



**CONESTOGA-ROVERS
& ASSOCIATES**

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March 12, 2008

Reference No. 003627

Mr. Ron Curran
Remediation Section
Waste Management Bureau
Connecticut Department of Environmental Protection
79 Elm Street
Hartford, Connecticut
U.S.A. 06106-5127

Dear Mr. Curran:

Re: Monitoring Report (Third and Fourth Quarters 2007)
Synthetic Products Company
Stratford, Connecticut

1.0 INTRODUCTION

This monitoring report provides a summary of the groundwater monitoring program implemented by Kraft Foods Global, Inc. (Kraft) at the Synthetic Products Company (SynPro) facility (Site) in Stratford, Connecticut during the third and fourth quarters of 2007. The report also provides a summary of the soil vapor extraction (SVE) system closure activities conducted.

The Site location is shown on Figure 1.

2.0 GROUNDWATER MONITORING PROGRAM

2.1 GENERAL

Detected concentrations of benzene, the predominant Site-related constituent in groundwater beneath the Site, have been decreasing in Site monitoring wells during groundwater monitoring activities conducted since 1999. As of the most recently completed groundwater monitoring event, conducted in September 2007, detected concentrations of benzene are below Connecticut Department of Environmental Protection (CTDEP) Remediation Standard Regulations (RSRs) for a GB Water Classification Area in all of the Site monitoring wells.

Prior to 2003, detected concentrations of benzene were above CTDEP RSRs typically in four of the eight sampled Site groundwater monitoring wells. From 2003 to 2004, benzene was detected above one or both of the Industrial/Commercial Volatilization Criterion for Groundwater (VCGW) RSR and the Surface Water Protection Criterion (SWPC) RSR typically in



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only three Site monitoring wells. From 2005 to March 2007, benzene was detected above one or both of the VCGW and SWPC in only one or two Site monitoring wells (wells CRA5S-95 and/or CRA6S-95). During the most recent groundwater sampling event, conducted in September 2007, benzene was not detected above either the VCGW or SWPC in any of the groundwater monitoring wells at the Site.

As identified in the monitoring report submitted to CTDEP on August 28, 2007, due to the continued consistency of the benzene, toluene, ethylbenzene, and xylene (BTEX) and heptane data since commencing semi-annual groundwater monitoring in September 2001 (and since benzene was the only Site-related parameter detected in groundwater that was above any RSRs), at a meeting conducted at the Site on March 9, 2007, with representatives of CTDEP; the United States Environmental Protection Agency (USEPA); Kraft; Hampford Research, the current occupant of the Site; and SynPro/Cookson Group, a former operator of the Site; it was agreed by all participants that, commencing with the September 2007 groundwater monitoring event, the frequency of groundwater monitoring would be reduced to annual and the sample analyses limited to benzene.

The first annual groundwater monitoring event was conducted at the Site on September 19, 2007. During the sampling event, static water levels were collected from ten existing monitoring wells. Groundwater samples were collected from eight monitoring wells (CRA2S-95, CRA2D-95, CRA4S-95, CRA4D-95, CRA5S-95, CRA5D-95, CRA6S-95, and CRA6D-95). The monitoring well locations are shown on Figure 2.

Prior to sampling, all eight monitoring wells were purged to remove a minimum of three standing well water volumes to a maximum of five standing well water volumes. Field parameters (pH, conductivity, and temperature) were measured during monitoring well purging and are summarized in Table 1. The monitoring wells were purged using a peristaltic pump and dedicated silicone and polyethylene tubing, and were sampled using disposable polyethylene bailers.

Collected groundwater samples were packed in a cooler with ice and shipped by overnight courier under chain-of-custody protocols to Accutest Laboratories in Dayton, New Jersey. Samples were analyzed for benzene.

2.2 GROUNDWATER RESULTS

During the September 19, 2007 monitoring event, benzene was detected in groundwater samples collected from monitoring wells CRA2D-95, CRA4S-95, CRA4D-95, CRA5S-95, CRA5D-95, CRA6S-95 (primary sample and duplicate sample), and CRA6D-95, at



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concentrations ranging from 0.90J micrograms per liter ($\mu\text{g}/\text{L}$) ("J" indicates an estimated concentration below the reporting limit) to 504 $\mu\text{g}/\text{L}$. Table 2 summarizes the results of the laboratory analyses of each groundwater sample collected during the September 19, 2007 groundwater monitoring event. The laboratory analytical report presenting the groundwater analytical results and the associated data quality assessment and validation memorandum for the September 19, 2007 groundwater monitoring event are presented as Attachment A.

Table 3 summarizes historical groundwater analytical results since August 1999.

2.3 GROUNDWATER QUALITY DISCUSSION

Benzene has not been detected in monitoring well CRA2S-95 during groundwater monitoring activities conducted since August 1999. Benzene has been detected in monitoring well CRA2D-95 during eight of the 13 monitoring events conducted since September 2001; however, all detections have been below or only marginally above the reporting limit. Benzene has been detected, on a periodic basis, in well CRA4D-95 during monitoring events conducted since August 1999. A possible decreasing trend in benzene concentrations since March 2004 is noted, in well CRA4D-95. Detections of benzene in monitoring wells CRA4S-95 and CRA5D-95 have been relatively consistent or decreasing slightly over time, with the exception of significantly lower detected concentrations of benzene in well CRA4S-95 during the March 2003 and September 2003 monitoring events, and a relatively high detected concentration of benzene in well CRA5D-95 in March 2003.

Detected concentrations of benzene in wells CRA6D-95, CRA5S-95, and CRA6S-95, where benzene historically has been detected at the highest concentrations, continue to show a decreasing trend over time. The detected concentration of benzene in monitoring well CRA6D-95 has been below both the SWPC (710 $\mu\text{g}/\text{L}$) and the Industrial/Commercial VCGW (530 $\mu\text{g}/\text{L}$) since 2004. The detected concentration of benzene in monitoring well CRA5S-95 has been below the SWPC since March 2006, and also below the Industrial/Commercial VCGW since March 2007. The detected concentration of benzene in monitoring well CRA6S-95 has been below both the SWPC and the Industrial/Commercial VCGW during three of the last five semi-annual sampling events, including the most recent September 2007 sampling event.

A plot showing the concentration of benzene in monitoring wells over time is presented in Attachment B, along with a plot showing water levels.



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2.4 FUTURE GROUNDWATER MONITORING PROGRAM

As detailed in Section 2.1, at a meeting conducted at the Site on March 9, 2007 with representatives of CTDEP, USEPA, Kraft, Hampford Research, and SynPro/Cookson Group, it was agreed that the frequency of groundwater monitoring would be reduced to annual and the sample analyses limited to benzene. The first annual groundwater monitoring event was conducted in September 2007.

3.0 SVE SYSTEM

Startup of the SVE system at the Site occurred on May 20, 1999. The SVE system was installed to remediate vadose zone soils under the building that contain residual BTEX and heptane. The SVE system layout is shown on Figure 3.

As detailed in previous Monitoring Reports submitted to CTDEP, based on the results of vapor samples collected in tedlar bags from each SVE well (SVE-1, SVE-2, and SVE-3) and the SVE system effluent on a quarterly basis from December 1999 to June 2002, and analyzed for heptane and BTEX compounds; a 48-hour SVE system shutdown test conducted in June 2001; a 7-day SVE system shutdown test conducted in April 2005; and continued monthly monitoring of the SVE wells and the SVE system blower discharge for organic vapors using a PID from May 2005 through May 2007, Kraft concluded that continued operation of the SVE system would not result in significant further reduction of Site-related VOCs in soil, and that the SVE system should be shut down.

As detailed in previous Monitoring Reports, the maximum concentrations of all parameters detected at the conclusion of the 7-day SVE system shutdown test conducted in April 2005 are well below the CTDEP Industrial/Commercial Volatilization Criteria for Soil Vapor (VCSV), as presented in the RSRs, where available. This is also true for the maximum concentrations of all parameters detected at the conclusion of the 48-hour SVE system shutdown test conducted in June 2001. This demonstrates that the levels of these parameters in soil gas beneath the former manufacturing building at the Site do not pose an unacceptable risk to the health of Site workers with respect to indoor air quality. The SVE system continued to operate at the Site following completion of the 7-day SVE system shutdown test in April 2005 until May 2007, further removing residual amounts of VOCs that may be present in Site soils beneath the former manufacturing building.

During the March 9, 2007 meeting at the Site, as identified in Section 2.4 herein, CTDEP and USEPA agreed that the SVE system had completed its intended purpose of removal of Site-related parameters from soil beneath the former manufacturing building and that further



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operation of the SVE system was not required. CTDEP and USEPA identified at the meeting, however, that the SVE system should be left in place and "moth-balled", in the event that the system is needed at some time in the future to address contaminants that may migrate from the Raymark Superfund Site across the road from the SynPro Site.

As approved by CTDEP and USEPA, on May 22, 2007 the SVE system was turned off/shut down in preparation for "moth-balling" and leaving in place. In July 2007 the electrical feed to the SVE system was disconnected; above-grade pipes disconnected; SVE wells and soil vapor probes secured and sealed; system condensate drained; and samples of system condensate and spent carbon were collected for characterization and off-Site disposal. In October 2007, moth-balling of the SVE system was completed, with securement/sealing of two soil vapor probes, and removal and off-Site disposal of the condensate and spent SVE treatment carbon filters.

If you have any questions or comments please feel free to call me or Jay Churchill at (519) 725-3313.

Yours truly,

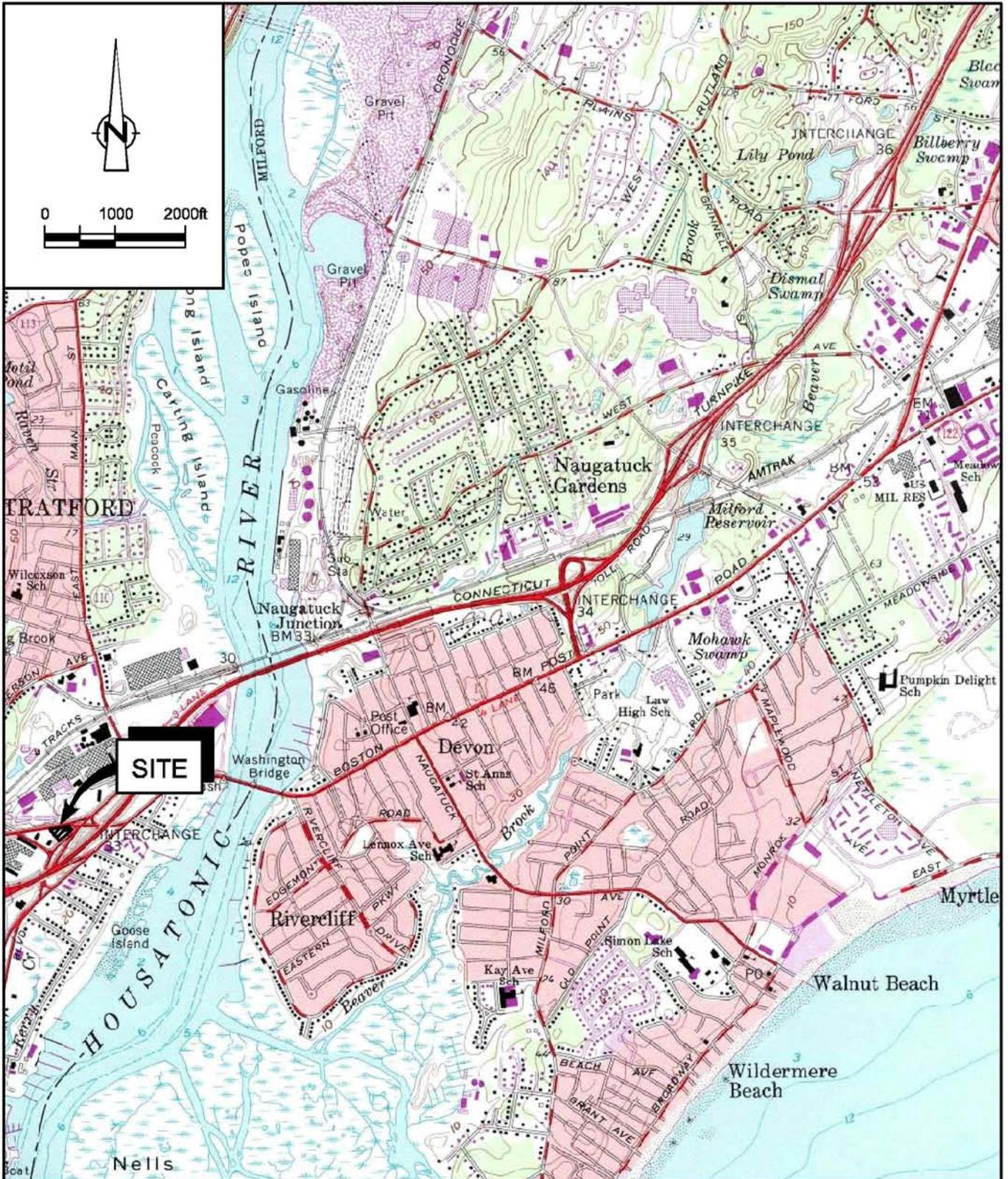
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Richard G. Shepherd, P. Eng.

RS/jh/11

Encl.

c.c.: Ray Cody (USEPA)
Lisa Krogman (elect.)
Jay Churchill (elect.)
Brian Kramer (elect.)
Pat Klick (elect.)



SOURCE: USGS QUADRANGLE MAP;
STRATFORD, CONNECTICUT

figure 1
SITE LOCATION
SYNTHETIC PRODUCTS COMPANY
Stratford, Connecticut



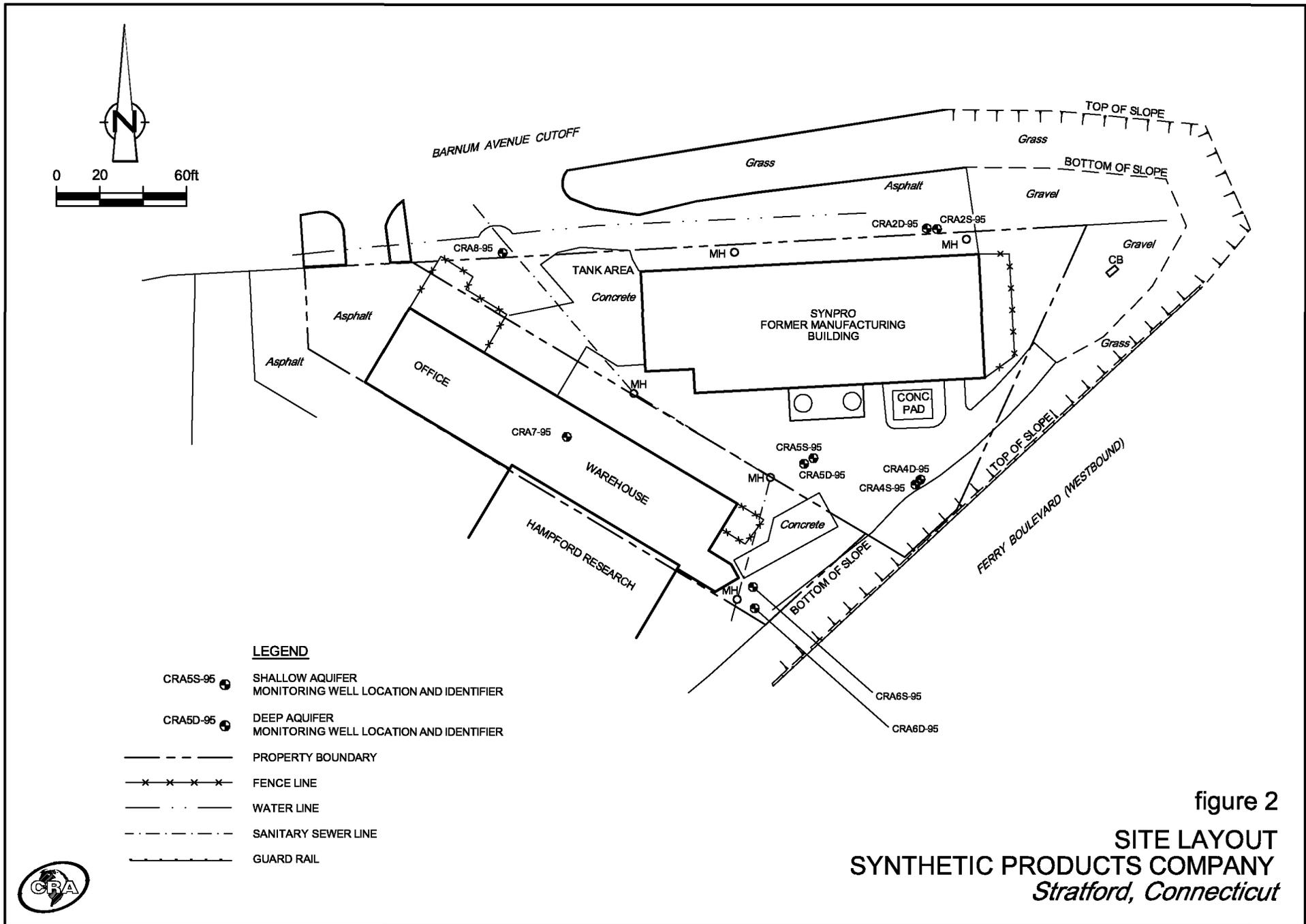


figure 2
 SITE LAYOUT
 SYNTHETIC PRODUCTS COMPANY
 Stratford, Connecticut



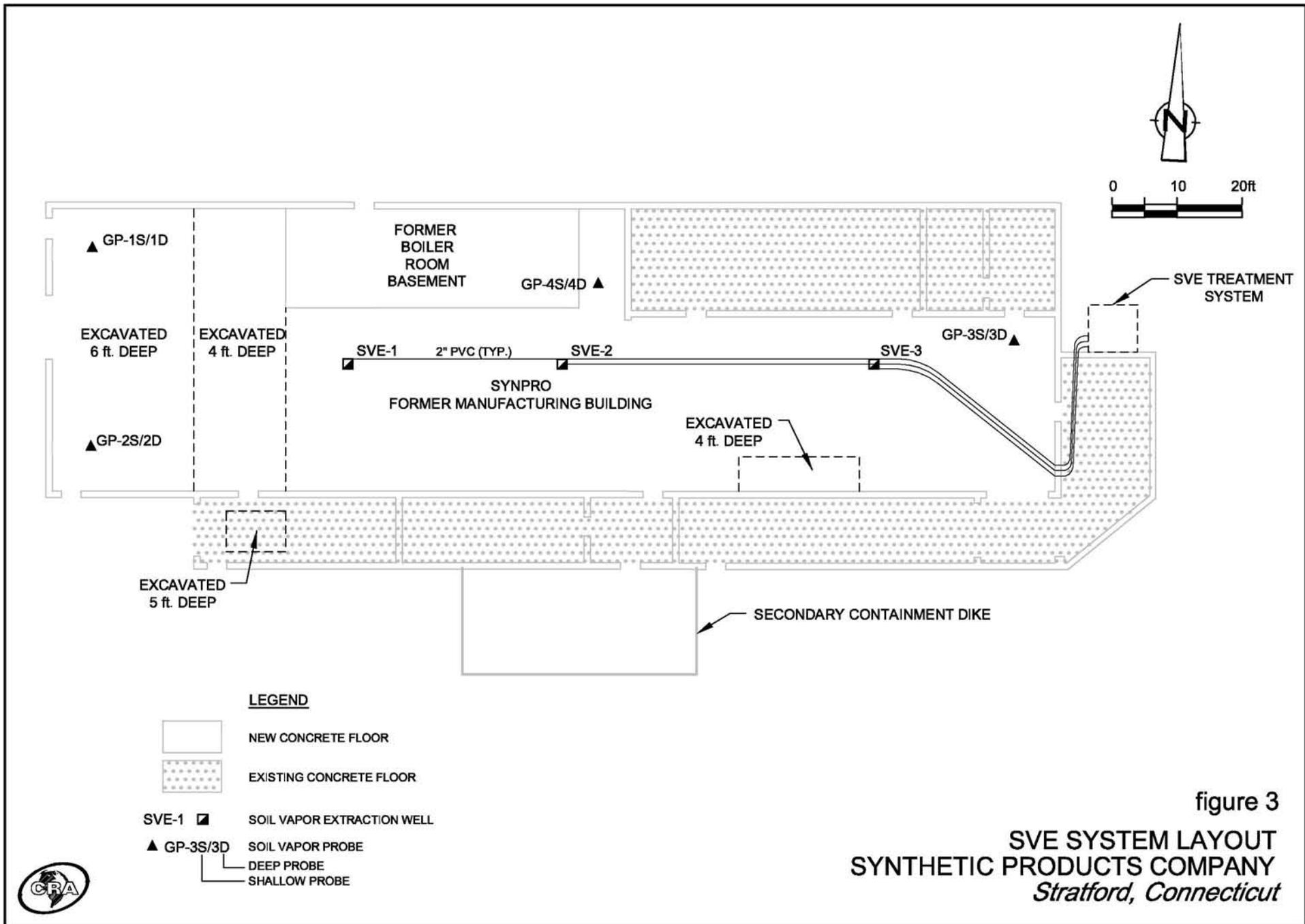


figure 3
SVE SYSTEM LAYOUT
SYNTHETIC PRODUCTS COMPANY
Stratford, Connecticut



TABLE 1

SUMMARY OF MONITORING WELL PURGING PARAMETERS
 SEPTEMBER 19, 2007 MONITORING EVENT
 SYNTHETIC PRODUCTS COMPANY
 STRATFORD, CONNECTICUT

<i>Well Identification</i>	<i>Well Casing Elevation (ft AMSL)</i>	<i>Depth to Water (ft BTOC)</i>	<i>Depth to Base of Well (ft BTOC)</i>	<i>Groundwater Elevation (ft AMSL)</i>	<i>Well Volume (Gallons)</i>	<i>Gallons Removed</i>	<i>pH (Standard Units)</i>	<i>Conductivity (µS/cm)</i>	<i>Temperature (°C)</i>	<i>Other</i>
CRA2S-95	10.68	7.92	9.7	2.76	0.28	0.5	6.63	251	24.1	Clear
						1.0	6.60	250	24.2	Clear
						1.5	6.59	250	24.2	Clear
CRA2D-95	10.68	7.89	25.1	2.79	2.75	2.75	6.44	737	12.3	Clear
						5.50	6.44	738	12.3	Clear
						8.25	6.45	738	12.4	Clear
CRA4S-95	8.34	5.54	8.8	2.80	0.52	0.75	6.53	557	20.9	Clear, black particles, odor
						1.50	6.51	551	20.9	Clear, odor
						2.25	6.51	548	20.9	Clear, odor
CRA4D-95	8.32	5.56	23.0	2.76	2.79	3	6.65	742	17.9	Clear, black particles, odor
						6	6.65	744	17.9	Clear, odor
						9	6.64	744	17.8	Clear, odor
CRA5S-95	9.20	6.42	8.6	2.78	0.35	0.5	6.29	819	25.3	Clear, odor, yellow tint
						1.0	6.32	802	25.3	Clear, odor, yellow tint
						1.5	6.30	804	25.2	Clear, odor, yellow tint
CRA5D-95	9.23	6.41	22.6	2.82	2.59	2.75	6.52	1,274	20.0	Clear, odor
						5.50	6.52	1,275	20.0	Clear, odor
						8.25	6.51	1,285	20.0	Clear, odor
CRA6S-95	9.73	7.04	9.5	2.69	0.39	0.5	6.63	950	23.2	Clear, odor, slight yellow tint
						1.0	6.62	947	23.2	Clear, odor, slight yellow tint
						1.5	6.63	942	23.2	Clear, odor, slight yellow tint
CRA6D-95	9.49	6.81	22.6	2.68	2.53	2.75	6.81	1,506	18.8	Clear, odor, slight yellow tint
						5.50	6.81	1,516	18.8	Clear, odor, slight yellow tint
						8.25	6.82	1,529	18.7	Clear, odor, slight yellow tint
CRA7-95	11.36	8.59	9.0	2.77	NA	NA	NA	NA	NA	NA
CRA8-95	12.26	9.41	10.6	2.85	NA	NA	NA	NA	NA	NA

Notes:

- ft AMSL - feet above mean sea level
 ft BTOC - feet below top of casing
 µS/cm - microsiemens per centimeter
 NA - not applicable; monitoring well not sampled

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
 SEPTEMBER 19, 2007 MONITORING EVENT
 SYNTHETIC PRODUCTS COMPANY
 STRATFORD, CONNECTICUT

<i>Sample Location</i>	CRA2S-95	CRA2D-95	CRA4S-95	CRA4D-95	CRA5S-95	CRA5D-95	CRA6S-95	CRA6S-95	CRA6D-95
<i>Sample Identification</i>	GW-091907-PK-191	GW-091907-PK-192	GW-091907-PK-195	GW-091907-PK-196	GW-091907-PK-193	GW-091907-PK-194	GW-091907-PK-197	GW-091907-PK-198	GW-091907-PK-199
<i>QA/QC</i>								<i>Duplicate of Sample PK-197</i>	
<u>Volatile Organic Compounds (µg/L)</u>									
Benzene	ND (1.0)	1.1	177	0.90 J	427	20.0	504	474	1.4

Notes:

µg/L - micrograms per liter

ND () - not detected at reporting limit shown in parenthesis

J - the associated value is an estimated quantity

TABLE 3

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS SUMMARY
SYNTHETIC PRODUCTS COMPANY
STRATFORD, CONNECTICUT**

<i>Monitoring Well ID</i>	<i>Date Sampled</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Xylenes</i>	<i>Heptane</i>
CRA2S-95	8/17/1999	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	11/16/1999	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/16/2000	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	6/8/2000	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/12/2000	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	12/19/2000	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (5.0)
	3/28/2001	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (5.0)
	6/27/2001	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (5.0)
	9/26/2001	ND (1.0J)	ND (1.0J)	ND (1.0J)	ND (1.0J)	ND (5.0J)
	3/12/2002	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/18/2002	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/27/2003	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/29/2003	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/15/2004	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/20/2004	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/30/2005	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/21/2005	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/28/2006	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/28/2006	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/28/2007	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
9/19/2007	ND (1.0)	NS	NS	NS	NS	
CRA2D-95	8/17/1999	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)
	11/16/1999	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)
	3/16/2000	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	6/8/2000	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/12/2000	ND (1.0J)	ND (1.0J)	ND (1.0J)	ND (1.0J)	ND (5.0J)
	12/19/2000	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (25)
	3/28/2001	ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
	6/27/2001	ND (20)	ND (20)	ND (20)	ND (100)	ND (100)
	9/26/2001	0.88 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/12/2002	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/18/2002	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (25)
	3/27/2003	0.64 J	ND (1.0J)	ND (1.0J)	ND (1.0J)	ND (5.0J)
	9/29/2003	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)
	3/15/2004	0.47 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/20/2004	0.87 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/30/2005	1.1 J	ND (2.0)	ND (2.0)	ND (2.0)	ND (10)
	9/21/2005	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/28/2006	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (25)
	9/28/2006	1.3	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/28/2007	ND (25)	ND (25)	ND (25)	ND (25)	ND (130)
9/19/2007	1.1	NS	NS	NS	NS	
CRA4S-95	8/17/1999	628	ND (10)	ND (10)	ND (10)	ND (50)
	11/16/1999	464	7.4	ND (5.0)	ND (5.0)	ND (25)
	3/16/2000	220	2.6	ND (1.0)	ND (1.0)	ND (1.0)
	6/8/2000	904	10.0	ND (5.0)	ND (5.0)	ND (25)
	9/12/2000	738	7.4	ND (5.0)	ND (5.0)	ND (25)
	12/19/2000	770	ND (2.5)	ND (2.5)	ND (12)	ND (12)
	3/28/2001	331	30.6	1.0	ND (5.0)	ND (5.0)
	6/27/2001	127	5.9	ND (5.0)	ND (25)	ND (25)
	9/26/2001	445	35.3	1.3	1.6	ND (5.0)
	3/12/2002	758	7.1	ND (5.0)	ND (5.0)	ND (25)
	9/18/2002	753	105	1.9	2.7	ND (5.0)
	3/27/2003	3.7	7.4	ND (1.0)	ND (1.0)	ND (5.0)
	9/29/2003	6.3	0.38 J	ND (1.0)	ND (1.0)	ND (5.0)
	3/15/2004	236	182	0.61 J	0.73 J	ND (5.0)
	9/20/2004	217	357	1.2	2.2	ND (5.0)
	3/30/2005	320	909	ND (5.0)	ND (5.0)	ND (25)
	9/21/2005	349	189	1.4 J	1.8 J	ND (13)
	3/28/2006	224	1.2	1.4	1.6	ND (5.0)
	9/28/2006	167	1.1	0.87 J	0.74 J	ND (5.0)
	3/28/2007	101	268	0.62 J	0.72 J	ND (5.0)
9/19/2007	177	NS	NS	NS	NS	

TABLE 3

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS SUMMARY
SYNTHETIC PRODUCTS COMPANY
STRATFORD, CONNECTICUT**

<i>Monitoring Well ID</i>	<i>Date Sampled</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Xylenes</i>	<i>Heptane</i>
CRA4D-95	8/17/1999	20.0	ND (10)	ND (10)	ND (10)	ND (50)
	11/16/1999	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)
	3/16/2000	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)
	6/8/2000	19.9	ND (5.0)	ND (5.0)	ND (5.0)	ND (25)
	9/12/2000	15.5 J	ND (1.0J)	ND (1.0J)	ND (1.0J)	ND (5.0J)
	12/19/2000	5.1	ND (1.0)	ND (1.0)	ND (5.0)	ND (5.0)
	3/28/2001	ND (5.0)	ND (5.0)	ND (5.0)	ND (25)	ND (25)
	6/27/2001	ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
	9/26/2001	164	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/12/2002	2.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/18/2002	0.74 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/27/2003	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)
	9/29/2003	ND (10)	ND (10)	ND (10)	ND (10)	ND (50)
	3/15/2004	26.3	0.35 J	ND (1.0)	ND (1.0)	ND (5.0)
	9/20/2004	1.5	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/30/2005	5.8	ND (2.0)	ND (2.0)	ND (2.0)	ND (10)
	9/21/2005	1.3	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/28/2006	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (25)
	9/28/2006	1.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/28/2007	ND (25)	ND (25)	ND (25)	ND (25)	ND (130)
9/19/2007	0.90 J	NS	NS	NS	NS	
CRA5S-95	8/17/1999	16,000	ND (50)	ND (50)	ND (50)	ND (250)
	11/16/1999	10,500	ND (50)	ND (50)	ND (50)	ND (250)
	3/16/2000	3,230	ND (20)	ND (20)	ND (20)	ND (100)
	6/8/2000	2,310 J	ND (10)	ND (10)	ND (10)	ND (50)
	9/12/2000	7,580	ND (20)	ND (20)	ND (20)	ND (100)
	12/19/2000	9,460	ND (50)	ND (50)	ND (250)	ND (250)
	3/28/2001	6,290	ND (50)	ND (50)	ND (250)	ND (250)
	6/27/2001	7,240	ND (50)	ND (50)	ND (250)	ND (250)
	9/26/2001	5,680	ND (50)	ND (50)	ND (50)	ND (250)
	3/12/2002	4,350J	ND (5.0)	3.0 J	ND (5.0)	ND (25)
	9/18/2002	2,950	ND (25)	ND (25)	ND (25)	ND (130)
	3/27/2003	856	10.2	3.1 J	2.7 J	ND (25)
	9/29/2003	2,110	ND (20)	ND (20)	ND (20)	ND (100)
	3/15/2004	1,440	4.0 J	3.3 J	1.2 J	ND (5.0)
	9/20/2004	1,960	ND (20)	ND (20)	ND (20)	ND (100)
	3/30/2005	1,320	ND (10)	ND (10)	ND (10)	ND (50)
	9/21/2005	1,500	ND (10)	3.2 J	ND (10)	ND (50)
	3/28/2006	536	ND (2.0)	2.2	ND (2.0)	ND (10)
	9/28/2006	684	ND (20)	ND (20)	ND (20)	ND (100)
	3/28/2007	97.5	ND (1.0)	0.42 J	ND (1.0)	ND (5.0)
9/19/2007	427	NS	NS	NS	NS	
CRA5D-95	8/17/1999	152	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	11/16/1999	70.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/16/2000	8.5	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	6/8/2000	155	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/12/2000	166	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	12/19/2000	8.6	ND (1.0)	ND (1.0)	ND (5.0)	ND (5.0)
	3/28/2001	177	ND (1.0)	ND (1.0)	ND (5.0)	ND (5.0)
	6/27/2001	223	ND (1.0)	ND (1.0)	ND (5.0)	ND (5.0)
	9/26/2001	132	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/12/2002	40.1	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/18/2002	5.4	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/27/2003	831	ND (5.0)	ND (5.0)	ND (5.0)	ND (25)
	9/29/2003	15.7	0.26 J	0.63 J	1.1	ND (5.0)
	3/15/2004	111	ND (1.0)	0.5 J	0.89 J	ND (5.0)
	9/20/2004	93.4	0.23 J	0.33 J	ND (1.0)	ND (5.0)
	3/30/2005	24.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	9/21/2005	77.2	ND (1.0)	0.37 J	ND (1.0)	ND (5.0)
	3/28/2006	199	ND (1.0)	0.50 J	ND (1.0)	ND (5.0)
	9/28/2006	37.2	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)
	3/28/2007	20.1	ND (1.0)	0.59 J	ND (1.0)	ND (5.0)
9/19/2007	20.0	NS	NS	NS	NS	

TABLE 3

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS SUMMARY
SYNTHETIC PRODUCTS COMPANY
STRATFORD, CONNECTICUT**

<i>Monitoring Well ID</i>	<i>Date Sampled</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Xylenes</i>	<i>Heptane</i>
CRA6S-95	8/17/1999	19,400/15,500	ND (100)/ND (100)	ND (100)/ND (100)	ND (100)/ND (100)	ND (100)/ND (100)
	11/16/1999	12,400/22,600	ND (50)/17.6	ND (50)/13.2	ND (50)/11.3	ND (250)/ND (50)
	3/16/2000	2,520/2,510	14.4/12.7	ND (10)/ND (10)	ND (10)/ND (10)	ND (50)/ND (50)
	6/8/2000	13,330/12,500	ND (100)/ND (100)	ND (100)/ND (100)	ND (100)/ND (100)	ND (100)/ND (100)
	9/12/2000	12,100/12,200	ND (50)/ND (50)	ND (50)/ND (50)	ND (50)/ND (50)	ND (250)/ND (250)
	12/19/2000	10,400/11,400	ND (50)/ND (50)	ND (50)/ND (50)	ND (250)/ND (250)	ND (250)/ND (250)
	3/28/2001	8,800/8,210	ND (50)/ND (25)	ND (50)/ND (25)	ND (250)/ND (120)	ND (250)/ND (120)
	6/27/2001	10,600/8,860	ND (100)/ND (50)	ND (100)/ND (50)	ND (500)/ND (250)	ND (500)/ND (250)
	9/26/2001	4,390/5,790	ND (25)/ND (25)	8.1 J/9.6 J	ND (25)/ND (25)	ND (120)/ND (120)
	3/12/2002	4,750/4,530	ND (20)/ND (20)	ND (20)/ND (20)	ND (20)/ND (20)	ND (100)/ND (100)
	9/18/2002	3,460/3,670	1.5/ND (20)	11.8/ND (20)	1.1/ND (20)	ND (50)/ND (100)
	3/27/2003	4,120/4,590	24.4/27.0	ND (20)/ND (25)	ND (20)/ND (25)	ND (100)/ND (130)
	9/29/2003	2,140/2,000	ND (20)/ND (10)	ND (20)/7.0 J	ND (20)/ND (10)	ND (100)/ND (50)
	3/15/2004	3,170/3,310	11.6 J/12.6	10.9 J/10.8	6.3 J/6.6	ND (5.0)/ND (5.0)
	9/20/2004	1,560/1,600	3.2 J/ND(20)	8.7 J/9.2 J	ND(10)/ND(20)	ND(50)/ND(100)
	3/30/2005	3,370/3,490	18.8 J/16.0 J	ND (20)/ND (20)	ND (20)/ND (20)	ND (100)/ND (100)
	9/21/2005	423/555	0.37 J/ND (5.0)	6.4/4.7 J	0.45 J/ND (5.0)	ND (5.0)/ND (25)
	3/28/2006	1,070/1,280	0.72 J/ND (5.0)	5.4/5.6	2.0/2.0 J	ND (10)/ND (25)
	9/28/2006	339J/424J	0.28 J/0.30 J	6.3/7.1	0.41 J/0.42 J	ND (5.0)/ND (5.0)
	3/28/2007	1,550/1,550	3.0 J/3.1 J	6.4 J/6.4 J	ND (10)/ND (10)	ND (50)/ND (50)
9/19/2007	504/474	NS	NS	NS	NS	
CRA6D-95	8/17/1999	3,680	ND (10)	ND (10)	ND (10)	ND (250)
	11/16/1999	7,860	ND (50)	ND (50)	ND (50)	ND (50)
	3/16/2000	1,770	ND (10)	ND (10)	ND (10)	ND (250)
	6/8/2000	8,830	ND (50)	ND (50)	ND (50)	ND (50)
	9/12/2000	9,530	ND (25)	ND (25)	ND (25)	ND (120)
	12/19/2000	1,220 J	ND (5.0)	ND (5.0)	ND (25)	ND (25)
	3/28/2001	775	ND (5.0)	5.7	ND (25)	ND (25)
	6/27/2001	2,570	ND (20)	ND (20)	ND (100)	ND (100)
	9/26/2001	6,990	ND (50)	ND (50)	ND (50)	ND (250)
	3/12/2002	1,670	ND (10)	ND (10)	ND (10)	ND (50)
	9/18/2002	4,660	ND (20)	ND (20)	ND (20)	ND (100)
	3/27/2003	1,860 J	ND (10)	ND (10)	ND (10)	ND (50)
	9/29/2003	654	ND (2.5)	1.9 J	2.5	ND (13)
	3/15/2004	1,080	ND (1.0)	2.4	3.1	ND (5.0)
	9/20/2004	56.5	ND (1.0)	1.7	2.1	ND (5.0)
	3/30/2005	213	ND (1.0)	1.7	1.7	ND (5.0)
	9/21/2005	20.9	ND (1.0)	1.2	1.5	ND (5.0)
	3/28/2006	33.7	ND (1.0)	1.2	1.7	ND (5.0)
	9/28/2006	34.7	ND (1.0)	0.84 J	0.89 J	ND (5.0)
	3/28/2007	107	ND (1.0)	1.0	1.3	ND (5.0)
9/19/2007	1.4	NS	NS	NS	NS	

Notes:

Concentrations in micrograms per liter (µg/L)

ND () - not detected at reporting limit stated in parentheses

J - indicates an estimated value

4,390/5,790 - sample result/duplicate sample result

NS - not sampled for this parameter

ATTACHMENT A

GROUNDWATER SAMPLE LABORATORY ANALYTICAL
REPORT AND DATA QUALITY ASSESSMENT AND
VALIDATION MEMORANDUM



**CONESTOGA-ROVERS
& ASSOCIATES**

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www.CRAworld.com

FILE → 3627

MEMORANDUM

TO: Jay Churchill
FROM: Nancy Bergstrom/lg/31 *NMB*
CC: Pat Klick
REF. NO.: 003627
DATE: October 15, 2007
RE: Data Quality Assessment and Validation for the Groundwater Samples Collected from the Synthetic Products Company in Stratford, Connecticut

The following details a data quality assessment and validation for the groundwater samples collected September 19, 2007 from the Synthetic Products Company in Stratford, Connecticut. The samples identified in Table 1 were analyzed for benzene. The samples were analyzed by Accutest Laboratories of Dayton, New Jersey using Method 8260B from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA SW-846, 3rd Edition). The quality assurance criteria used to assess the data were established by the method.¹

Holding Time Periods

The maximum holding time period for the analysis is 14 days from sample collection to completion of analysis. The samples were prepared and analyzed within the required holding time period.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the data from concurrent preparation and analysis of method blank samples. Target analytes were not detected in the method blank samples.

Surrogate Compound Percent Recoveries

Individual sample performance for the organic analyses was monitored by assessing surrogate compound percent recovery data. The surrogate compound percent recovery acceptance criteria were met for the samples.

Blank Spike Sample Analyses

Blank spike sample analyses were performed to monitor the accuracy of the laboratory preparation and analysis methods. The blank spike sample percent recovery data were acceptable.

¹ Application of quality assurance criteria was consistent with the relevant criteria in "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

To assess the accuracy and precision of the analytical method used to analyze the groundwater samples, MS/MSD percent recoveries and relative percent differences (RPDs) were determined. The MS/MSD percent recovery and RPD data met the acceptance criteria.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of one trip blank sample and one field duplicate sample.

To monitor potential sample cross-contamination by target compounds during sample transportation and storage, a trip blank sample was submitted to the laboratory for analysis with the groundwater samples. Target analytes were not detected in the trip blank sample.

Overall precision for the sampling and analysis event was monitored from the results of a field duplicate sample. Table 2 summarizes the results of the detected analytes in the investigative and field duplicate samples. The field duplicate data indicate that an acceptable level of precision was achieved.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and are suitable for their intended use without qualification.

Attachments

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SYNTHETIC PRODUCTS COMPANY
STRATFORD, CONNECTICUT

<i>Sample ID</i>	<i>Location</i>
GW-091907-PK-191	CRA2S-95
GW-091907-PK-192	CRA2D-95
GW-091907-PK-193	CRA5S-95
GW-091907-PK-194	CRA5D-95
GW-091907-PK-195	CRA4S-95
GW-091907-PK-196	CRA4D-95
GW-091907-PK-197	CRA6S-95
GW-091907-PK-198	CRA6S-95 DUPLICATE
GW-091907-PK-199	CRA6D-95



TABLE 2

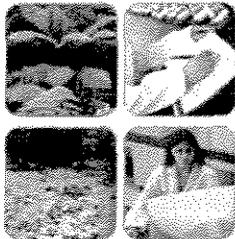
SUMMARY OF DETECTED ANALYTES
FIELD DUPLICATE SAMPLE
SYNTHETIC PRODUCTS COMPANY
STRATFORD, CONNECTICUT

<i>Analyte</i>	<i>Investigative Sample</i> GW-091907-PK-197 ($\mu\text{g/L}$)	<i>Duplicate Sample</i> GW-091907-PK-198 ($\mu\text{g/L}$)	<i>RPD</i> ¹
Benzene	504	474	6.1

¹ RPD - Relative Percent Difference



10/11/07



Technical Report for

Conestoga-Rovers & Associates

Synthetic Products, Stratford, CT

3627

Accutest Job Number: J72091

Sampling Date: 09/19/07

Report to:

Conestoga-Rovers & Associates

sday@croworld.com

ATTN: Steve Day

Total number of pages in report: 31



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Conestoga-Rovers & Associates

Job No: J72091

Synthetic Products, Stratford, CT
Project No: 3627

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J72091-1	09/19/07	09:00 PK	09/20/07	AQ	Ground Water	GW-091907-PK-191
J72091-1D	09/19/07	09:00 PK	09/20/07	AQ	Water Dup/MSD	GW-091907-PK-191
J72091-1S	09/19/07	09:00 PK	09/20/07	AQ	Water Matrix Spike	GW-091907-PK-191
J72091-2	09/19/07	09:40 PK	09/20/07	AQ	Ground Water	GW-091907-PK-192
J72091-3	09/19/07	10:30 PK	09/20/07	AQ	Ground Water	GW-091907-PK-193
J72091-4	09/19/07	11:10 PK	09/20/07	AQ	Ground Water	GW-091907-PK-194
J72091-5	09/19/07	11:55 PK	09/20/07	AQ	Ground Water	GW-091907-PK-195
J72091-6	09/19/07	12:45 PK	09/20/07	AQ	Ground Water	GW-091907-PK-196
J72091-7	09/19/07	13:40 PK	09/20/07	AQ	Ground Water	GW-091907-PK-197
J72091-8	09/19/07	13:55 PK	09/20/07	AQ	Ground Water	GW-091907-PK-198
J72091-9	09/19/07	14:45 PK	09/20/07	AQ	Ground Water	GW-091907-PK-199
J72091-10	09/19/07	14:45 PK	09/20/07	AQ	Trip Blank Water	TRIP BLANK



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Conestoga-Rovers & Associates

Job No J72091

Site: Synthetic Products, Stratford, CT

Report Date 10/9/2007 11:56:17 AM

On 09/20/2007, 9 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of J72091 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix	AQ	Batch ID:	V2A2566
--------	----	-----------	---------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J72091-1MS, J72091-1MSD were used as the QC samples indicated.

Matrix	AQ	Batch ID:	V2A2567
--------	----	-----------	---------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J72091-3MS, J72091-3MSD were used as the QC samples indicated.

Matrix	AQ	Batch ID:	V2A2568
--------	----	-----------	---------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J72239-12MS, J72239-12MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: GW-091907-PK-191	Date Sampled: 09/19/07
Lab Sample ID: J72091-1	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62073.D	1	10/02/07	YWC	n/a	n/a	V2A2566
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-123%
17060-07-0	1,2-Dichloroethane-D4	83%		63-140%
2037-26-5	Toluene-D8	96%		78-117%
460-00-4	4-Bromofluorobenzene	96%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GW-091907-PK-192	Date Sampled: 09/19/07
Lab Sample ID: J72091-2	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62117.D	1	10/03/07	YWC	n/a	n/a	V2A2568
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.1	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-123%
17060-07-0	1,2-Dichloroethane-D4	91%		63-140%
2037-26-5	Toluene-D8	105%		78-117%
460-00-4	4-Bromofluorobenzene	99%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GW-091907-PK-193	Date Sampled: 09/19/07
Lab Sample ID: J72091-3	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62090.D	20	10/02/07	YWC	n/a	n/a	V2A2567
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	427	20	3.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-123%
17060-07-0	1,2-Dichloroethane-D4	93%		63-140%
2037-26-5	Toluene-D8	97%		78-117%
460-00-4	4-Bromofluorobenzene	97%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: GW-091907-PK-194	Date Sampled: 09/19/07
Lab Sample ID: J72091-4	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62074.D	1	10/02/07	YWC	n/a	n/a	V2A2566
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	20.0	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-123%
17060-07-0	1,2-Dichloroethane-D4	87%		63-140%
2037-26-5	Toluene-D8	96%		78-117%
460-00-4	4-Bromofluorobenzene	96%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GW-091907-PK-195	Date Sampled: 09/19/07
Lab Sample ID: J72091-5	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62096.D	2.5	10/03/07	YWC	n/a	n/a	V2A2567
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	177	2.5	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-123%
17060-07-0	1,2-Dichloroethane-D4	86%		63-140%
2037-26-5	Toluene-D8	98%		78-117%
460-00-4	4-Bromofluorobenzene	96%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: GW-091907-PK-196	Date Sampled: 09/19/07
Lab Sample ID: J72091-6	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62118.D	1	10/03/07	YWC	n/a	n/a	V2A2568
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.90	1.0	0.19	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-123%
17060-07-0	1,2-Dichloroethane-D4	90%		63-140%
2037-26-5	Toluene-D8	105%		78-117%
460-00-4	4-Bromofluorobenzene	100%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GW-091907-PK-197	Date Sampled: 09/19/07
Lab Sample ID: J72091-7	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62098.D	5	10/03/07	YWC	n/a	n/a	V2A2567
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	504	5.0	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		76-123%
17060-07-0	1,2-Dichloroethane-D4	92%		63-140%
2037-26-5	Toluene-D8	99%		78-117%
460-00-4	4-Bromofluorobenzene	97%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: GW-091907-PK-198	Date Sampled: 09/19/07
Lab Sample ID: J72091-8	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62099.D	5	10/03/07	YWC	n/a	n/a	V2A2567
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	474	5.0	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		76-123%
17060-07-0	1,2-Dichloroethane-D4	92%		63-140%
2037-26-5	Toluene-D8	97%		78-117%
460-00-4	4-Bromofluorobenzene	96%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GW-091907-PK-199	Date Sampled: 09/19/07
Lab Sample ID: J72091-9	Date Received: 09/20/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Synthetic Products, Stratford, CT	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62075.D	1	10/02/07	YWC	n/a	n/a	V2A2566
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.4	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-123%
17060-07-0	1,2-Dichloroethane-D4	91%		63-140%
2037-26-5	Toluene-D8	97%		78-117%
460-00-4	4-Bromofluorobenzene	94%		73-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID:	TRIP BLANK	Date Sampled:	09/19/07
Lab Sample ID:	J72091-10	Date Received:	09/20/07
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Synthetic Products, Stratford, CT		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A62072.D	1	10/02/07	YWC	n/a	n/a	V2A2566
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		76-123%
17060-07-0	1,2-Dichloroethane-D4	81%		63-140%
2037-26-5	Toluene-D8	95%		78-117%
460-00-4	4-Bromofluorobenzene	94%		73-125%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

GW

CONESTOGA-ROVERS & ASSOCIATES 8615 W. Bryn Mawr Avenue Chicago, Illinois 60631 (773)380-9933 phone (773)380-6421 fax			SHIPPED TO: <i>Accutest</i> (Laboratory Name):			
CHAIN-OF-CUSTODY RECORD REFERENCE NUMBER: <i>3627</i>			PROJECT NAME: <i>Synthetic Products</i> <i>J72091</i>			
SAMPLER'S SIGNATURE: <i>Pat Klick</i>		PRINTED NAME: <i>Pat Klick</i>		PARAMETERS: <i>PHENOLIC TEMPERATURE</i>		
SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	REMARKS
	<i>9/19/07</i>	<i>9:00</i>	<i>GW-091907-PK-191</i>	<i>Water</i>	<i>9</i>	<i>MS/MSD</i>
		<i>9:40</i>	<i>-192</i>		<i>3</i>	
		<i>10:30</i>	<i>-193</i>		<i>3</i>	
		<i>11:10</i>	<i>-194</i>		<i>3</i>	
		<i>11:55</i>	<i>-195</i>		<i>3</i>	<i>928</i>
		<i>12:45</i>	<i>-196</i>		<i>3</i>	
		<i>13:40</i>	<i>-197</i>		<i>3</i>	
		<i>13:55</i>	<i>-198</i>		<i>3</i>	
		<i>14:45</i>	<i>-199</i>		<i>3</i>	
			<i>Trip Blank</i>		<i>2</i>	
			<i>Temperature Blank</i>		<i>1</i>	
TOTAL NUMBER OF CONTAINERS						
RELINQUISHED BY: <i>Pat Klick</i>		DATE: <i>9/19/07</i>		RECEIVED BY: <i>FEAT</i>		DATE: _____
① _____		TIME: <i>1800</i>		② _____		TIME: _____
RELINQUISHED BY: <i>FEAT</i>		DATE: <i>9-20-07</i>		RECEIVED BY: _____		DATE: <i>9/20/07</i>
② _____		TIME: <i>1070</i>		③ _____		TIME: <i>1020</i>
RELINQUISHED BY: _____		DATE: _____		RECEIVED BY: _____		DATE: _____
② _____		TIME: _____		④ _____		TIME: _____
METHOD OF SHIPMENT: <i>Fed X</i>			AIR BILL No. <i>8467 5834 9707</i>			
White	-Fully Executed Copy	SAMPLE TEAM:		RECEIVED FOR LABORATORY BY: <i>No 2514</i>		
Yellow	-Receiving Laboratory Copy			DATE: _____ TIME: _____		
Pink	-Shipper Copy					
Goldenrod	-Sampler Copy					

1001-00(SOURCE)GN-C0004

2A

T1

4.1
4

Job Change Order: J72091_10/1/2007

Requested Date:	10/1/2007	Received Date:	9/20/2007
Account Name:	Conestoga-Rovers & Associates	Due Date:	10/4/2007
Project Description:	Synthetic Products, Stratford, CT	Deliverable:	COMMC
CSR:	MV	TAT (Days):	14

Sample #: J72091-Job
Change: Change deliverables to COMMC+

4.1
4

Above Changes Per: Steve Day

Date: 10/1/2007

J72091: Chain of Custody
Page 2 of 2

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

Internal Sample Tracking Chronicle

Conestoga-Rovers & Associates

Job No: J72091

Synthetic Products, Stratford, CT
 Project No: 3627

4.2
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
J72091-1 GW-091907-PK-191	Collected: 19-SEP-07 09:00	By: PK	Received: 20-SEP-07	By: MP		
J72091-1	SW846 8260B	02-OCT-07 15:35	YWC			V8260BENZ
J72091-2 GW-091907-PK-192	Collected: 19-SEP-07 09:40	By: PK	Received: 20-SEP-07	By: MP		
J72091-2	SW846 8260B	03-OCT-07 13:17	YWC			V8260BENZ
J72091-3 GW-091907-PK-193	Collected: 19-SEP-07 10:30	By: PK	Received: 20-SEP-07	By: MP		
J72091-3	SW846 8260B	02-OCT-07 23:46	YWC			V8260BENZ
J72091-4 GW-091907-PK-194	Collected: 19-SEP-07 11:10	By: PK	Received: 20-SEP-07	By: MP		
J72091-4	SW846 8260B	02-OCT-07 16:04	YWC			V8260BENZ
J72091-5 GW-091907-PK-195	Collected: 19-SEP-07 11:55	By: PK	Received: 20-SEP-07	By: MP		
J72091-5	SW846 8260B	03-OCT-07 02:40	YWC			V8260BENZ
J72091-6 GW-091907-PK-196	Collected: 19-SEP-07 12:45	By: PK	Received: 20-SEP-07	By: MP		
J72091-6	SW846 8260B	03-OCT-07 13:46	YWC			V8260BENZ
J72091-7 GW-091907-PK-197	Collected: 19-SEP-07 13:40	By: PK	Received: 20-SEP-07	By: MP		
J72091-7	SW846 8260B	03-OCT-07 03:38	YWC			V8260BENZ
J72091-8 GW-091907-PK-198	Collected: 19-SEP-07 13:55	By: PK	Received: 20-SEP-07	By: MP		
J72091-8	SW846 8260B	03-OCT-07 04:07	YWC			V8260BENZ

Internal Sample Tracking Chronicle

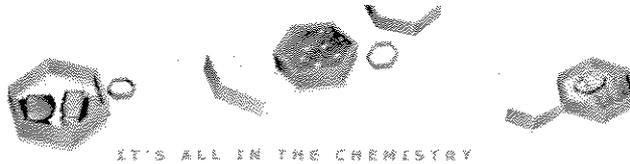
Conestoga-Rovers & Associates

Job No: J72091

Synthetic Products, Stratford, CT
Project No: 3627

4.2
4

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
J72091-9 GW-091907-PK-199	Collected: 19-SEP-07 14:45	By: PK	Received: 20-SEP-07	By: MP		
J72091-9	SW846 8260B	02-OCT-07 16:33	YWC			V8260BENZ
J72091-10 TRIP BLANK	Collected: 19-SEP-07 14:45	By: PK	Received: 20-SEP-07	By: MP		
J72091-10	SW846 8260B	02-OCT-07 15:05	YWC			V8260BENZ



IT'S ALL IN THE CHEMISTRY

GC/MS Volatiles

01

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: J72091
Account: CRAIL Conestoga-Rovers & Associates
Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A2566-MB	2A62065.D	1	10/02/07	YWC	n/a	n/a	V2A2566

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-1, J72091-4, J72091-9, J72091-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	76-123%
17060-07-0	1,2-Dichloroethane-D4	89%	63-140%
2037-26-5	Toluene-D8	95%	78-117%
460-00-4	4-Bromofluorobenzene	96%	73-125%

Method Blank Summary

Job Number: J72091
Account: CRAIL Conestoga-Rovers & Associates
Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A2567-MB	2A62089.D	1	10/02/07	YWC	n/a	n/a	V2A2567

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-3, J72091-5, J72091-7, J72091-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Result	Limits
1868-53-7	Dibromofluoromethane	100%	76-123%
17060-07-0	1,2-Dichloroethane-D4	90%	63-140%
2037-26-5	Toluene-D8	95%	78-117%
460-00-4	4-Bromofluorobenzene	97%	73-125%

Method Blank Summary

Job Number: J72091
Account: CRAIL Conestoga-Rovers & Associates
Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A2568-MB	2A62113.D	1	10/03/07	YWC	n/a	n/a	V2A2568

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-2, J72091-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Result	Limits
1868-53-7	Dibromofluoromethane	103%	76-123%
17060-07-0	1,2-Dichloroethane-D4	89%	63-140%
2037-26-5	Toluene-D8	104%	78-117%
460-00-4	4-Bromofluorobenzene	98%	73-125%

Blank Spike Summary

Job Number: J72091
Account: CRAIL Conestoga-Rovers & Associates
Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A2566-BS	2A62066.D	1	10/02/07	YWC	n/a	n/a	V2A2566

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-1, J72091-4, J72091-9, J72091-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	100	106	106	77-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	76-123%
17060-07-0	1,2-Dichloroethane-D4	95%	63-140%
2037-26-5	Toluene-D8	98%	78-117%
460-00-4	4-Bromofluorobenzene	94%	73-125%

5.2
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Blank Spike Summary

Job Number: J72091
Account: CRAIL Conestoga-Rovers & Associates
Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A2567-BS	2A62091.D	1	10/03/07	YWC	n/a	n/a	V2A2567

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-3, J72091-5, J72091-7, J72091-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	100	104	104	77-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	76-123%
17060-07-0	1,2-Dichloroethane-D4	98%	63-140%
2037-26-5	Toluene-D8	99%	78-117%
460-00-4	4-Bromofluorobenzene	95%	73-125%

5
2
5

Blank Spike Summary

Job Number: J72091
Account: CRAIL Conestoga-Rovers & Associates
Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A2568-BS	2A62114.D	1	10/03/07	YWC	n/a	n/a	V2A2568

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-2, J72091-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	100	110	110	77-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	76-123%
17060-07-0	1,2-Dichloroethane-D4	97%	63-140%
2037-26-5	Toluene-D8	107%	78-117%
460-00-4	4-Bromofluorobenzene	96%	73-125%

5.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: J72091
 Account: CRAIL Conestoga-Rovers & Associates
 Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J72091-1MS	2A62076.D	1	10/02/07	YWC	n/a	n/a	V2A2566
J72091-1MSD	2A62077.D	1	10/02/07	YWC	n/a	n/a	V2A2566
J72091-1	2A62073.D	1	10/02/07	YWC	n/a	n/a	V2A2566

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-1, J72091-4, J72091-9, J72091-10

CAS No.	Compound	J72091-1 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	39.0	78	39.2	78	1	48-137/12

CAS No.	Surrogate Recoveries	MS	MSD	J72091-1	Limits
1868-53-7	Dibromofluoromethane	100%	100%	97%	76-123%
17060-07-0	1,2-Dichloroethane-D4	91%	90%	83%	63-140%
2037-26-5	Toluene-D8	98%	98%	96%	78-117%
460-00-4	4-Bromofluorobenzene	96%	97%	96%	73-125%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: J72091
 Account: CRAIL Conestoga-Rovers & Associates
 Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J72091-3MS	2A62092.D	20	10/03/07	YWC	n/a	n/a	V2A2567
J72091-3MSD	2A62093.D	20	10/03/07	YWC	n/a	n/a	V2A2567
J72091-3	2A62090.D	20	10/02/07	YWC	n/a	n/a	V2A2567

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-3, J72091-5, J72091-7, J72091-8

CAS No.	Compound	J72091-3 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	427	1000	1610	118	1600	117	1	48-137/12

CAS No.	Surrogate Recoveries	MS	MSD	J72091-3	Limits
1868-53-7	Dibromofluoromethane	100%	101%	102%	76-123%
17060-07-0	1,2-Dichloroethane-D4	93%	91%	93%	63-140%
2037-26-5	Toluene-D8	100%	99%	97%	78-117%
460-00-4	4-Bromofluorobenzene	97%	97%	97%	73-125%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: J72091
 Account: CRAIL Conestoga-Rovers & Associates
 Project: Synthetic Products, Stratford, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J72239-12MS	2A62126.D	5	10/03/07	YWC	n/a	n/a	V2A2568
J72239-12MSD	2A62127.D	5	10/03/07	YWC	n/a	n/a	V2A2568
J72239-12	2A62125.D	5	10/03/07	YWC	n/a	n/a	V2A2568

The QC reported here applies to the following samples:

Method: SW846 8260B

J72091-2, J72091-6

CAS No.	Compound	J72239-12 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	281	112	286	114	2	48-137/12

CAS No.	Surrogate Recoveries	MS	MSD	J72239-12	Limits
1868-53-7	Dibromofluoromethane	103%	100%	104%	76-123%
17060-07-0	1,2-Dichloroethane-D4	95%	89%	93%	63-140%
2037-26-5	Toluene-D8	106%	106%	104%	78-117%
460-00-4	4-Bromofluorobenzene	98%	98%	98%	73-125%

Volatile Surrogate Recovery Summary

Job Number: J72091
 Account: CRAIL Conestoga-Rovers & Associates
 Project: Synthetic Products, Stratford, CT

Method: SW846 8260B

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
J72091-1	2A62073.D	97.0	83.0	96.0	96.0
J72091-2	2A62117.D	100.0	91.0	105.0	99.0
J72091-3	2A62090.D	102.0	93.0	97.0	97.0
J72091-4	2A62074.D	100.0	87.0	96.0	96.0
J72091-5	2A62096.D	100.0	86.0	98.0	96.0
J72091-6	2A62118.D	102.0	90.0	105.0	100.0
J72091-7	2A62098.D	102.0	92.0	99.0	97.0
J72091-8	2A62099.D	101.0	92.0	97.0	96.0
J72091-9	2A62075.D	100.0	91.0	97.0	94.0
J72091-10	2A62072.D	96.0	81.0	95.0	94.0
J72091-1MS	2A62076.D	100.0	91.0	98.0	96.0
J72091-1MSD	2A62077.D	100.0	90.0	98.0	97.0
J72091-3MS	2A62092.D	100.0	93.0	100.0	97.0
J72091-3MSD	2A62093.D	101.0	91.0	99.0	97.0
J72239-12MS	2A62126.D	103.0	95.0	106.0	98.0
J72239-12MSD	2A62127.D	100.0	89.0	106.0	98.0
V2A2566-BS	2A62066.D	102.0	95.0	98.0	94.0
V2A2566-MB	2A62065.D	101.0	89.0	95.0	96.0
V2A2567-BS	2A62091.D	102.0	98.0	99.0	95.0
V2A2567-MB	2A62089.D	100.0	90.0	95.0	97.0
V2A2568-BS	2A62114.D	104.0	97.0	107.0	96.0
V2A2568-MB	2A62113.D	103.0	89.0	104.0	98.0

Surrogate Compounds **Recovery Limits**

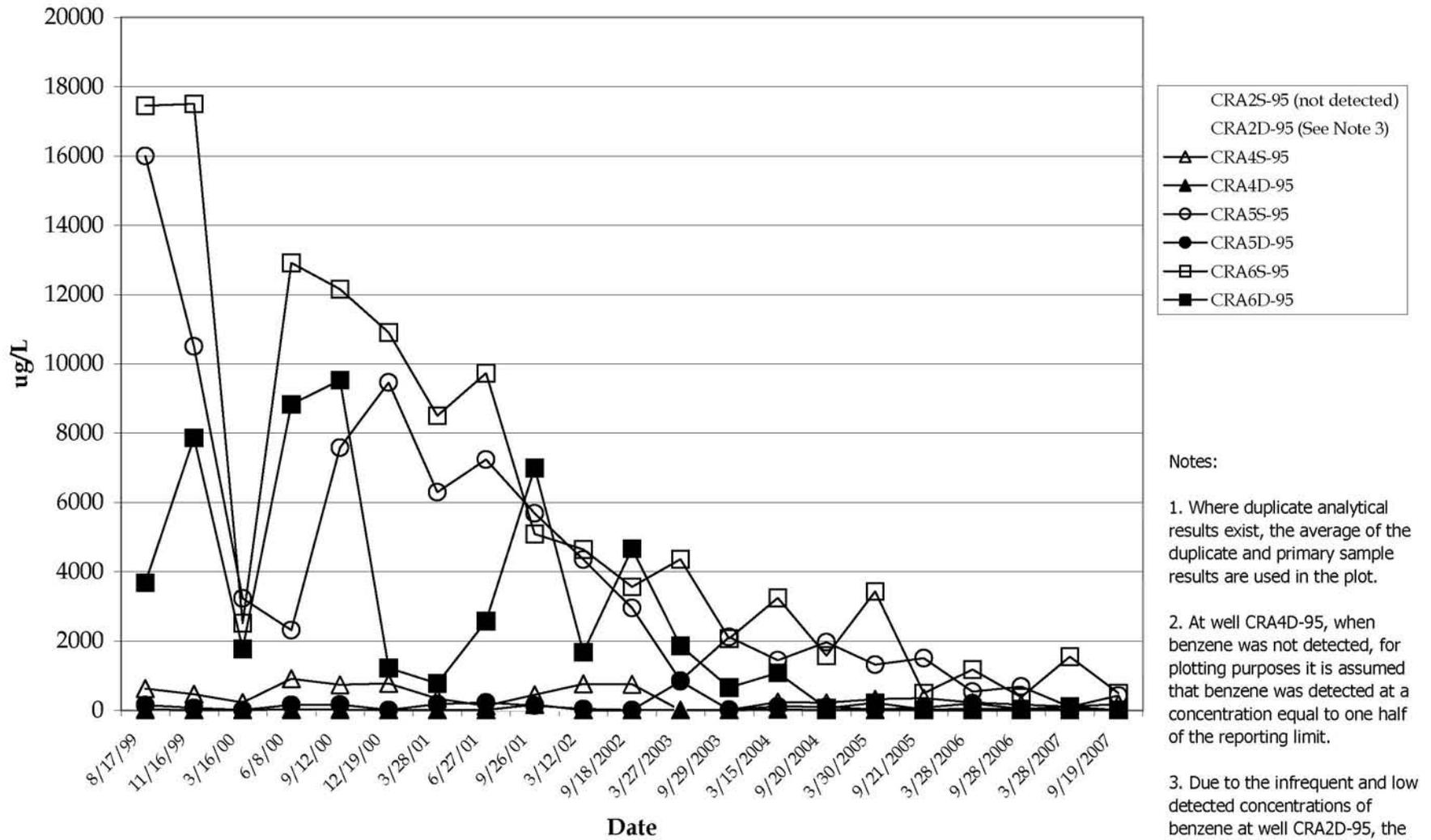
S1 = Dibromofluoromethane 76-123%
 S2 = 1,2-Dichloroethane-D4 63-140%
 S3 = Toluene-D8 78-117%
 S4 = 4-Bromofluorobenzene 73-125%

5.4
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ATTACHMENT B

PLOTS OF BENZENE CONCENTRATIONS
IN MONITORING WELLS AND WATER LEVELS

Plot of Groundwater Analytical Results for Benzene



Groundwater Elevations in Monitoring Wells

