMOMETHANE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
BROMOFORM	50	µ g/l	1.0	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µ g/l	1.0	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µ g/l	1.0	BDL	BDL	BDL	BDL
TOLUENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
BENZENE	0.7	µ g/l	1.0	4.5	BDL	BDL	BDL
CHLOROBENZENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µ g/l	1.0	BDL	1.8	BDL	BDL
TETRACHLOROETHENE	0.5	µ g/l	1.0	BDL	7.1	16 "B"	23 "B"
TRICHLOROFLUOROMETHANE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µ g/l	1.0	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,1,2,2-TETRACHLOROETHANE	0.3	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	4.7	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROPROpane	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2(trans)-DICHLOROETHENE	2	µ g/l	1.0	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	4.7	µ g/l	1.0	BDL	3.7	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µ g/l	1.0	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µ g/l	1.0	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µ g/l	1.0	BDL	5.8	BDL	BDL
BROMOMETHANE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µ g/l	1.0	BDL	BDL	BDL	BDL
1,2(cis)-DICHLOROETHENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µ g/l	1.0	BDL	2.6	BDL	BDL
O-XYLENE	5	µ g/l	1.0	BDL	BDL	BDL	BDL
CHLOROETHANE	100	µ g/l	0.0	25.5	0.0	0.0	0.0
TOTAL VOCs							

"B" - Analyte detected in the associated Method Blank

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

SEPTEMBER 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	REPORTING LIMIT	WEEK 1	WEEK 2	WEEK 3	WEEK 4
FLOW, DAILY MAX	MONITOR	GPD	NA	237600	237600	09/18/06	09/25/06
pH	6.5-8.5	SU	1.0	BDL	BDL	7.16	7.38
DICHLOROBROMOMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL
BROMOFORM	50	µg/l	1.0	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µg/l	1.0	BDL	BDL	BDL	BDL
TOLUENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
BENZENE	0.7	µg/l	1.0	BDL	BDL	BDL	BDL
CHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µg/l	1.0	BDL	BDL	17 "B"	10 "B"
TETRACHLOROETHENE	0.5	µg/l	1.0	BDL	BDL	BDL	BDL
TRICHLOROFLUOROMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2,2-TETRACHLOROETHANE	0.3	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROPROPANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,2(trans)-DICHLOROETHENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µg/l	2.0	BDL	BDL	BDL	BDL
BROMOMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µg/l	1.0	BDL	BDL	BDL	BDL
1,2(cis)-DICHLOROETHENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
o-XYLENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
TOTAL VOCs	100	µg/l	0.0	0.0	0.0	0.0	0.0

"B"- Analyte detected in the associated Method Blank

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

OCTOBER 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	REPORTING LIMIT	WEEK 1 10/02/06	WEEK 2 10/09/06	WEEK 3 10/16/06	WEEK 4 * * *	WEEK 5 * * *
FLOW, DAILY MAX	MONITOR	GPD	NA	237600	237600	237600	118800	
PH	6.5-8.5	µg/l	1.0	BDL	5.99	6.1	BDL	
DICHLOROBROMOMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL	
CARBON TETRACHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
BROMOFORM	50	µg/l	1.0	BDL	BDL	BDL	BDL	
DIBROMOCHLOROMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL	
CHLOROFORM	0.2	µg/l	1.0	BDL	BDL	BDL	BDL	
TOLUENE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
BENZENE	0.7	µg/l	1.0	BDL	BDL	BDL	BDL	
CHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
ETHYLBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
METHYLENE CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
TETRACHLOROETHENE	0.5	µg/l	1.0	BDL	BDL	BDL	BDL	
TRICHLOROFUOROMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1-DICHLOROETHENE	0.9	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1-DICHLOROETHENE	0.9	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1,1-TRICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1,2-TRICHLOROETHANE	0.5	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1,2,2-TETRACHLOROETHANE	0.3	µg/l	1.0	BDL	BDL	BDL	BDL	
1,2-DICHLOROETHANE	1	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1,1-TRICHLOROETHANE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1,2-TRICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
1,2-DICHLOROPROpane	2	µg/l	1.0	BDL	BDL	BDL	BDL	
1,2,(trans)-DICHLOROETHENE	2	µg/l	1.0	BDL	BDL	BDL	BDL	
1,3-DICHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
1,4-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL	
1,3(trans)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL	
1,3(cis)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL	
m,p-XYLENE	5	µg/l	2.0	BDL	BDL	BDL	BDL	
BROMOMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
VINYL CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
TRICHLOROETHENE	10	µg/l	1.0	BDL	BDL	BDL	BDL	
1,2(cis)-DICHLOROETHENE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
O-XYLENE	5	µg/l	1.0	BDL	BDL	BDL	BDL	
CHLOROETHANE	5	µg/l	0.0	0.0	0.0	0.0	0.0	
TOTAL VOCs	100	µg/l	0.0	0.0	0.0	0.0	0.0	0.0

* - Plant shut down between 10/16 and 11/6 for stripping tower rehabilitation.

"B"- Analyte detected in the associated Method Blank

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

NOVEMBER 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	REPORTING LIMIT	WEEK 1	WEEK 2	WEEK 3	WEEK 4
FLOW, DAILY MAX	MONITOR	GPD	NA	11/06/06	11/13/06	11/20/06	11/27/06
pH	6.5-8.5	su	1.0	BDL	BDL	6.68	6.02
DICHLOROBROMOMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL
BROMOFORM	50	µg/l	1.0	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µg/l	1.0	BDL	BDL	BDL	BDL
TOLUENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
BENZENE	0.7	µg/l	1.0	BDL	BDL	BDL	BDL
CHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µg/l	1.0	BDL	BDL	4.8 "B"	4.1 "B"
TETRACHLOROETHENE	0.5	µg/l	1.0	BDL	BDL	.95 "J"	BDL
TRICHLOROFLUOROMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2,2-TETRACHLOROETHANE	0.3	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	1.3	BDL
1,2-DICHLOROPROPANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,2(trans)-DICHLOROETHENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µg/l	2.0	BDL	BDL	BDL	BDL
BROMOMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µg/l	1.0	BDL	BDL	BDL	BDL
1,2(cis)-DICHLOROETHENE	5	µg/l	1.0	BDL	BDL	5.0	BDL
1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
O-XYLENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
CHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
TOTAL VOCs	100	µg/l	0.0	0.0	0.0	0.0	0.0

"J" - Analyte detected below quantitation limits.
"B" - Analyte detected in the associated Method Blank

NASSAU COUNTY MITCHEL FIELD REMEDIAL ACTION
MONTHLY EFFLUENT MONITORING REPORT

DECEMBER 2006
OUTFALL 001G

EFFLUENT PARAMETER	DISCHARGE LIMITATIONS	UNITS	REPORTING LIMIT	WEEK 1 12/04/06	WEEK 2 12/11/06	WEEK 3 12/18/06	WEEK 4 12/26/06
FLOW, DAILY MAX	MONITOR	GPD	NA	856800	856800	856800	856800
pH	6.5-8.5	su		6.48	6.81	6.71	6.45
DICHLOROBROMOMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL
BROMOFORM	50	µg/l	1.0	BDL	BDL	BDL	BDL
DIBROMOCHLOROMETHANE	50	µg/l	1.0	BDL	BDL	BDL	BDL
CHLOROFORM	0.2	µg/l	1.0	BDL	BDL	BDL	BDL
TOLUENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
BENZENE	0.7	µg/l	1.0	BDL	BDL	BDL	BDL
CHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
ETHYLBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
METHYLENE CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	4.6 "B"
TETRACHLOROETHENE	0.5	µg/l	1.0	BDL	BDL	BDL	BDL
TRICHLOROFLUOROMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1-DICHLOROETHENE	0.9	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,1-TRICHLOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2-TRICHLOROETHANE	0.5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2,2-TETRACHLOROETHANE	0.3	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROETHANE	1	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL
1,2-DICHLOROPROPANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,2(DICHLOROETHENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE	4.7	µg/l	1.0	BDL	BDL	BDL	BDL
1,3(trans)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
1,3(cis)-DICHLOROPROPENE	2	µg/l	1.0	BDL	BDL	BDL	BDL
m,p-XYLENE	5	µg/l	2.0	BDL	BDL	BDL	BDL
BROMOMETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
VINYL CHLORIDE	5	µg/l	1.0	BDL	BDL	BDL	BDL
TRICHLOROETHENE	10	µg/l	1.0	BDL	BDL	BDL	BDL
1,2(cis)-DICHLOROETHENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
1,1,2-TRICHLORO 1,2-TRIFLUOROETHANE	5	µg/l	1.0	BDL	BDL	BDL	BDL
O-XYLENE	5	µg/l	1.0	BDL	BDL	BDL	BDL
TOTAL VOCs	100	µg/l	0.0	0.0	0.0	0.0	0.0

"B" - Analyte detected in the associated Method Blank

APPENDIX D

GROUNDWATER MONITORING REQUIREMENTS

2006

Appendix D

GROUNDWATER MONITORING REQUIREMENTS

1.0 Semi-Annual Groundwater Monitoring Well Sampling and Testing Procedures

1.1 Sampling Equipment:

- Grundfos Redi-flo Variable Performance Pump installed in well.
- BMI/MP1 - 115V Converter with a motor lead extension cable.
- Generator or power source that provides 115 volts
- Solinst water level meter
- Discharge hose stored in the port opening of the well cap
- Discharge hose stand
- Stop watch and a bucket with a known volume.
- Disposable latex or vinyl sampling gloves.
- Cooler with ice packs.
- Sample containers with labels.
- Field book and pen.

1.2 Sampling Procedures:

- Open the well cover, unscrew and remove the discharge hose from the port opening. Confirm the well number on the metal tag or label.
- Take the depth to water reading through the port opening. Measure from the top edge of the well cover. Use well records to obtain the total depth of the well and calculate the fluid volume in the casing.
- Start the generator and allow it to idle until it runs smoothly. Connect the converter to power source.
- Connect the converter to the well cover receptacle using the motor lead extension cable. Connect the discharge hose to the well cover and position it in the desired direction of flow using the discharge hose stand.
- Select RF2M with the mode selection knob on the converter. The frequency display should read 0.0 (zero). Set the VFD speed dial to the midpoint (12 o'clock position) or approximately 220 Hz.

- Start the pump by moving the start/stop switch to the start position.
- Adjust the flow rate by turning the speed dial until the desired performance is attained. (48 Hz for minimum pumping to 400 Hz for maximum pumping)
- Use a stopwatch and a bucket of known volume to measure the rate of discharge in gallons per minute.
- Calculate the minimum pumping time by multiplying the fluid volume in the casing by three to obtain the volume to be purged and dividing by the flow rate. While purging continues measure the flow rate several times to insure the discharge rate is stable. All pertinent information must be recorded in the field book.
- Label the sample containers. Once the required volume is purged, decrease the flow rate to an appropriate sampling flow. Put on disposal latex or vinyl sampling gloves and fill the containers as per laboratory requirements. Place the samples in a cooler with ice packs.
- To stop the pump move the start/stop switch on the converter box to stop. Unplug all connections and then stop the generator. Return the discharge hose to the port, recap the connections and lock the well cover in place.

1.3 Semi-Annual Analytical Tests and Methodologies

All laboratory analyses to monitor the groundwater conditions for the Purex remediation project were conducted at the Nassau County Department of Public Works, Special Projects Laboratory located at Cedar Creek Waste Water Treatment Facility in Wantagh, New York (NCDPW-Lab). The collected groundwater samples were analyzed for VOCs (EPA 524). A detailed list of parameters can be found in Table 1.

In July 2006 the NCDPW-Lab terminated operation of the organic chemistry laboratory. Services were transferred to American Analytical Laboratory at 56 Toledo Street, Farmingdale, New York. A detailed list of VOC Analytes (EPA Method 8260) can be found in Table 2.

1.4 Semi-Annual Hydraulic Control Monitoring

In addition to the recovery of volatile organic contamination within the Purex plume, an equally important factor is the hydraulic containment of the site's plume. In order to monitor the hydraulic containment of the Purex plume, the measurement of water levels is necessary to establish the groundwater flow direction(s) and gradient(s). From this information, the remediation recovery well system can be monitored to confirm the effectiveness of the hydraulic containment under various conditions and to adjust and modify the recovery well system pumping to maintain hydraulic plume containment until remediation termination criteria are met.

Water levels were measured with an electronic water level meter. All water level measurements are referenced to msl, as an elevation in feet (ft). The water level elevations are plotted on a site base map, according to depth. Contour lines, indicating areas of equal elevation are then drawn, from which groundwater flow direction(s) and gradient(s) can be established.

Table 1
Volatile Organic Compound Analysis
(EPA Method 524)
List Of Analytes

Dichlorodifluoromethane	1,2-Dibromoethane
Chloromethane	Chlorobenzene
Vinyl Chloride	1,1,1,2-Tetrachloroethane
Bromomethane	Ethyl Benzene
Chloroethane	m,p-Xylene
Trichlorofluoromethane	o-Xylene
1,1-Dichloroethene	Styrene
Methylene Chloride	Isopropylbenzene
t-1,2-Dichloroethene	Bromoform
1,1-Dichloroethane	1,1,2,2-Tetrachloroethane
2,2-Dichloropropane	1,2,3-Trichloropropane
c-1,2-Dichloroethene	n-Propylbenzene
Chloroform	Bromobenzene
Bromochloromethane	1,3,5-Trimethylbenzene
1,1,1-Trichloroethane	2-Chlorotoluene
1,1-Dichloropropene	4-Chlorotoluene
Carbon Tetrachloride	t-Butylbenzene
1,2-Dichloroethane	1,2,4-Trimethylbenzene
Benzene	sec-Butylbenzene
Trichloroethene	p-Isopropyltoluene
1,2-Dichloropropane	1,3-Dichlorobenzene
Bromodichloromethane	1,4-Dichlorobenzene
Dibromomethane	n-Butylbenzene
c-1,3-Dichloropropene	1,2-Dichlorobenzene
Toluene	1,2-Dibromo-3-Chloropropane
t-1,3-Dichloropropene	1,2,4-Trichlorobenzene
1,1,2-Trichloroethane	Hexachlorobutadiene
1,3-Dichloropropane	Naphthalene
Tetrachloroethene	1,2,3-Trichlorobenzene
Dibromochloromethane	Methyl tertiary-Butyl-Ether (MTBE)
Acrylonitrile	Pentachloroethane
Allyl Chloride	Propionitrile
Butyl Chloride	Tetrahydrofuran
Carbon Disulfide	Trans-1,4-Dichloro-2-Butene
Chloroacetonitrile	2 - Nitropropane
Ethyl Ether	Acetone
Ethyl Methacrylate	1,1-dichloro-2-propanone
Hexachloroethane	2-Butanone
Methacrylonitrile	2-Hexanone
Methyl Acrylate	4-Methyl-2-Pentanone
Methyl Methacrylate	Nitrobenzene

Table 2
Volatile Organic Compound Analysis
(EPA Method 8260)
List Of Analytes

1,1,1,2-Tetrachloroethane	Chlorobenzene
1,1,1-Trichloroethane	Chlorodifluoromethane
1,1,2,2-Tetrachloroethane	Chloroethane
1,1,2-Trichloro-1,2,2-trifluoroethane	Chloroform
1,1,2-Trichloroethane	Chloromethane
1,1-Dichloroethane	cis-1,2-Dichloroethene
1,1-Dichloroethene	cis-1,3-Dichloropropene
1,1-Dichloropropene	Dibromochloromethane
1,2,3-Trichlorobenzene	Dibromomethane
1,2,3-Trichloropropane	Dichlorodifluoromethane
1,2,4,5-Tetramethylbenzene	Diisopropyl ether
1,2,4-Trichlorobenzene	Ethanol
1,2,4-Trimethylbenzene	Ethyl acetate
1,2-Dibromo-3-chloropropane	Ethylbenzene
1,2-Dibromoethane	Freon-114
1,2-Dichlorobenzene	Hexachlorobutadiene
1,2-Dichloroethane	Isopropyl acetate
1,2-Dichloropropane	Isopropylbenzene
1,3,5-Trimethylbenzene	m,p-Xylene
1,3-Dichlorobenzene	Methyl tert-butyl ether
1,3-dichloropropane	Methylene chloride
1,4-Dichlorobenzene	n-Amyl acetate
2,2-Dichloropropane	Naphthalene
2-Butanone	n-Butyl acetate
2-Chloroethyl vinyl ether	n-Butylbenzene
2-Chlorotoluene	n-Propyl acetate
2-Hexanone	n-Propylbenzene
2-Propanol	o-Xylene
4-Chlorotoluene	p-Diethylbenzene
4-Isopropyltoluene	p-Ethyltoluene
4-Methyl-2-pentanone	sec-Butylbenzene
Acetone	Styrene
Acrolein	t-Butyl alcohol
Acrylonitrile	tert-Butylbenzene
Benzene	Tetrachloroethene
Bromobenzene	Toluene
Bromochloromethane	trans-1,2-Dichloroethene
Bromodichloromethane	trans-1,3-Dichloropropene
Bromoform	Trichloroethene
Bromomethane	Trichlorofluoromethane
Carbon disulfide	Vinyl acetate
Carbon tetrachloride	Vinyl chloride

APPENDIX E
REMEDIATION CRITERIA
2006

Appendix E

REMEDIATION CRITERIA

Shutdown at any one or more of the extraction or purge wells shall occur when the "Remediation Criteria" are met. The Remediation Criteria are met when either condition described below is met:

1. The Water Condition set forth in Table 3 is met for three consecutive months, in accordance with the following methodology:
 - (a) Samples taken from the extraction or purge well and related monitoring wells will be analyzed and the data will be statistically evaluated to determine the concentrations for individual compounds and Total Volatile Organic Compounds. If there is no statistically significant difference between the data and the Water Condition at the 95 percent confidence limit (using "t" statistics) then the extraction or purge well may be shut down. In the event that the analysis of the extraction or purge well data meets the Water Condition and the related monitoring wells do not, the extraction or purge well may be shut down and the Remedial System adjusted as appropriate. The need for the installation of additional extraction or purge wells will be assessed on the basis of whether additional wells are necessary to affect the areas which are contaminated with chemicals attributable to the Property.
2. The "Zero Slope Condition" is met as follows: when the slope of the curve of the concentrations of the chemicals listed in Table 2 and Total Volatile Organic Compounds, as calculated is deemed zero. The determination of said concentration shall be made on a well-by-well basis at all pertinent extraction, purge, and monitoring wells within the containment area or within the offsite area. The determination of whether there is a zero slope shall be made as follows:
 - (a) Samples shall be taken at the locations and frequencies stated in the Monitoring Plan.

- (b) The data collected over the preceding twelve (12) month period will be examined and the concentration values for the individual compounds and the Total Volatile Organic Compounds and the associated confidence limits will be computed and plotted.
- (c) If the curve suggested by these data points is linear, then a straight line using least squares regression model shall be fitted to the data and the slope of the fitted line shall be considered as the estimated slope for purposes of this paragraph.
- (d) If the data points suggest a non-linear form, then an exponential curve using a least squares regression model shall be fitted to the data. The estimated slope for purposes of this paragraph shall be the first derivative of the curve at a value of time halfway between the dates of the last two sample points.
- (e) The estimated slope shall be deemed to be zero if:
 - 1) that slope is less than or equal to zero and greater than or equal to negative 30 ppb/year; and
 - 2) the rate of change of that slope is equal to zero or indicates a continuously decreasing concentration.
- (f) If the mean concentration in a well is less than or equal to 200 ppb, and the procedure defined above results in a positive slope, then the 95 percent confidence interval shall be calculated for the slope of the regression line; if a zero slope is within this confidence interval, then the estimated slope shall be deemed to be zero.
- (g) The concentration at a well shall be deemed to meet the Zero Slope Condition if the estimated slope is deemed to be zero.

Data showing contamination that can statistically be demonstrated as not attributable to the original Purex Property may be excluded from the data evaluation used to determine whether the Remediation Criteria has been met. This exclusion shall be made upon confirmation of a non-Property source.

Table 3
Water Condition

<u>Parameter</u>	<u>Concentration</u>
Benzene	5
Toluene	50
Xylene	50
Trichloroethene	50
Tetrachloroethene	50
1,1-Dichloroethene	5
cis-1,2-Dichloroethene	50
trans-1,2-Dichloroethene	50
trans-1,3-Dichloropropene	2
cis-1,3-Dichloropropene	2
Methylene Chloride	50
Chloroform	100*
1,1,2-Trichloroethane	50
1,2-Dichloroethane	5
1,1,2,2-Tetrachloroethane	50
1,1,1-Trichloroethane	50
1,1,2-Trichloro-1,2,2-trifluoroethane	50
Bromodichloromethane	100*
Dibromochloromethane	100*
Bromoform	100*
1,1-Dichloroethane	50
Carbon Tetrachloride	50
1,4-Dichlorobenzene	50
Vinyl Chloride	5
Chlorobenzene	50
Ethyl Benzene	50
Total Compounds	100

NOTES:

- (1) Concentrations in ug/l (micrograms/liter), parts per billion.
- (2) Sum of these four compounds shall not exceed 100 ug/l. (*)
- (3) Total compounds are defined as the sum of all the compounds listed above.
- (4) As set forth in Appendix C, Section 6, the methodologies to be used are EPA methods 624 and 625. Any analyte not found in concentrations at or above the method's detection limit shall be deemed to meet the Water Condition.