



Semi-Annual Groundwater Sampling Report

**Univar USA Inc.
Greensboro Facility
Greensboro, NC**

June 2002

UNIVAR USA INC.

**Semi-Annual
Groundwater
Sampling Report**

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*Greensboro Facility
3001 Holts Chapel Road
Greensboro, North Carolina*



**BASCOR Environmental, Inc.
Consulting engineers and
scientists**

Offices in Chicago, IL & Madison, WI

SEMI-ANNUAL GROUNDWATER SAMPLING REPORT
June 2002

Univar USA Inc.
3001 Holts Chapel Road
Greensboro, North Carolina

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**SEMI-ANNUAL GROUNDWATER SAMPLING REPORT
June 2002**

**Univar USA Inc.
3001 Holts Chapel Road
Greensboro, North Carolina**

1.0 INTRODUCTION

BASCOR Environmental, Inc. (BEI) has prepared this report summarizing the results of the semi-annual groundwater sampling at the Univar USA Inc. (formerly Vopak USA Inc.) Greensboro facility. The field activities were conducted on May 1 and June 7, 2002. Figure 1 shows the present site configuration, including pertinent site features and monitoring and recovery well locations.

Field activities included measuring groundwater levels from the site monitoring wells and sampling selected monitoring wells. Summaries of these activities are presented in the following sections. Supporting documentation, including chain-of-custody forms, water sampling logs, and laboratory analytical results, are included in Attachments A, B, and C, respectively.

2.0 WATER LEVELS

Depth-to-water data were collected from the monitoring wells and recovery wells on June 7, 2002. All water level depths were measured using an electronic measuring tape. The water-level data are presented in Table 1.

The water table in the overburden from nonpumping wells was encountered at depths ranging from approximately 13 to 17 feet below the top of casing measuring points (10 to 15 ft below ground surface). At the time of the water level collection the Univar groundwater recovery system was operating. The Univar recovery system is currently configured to pump groundwater from the majority of the bedrock wells at the property (BR-1D, BR-3, BR-4, BR-5, and BR-6 wells, Figure 1), in addition to select overburden recovery wells (RW-2, RW-4, and RW-5).

The overburden groundwater contours in Figure 2 indicate that the groundwater flow on the upgradient side of the Univar property is from the southeast to northwest, with a hydraulic gradient of approximately 0.006 feet per foot. Overall, site water levels were approximately 1-foot lower across the site for this sampling event compared to December 2001. The only exception is monitoring well MW-1S whose water level was approximately 0.60 feet higher than recorded in December 2001.

3.0 GROUNDWATER SAMPLING PROCEDURES

The groundwater sampling event in June involved collection of groundwater samples from eight of the existing 26 monitoring wells at the Univar facility. Groundwater samples were collected from six overburden monitoring wells (MW- and PT-series wells) and two bedrock wells (BR-5 and BR-6, Figure 1). The groundwater sampling protocol included evacuation of at least three well volumes from each overburden monitoring well prior to sample collection using a new disposable bailer with new polypropylene rope. Well evacuation was accomplished by first measuring the depth-to-water and total depth of each well, followed by calculation of the volume of water in each well to be sampled. At least three well volumes of groundwater were then removed from each sampled overburden well. Groundwater purged prior to sampling was placed into the on-site treatment system, which subsequently discharges to the City of Greensboro sanitary sewer system in accordance with the Special Discharge Permit for the facility (Number 2001).

+ total
16 samples

Groundwater samples were also collected from three offsite overburden monitoring wells (MW-3, MW-4, and MW-5) on May 1, 2002. The groundwater remediation system was down for a period of time during the month of May, and samples from these three wells were collected to determine whether the VOC concentrations in the three wells were affected by the non-pumping period. Monitoring Wells MW-3 and MW-5 have historically reported non-detect concentrations and Monitoring Well MW-4 had recently indicated decreasing VOC levels.

+ 3 offsite

The depth to water in the bedrock wells BR-5 and BR-6 indicated that the groundwater recovery system was operating at the time of sampling. Because the recovery system was pumping at the time of collection, groundwater grab samples were collected without prior purging. ✓

A new groundwater sampling method was also implemented this sampling round at Monitoring Wells MW-2S and MW-4. Passive Diffusion Bag (PDB) samplers were

installed in the two monitoring wells following the December 2001 semi-annual sampling event. The installation and sampling procedures for this new method are presented below.

The ^{PDB}PDB samplers consist of low density polyethylene bags that are filled with distilled water, sealed, and deployed within the saturated screened interval. The PDB samplers are first filled with distilled water and sealed with a polyethylene cap. The samplers are then saddled with an 8-ounce stainless steel weight and tethered to the end of a length of polyethylene rope. The sampler is then lowered to the bottom of the monitoring well. Once resting at the well bottom, the device is lifted a few inches so as not to rest on the bottom and apply pressure to the PDB. The sampler is approximately 22 inches in length overall and requires a minimum water column of at least 22 inches to be effective.

The PDB sampler is constructed of low density polyethylene that allows the transfer of groundwater constituents of less than 10 angstroms in size. The PDB samplers are fully equilibrated with the surrounding groundwater after approximately 14 days (Vroblesky 2001). During the equilibration period groundwater VOC concentrations present in the monitoring well equilibrate with the distilled water contained in the PDB.

On June 7, 2002 the PDB samplers were retrieved and samples collected. The used PDB sampler was discarded and a new PDB sampler was filled and installed. The samples collected using this method are labeled MW-2S PDB and MW-4 PDB.

Groundwater samples were collected from the overburden at Monitoring Wells MW-2S, MW-2D, MW-4, PT-2S, PT-4, and PT-5 using the same disposable polyethylene bailer and rope used to evacuate each of these wells (after the collection of PDB samples for selected wells). The groundwater samples were collected from the two bedrock wells using a disposable bailer and rope.

Each groundwater sample was transferred directly from the bailer or PDB to three 40-milliliter glass volatile organic analysis (VOA) vials supplied by Columbia Analytical

Services (Columbia, North Carolina Certification #527) of Jacksonville, Florida. Each VOA vial was carefully sealed with a screw cap fitted with Teflon™ septa and stored on ice for overnight shipment to the laboratory. Columbia analyzed the groundwater samples for volatile organic compounds (VOCs) by EPA Methods 601 and 602. Chain-of-Custody procedures were followed throughout sample collection, shipment, and analyses. The Chain-of-Custody form is presented in Attachment A. Copies of the Water Sampling Logs are included in Attachment B.

Quality Assurance/Quality Control samples (QA/QC), including one equipment blank, one trip blank, and one duplicate sample (FD) were collected as part of the groundwater sampling protocol. The QA/QC samples were collected to monitor equipment cleanliness and sample container handling, as well as laboratory reproducibility. The equipment blank was collected by pouring organic-free water (distilled water) into the PDB sampler. The organic-free water for the equipment blank was then transferred from the PDB to a set of VOA sample containers provided by the laboratory. The trip blank was prepared in the laboratory by filling sample vials with organic-free water. The trip blanks accompanied the sample containers from the laboratory to the site, as well as from the site back to the laboratory. A duplicate sample, PT-5 FD, was collected from Monitoring Well PT-5 at the same time and in the same manner as the original sample.

FD
Field Duplicate

4.0 LABORATORY ANALYTICAL RESULTS

Copies of the analytical results for both sampling events are included in Attachment C. Summaries of all the groundwater samples, QA/QC samples, and laboratory blank sample analytical results collected for the two dates are presented in Tables 2A (May 1) and 2B (June 7). A map showing the distribution of the total VOC concentrations, and the isoconcentration contours, in the overburden groundwater monitoring wells for the June 7 data is presented as Figure 3.

VOC in
The Overburden
Samples

As mentioned before, three overburden monitoring wells were sampled on May 1, 2002. This was done to verify that even though the groundwater pumping system onsite was down for a short period of time during May, the VOC concentrations in these wells would remain unaffected. The groundwater samples from Monitoring Wells MW-3 and MW-5 remained historically consistent, reporting non-detect VOC levels in each sample. Monitoring Well MW-4, which was sampled using a PDB sampler, reported lower concentrations than found during the December 2001 sampling event.

Total VOCs in the overburden wells in June ranged from 0.189 milligrams per liter (mg/L) in the PDB groundwater sample collected from Monitoring Well MW-4 to 74 mg/L in the sample collected from Monitoring Well MW-2S, which is located near the H. B. Fuller property.

The VOC isoconcentration map of the overburden groundwater indicates that the highest VOC concentration in the area affected by the Univar plume is at Monitoring Well MW-2S (Figure 3). This is consistent with past observations of the VOC distribution in the overburden groundwater. Since the previous semi-annual sampling event (December 2001), the total VOC concentrations for some of wells have increased (PT-2S, PT-4, PT-5, and MW-2S). Significant decreases in VOC concentrations have occurred at Monitoring Wells MW-4 and PT-5. A time-concentration plot for the sampled overburden wells is presented as Figure 4. Note that the concentration from Monitoring well MW-2S was not used in the isoconcentration map (Figure 3). The VOC

✓

?

concentrations in that well likely originated from operations at the adjacent facility (H.B. Fuller). In addition, the recent total VOC concentration increase (last 8 of last 9 sampling events) reported for PT-5 may also be a result of contributions from the adjacent property.

The total VOC concentration in the groundwater samples collected from Bedrock Wells BR-5 and BR-6 were substantially higher in June 2002 compared to December 2001. This may be the result of the recent cleaning of the site bedrock wells, or it may also be due to the substantially lower water levels throughout the site. A time-concentration plot for bedrock wells BR-5 and BR-6 is presented as Figure 5.

The QA/QC samples designated as method blank and trip blank did not contain detectable concentrations of any VOCs, as indicated in Table 2. The equipment blank reported a slight detection of chloroform (0.0011 mg/L). The laboratory analysis indicates that the groundwater sample collected from Monitoring Well PT-5 had a total VOC concentration of 32.95 mg/L, and the duplicate sample PT-5 FD had a total VOC concentration of 31.49 mg/L from the same well. This represents a good comparison [relative % difference (RPD) = 4.4%] between the original and duplicate analysis for Monitoring Well PT-5.

A comparison of the samples collected after purge and those collected with the PDB samplers (non-purge) are favorable. Monitoring Wells MW-2S and MW-4 were sampled via both methods. A comparison of the RPD for these three samples and the duplicate sample are presented in Table 3. The RPD ranged from -7.2% for Monitoring Well MW-2S to 17.4% for Monitoring Well MW-4. The RPD for duplicate sample PT-5/PT-5 (Dup) is 4.6%.

The PDB results reported for Monitoring Well MW-2S and MW-4 represent a good agreement between sampling methods. The difference between reported concentrations may be attributed to exposure of the PDB to the atmosphere during the equilibration period. Case studies and the manufacturer report that VOCs may be lost when the PDB is

not fully submerged during the equilibration period. This does not appear to be the case for either of the PDB samples based on the recorded water level elevations for both wells. Irregardless, this comparison is favorable, especially for routine sampling events.

values.

5.0 SUMMARY

Results of the PDB sampling method are favorable and indicate that the use of the PDB sampling device may be the preferential sample collection method for routine groundwater monitoring at the facility. PDB samplers have been installed in Monitoring Wells MW-2S and MW-4. These two wells will again be sampled by both methods during the next semi-annual sampling event (December 2002).

The most recent semi-annual sampling data indicate that the overall long-term VOC groundwater concentrations at the Univar property have declined or remained relatively stable with slight periodic fluctuations since 1997. These trends can be observed in Figures 4 and 5. There is an increasing trend for monitoring wells located adjacent to the neighboring (Fuller) facility (MW-2S and PT-5). The contribution by the neighboring property to site groundwater VOC impacts is not clear at this time, however the data would suggest that there is a correlation.

It has been shown that although the on site groundwater remediation system had been down for a majority of May, the VOC concentrations in downgradient wells remained stable. In fact, VOC concentrations at MW-4 have decreased from the December 2001 sampling event.

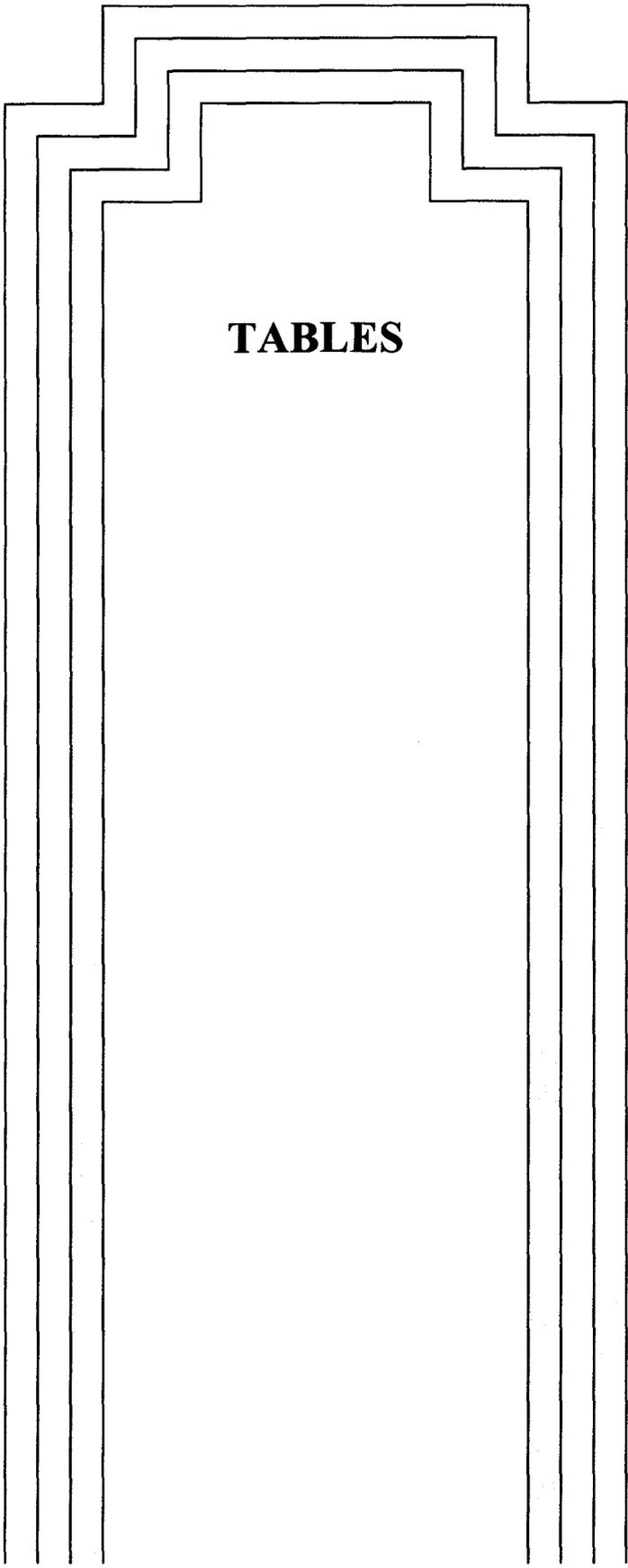
As discussed in the Groundwater Assessment and Summary Report (Bascor 1998), pumping from bedrock Monitoring Well BR-5 provides capture for the overburden groundwater that further reduces the remaining VOC concentrations in this groundwater and prevents offsite migration. Based on the total VOC concentration of 1.01 mg/L on June 7, 2002, and on an average flow rate of about 13 gallons per hour, pumping from BR-5 is removing an estimated 0.003 pounds of VOCs per day, or about 1.1 pounds per year, from the subsurface. Note that this concentration is substantially lower than previous VOC concentrations in BR-5 (Figure 5). Continued regular sampling of BR-5 will indicate whether that value represents an anomaly.

In addition, pumping from bedrock well BR-6 is removing an additional 1.77 pounds per year from the subsurface. Treatment of the recovered groundwater will continue through the existing system and discharge permit.

6.0 REFERENCES

Bascor Environmental, Inc., 1998. Groundwater Assessment and Summary Report, December 14, 1998.

Vroblesky, D.A., 2001. U.S. Geological Survey. User's Guide to Polyethylene-Based Passive Diffusion Bag Samplers to Obtain Volatile Organic Compound Concentrations in Wells



TABLES

Table J
Water Level Elevations
07-Jun-02
Univar USA Inc.
Greensboro, NC Facility

Well Name	Measuring Point Elevation	Depth to Water (ft)	Water Level Elevation
BR-1D	802.55	90.84	711.71
BR-1S	802.13	14.82	787.31
BR-2	802.70	14.74	787.96
BR-3	802.32	55.80	746.52
BR-4	801.66	59.65	742.01
BR-5	805.18	26.66	778.52
BR-6	802.11	--	--
MW-1S	808.41	17.15	791.26
MW-2D	803.18	14.47	788.71
MW-2S	802.58	13.79	788.79
MW-3	802.96	15.42	787.54
MW-4	803.75	15.30	788.45
MW-5	802.11	15.30	786.81
PT-1D	802.66	15.48	787.18
PT-1S	802.83	15.32	787.51
PT-2D	802.36	15.12	787.24
PT-2S	802.73	15.07	787.66
PT-4	804.08	16.83	787.25
PT-5	803.82	15.86	787.96
RW-1	801.21	13.73	787.48
RW-2	802.06	24.99	777.07
RW-3	800.91	13.22	787.69
RW-4	800.93	21.48	779.45
RW-5	801.55	17.78	783.77
RW-6	802.26	13.72	788.54
RW-7	804.59	16.46	788.13

Summary of Groundwater Analytical Results

01 May 02

Univar USA Inc. Greensboro, NC

MW-3	
Lab ID: J2201450-003	
Sample Date: 5/1/02	
Dilution: 1	Depth:
Compound	Result
Benzene	<0.001 mg/L U
Bromodichloromethane	<0.001 mg/L U
Bromoform	<0.001 mg/L U
Bromomethane	<0.001 mg/L U
Carbon tetrachloride	<0.001 mg/L U
Chlorobenzene	<0.001 mg/L U
Chloroethane	<0.001 mg/L U
2-Chloroethylvinyl ether	<0.1 mg/L U
Chloroform	<0.001 mg/L U
Chloromethane	<0.001 mg/L U
Dibromochloromethane	<0.001 mg/L U
1,2-Dichlorobenzene	<0.001 mg/L U
1,3-Dichlorobenzene	<0.001 mg/L U
1,4-Dichlorobenzene	<0.001 mg/L U
Dichlorodifluoromethane	<0.005 mg/L U
1,1-Dichloroethane	<0.001 mg/L U
1,2-Dichloroethane	<0.001 mg/L U
1,1-Dichloroethene	<0.001 mg/L U
cis-1,2-Dichloroethene	<0.001 mg/L U
trans-1,2-Dichloroethene	<0.001 mg/L U
1,2-Dichloropropane	<0.001 mg/L U
cis-1,3-Dichloropropene	<0.001 mg/L U
trans-1,3-Dichloropropene	<0.001 mg/L U
Ethylbenzene	<0.001 mg/L U
Methyl tert-butyl ether	<0.001 mg/L U
Methylene chloride	<0.005 mg/L U
1,1,2,2-Tetrachloroethane	<0.001 mg/L U
Tetrachloroethene	<0.001 mg/L U
Toluene	<0.001 mg/L U
1,1,1-Trichloroethane	<0.001 mg/L U
1,1,2-Trichloroethane	<0.001 mg/L U
Trichloroethene	<0.001 mg/L U
Trichlorofluoromethane	<0.005 mg/L U
Vinyl chloride	<0.001 mg/L U
Total Xylenes	<0.003 mg/L U
Total:	ND

MW-4 PDB	
Lab ID: J2201450-002	
Sample Date: 5/1/02	
Dilution: 1	Depth:
Compound	Result
Benzene	<0.001 mg/L U
Bromodichloromethane	<0.001 mg/L U
Bromoform	<0.001 mg/L U
Bromomethane	<0.001 mg/L U
Carbon tetrachloride	<0.001 mg/L U
Chlorobenzene	<0.001 mg/L U
Chloroethane	<0.001 mg/L U
2-Chloroethylvinyl ether	<0.1 mg/L U
Chloroform	<0.001 mg/L U
Chloromethane	<0.001 mg/L U
Dibromochloromethane	<0.001 mg/L U
1,2-Dichlorobenzene	<0.001 mg/L U
1,3-Dichlorobenzene	<0.001 mg/L U
1,4-Dichlorobenzene	<0.001 mg/L U
Dichlorodifluoromethane	<0.005 mg/L U
1,1-Dichloroethane	0.0036 mg/L
1,2-Dichloroethane	<0.001 mg/L U
1,1-Dichloroethene	0.016 mg/L
cis-1,2-Dichloroethene	0.089 mg/L
trans-1,2-Dichloroethene	<0.001 mg/L U
1,2-Dichloropropane	0.0093 mg/L
cis-1,3-Dichloropropene	<0.001 mg/L U
trans-1,3-Dichloropropene	<0.001 mg/L U
Ethylbenzene	<0.001 mg/L U
Methyl tert-butyl ether	<0.001 mg/L U
Methylene chloride	<0.005 mg/L U
1,1,2,2-Tetrachloroethane	<0.001 mg/L U
Tetrachloroethene	0.0011 mg/L
Toluene	<0.001 mg/L U
1,1,1-Trichloroethane	0.0076 mg/L
1,1,2-Trichloroethane	<0.001 mg/L U
Trichloroethene	0.014 mg/L
Trichlorofluoromethane	<0.005 mg/L U
Vinyl chloride	<0.001 mg/L U
Total Xylenes	<0.003 mg/L U
Total:	.141

MW-5	
Lab ID: J2201450-001	
Sample Date: 5/1/02	
Dilution: 1	Depth:
Compound	Result
Benzene	<0.001 mg/L U
Bromodichloromethane	<0.001 mg/L U
Bromoform	<0.001 mg/L U
Bromomethane	<0.001 mg/L U
Carbon tetrachloride	<0.001 mg/L U
Chlorobenzene	<0.001 mg/L U
Chloroethane	<0.001 mg/L U
2-Chloroethylvinyl ether	<0.1 mg/L U
Chloroform	<0.001 mg/L U
Chloromethane	<0.001 mg/L U
Dibromochloromethane	<0.001 mg/L U
1,2-Dichlorobenzene	<0.001 mg/L U
1,3-Dichlorobenzene	<0.001 mg/L U
1,4-Dichlorobenzene	<0.001 mg/L U
Dichlorodifluoromethane	<0.005 mg/L U
1,1-Dichloroethane	<0.001 mg/L U
1,2-Dichloroethane	<0.001 mg/L U
1,1-Dichloroethene	<0.001 mg/L U
cis-1,2-Dichloroethene	<0.001 mg/L U
trans-1,2-Dichloroethene	<0.001 mg/L U
1,2-Dichloropropane	<0.001 mg/L U
cis-1,3-Dichloropropene	<0.001 mg/L U
trans-1,3-Dichloropropene	<0.001 mg/L U
Ethylbenzene	<0.001 mg/L U
Methyl tert-butyl ether	<0.001 mg/L U
Methylene chloride	<0.005 mg/L U
1,1,2,2-Tetrachloroethane	<0.001 mg/L U
Tetrachloroethene	<0.001 mg/L U
Toluene	<0.001 mg/L U
1,1,1-Trichloroethane	<0.001 mg/L U
1,1,2-Trichloroethane	<0.001 mg/L U
Trichloroethene	<0.001 mg/L U
Trichlorofluoromethane	<0.005 mg/L U
Vinyl chloride	<0.001 mg/L U
Total Xylenes	<0.003 mg/L U
Total:	ND

Table A (cont.)
Summary of Groundwater Analytical Results
 01 May 02
 Univar USA Inc. Greensboro, NC

Trip Blank		Method Blank	
Lab ID: J2201450-004		Lab ID: GC512E07B-MB	
Sample Date: 5/1/02		Sample Date: 5/1/02	
Dilution: 1	Depth:	Dilution: 1	Depth:
Compound	Result	Compound	Result
Benzene	<0.001 mg/L U	Benzene	<0.001 mg/L U
Bromodichloromethane	<0.001 mg/L U	Bromodichloromethane	<0.001 mg/L U
Bromoform	<0.001 mg/L U	Bromoform	<0.001 mg/L U
Bromomethane	<0.001 mg/L U	Bromomethane	<0.001 mg/L U
Carbon tetrachloride	<0.001 mg/L U	Carbon tetrachloride	<0.001 mg/L U
Chlorobenzene	<0.001 mg/L U	Chlorobenzene	<0.001 mg/L U
Chloroethane	<0.001 mg/L U	Chloroethane	<0.001 mg/L U
2-Chloroethylvinyl ether	<0.1 mg/L U	2-Chloroethylvinyl ether	<0.1 mg/L U
Chloroform	<0.001 mg/L U	Chloroform	<0.001 mg/L U
Chloromethane	<0.001 mg/L U	Chloromethane	<0.001 mg/L U
Dibromochloromethane	<0.001 mg/L U	Dibromochloromethane	<0.001 mg/L U
1,2-Dichlorobenzene	<0.001 mg/L U	1,2-Dichlorobenzene	<0.001 mg/L U
1,3-Dichlorobenzene	<0.001 mg/L U	1,3-Dichlorobenzene	<0.001 mg/L U
1,4-Dichlorobenzene	<0.001 mg/L U	1,4-Dichlorobenzene	<0.001 mg/L U
Dichlorodifluoromethane	<0.005 mg/L U	Dichlorodifluoromethane	<0.005 mg/L U
1,1-Dichloroethane	<0.001 mg/L U	1,1-Dichloroethane	<0.001 mg/L U
1,2-Dichloroethane	<0.001 mg/L U	1,2-Dichloroethane	<0.001 mg/L U
1,1-Dichloroethene	<0.001 mg/L U	1,1-Dichloroethene	<0.001 mg/L U
cis-1,2-Dichloroethene	<0.001 mg/L U	cis-1,2-Dichloroethene	<0.001 mg/L U
trans-1,2-Dichloroethene	<0.001 mg/L U	trans-1,2-Dichloroethene	<0.001 mg/L U
1,2-Dichloropropane	<0.001 mg/L U	1,2-Dichloropropane	<0.001 mg/L U
cis-1,3-Dichloropropene	<0.001 mg/L U	cis-1,3-Dichloropropene	<0.001 mg/L U
trans-1,3-Dichloropropene	<0.001 mg/L U	trans-1,3-Dichloropropene	<0.001 mg/L U
Ethylbenzene	<0.001 mg/L U	Ethylbenzene	<0.001 mg/L U
Methyl tert-butyl ether	<0.001 mg/L U	Methyl tert-butyl ether	<0.001 mg/L U
Methylene chloride	<0.005 mg/L U	Methylene chloride	<0.005 mg/L U
1,1,2,2-Tetrachloroethane	<0.001 mg/L U	1,1,2,2-Tetrachloroethane	<0.001 mg/L U
Tetrachloroethene	<0.001 mg/L U	Tetrachloroethene	<0.001 mg/L U
Toluene	<0.001 mg/L U	Toluene	<0.001 mg/L U
1,1,1-Trichloroethane	<0.001 mg/L U	1,1,1-Trichloroethane	<0.001 mg/L U
1,1,2-Trichloroethane	<0.001 mg/L U	1,1,2-Trichloroethane	<0.001 mg/L U
Trichloroethene	<0.001 mg/L U	Trichloroethene	<0.001 mg/L U
Trichlorofluoromethane	<0.005 mg/L U	Trichlorofluoromethane	<0.005 mg/L U
Vinyl chloride	<0.001 mg/L U	Vinyl chloride	<0.001 mg/L U
Total Xylenes	<0.003 mg/L U	Total Xylenes	<0.003 mg/L U
Total:	ND	Total:	ND

Table 2A (cont.)
Summary of Groundwater Analytical Results
01-May-02
Univar USA Inc., Greensboro, NC

Standard Qualifiers

U - Undetected at or below MDL

B - Detected in laboratory blank

E - Estimated value

J - Estimated value below MDL

N - Spiked sample recovery not within
control limits

Detections in bold

Tentatively identified compounds italicized

Table 2B
Summary of Groundwater Analytical Results
07-Jun-02
Univar USA Inc. Greensboro, NC

BR-5		BR-6		MW-2D	
Lab ID: J2201883-001		Lab ID: J2201883-002		Lab ID: J2201883-008	
Sample Date: 6/7/02		Sample Date: 6/7/02		Sample Date: 6/7/02	
Dilution: 5	Depth:	Dilution: 250	Depth:	Dilution: 50	Depth:
Compound	Result	Compound	Result	Compound	Result
Benzene	<0.005 mg/L U	Benzene	<0.25 mg/L U	Benzene	<0.05 mg/L U
Bromodichloromethane	<0.005 mg/L U	Bromodichloromethane	<0.25 mg/L U	Bromodichloromethane	<0.05 mg/L U
Bromoform	<0.005 mg/L U	Bromoform	<0.25 mg/L U	Bromoform	<0.05 mg/L U
Bromomethane	<0.005 mg/L U	Bromomethane	<0.25 mg/L U	Bromomethane	<0.05 mg/L U
Carbon tetrachloride	<0.005 mg/L U	Carbon tetrachloride	<0.25 mg/L U	Carbon tetrachloride	<0.05 mg/L U
Chlorobenzene	<0.005 mg/L U	Chlorobenzene	0.64 mg/L	Chlorobenzene	<0.05 mg/L U
Chloroethane	<0.005 mg/L U	Chloroethane	<0.25 mg/L U	Chloroethane	<0.05 mg/L U
2-Chloroethylvinyl ether	<0.5 mg/L U	2-Chloroethylvinyl ether	<25 mg/L U	2-Chloroethylvinyl ether	<5 mg/L U
Chloroform	0.0073 mg/L	Chloroform	0.47 mg/L	Chloroform	<0.05 mg/L U
Chloromethane	<0.005 mg/L U	Chloromethane	<0.25 mg/L U	Chloromethane	0.055 mg/L
Dibromochloromethane	<0.005 mg/L U	Dibromochloromethane	<0.25 mg/L U	Dibromochloromethane	<0.05 mg/L U
1,2-Dichlorobenzene	<0.005 mg/L U	1,2-Dichlorobenzene	<0.25 mg/L U	1,2-Dichlorobenzene	<0.05 mg/L U
1,3-Dichlorobenzene	<0.005 mg/L U	1,3-Dichlorobenzene	<0.25 mg/L U	1,3-Dichlorobenzene	<0.05 mg/L U
1,4-Dichlorobenzene	<0.005 mg/L U	1,4-Dichlorobenzene	<0.25 mg/L U	1,4-Dichlorobenzene	<0.05 mg/L U
Dichlorodifluoromethane	<0.025 mg/L U	Dichlorodifluoromethane	<1.2 mg/L U	Dichlorodifluoromethane	<0.25 mg/L U
1,1-Dichloroethane	0.042 mg/L	1,1-Dichloroethane	<0.25 mg/L U	1,1-Dichloroethane	1.1 mg/L
1,2-Dichloroethane	<0.005 mg/L U	1,2-Dichloroethane	<0.25 mg/L U	1,2-Dichloroethane	<0.05 mg/L U
1,1-Dichloroethene	0.051 mg/L	1,1-Dichloroethene	1.2 mg/L	1,1-Dichloroethene	1 mg/L
cis-1,2-Dichloroethene	0.18 mg/L	cis-1,2-Dichloroethene	9.3 mg/L	cis-1,2-Dichloroethene	<0.05 mg/L U
trans-1,2-Dichloroethene	<0.005 mg/L U	trans-1,2-Dichloroethene	<0.25 mg/L U	trans-1,2-Dichloroethene	<0.05 mg/L U
1,2-Dichloropropane	0.013 mg/L	1,2-Dichloropropane	1.5 mg/L	1,2-Dichloropropane	<0.05 mg/L U
cis-1,3-Dichloropropene	<0.005 mg/L U	cis-1,3-Dichloropropene	<0.25 mg/L U	cis-1,3-Dichloropropene	<0.05 mg/L U
trans-1,3-Dichloropropene	<0.005 mg/L U	trans-1,3-Dichloropropene	<0.25 mg/L U	trans-1,3-Dichloropropene	<0.05 mg/L U
Ethylbenzene	<0.005 mg/L U	Ethylbenzene	<0.25 mg/L U	Ethylbenzene	<0.05 mg/L U
Methyl tert-butyl ether	<0.005 mg/L U	Methyl tert-butyl ether	<0.25 mg/L U	Methyl tert-butyl ether	<0.05 mg/L U
Methylene chloride	<0.025 mg/L U	Methylene chloride	<1.2 mg/L U	Methylene chloride	<0.25 mg/L U
1,1,2,2-Tetrachloroethane	<0.005 mg/L U	1,1,2,2-Tetrachloroethane	<0.25 mg/L U	1,1,2,2-Tetrachloroethane	<0.05 mg/L U
Tetrachloroethene	0.098 mg/L	Tetrachloroethene	0.49 mg/L	Tetrachloroethene	<0.05 mg/L U
Toluene	<0.005 mg/L U	Toluene	<0.25 mg/L U	Toluene	<0.05 mg/L U
1,1,1-Trichloroethane	0.26 mg/L D	1,1,1-Trichloroethane	9 mg/L	1,1,1-Trichloroethane	0.17 mg/L
1,1,2-Trichloroethane	<0.005 mg/L U	1,1,2-Trichloroethane	<0.25 mg/L U	1,1,2-Trichloroethane	<0.05 mg/L U
Trichloroethene	0.36 mg/L D	Trichloroethene	11 mg/L	Trichloroethene	<0.05 mg/L U
Trichlorofluoromethane	<0.025 mg/L U	Trichlorofluoromethane	<1.2 mg/L U	Trichlorofluoromethane	<0.25 mg/L U
Vinyl chloride	<0.005 mg/L U	Vinyl chloride	0.29 mg/L	Vinyl chloride	<0.05 mg/L U
Total Xylenes	<0.015 mg/L U	Total Xylenes	<0.75 mg/L U	Total Xylenes	<0.15 mg/L U
Total:	1.01	Total:	33.9	Total:	2.33

Table 2B (cont.)
Summary of Groundwater Analytical Results
 07-Jun-02
 Univar USA Inc. Greensboro, NC

MW-2S		MW-2S PDB		MW-4	
Lab ID: J2201883-009		Lab ID: J2201883-010		Lab ID: J2201883-011	
Sample Date: 6/7/02		Sample Date: 6/7/02		Sample Date: 6/7/02	
Dilution: 1000	Depth:	Dilution: 1000	Depth:	Dilution: 50	Depth:
Compound	Result	Compound	Result	Compound	Result
Benzene	<1 mg/L U	Benzene	<1 mg/L U	Benzene	<0.05 mg/L U
Bromodichloromethane	<1 mg/L U	Bromodichloromethane	<1 mg/L U	Bromodichloromethane	<0.05 mg/L U
Bromoform	<1 mg/L U	Bromoform	<1 mg/L U	Bromoform	<0.05 mg/L U
Bromomethane	<1 mg/L U	Bromomethane	<1 mg/L U	Bromomethane	<0.05 mg/L U
Carbon tetrachloride	<1 mg/L U	Carbon tetrachloride	<1 mg/L U	Carbon tetrachloride	<0.05 mg/L U
Chlorobenzene	<1 mg/L U	Chlorobenzene	<1 mg/L U	Chlorobenzene	<0.05 mg/L U
Chloroethane	<1 mg/L U	Chloroethane	<1 mg/L U	Chloroethane	<0.05 mg/L U
2-Chloroethylvinyl ether	<100 mg/L U	2-Chloroethylvinyl ether	<100 mg/L U	2-Chloroethylvinyl ether	<5 mg/L U
Chloroform	<1 mg/L U	Chloroform	<1 mg/L U	Chloroform	<0.05 mg/L U
Chloromethane	<1 mg/L U	Chloromethane	<1 mg/L U	Chloromethane	<0.05 mg/L U
Dibromochloromethane	<1 mg/L U	Dibromochloromethane	<1 mg/L U	Dibromochloromethane	<0.05 mg/L U
1,2-Dichlorobenzene	<1 mg/L U	1,2-Dichlorobenzene	<1 mg/L U	1,2-Dichlorobenzene	<0.05 mg/L U
1,3-Dichlorobenzene	<1 mg/L U	1,3-Dichlorobenzene	<1 mg/L U	1,3-Dichlorobenzene	<0.05 mg/L U
1,4-Dichlorobenzene	<1 mg/L U	1,4-Dichlorobenzene	<1 mg/L U	1,4-Dichlorobenzene	<0.05 mg/L U
Dichlorodifluoromethane	<5 mg/L U	Dichlorodifluoromethane	<5 mg/L U	Dichlorodifluoromethane	<0.25 mg/L U
1,1-Dichloroethane	11 mg/L	1,1-Dichloroethane	11 mg/L	1,1-Dichloroethane	<0.05 mg/L U
1,2-Dichloroethane	<1 mg/L U	1,2-Dichloroethane	<1 mg/L U	1,2-Dichloroethane	<0.05 mg/L U
1,1-Dichloroethene	15 mg/L	1,1-Dichloroethene	16 mg/L	1,1-Dichloroethene	<0.05 mg/L U
cis-1,2-Dichloroethene	<1 mg/L U	cis-1,2-Dichloroethene	<1 mg/L U	cis-1,2-Dichloroethene	0.17 mg/L
trans-1,2-Dichloroethene	<1 mg/L U	trans-1,2-Dichloroethene	<1 mg/L U	trans-1,2-Dichloroethene	<0.05 mg/L U
1,2-Dichloropropane	<1 mg/L U	1,2-Dichloropropane	<1 mg/L U	1,2-Dichloropropane	<0.05 mg/L U
cis-1,3-Dichloropropene	<1 mg/L U	cis-1,3-Dichloropropene	<1 mg/L U	cis-1,3-Dichloropropene	<0.05 mg/L U
trans-1,3-Dichloropropene	<1 mg/L U	trans-1,3-Dichloropropene	<1 mg/L U	trans-1,3-Dichloropropene	<0.05 mg/L U
Ethylbenzene	<1 mg/L U	Ethylbenzene	<1 mg/L U	Ethylbenzene	<0.05 mg/L U
Methyl tert-butyl ether	<1 mg/L U	Methyl tert-butyl ether	<1 mg/L U	Methyl tert-butyl ether	<0.05 mg/L U
Methylene chloride	<5 mg/L U	Methylene chloride	<5 mg/L U	Methylene chloride	<0.25 mg/L U
1,1,2,2-Tetrachloroethane	<1 mg/L U	1,1,2,2-Tetrachloroethane	<1 mg/L U	1,1,2,2-Tetrachloroethane	<0.05 mg/L U
Tetrachloroethene	<1 mg/L U	Tetrachloroethene	<1 mg/L U	Tetrachloroethene	<0.05 mg/L U
Toluene	<1 mg/L U	Toluene	<1 mg/L U	Toluene	<0.05 mg/L U
1,1,1-Trichloroethane	43 mg/L	1,1,1-Trichloroethane	47 mg/L	1,1,1-Trichloroethane	0.056 mg/L
1,1,2-Trichloroethane	<1 mg/L U	1,1,2-Trichloroethane	<1 mg/L U	1,1,2-Trichloroethane	<0.05 mg/L U
Trichloroethene	<1 mg/L U	Trichloroethene	<1 mg/L U	Trichloroethene	<0.05 mg/L U
Trichlorofluoromethane	<5 mg/L U	Trichlorofluoromethane	<5 mg/L U	Trichlorofluoromethane	<0.25 mg/L U
Vinyl chloride	<1 mg/L U	Vinyl chloride	<1 mg/L U	Vinyl chloride	<0.05 mg/L U
Total Xylenes	<3 mg/L U	Total Xylenes	<3 mg/L U	Total Xylenes	<0.15 mg/L U
Total:	69.0	Total:	74.0	Total:	.226

Table 2B (cont.)
Summary of Groundwater Analytical Results
 07-Jun-02
 Univar USA Inc. Greensboro, NC

MW-4 PDB		PT-2S		PT-4	
Lab ID: J2201883-012		Lab ID: J2201883-003		Lab ID: J2201883-004	
Sample Date: 6/7/02		Sample Date: 6/7/02		Sample Date: 6/7/02	
Dilution: 50	Depth:	Dilution: 250	Depth:	Dilution: 5	Depth:
Compound	Result	Compound	Result	Compound	Result
Benzene	<0.05 mg/L U	Benzene	<0.25 mg/L U	Benzene	<0.005 mg/L U
Bromodichloromethane	<0.05 mg/L U	Bromodichloromethane	<0.25 mg/L U	Bromodichloromethane	<0.005 mg/L U
Bromoform	<0.05 mg/L U	Bromoform	<0.25 mg/L U	Bromoform	<0.005 mg/L U
Bromomethane	<0.05 mg/L U	Bromomethane	<0.25 mg/L U	Bromomethane	<0.005 mg/L U
Carbon tetrachloride	<0.05 mg/L U	Carbon tetrachloride	<0.25 mg/L U	Carbon tetrachloride	<0.005 mg/L U
Chlorobenzene	<0.05 mg/L U	Chlorobenzene	<0.25 mg/L U	Chlorobenzene	<0.005 mg/L U
Chloroethane	<0.05 mg/L U	Chloroethane	<0.25 mg/L U	Chloroethane	0.016 mg/L
2-Chloroethylvinyl ether	<5 mg/L U	2-Chloroethylvinyl ether	<25 mg/L U	2-Chloroethylvinyl ether	<0.5 mg/L U
Chloroform	<0.05 mg/L U	Chloroform	0.38 mg/L	Chloroform	0.0059 mg/L
Chloromethane	<0.05 mg/L U	Chloromethane	<0.25 mg/L U	Chloromethane	<0.005 mg/L U
Dibromochloromethane	<0.05 mg/L U	Dibromochloromethane	<0.25 mg/L U	Dibromochloromethane	<0.005 mg/L U
1,2-Dichlorobenzene	<0.05 mg/L U	1,2-Dichlorobenzene	<0.25 mg/L U	1,2-Dichlorobenzene	<0.005 mg/L U
1,3-Dichlorobenzene	<0.05 mg/L U	1,3-Dichlorobenzene	<0.25 mg/L U	1,3-Dichlorobenzene	<0.005 mg/L U
1,4-Dichlorobenzene	<0.05 mg/L U	1,4-Dichlorobenzene	<0.25 mg/L U	1,4-Dichlorobenzene	<0.005 mg/L U
Dichlorodifluoromethane	<0.25 mg/L U	Dichlorodifluoromethane	<1.2 mg/L U	Dichlorodifluoromethane	<0.025 mg/L U
1,1-Dichloroethane	<0.05 mg/L U	1,1-Dichloroethane	<0.25 mg/L U	1,1-Dichloroethane	0.0076 mg/L
1,2-Dichloroethane	<0.05 mg/L U	1,2-Dichloroethane	<0.25 mg/L U	1,2-Dichloroethane	<0.005 mg/L U
1,1-Dichloroethene	<0.05 mg/L U	1,1-Dichloroethene	<0.25 mg/L U	1,1-Dichloroethene	<0.005 mg/L U
cis-1,2-Dichloroethene	0.13 mg/L	cis-1,2-Dichloroethene	9.1 mg/L	cis-1,2-Dichloroethene	0.081 mg/L
trans-1,2-Dichloroethene	<0.05 mg/L U	trans-1,2-Dichloroethene	0.72 mg/L	trans-1,2-Dichloroethene	<0.005 mg/L U
1,2-Dichloropropane	<0.05 mg/L U	1,2-Dichloropropane	<0.25 mg/L U	1,2-Dichloropropane	0.0073 mg/L
cis-1,3-Dichloropropene	<0.05 mg/L U	cis-1,3-Dichloropropene	<0.25 mg/L U	cis-1,3-Dichloropropene	<0.005 mg/L U
trans-1,3-Dichloropropene	<0.05 mg/L U	trans-1,3-Dichloropropene	<0.25 mg/L U	trans-1,3-Dichloropropene	<0.005 mg/L U
Ethylbenzene	<0.05 mg/L U	Ethylbenzene	<0.25 mg/L U	Ethylbenzene	<0.005 mg/L U
Methyl tert-butyl ether	<0.05 mg/L U	Methyl tert-butyl ether	<0.25 mg/L U	Methyl tert-butyl ether	<0.005 mg/L U
Methylene chloride	<0.25 mg/L U	Methylene chloride	<1.2 mg/L U	Methylene chloride	<0.025 mg/L U
1,1,2,2-Tetrachloroethane	<0.05 mg/L U	1,1,2,2-Tetrachloroethane	<0.25 mg/L U	1,1,2,2-Tetrachloroethane	<0.005 mg/L U
Tetrachloroethene	<0.05 mg/L U	Tetrachloroethene	<0.25 mg/L U	Tetrachloroethene	0.22 mg/L
Toluene	<0.05 mg/L U	Toluene	<0.25 mg/L U	Toluene	<0.005 mg/L U
1,1,1-Trichloroethane	0.059 mg/L	1,1,1-Trichloroethane	<0.25 mg/L U	1,1,1-Trichloroethane	0.016 mg/L
1,1,2-Trichloroethane	<0.05 mg/L U	1,1,2-Trichloroethane	<0.25 mg/L U	1,1,2-Trichloroethane	<0.005 mg/L U
Trichloroethene	<0.05 mg/L U	Trichloroethene	<0.25 mg/L U	Trichloroethene	0.13 mg/L
Trichlorofluoromethane	<0.25 mg/L U	Trichlorofluoromethane	<1.2 mg/L U	Trichlorofluoromethane	<0.025 mg/L U
Vinyl chloride	<0.05 mg/L U	Vinyl chloride	14 mg/L	Vinyl chloride	0.013 mg/L
Total Xylenes	<0.15 mg/L U	Total Xylenes	<0.75 mg/L U	Total Xylenes	<0.015 mg/L U
Total:	.189	Total:	24.2	Total:	.497

Table 2B (cont.)
Summary of Groundwater Analytical Results
07-Jun-02
Univar USA Inc., Greensboro, NC

PT-5		PT-5 (Dup)		Equipment Blank	
Lab ID: J2201883-005		Lab ID: J2201883-007		Lab ID: J2201883-006	
Sample Date: 6/7/02		Sample Date: 6/7/02		Sample Date: 6/7/02	
Dilution: 500	Depth:	Dilution: 500	Depth:	Dilution: 1	Depth:
Compound	Result	Compound	Result	Compound	Result
Benzene	<0.5 mg/L U	Benzene	<0.5 mg/L U	Benzene	<0.001 mg/L U
Bromodichloromethane	<0.5 mg/L U	Bromodichloromethane	<0.5 mg/L U	Bromodichloromethane	<0.001 mg/L U
Bromoform	<0.5 mg/L U	Bromoform	<0.5 mg/L U	Bromoform	<0.001 mg/L U
Bromomethane	<0.5 mg/L U	Bromomethane	<0.5 mg/L U	Bromomethane	<0.001 mg/L U
Carbon tetrachloride	<0.5 mg/L U	Carbon tetrachloride	<0.5 mg/L U	Carbon tetrachloride	<0.001 mg/L U
Chlorobenzene	<0.5 mg/L U	Chlorobenzene	<0.5 mg/L U	Chlorobenzene	<0.001 mg/L U
Chloroethane	<0.5 mg/L U	Chloroethane	<0.5 mg/L U	Chloroethane	<0.001 mg/L U
2-Chloroethylvinyl ether	<50 mg/L U	2-Chloroethylvinyl ether	<50 mg/L U	2-Chloroethylvinyl ether	<0.1 mg/L U
Chloroform	0.75 mg/L	Chloroform	0.89 mg/L	Chloroform	0.0011 mg/L
Chloromethane	<0.5 mg/L U	Chloromethane	<0.5 mg/L U	Chloromethane	<0.001 mg/L U
Dibromochloromethane	<0.5 mg/L U	Dibromochloromethane	<0.5 mg/L U	Dibromochloromethane	<0.001 mg/L U
1,2-Dichlorobenzene	<0.5 mg/L U	1,2-Dichlorobenzene	<0.5 mg/L U	1,2-Dichlorobenzene	<0.001 mg/L U
1,3-Dichlorobenzene	<0.5 mg/L U	1,3-Dichlorobenzene	<0.5 mg/L U	1,3-Dichlorobenzene	<0.001 mg/L U
1,4-Dichlorobenzene	<0.5 mg/L U	1,4-Dichlorobenzene	<0.5 mg/L U	1,4-Dichlorobenzene	<0.001 mg/L U
Dichlorodifluoromethane	<2.5 mg/L U	Dichlorodifluoromethane	<2.5 mg/L U	Dichlorodifluoromethane	<0.005 mg/L U
1,1-Dichloroethane	2.6 mg/L	1,1-Dichloroethane	2.6 mg/L	1,1-Dichloroethane	<0.001 mg/L U
1,2-Dichloroethane	<0.5 mg/L U	1,2-Dichloroethane	<0.5 mg/L U	1,2-Dichloroethane	<0.001 mg/L U
1,1-Dichloroethene	6.3 mg/L	1,1-Dichloroethene	5.7 mg/L	1,1-Dichloroethene	<0.001 mg/L U
cis-1,2-Dichloroethene	10 mg/L	cis-1,2-Dichloroethene	9.5 mg/L	cis-1,2-Dichloroethene	<0.001 mg/L U
trans-1,2-Dichloroethene	<0.5 mg/L U	trans-1,2-Dichloroethene	<0.5 mg/L U	trans-1,2-Dichloroethene	<0.001 mg/L U
1,2-Dichloropropane	1.3 mg/L	1,2-Dichloropropane	1.1 mg/L	1,2-Dichloropropane	<0.001 mg/L U
cis-1,3-Dichloropropene	<0.5 mg/L U	cis-1,3-Dichloropropene	<0.5 mg/L U	cis-1,3-Dichloropropene	<0.001 mg/L U
trans-1,3-Dichloropropene	<0.5 mg/L U	trans-1,3-Dichloropropene	<0.5 mg/L U	trans-1,3-Dichloropropene	<0.001 mg/L U
Ethylbenzene	<0.5 mg/L U	Ethylbenzene	<0.5 mg/L U	Ethylbenzene	<0.001 mg/L U
Methyl tert-butyl ether	<0.5 mg/L U	Methyl tert-butyl ether	<0.5 mg/L U	Methyl tert-butyl ether	<0.001 mg/L U
Methylene chloride	<2.5 mg/L U	Methylene chloride	<2.5 mg/L U	Methylene chloride	<0.005 mg/L U
1,1,2,2-Tetrachloroethane	<0.5 mg/L U	1,1,2,2-Tetrachloroethane	<0.5 mg/L U	1,1,2,2-Tetrachloroethane	<0.001 mg/L U
Tetrachloroethene	1.9 mg/L	Tetrachloroethene	1.7 mg/L	Tetrachloroethene	<0.001 mg/L U
Toluene	<0.5 mg/L U	Toluene	<0.5 mg/L U	Toluene	<0.001 mg/L U
1,1,1-Trichloroethane	2.3 mg/L	1,1,1-Trichloroethane	2.5 mg/L	1,1,1-Trichloroethane	<0.001 mg/L U
1,1,2-Trichloroethane	<0.5 mg/L U	1,1,2-Trichloroethane	<0.5 mg/L U	1,1,2-Trichloroethane	<0.001 mg/L U
Trichloroethene	7.8 mg/L	Trichloroethene	7.5 mg/L	Trichloroethene	<0.001 mg/L U
Trichlorofluoromethane	<2.5 mg/L U	Trichlorofluoromethane	<2.5 mg/L U	Trichlorofluoromethane	<0.005 mg/L U
Vinyl chloride	<0.5 mg/L U	Vinyl chloride	<0.5 mg/L U	Vinyl chloride	<0.001 mg/L U
Total Xylenes	<1.5 mg/L U	Total Xylenes	<1.5 mg/L U	Total Xylenes	<0.003 mg/L U
Total:	33.0	Total:	31.5	Total:	.001

Table 28 (cont.)
Summary of Groundwater Analytical Results
 07-Jun-02
 Univar USA Inc. Greensboro, NC

Trip Blank		Method Blank	
Lab ID: J2201883-013		Lab ID: GC532F13-MB	
Sample Date: 6/7/02		Sample Date: 6/7/02	
Dilution: 1	Depth:	Dilution: 1	Depth:
Compound	Result	Compound	Result
Benzene	<0.001 mg/L U	Benzene	<0.001 mg/L U
Bromodichloromethane	<0.001 mg/L U	Bromodichloromethane	<0.001 mg/L U
Bromoform	<0.001 mg/L U	Bromoform	<0.001 mg/L U
Bromomethane	<0.001 mg/L U	Bromomethane	<0.001 mg/L U
Carbon tetrachloride	<0.001 mg/L U	Carbon tetrachloride	<0.001 mg/L U
Chlorobenzene	<0.001 mg/L U	Chlorobenzene	<0.001 mg/L U
Chloroethane	<0.001 mg/L U	Chloroethane	<0.001 mg/L U
2-Chloroethylvinyl ether	<0.1 mg/L U	2-Chloroethylvinyl ether	<0.1 mg/L U
Chloroform	<0.001 mg/L U	Chloroform	<0.001 mg/L U
Chloromethane	<0.001 mg/L U	Chloromethane	<0.001 mg/L U
Dibromochloromethane	<0.001 mg/L U	Dibromochloromethane	<0.001 mg/L U
1,2-Dichlorobenzene	<0.001 mg/L U	1,2-Dichlorobenzene	<0.001 mg/L U
1,3-Dichlorobenzene	<0.001 mg/L U	1,3-Dichlorobenzene	<0.001 mg/L U
1,4-Dichlorobenzene	<0.001 mg/L U	1,4-Dichlorobenzene	<0.001 mg/L U
Dichlorodifluoromethane	<0.005 mg/L U	Dichlorodifluoromethane	<0.005 mg/L U
1,1-Dichloroethane	<0.001 mg/L U	1,1-Dichloroethane	<0.001 mg/L U
1,2-Dichloroethane	<0.001 mg/L U	1,2-Dichloroethane	<0.001 mg/L U
1,1-Dichloroethene	<0.001 mg/L U	1,1-Dichloroethene	<0.001 mg/L U
cis-1,2-Dichloroethene	<0.001 mg/L U	cis-1,2-Dichloroethene	<0.001 mg/L U
trans-1,2-Dichloroethene	<0.001 mg/L U	trans-1,2-Dichloroethene	<0.001 mg/L U
1,2-Dichloropropane	<0.001 mg/L U	1,2-Dichloropropane	<0.001 mg/L U
cis-1,3-Dichloropropene	<0.001 mg/L U	cis-1,3-Dichloropropene	<0.001 mg/L U
trans-1,3-Dichloropropene	<0.001 mg/L U	trans-1,3-Dichloropropene	<0.001 mg/L U
Ethylbenzene	<0.001 mg/L U	Ethylbenzene	<0.001 mg/L U
Methyl tert-butyl ether	<0.001 mg/L U	Methyl tert-butyl ether	<0.001 mg/L U
Methylene chloride	<0.005 mg/L U	Methylene chloride	<0.005 mg/L U
1,1,2,2-Tetrachloroethane	<0.001 mg/L U	1,1,2,2-Tetrachloroethane	<0.001 mg/L U
Tetrachloroethene	<0.001 mg/L U	Tetrachloroethene	<0.001 mg/L U
Toluene	<0.001 mg/L U	Toluene	<0.001 mg/L U
1,1,1-Trichloroethane	<0.001 mg/L U	1,1,1-Trichloroethane	<0.001 mg/L U
1,1,2-Trichloroethane	<0.001 mg/L U	1,1,2-Trichloroethane	<0.001 mg/L U
Trichloroethene	<0.001 mg/L U	Trichloroethene	<0.001 mg/L U
Trichlorofluoromethane	<0.005 mg/L U	Trichlorofluoromethane	<0.005 mg/L U
Vinyl chloride	<0.001 mg/L U	Vinyl chloride	<0.001 mg/L U
Total Xylenes	<0.003 mg/L U	Total Xylenes	<0.003 mg/L U
Total:	ND	Total:	ND

Table 2B (cont.)

Summary of Groundwater Analytical Results

07-Jun-02

Univar USA Inc. Greensboro, NC

Standard Qualifiers

U - Undetected at or below MDL

B - Detected in laboratory blank

E - Estimated value

J - Estimated value below MDL

N - Spiked sample recovery not within
control limits

Detections in bold

Tentatively identified compounds italicized

Footnotes

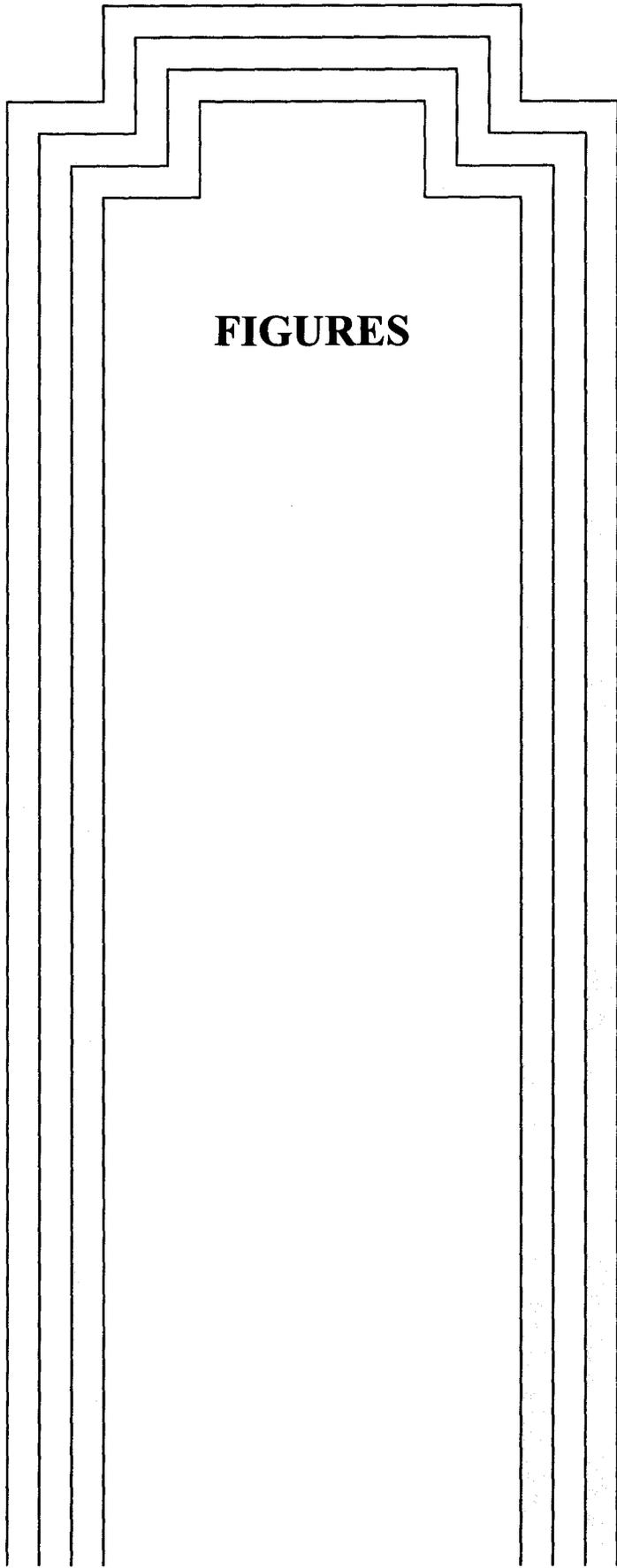
D Result is from analysis of a diluted sample

Table 3

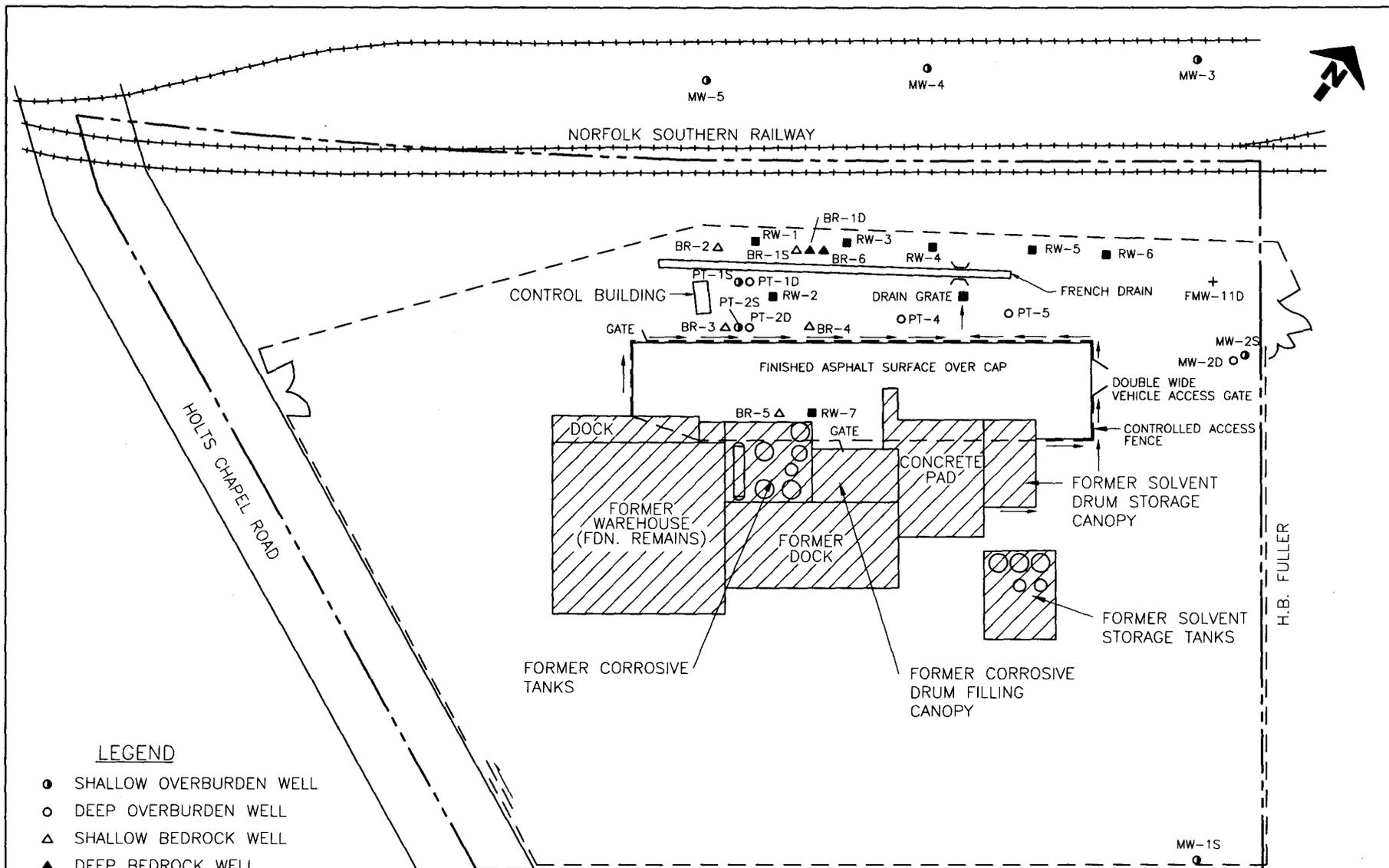
**PDB and Duplicate Analysis Comparison
Univar USA Inc.
Greensboro, NC**

Sample Identification	Concentrations ⁽¹⁾	Difference (%) ⁽²⁾
MW-2S	69 mg/L	-7.2
MW-2S PDB	74 mg/L	
MW-4	0.23 mg/L	17.4
MW-4 PDB	0.19 mg/L	
PT-5	33.0 mg/L	4.6
PT-5 (Dup)	31.5 mg/L	

1. Concentrations of total VOCs in milligrams per liter (mg/L).
2. Relative % difference expressed as original sample concentration less duplicate sample concentration divided by original, then multiplied by 100.

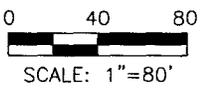


FIGURES



LEGEND

- SHALLOW OVBURDEN WELL
- DEEP OVBURDEN WELL
- △ SHALLOW BEDROCK WELL
- ▲ DEEP BEDROCK WELL
- RECOVERY WELL
- ▨ FORMER STRUCTURE
- SURFACE WATER DRAINAGE PATHWAY
- + H.B.FULLER MONITORING WELL (LOCATION APPROXIMATE)

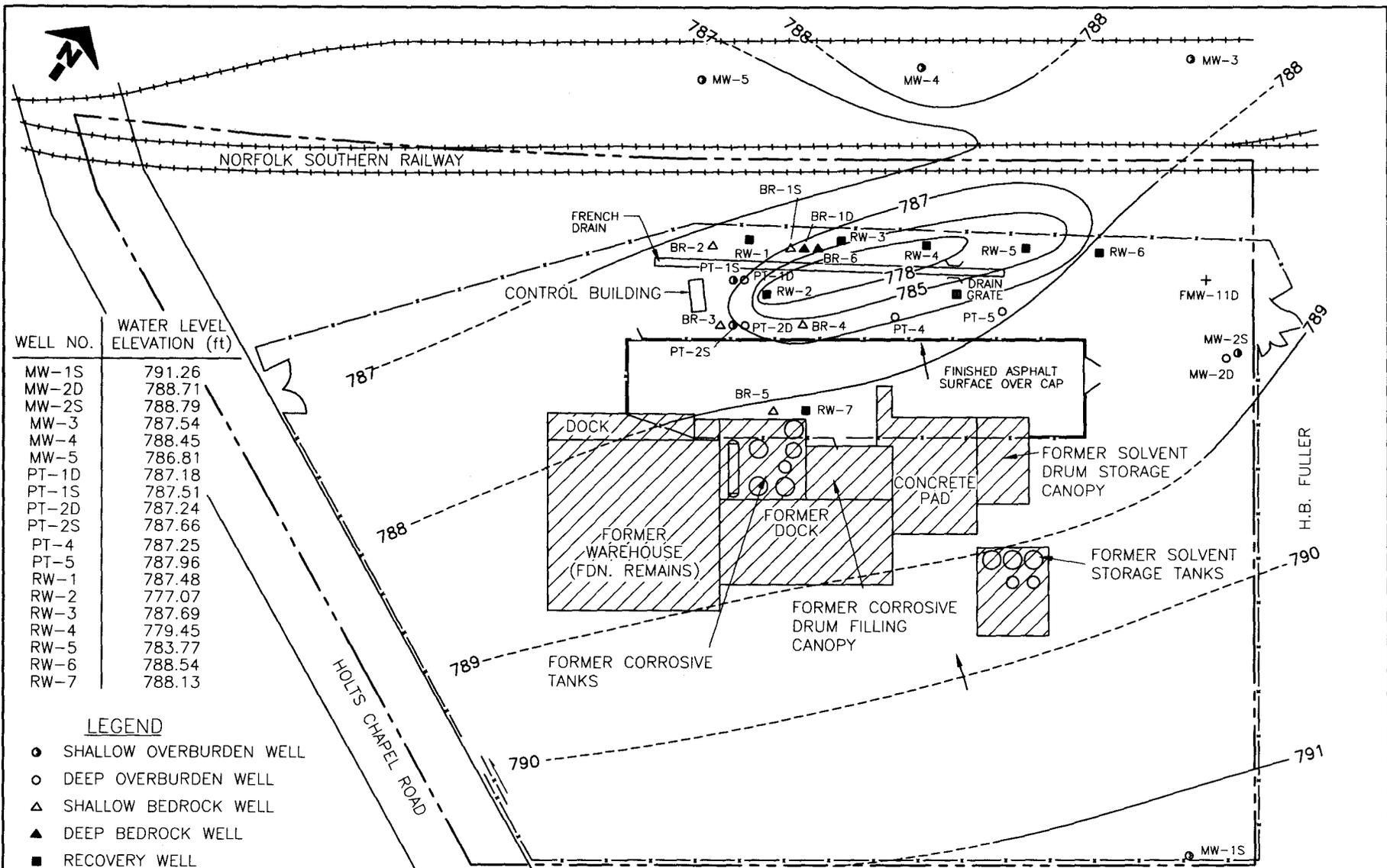



BASCOR Environmental, Inc.
 consulting engineers and scientists
 800 W. Central Rd.
 Suite 104N
 Mt. Prospect, IL 60058
 (847) 577-1980

Univar USA Inc.
 HOLTS CHAPEL RD. GREENSBORO, N.C.

PRESENT SITE CONFIGURATION AND WELL LOCATIONS

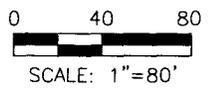
DRAWN	S.WHITNEY	CHECKED	R.SENN	APPROVED	S.SENN	DATE	7-24-02
FILENAME:	C:\... \VW92017\BASEMAP.DWG			REFERENCE FILES:	NONE		
						FIGURE	1



WELL NO.	WATER LEVEL ELEVATION (ft)
MW-1S	791.26
MW-2D	788.71
MW-2S	788.79
MW-3	787.54
MW-4	788.45
MW-5	786.81
PT-1D	787.18
PT-1S	787.51
PT-2D	787.24
PT-2S	787.66
PT-4	787.25
PT-5	787.96
RW-1	787.48
RW-2	777.07
RW-3	787.69
RW-4	779.45
RW-5	783.77
RW-6	788.54
RW-7	788.13

LEGEND

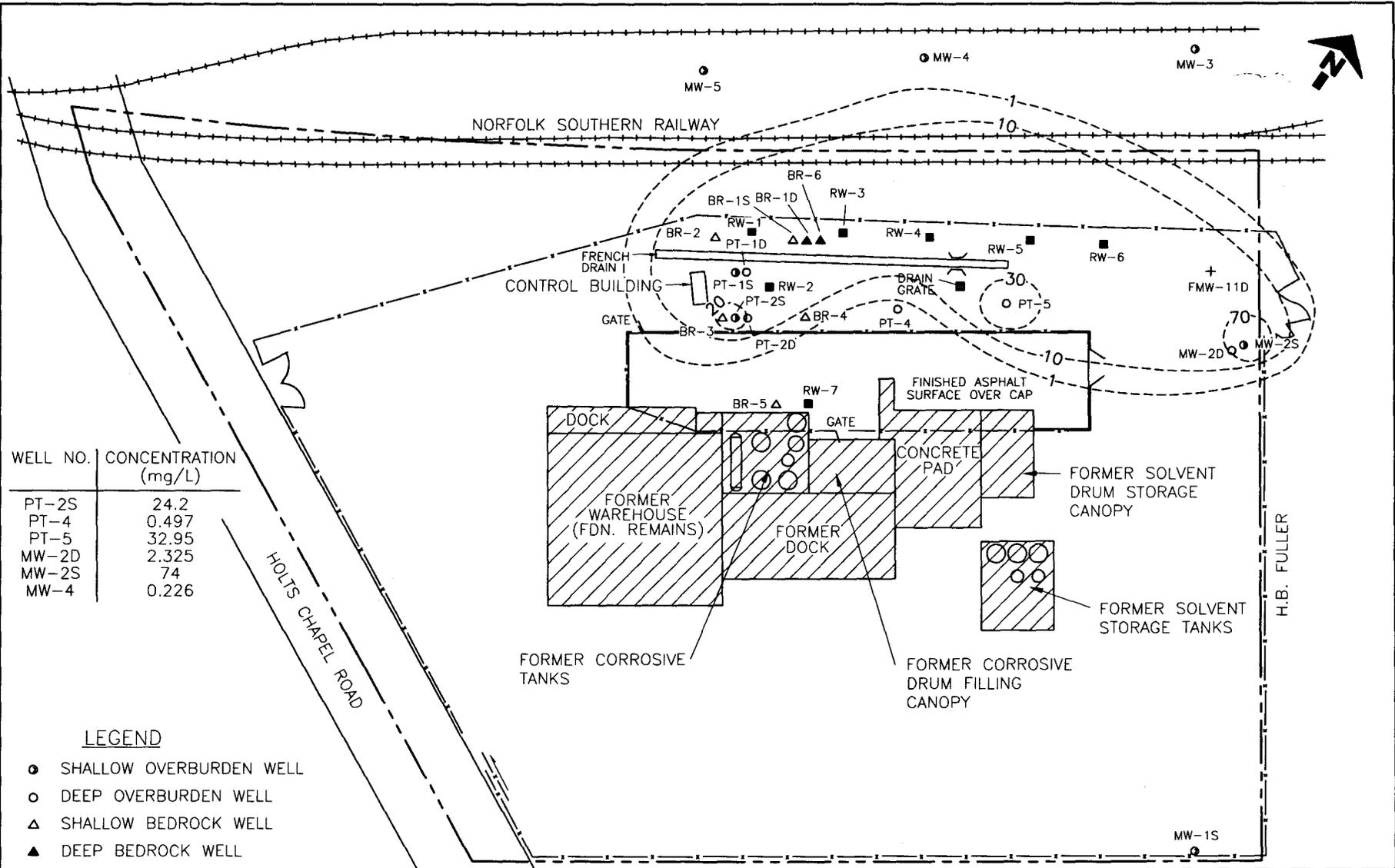
- SHALLOW OVERBURDEN WELL
- DEEP OVERBURDEN WELL
- △ SHALLOW BEDROCK WELL
- ▲ DEEP BEDROCK WELL
- RECOVERY WELL
- ▨ FORMER STRUCTURE
- 790 WATER LEVEL ELEVATION (ft. MSL)
- + H.B.FULLER MONITORING WELL (LOCATION APPROXIMATE)
- ↗ GROUNDWATER FLOW DIRECTION



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 800 W. Central Rd.
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Univar USA Inc.
 HOLTS CHAPEL RD. GREENSBORO, N.C.

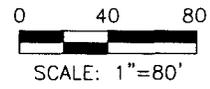
WATER TABLE CONFIGURATION			
June 7, 2002			
DRAWN S. WHITNEY	CHECKED J. BLACKBURN	APPROVED R. SENN	DATE 7-24-02
FILENAME: C:\... \VW92017\JUN02WL.DWG	REFERENCE FILES: NONE	FIGURE	2



WELL NO.	CONCENTRATION (mg/L)
PT-2S	24.2
PT-4	0.497
PT-5	32.95
MW-2D	2.325
MW-2S	74
MW-4	0.226

LEGEND

- SHALLOW OVERBURDEN WELL
- DEEP OVERBURDEN WELL
- △ SHALLOW BEDROCK WELL
- ▲ DEEP BEDROCK WELL
- RECOVERY WELL
- ▨ FORMER STRUCTURE (DEMOLISHED DURING FALL 1990)
- 1 TOTAL VOC ISOCONCENTRATION (mg/L)
- + H.B.FULLER MONITORING WELL (LOCATION APPROXIMATE)



 BASCOR Environmental, Inc. consulting engineers and scientists 800 W. Central Rd. Suite 104N Mt. Prospect, IL 60066 (847) 577-1980		Univar USA Inc. HOLTS CHAPEL RD. GREENSBORO, N.C.					
		TOTAL OVERBURDEN VOC ISOCONCENTRATIONS June 7, 2002					
DRAWN	S.WHITNEY	CHECKED	J.BLACKBURN	APPROVED	R.SENN	DATE	7-24-02
FILENAME:	C:\...VW92017\JUN02VOC.DWG			REFERENCE FILES:	NONE		
						FIGURE	3

Time/Concentration Plot of Total VOCs - Bedrock Monitoring Wells

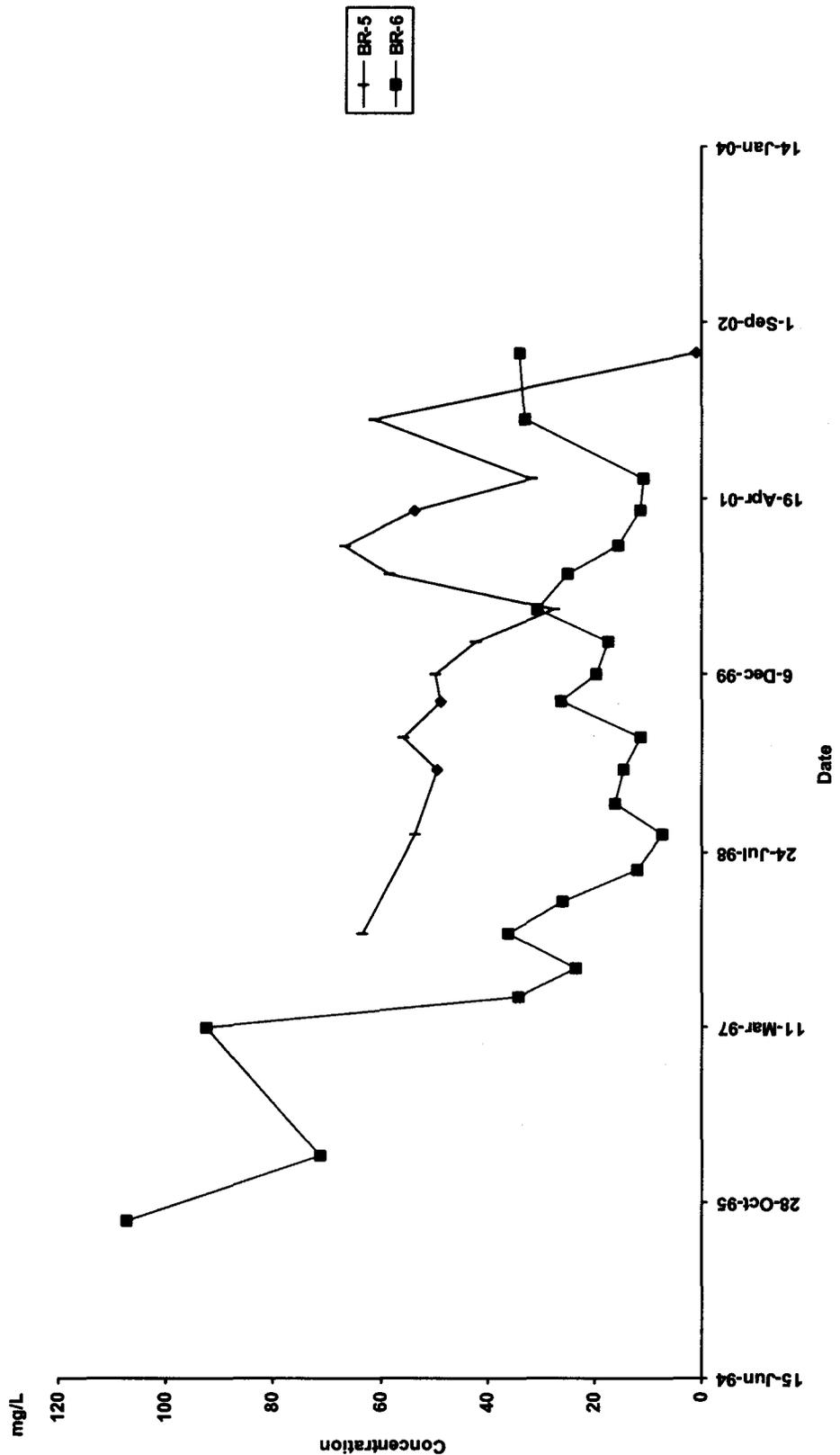
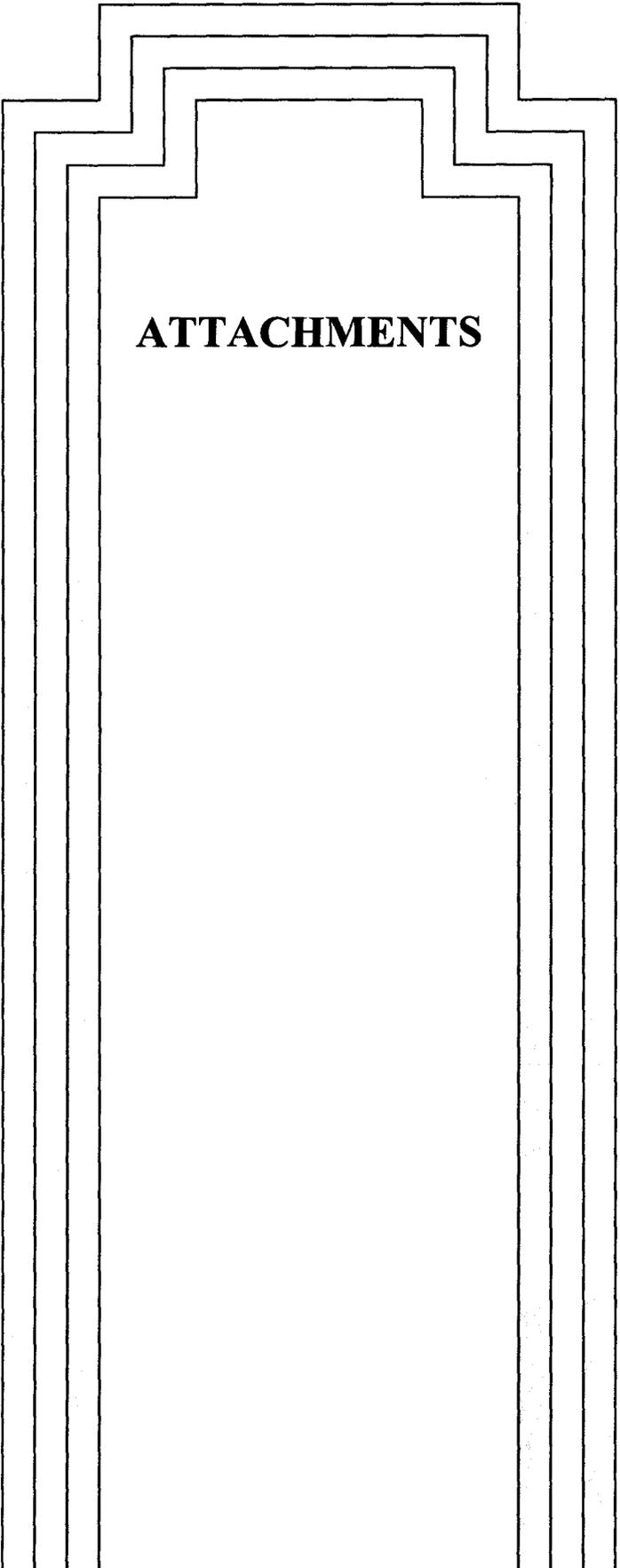
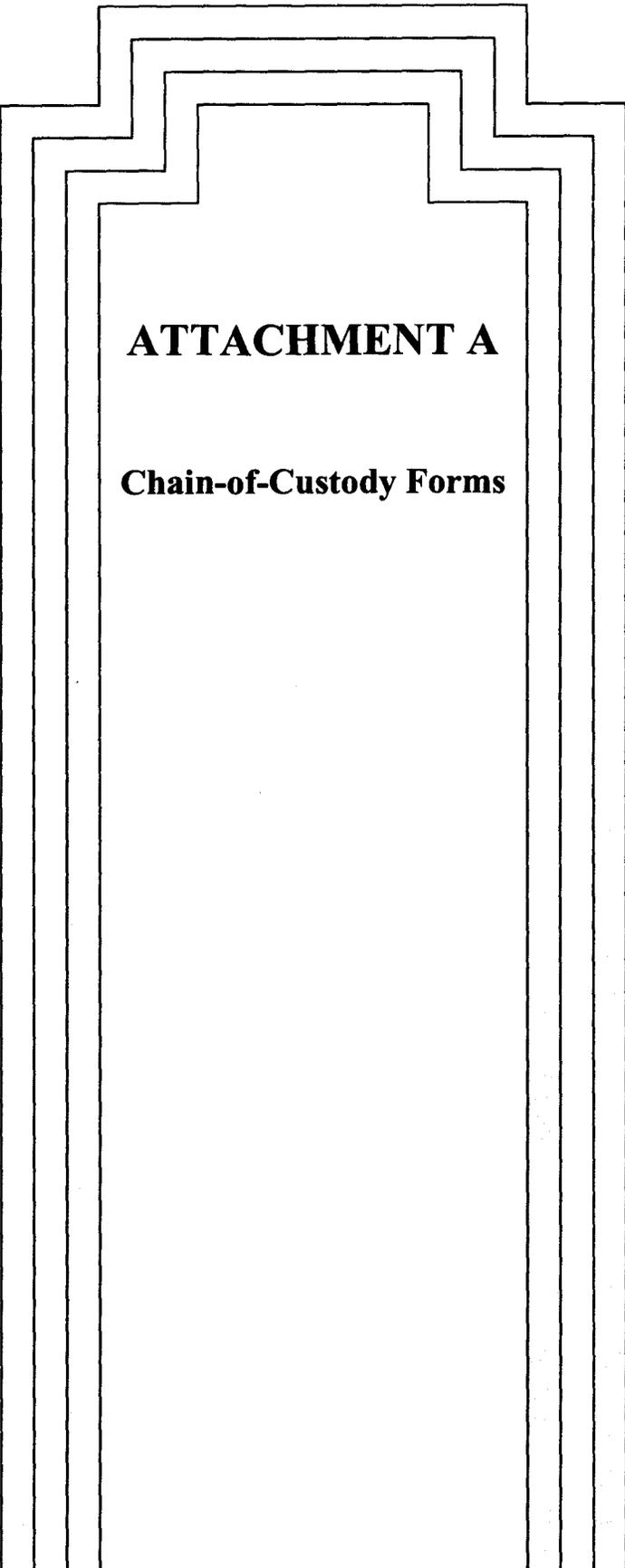


Figure 5



ATTACHMENTS



ATTACHMENT A

Chain-of-Custody Forms



Van Waters & Rogers

VW&R Environmental Affairs:
Tel 425/889-3715 Fax 425/889-4133

VW&R Chain of Custody/Laboratory Analysis Rex

Bill to: Anita Ford
Van Waters & Rogers Inc.
PO Box 34325
Seattle, WA 98124-1325

J2201883 ² of 2

Lab No: Columbia Analytical Services
Address: 8540 Baycenter Rd
Jacksonville, FL 32256
Telephone: 904-739-0277

VW&R Project Site/Manager: Greensboro, NC / Mike Grandtch
Contractor Project Manager: Randy Senn
Firm: PARCOR Environmental, Inc
Address: 809 W. Central Rd 1000
Mt. Prospect, IL 60056
Tel: 847-577-1980
Sampler's Signature: [Signature]

NUMBER OF CONTAINERS	VOC	1																		

REMARKS:

ID	DATE	TIME	TYPE	CONTAINERS	TESTS
BR-5	4/2/02	1350	water	3	+
BR-6	4/2/02	1340	water	3	+
PT-25	4/2/02	1355	water	3	+
PT-4	4/7/02	1320	water	3	+
PT-5	4/7/02	1300	water	3	+
EB	4/7/02	1235	water	3	+
PT-5 FD	4/7/02	1320	water	3	+
MW-2D	4/7/02	1220	water	3	+
MW-2S	4/7/02	1205	water	3	+
MW-2S PDB	4/7/02	1120	water	3	+

Relinquished by/date: [Signature]
Received by/date: April 11 Ferguson 4/11/02
Relinquished by/date: /
Received by/date: /
Relinquished by/date: /
Received by/date: /
Relinquished by/date: /
Received by/date: /

9³⁴ Invoice Instructions - VW&R to provide to Sampler
(Circle code. If multiple codes apply, note in Remarks)

Soil Investigation/Remediation	035, 133 or 058, 156
Water Investigation/Remediation	047, 145 or 165, 167
Air-Soil Investigation or Remediation	034 or 057
Waste	171

SPECIAL INSTRUCTIONS & COMMENTS:

c3/n0
2.8°C

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report
//Requested Report Date: _____
TURNAROUND TIME: _____ 24 hr _____ 48 hr _____ 5 day Standard (7-10 working days) _____ Provide Verbal Prelim. Results _____ Fax Prelim. Results



Van Waters & Rogers
VW&R Environmental Affairs:
Tel 425/889-3715 Fax 425/889-4133

Bill to: Anita Ford
Van Waters & Rogers Inc.
PO Box 34325
Seattle, WA 98124-1325

Lab Name: Columbia Analytical Services
Address: 8540 Brycen Rd
Jacksonville, FL 32256
Telephone: 904-239-2277

VW&R Project Site/Manager: Greensboro, NC / Mike Gardette
Contractor Project Manager: Randy Sina
Firm: BASCO Environmental Inc
Address: 800 W. Central Rd NW
W. Prospects, IA 50056
Tel: 847-572-1980
Sampler's Signature: [Signature]

NUMBER OF CONTAINERS	VOC 601/107																				

REMARKS:

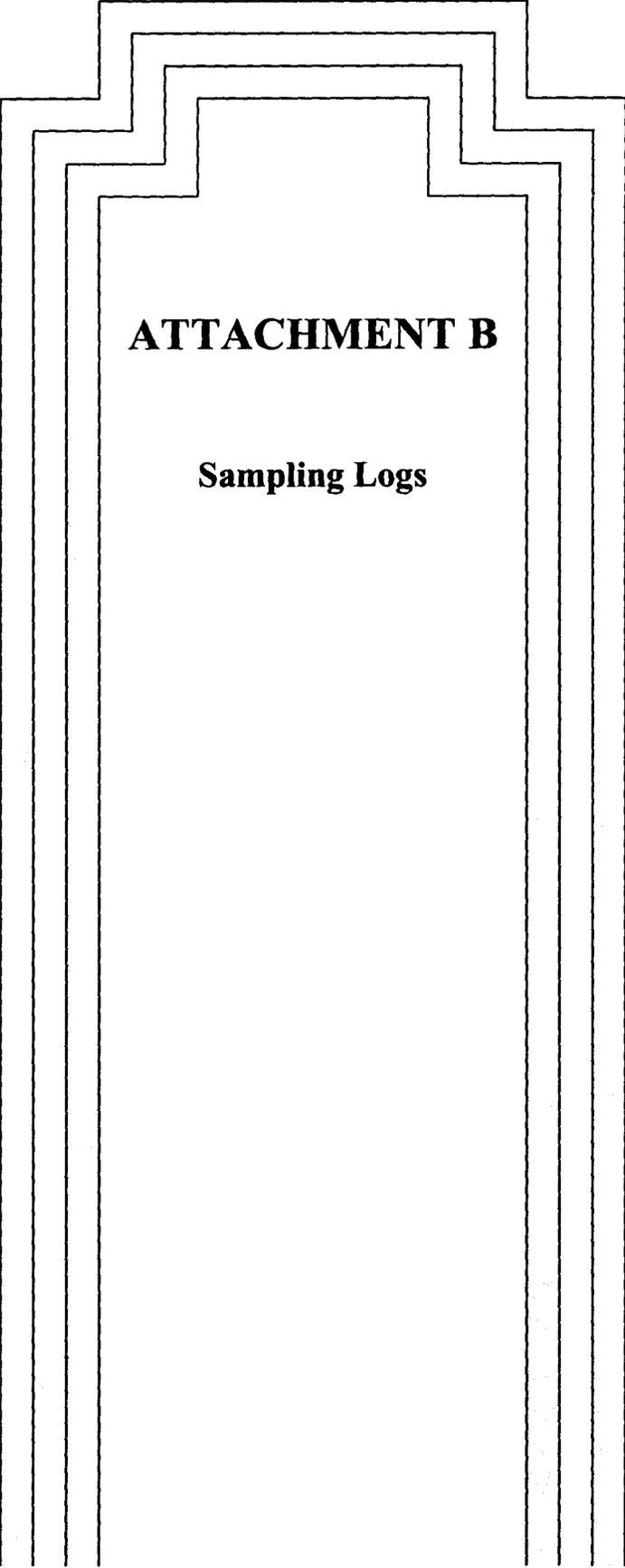
MW-4	4/7/02	1140	water	3	+
MW-4 PPA	4/7/02	1120	water	3	+
TB	4/7/02		water	3	+

Relinquished by/date: [Signature]
Received by/date: [Signature]
Relinquished by/date: /
Received by/date: /
Relinquished by/date: /
Received by/date: /
Relinquished by/date: /
Received by/date: /

920 Invoice Instructions - VW&R to provide to Sampler
(Circle code. If multiple codes apply, note in Remarks)
Soil Investigation/Remediation 035, 133 or 058, 156
Water Investigation/Remediation 047, 145 or 165, 167
Air-Soil Investigation or Remediation 034 or 057
Waste 171

SPECIAL INSTRUCTIONS & COMMENTS:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report
//Requested Report Date: _____
TURNAROUND TIME: _____ 24 hr _____ 48 hr _____ 5 day X Standard (7-10 working days) _____ Provide Verbal Prelim. Results _____ Fax Prelim. Results



ATTACHMENT B

Sampling Logs

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	MW-3
Date	5/1/02
Time Sampling Began	11:00
Time Sampling Completed	11:15

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	
Total Sounded Depth of Well Below MP	19.40	Water Level Elevation	
Held <input type="checkbox"/>	Depth to Water Below MP	Diameter of Casing	2"
Wet <input type="checkbox"/>	Water Column in Well	Gallons Pumped/Bailed <small>(prior to sampling)</small>	2.5
	Gallons per Foot	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
	Gallons in Well		
	Evacuation Method	Disposable bailer and poly rope	

SAMPLING DATA / FIELD PARAMETERS

Temperature		pH	
Specific Conductance mS/cm			
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	No	Odor	No
Sampling Method and Material	Disposable bailer and poly rope		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	No field measurements
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/2" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 3/4" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	MW-4 PDB
Date	5/1/02
Time Sampling Began	11:15
Time Sampling Completed	11:20

EVACUATION DATA

Description of Measuring Point (MP)		North side top of casing	
Height of MP Above/Below Land Surface		MP Elevation	
Total Sounded Depth of Well Below MP	25.50	Water Level Elevation	
Held <input type="checkbox"/>	Depth to Water Below MP	Diameter of Casing	2"
Wet <input type="checkbox"/>	Water Column in Well	Gallons Pumped/Bailed <small>(prior to sampling)</small>	
	Gallons per Foot	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
	Gallons in Well		
	Evacuation Method		N/A

SAMPLING DATA / FIELD PARAMETERS

Temperature		pH	
Specific Conductance mS/cm			
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	No	Odor	No
Sampling Method and Material	PDB sampler		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	PDB, No field measurements
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	MW-5
Date	5/1/02
Time Sampling Began	10:45
Time Sampling Completed	11:00

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	
Total Sounded Depth of Well Below MP	23.40	Water Level Elevation	
Held <input type="checkbox"/> Depth to Water Below MP	14.58	Diameter of Casing	2"
Wet <input type="checkbox"/> Water Column in Well	8.82	Gallons Pumped/Bailed <small>(prior to sampling)</small>	4.5
Gallons per Foot	0.16	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
Gallons in Well	1.41		
Evacuation Method	Disposable bailer and poly rope		

SAMPLING DATA / FIELD PARAMETERS

Temperature		pH	
Specific Conductance mS/cm			
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	Low turb		
Color	No	Odor	No
Sampling Method and Material	Disposable bailer and poly rope		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	No field measurements collected
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/2" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	MW-2D
Date	6/7/02
Time Sampling Began	1205
Time Sampling Completed	1220

EVACUATION DATA

Description of Measuring Point (MP)		North side top of casing	
Height of MP Above/Below Land Surface		MP Elevation	803.18
Total Sounded Depth of Well Below MP	26.40	Water Level Elevation	788.71
Held <input type="checkbox"/>	Depth to Water Below MP	Diameter of Casing	2"
Wet <input type="checkbox"/>	Water Column in Well	Gallons Pumped/Bailed <small>(prior to sampling)</small>	6.0
	Gallons per Foot	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
	Gallons in Well		
	Evacuation Method	Disposable bailer and poly rope	

SAMPLING DATA / FIELD PARAMETERS

Temperature	18.3 C	pH	5.85
Specific Conductance mS/cm	200.6		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	no	Odor	No
Sampling Method and Material	Disposable bailer and poly rope		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	MW-2S PDB
Date	6/7/02
Time Sampling Began	1155
Time Sampling Completed	1205

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	802.58
Total Sounded Depth of Well Below MP	16.30	Water Level Elevation	788.79
Held <input type="checkbox"/> Depth to Water Below MP	13.79	Diameter of Casing	2"
Wet <input type="checkbox"/> Water Column in Well	2.51	Gallons Pumped/Bailed <small>(prior to sampling)</small>	1.2
Gallons per Foot	0.16	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
Gallons in Well	0.4		
Evacuation Method	Disposable bailer and poly rope		

SAMPLING DATA / FIELD PARAMETERS

Temperature	17.7 C / 17.6 C	pH	5.01 / 5.09
Specific Conductance mS/cm	12 / 769		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	No	Odor	No
Sampling Method and Material	Passive diffusion bag and disposable bailer and poly rope.		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	Field data expressed as PDB / Bail. PDB collected at 1150
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	MW-4 PDB
Date	6/7/02
Time Sampling Began	1125
Time Sampling Completed	11140

EVACUATION DATA

Description of Measuring Point (MP)		North side top of casing	
Height of MP Above/Below Land Surface		MP Elevation	803.75
Total Sounded Depth of Well Below MP	25.50	Water Level Elevation	788.45
Held <input type="checkbox"/> Depth to Water Below MP	15.30	Diameter of Casing	2"
Wet <input type="checkbox"/> Water Column in Well	10.20	Gallons Pumped/Bailed <small>(prior to sampling)</small>	5.0
Gallons per Foot	0.16	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
Gallons in Well	1.6		
Evacuation Method	Disposable bailer and poly rope		

SAMPLING DATA / FIELD PARAMETERS

Temperature	18.1 C	pH	6.75
Specific Conductance mS/cm	395.2		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	Np	Odor	No
Sampling Method and Material	Passive diffusion bag and disposable bailer and poly rope		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	PDB collected at 1120
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1½" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1½" = 0.09	2½" = 0.26	3½" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	PT-2S
Date	6/7/02
Time Sampling Began	1325
Time Sampling Completed	1335

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	802.73
Total Sounded Depth of Well Below MP	16.40	Water Level Elevation	787.66
Held <input type="checkbox"/> Depth to Water Below MP	15.07	Diameter of Casing	2"
Wet <input type="checkbox"/> Water Column in Well	1.33	Gallons Pumped/Bailed <small>(prior to sampling)</small>	0.6
Gallons per Foot	0.16	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
Gallons in Well	0.2		
Evacuation Method	Disposable bailer and poly rope		

SAMPLING DATA / FIELD PARAMETERS

Temperature	17.9 C	pH	5.82
Specific Conductance mS/cm	425.3		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	No / yellow	Odor	No
Sampling Method and Material	Disposable bailer and poly rope / Passive diffusion bag		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	Insufficient water column for PDB collection, sampled with bailer
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/2" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 3/4" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	PT-4
Date	6/7/02
Time Sampling Began	1305
Time Sampling Completed	1320

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	804.08
Total Sounded Depth of Well Below MP	29.00	Water Level Elevation	787.25
Held <input type="checkbox"/>	Depth to Water Below MP	Diameter of Casing	2"
Wet <input type="checkbox"/>	Water Column in Well	Gallons Pumped/Bailed <small>(prior to sampling)</small>	5.8
	Gallons per Foot	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
	Gallons in Well		
	Evacuation Method	Disposable bailer and poly rope	

SAMPLING DATA / FIELD PARAMETERS

Temperature	18.1 C	pH	5.55
Specific Conductance mS/cm	339.3		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	Low turb		
Color	Tan	Odor	No
Sampling Method and Material	Disposable bailer and poly rope		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	80's Sunny
Remarks	
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	PT-5
Date	6/7/02
Time Sampling Began	1240
Time Sampling Completed	1300

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	803.82
Total Sounded Depth of Well Below MP	29.00	Water Level Elevation	787.96
Held <input type="checkbox"/>	Depth to Water Below MP	Diameter of Casing	2"
Wet <input type="checkbox"/>	Water Column in Well	Gallons Pumped/Bailed <small>(prior to sampling)</small>	7
	Gallons per Foot	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
	Gallons in Well		
	Evacuation Method	Disposable bailer and poly rope	

SAMPLING DATA / FIELD PARAMETERS

Temperature	18.4 C	pH	5.96
Specific Conductance mS/cm	620		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	No	Odor	No
Sampling Method and Material	Disposable bailer and poly rope		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	EB @ 1235, FD @ 1300
Weather	
Remarks	
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/2" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	BR-5
Date	6/7/02
Time Sampling Began	
Time Sampling Completed	1350

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	805.18
Total Sounded Depth of Well Below MP	71.0	Water Level Elevation	778.52
Held <input type="checkbox"/>	Depth to Water Below MP	26.66	Diameter of Casing
Wet <input type="checkbox"/>	Water Column in Well		6"
	Gallons per Foot		Gallons Pumped/Bailed <small>(prior to sampling)</small>
	Gallons in Well		-----
	Evacuation Method	Pumping well	Sampling Pump Intake Setting <small>(feet below land surface)</small>

SAMPLING DATA / FIELD PARAMETERS

Temperature	18.8 C	pH	6.28
Specific Conductance mS/cm	201.8		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	No	Odor	Yes
Sampling Method and Material	Disposable bailer and poly rope		

CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/2" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 3/4" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47

WATER SAMPLING LOG

Site Location	Univar USA Inc., Greensboro, NC Facility
Project No.	VW92017
Well No./Site	BR-6
Date	6/7/02
Time Sampling Began	
Time Sampling Completed	1340

EVACUATION DATA

Description of Measuring Point (MP)	North side top of casing		
Height of MP Above/Below Land Surface		MP Elevation	802.11
Total Sounded Depth of Well Below MP	170'	Water Level Elevation	702.11
Held <input type="checkbox"/>	Depth to Water Below MP	Diameter of Casing	6"
Wet <input type="checkbox"/>	Water Column in Well	Gallons Pumped/Bailed <small>(prior to sampling)</small>	-----
	Gallons per Foot	Sampling Pump Intake Setting <small>(feet below land surface)</small>	
	Gallons in Well		
	Evacuation Method	Pumping well	

SAMPLING DATA / FIELD PARAMETERS

Temperature	17.6 C	pH	6.71
Specific Conductance mS/cm	439.6		
Other (specific ion; OVA; HNU; Tip; etc.)			
Appearance	No turb		
Color	No	Odor	Yes
Sampling Method and Material	Disposable bailer and poly rope		

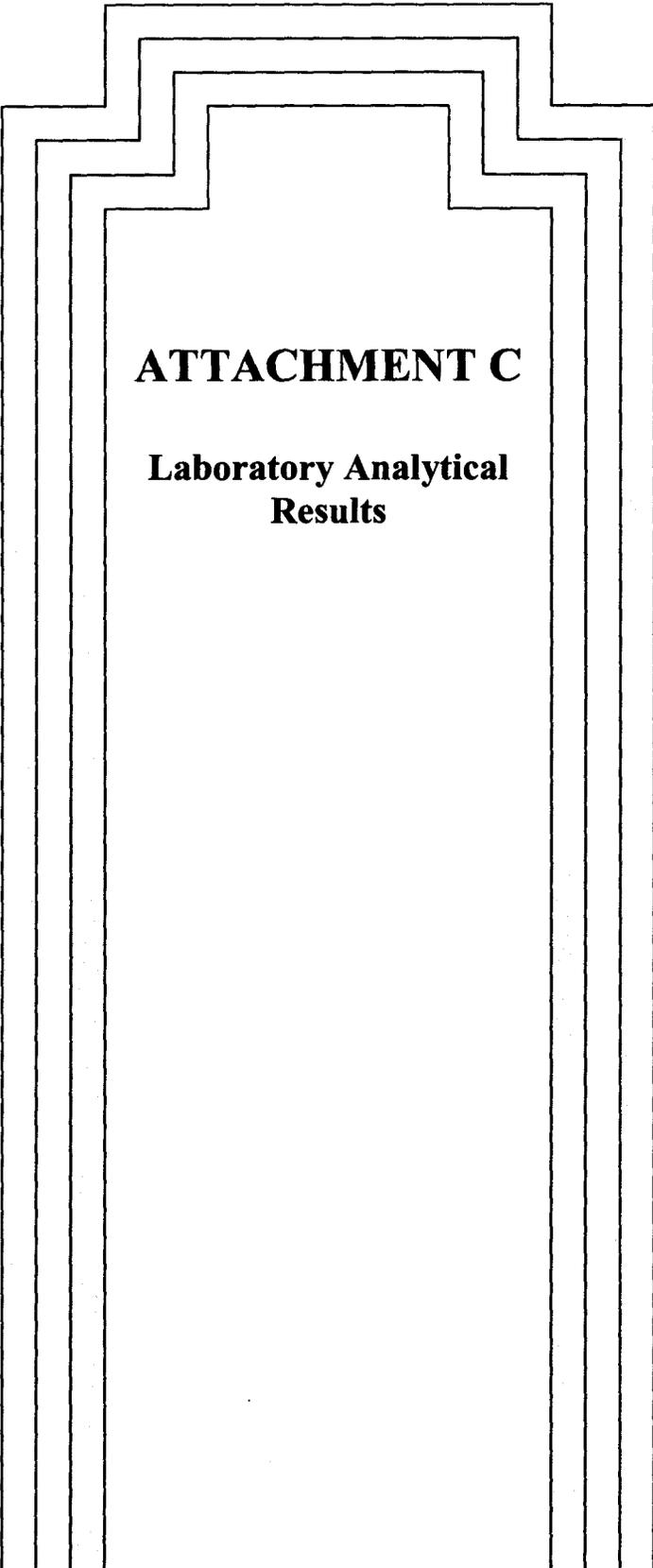
CONTAINER DESCRIPTION

Analyte	From Lab <input checked="" type="checkbox"/> BEI <input type="checkbox"/>	Preservative
VOCs by 601/602	(3) 40 ml glass	HCl, chill

Coded Replicate No.	
Weather	
Remarks	
Sampling Personnel	JB

WELL CASING VOLUMES

Gallons/Foot	1 1/2" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 3/4" = 0.09	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.47



ATTACHMENT C

**Laboratory Analytical
Results**

May 14, 2002

Service Request No. J2201450

Randy Senn
BASCOR Environmental, Inc.
800 W. Central Rd., Ste. 104W
Mt. Prospect, IL 60056

RE: Test Report for
Project No.: --
Project Name: Greensboro, NC

Dear Randy Senn:

Enclosed are the results of the samples(s) submitted to our laboratory on May 02, 2002. For your reference, these analyses have been assigned our service request number: J2201450.

All analyses were performed according to our laboratory's quality assurance program. NELAP requirements were met unless footnotes in each sample report indicate otherwise. Estimates regarding the degree of uncertainty in measurements can be inferred from the accuracy limits in the laboratory QA manual. However, these limits do not account for possible matrix effects. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,
Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937; NC, 527; SC, 96021; WA, C278.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201450
 Date Collected: 5/1/02
 Date Received: 5/2/02
 Date Extracted: NA

Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name:	MW-5	MW-4 PDB	MW-3
Lab Code:	J2201450-001	J2201450-002	J2201450-003
Date Analyzed:	5/8/02	5/8/02	5/8/02

Analyte	MRL			
Dichlorodifluoromethane (CFC 12)	5	U	U	U
Chloromethane	1	U	U	U
Vinyl Chloride	1	U	U	U
Bromomethane	1	U	U	U
Chloroethane	1	U	U	U
Trichlorofluoromethane (CFC 11)	5	U	U	U
1,1-Dichloroethene	1	U	16	U
Methylene Chloride	5	U	U	U
Methyl-tert-butyl ether (MTBE)	1	U	U	U
cis-1,2-Dichloroethene	1	U	89	U
trans-1,2-Dichloroethene	1	U	U	U
1,1-Dichloroethane	1	U	3.6	U
Chloroform	1	U	U	U
1,1,1-Trichloroethane (TCA)	1	U	7.6	U
Carbon Tetrachloride	1	U	U	U
Benzene	1	U	U	U
1,2-Dichloroethane	1	U	U	U
Trichloroethene (TCE)	1	U	14	U
1,2-Dichloropropane	1	U	9.3	U
Bromodichloromethane	1	U	U	U
trans-1,3-Dichloropropene	1	U	U	U
Toluene	1	U	U	U
cis-1,3-Dichloropropene	1	U	U	U
1,1,2-Trichloroethane	1	U	U	U
Tetrachloroethene (PCE)	1	U	1.1	U
Dibromochloromethane	1	U	U	U
Chlorobenzene	1	U	U	U
Ethylbenzene	1	U	U	U
Total Xylenes	3	U	U	U
Bromoform	1	U	U	U
1,1,2,2-Tetrachloroethane	1	U	U	U
1,3-Dichlorobenzene	1	U	U	U
1,4-Dichlorobenzene	1	U	U	U
1,2-Dichlorobenzene	1	U	U	U
2-Chloroethyl-vinylether	100	U	U	U

U Not detected at or above the MRL

Approved By: _____ Date: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201450
 Date Collected: 5/1/02
 Date Received: 5/2/02
 Date Extracted: NA

Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name: TB Method Blank
 Lab Code: J2201450-004 GC512E07B-MB
 Date Analyzed: 5/8/02 5/7/02

Analyte	MRL	Sample	Method Blank
Dichlorodifluoromethane (CFC 12)	5	U	U
Chloromethane	1	U	U
Vinyl Chloride	1	U	U
Bromomethane	1	U	U
Chloroethane	1	U	U
Trichlorofluoromethane (CFC 11)	5	U	U
1,1-Dichloroethene	1	U	U
Methylene Chloride	5	U	U
Methyl-tert-butyl ether (MTBE)	1	U	U
cis-1,2-Dichloroethene	1	U	U
trans-1,2-Dichloroethene	1	U	U
1,1-Dichloroethane	1	U	U
Chloroform	1	U	U
1,1,1-Trichloroethane (TCA)	1	U	U
Carbon Tetrachloride	1	U	U
Benzene	1	U	U
1,2-Dichloroethane	1	U	U
Trichloroethene (TCE)	1	U	U
1,2-Dichloropropane	1	U	U
Bromodichloromethane	1	U	U
trans-1,3-Dichloropropene	1	U	U
Toluene	1	U	U
cis-1,3-Dichloropropene	1	U	U
1,1,2-Trichloroethane	1	U	U
Tetrachloroethene (PCE)	1	U	U
Dibromochloromethane	1	U	U
Chlorobenzene	1	U	U
Ethylbenzene	1	U	U
Total Xylenes	3	U	U
Bromoform	1	U	U
1,1,2,2-Tetrachloroethane	1	U	U
1,3-Dichlorobenzene	1	U	U
1,4-Dichlorobenzene	1	U	U
1,2-Dichlorobenzene	1	U	U
2-Chloroethyl-vinylether	100	U	U

U Not detected at or above the MRL

Approved By: _____ Date: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: BASCOR Environmental, Inc.
Project: Greensboro, NC
Sample Matrix: Water

Service Request: J2201450
Date Collected: 5/1/02
Date Received: 5/2/02
Date Extracted: NA
Date Analyzed: 5/7-8/02

Surrogate Recovery Summary
Halogenated and Aromatic Organic Compounds
EPA Method 601/602

Sample Name	Lab Code	Percent Recovery	
		Fluorobenzene	Dibromofluoromethane
MW-5	J2201450-001	109	104
MW-4 PDB	J2201450-002	96	89
MW-3	J2201450-003	107	99
TB	J2201450-004	108	103
Method Blank	GC512E07B-MB	103	95
Laboratory Control Sample	GC512E07B-LCS	85	83
Batch QC	J2201384-009MS	96	96
Batch QC	J2201384-009MSD	94	95

CAS Acceptance Limits: 78-119 70-130

Approved By: _____ Date: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201450
 Date Collected: NA
 Date Received: NA
 Date Extracted: NA
 Date Analyzed: 5/8/02

Matrix Spike/Duplicate Matrix Spike Summary
 Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name: Batch QC
 Lab Code: J2201384-009MS, J2201384-009DMS

Analyte	Spike Level		Sample Result	Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	CAS RPD Acceptance Limit
	MS	DMS		MS	DMS	MS	DMS			
	1,1-Dichloroethene	20		20	U	25	25			
Trichloroethene	20	20	U	26	26	130	130	62-128	<1	30
Tetrachloroethene	20	20	U	28	27	140	135	61-121	4	30
Benzene	20	20	U	20	20	100	100	56-135	<1	30
Toluene	20	20	U	20	19	100	95	43-132	5	30
Ethylbenzene	20	20	U	20	19	100	95	40-142	5	30

U Not detected at or above the MRL

Approved By: _____ Date: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: BASCOR Environmental, Inc.
Project: Greensboro, NC
LCS Matrix: Water

Service Request: J2201450
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/7/02

Laboratory Control Sample Summary
Halogenated and Aromatic Organic Compounds
EPA Method 601/602
Units: µg/L (ppb)

Analyte	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
1,1-Dichloroethene	20	19	95	34-149
Trichloroethene	20	18	90	38-154
Tetrachloroethene	20	18	90	41-141
Benzene	20	20	100	41-143
Toluene	20	19	95	39-144
Ethylbenzene	20	19	95	40-145

Approved By: _____ Date: _____



June 27, 2002

Service Request No. J2201883

Randy Senn
BASCOR Environmental, Inc.
800 W. Central Rd., Ste. 104W
Mt. Prospect, IL 60056

RE: Test Report for
Project No.: --
Project Name: Greensboro, NC

Dear Randy Senn:

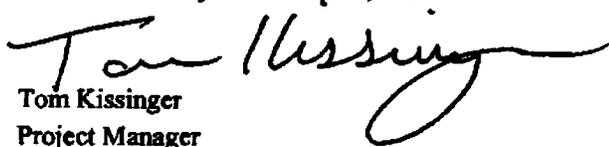
Enclosed are the results of the samples(s) submitted to our laboratory on June 08, 2002. For your reference, these analyses have been assigned our service request number: J2201883.

All analyses were performed according to our laboratory's quality assurance program. NELAP requirements were met unless footnotes in each sample report indicate otherwise. Estimates regarding the degree of uncertainty in measurements can be inferred from the accuracy limits in the laboratory QA manual. However, these limits do not account for possible matrix effects. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.


Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937; NC, 527; SC, 96021; WA, C278.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: 6/7/02
 Date Received: 6/8/02
 Date Extracted: NA

Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name:	BR-5	BR-6	PT-25
Lab Code:	J2201883-001(a,d)	J2201883-002(b)	J2201883-003(h)
Date Analyzed:	6/26/02	6/14/02	6/14/02

Analyte	MRL	BR-5	BR-6	PT-25
Dichlorodifluoromethane (CFC 12)	5	25U	1200U	1200U
Chloromethane	1	5U	250U	250U
Vinyl Chloride	1	5U	290	14000
Bromomethane	1	5U	250U	250U
Chloroethane	1	5U	250U	250U
Trichlorofluoromethane (CFC 11)	5	25U	1200U	1200U
1,1-Dichloroethene	1	51	1200	250U
Methylene Chloride	5	25U	1200U	1200U
Methyl-tert-butyl ether (MTBE)	1	5U	250U	250U
cis-1,2-Dichloroethene	1	180	9300	9100
trans-1,2-Dichloroethene	1	5U	250U	720
1,1-Dichloroethane	1	42	250U	250U
Chloroform	1	7.3	470	380
1,1,1-Trichloroethane (TCA)	1	260(c)	9000	250U
Carbon Tetrachloride	1	5U	250U	250U
Benzene	1	5U	250U	250U
1,2-Dichloroethane	1	5U	250U	250U
Trichloroethene (TCE)	1	360(c)	11000	250U
1,2-Dichloropropane	1	13	1500	250U
Bromodichloromethane	1	5U	250U	250U
trans-1,3-Dichloropropene	1	5U	250U	250U
Toluene	1	5U	250U	250U
cis-1,3-Dichloropropene	1	5U	250U	250U
1,1,2-Trichloroethane	1	5U	250U	250U
Tetrachloroethene (PCE)	1	98	490	250U
Dibromochloromethane	1	5U	250U	250U
Chlorobenzene	1	5U	640	250U
Ethylbenzene	1	5U	250U	250U
Total Xylenes	3	15U	750U	750U
Bromoform	1	5U	250U	250U
1,1,2,2-Tetrachloroethane	1	5U	250U	250U
1,3-Dichlorobenzene	1	5U	250U	250U
1,4-Dichlorobenzene	1	5U	250U	250U
1,2-Dichlorobenzene	1	5U	250U	250U
2-Chloroethyl-vinylether	100	500U	25000U	25000U

U Not detected at or above the MRL
 a MRL is elevated because the sample required diluting. Dilution factor: 5.
 b MRL is elevated because the sample required diluting. Dilution factor: 250.
 c Result is from the analysis of a diluted sample.
 d Sample was analyzed on 6/26/02, 5 days past the end of the recommended maximum holding time. The original analysis was within the recommended holding time, but it was too dilute. The sample was reanalyzed at the correct dilution as soon as the error was noticed.

Approved By: Tara D. Heston Date: 6/27/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: 6/7/02
 Date Received: 6/8/02
 Date Extracted: NA

Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name:	PT-4	PT-5	EB
Lab Code:	J2201883-004(a)	J2201883-005(b)	J2201883-006
Date Analyzed:	6/14/02	6/14/02	6/14/02

Analyte	MRL	PT-4	PT-5	EB
Dichlorodifluoromethane (CFC 12)	5	25U	2500U	U
Chloromethane	1	5U	500U	U
Vinyl Chloride	1	13	500U	U
Bromomethane	1	5U	500U	U
Chloroethane	1	16	500U	U
Trichlorofluoromethane (CFC 11)	5	25U	2500U	U
1,1-Dichloroethene	1	5U	6300	U
Methylene Chloride	5	25U	2500U	U
Methyl-tert-butyl ether (MTBE)	1	5U	500U	U
cis-1,2-Dichloroethene	1	81	10000	U
trans-1,2-Dichloroethene	1	5U	500U	U
1,1-Dichloroethane	1	7.6	2600	U
Chloroform	1	5.9	750	1.1
1,1,1-Trichloroethane (TCA)	1	16	2300	U
Carbon Tetrachloride	1	5U	500U	U
Benzene	1	5U	500U	U
1,2-Dichloroethane	1	5U	500U	U
Trichloroethene (TCE)	1	130	7800	U
1,2-Dichloropropane	1	7.3	1300	U
Bromodichloromethane	1	5U	500U	U
trans-1,3-Dichloropropene	1	5U	500U	U
Toluene	1	5U	500U	U
cis-1,3-Dichloropropene	1	5U	500U	U
1,1,2-Trichloroethane	1	220	1900	U
Tetrachloroethene (PCE)	1	5U	500U	U
Dibromochloromethane	1	5U	500U	U
Chlorobenzene	1	5U	500U	U
Ethylbenzene	1	15U	1500U	U
Total Xylenes	3	5U	500U	U
Bromoform	1	5U	500U	U
1,1,2,2-Tetrachloroethane	1	5U	500U	U
1,3-Dichlorobenzene	1	5U	500U	U
1,4-Dichlorobenzene	1	5U	500U	U
1,2-Dichlorobenzene	1	5U	500U	U
2-Chloroethyl-vinylether	100	500U	50000U	U

U
a
b

Not detected at or above the MRL
 MRL is elevated because the sample required diluting. Dilution factor: 5.
 MRL is elevated because the sample required diluting. Dilution factor: 500.

Approved By: _____

Tom D. Lussinger

Date: 6/27/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: 6/7/02
 Date Received: 6/8/02
 Date Extracted: NA

Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name:	PT-5 FD	MW-2D	MW-2S
Lab Code:	J2201883-007(a)	J2201883-008(b)	J2201883-009(c)
Date Analyzed:	6/14/02	6/14/02	6/14/02

Analyte	MRL	PT-5 FD	MW-2D	MW-2S
Dichlorodifluoromethane (CFC 12)	5	2500U	250U	5000U
Chloromethane	1	500U	55	1000U
Vinyl Chloride	1	500U	50U	1000U
Bromomethane	1	500U	50U	1000U
Chloroethane	1	500U	50U	1000U
Trichlorofluoromethane (CFC 11)	5	2500U	250U	5000U
1,1-Dichloroethene	1	5700	1000	15000
Methylene Chloride	5	2500U	250U	5000U
Methyl-tert-butyl ether (MTBE)	1	500U	50U	1000U
cis-1,2-Dichloroethene	1	9500	50U	1000U
trans-1,2-Dichloroethene	1	500U	50U	1000U
1,1-Dichloroethane	1	2600	1100	11000
Chloroform	1	890	50U	1000U
1,1,1-Trichloroethane (TCA)	1	2500	170	43000
Carbon Tetrachloride	1	500U	50U	1000U
Benzene	1	500U	50U	1000U
1,2-Dichloroethane	1	500U	50U	1000U
Trichloroethene (TCE)	1	7500	50U	1000U
1,2-Dichloropropane	1	1100	50U	1000U
Bromodichloromethane	1	500U	50U	1000U
trans-1,3-Dichloropropene	1	500U	50U	1000U
Toluene	1	500U	50U	1000U
cis-1,3-Dichloropropene	1	500U	50U	1000U
1,1,2-Trichloroethane	1	500U	50U	1000U
Tetrachloroethene (PCE)	1	1700	50U	1000U
Dibromochloromethane	1	500U	50U	1000U
Chlorobenzene	1	500U	50U	1000U
Ethylbenzene	1	500U	50U	1000U
Total Xylenes	3	1500U	150U	3000U
Bromoform	1	500U	50U	1000U
1,1,2,2-Tetrachloroethane	1	500U	50U	1000U
1,3-Dichlorobenzene	1	500U	50U	1000U
1,4-Dichlorobenzene	1	500U	50U	1000U
1,2-Dichlorobenzene	1	500U	50U	1000U
2-Chloroethyl-vinylether	100	50000U	5000U	100000U

U Not detected at or above the MRL
 a MRL is elevated because the sample required diluting. Dilution factor: 500.
 b MRL is elevated because the sample required diluting. Dilution factor: 50.
 c MRL is elevated because the sample required diluting. Dilution factor: 1000.

Approved By: J. D. Hissinger Date: 6/27/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: 6/7/02
 Date Received: 6/8/02
 Date Extracted: NA

Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name:	MW-2S PDB	MW-4	MW-4 PDB
Lab Code:	J2201883-010(a)	J2201883-011(b)	J2201883-012(b)
Date Analyzed:	6/14/02	6/14/02	6/14/02

Analyte	MRL	MW-2S PDB	MW-4	MW-4 PDB
Dichlorodifluoromethane (CFC 12)	5	5000U	250U	250U
Chloromethane	1	1000U	50U	50U
Vinyl Chloride	1	1000U	50U	50U
Bromomethane	1	1000U	50U	50U
Chloroethane	1	1000U	50U	50U
Trichlorofluoromethane (CFC 11)	5	5000U	250U	250U
1,1-Dichloroethene	1	1600U	50U	50U
Methylene Chloride	5	5000U	250U	250U
Methyl-tert-butyl ether (MTBE)	1	1000U	50U	50U
cis-1,2-Dichloroethene	1	1000U	170	130
trans-1,2-Dichloroethene	1	1000U	50U	50U
1,1-Dichloroethane	1	1100U	50U	50U
Chloroform	1	1000U	50U	50U
1,1,1-Trichloroethane (TCA)	1	4700U	56	59
Carbon Tetrachloride	1	1000U	50U	50U
Benzene	1	1000U	50U	50U
1,2-Dichloroethane	1	1000U	50U	50U
Trichloroethene (TCE)	1	1000U	50U	50U
1,2-Dichloropropane	1	1000U	50U	50U
Bromodichloromethane	1	1000U	50U	50U
trans-1,3-Dichloropropene	1	1000U	50U	50U
Toluene	1	1000U	50U	50U
cis-1,3-Dichloropropene	1	1000U	50U	50U
1,1,2-Trichloroethane	1	1000U	50U	50U
Tetrachloroethene (PCE)	1	1000U	50U	50U
Dibromochloromethane	1	1000U	50U	50U
Chlorobenzene	1	1000U	50U	50U
Ethylbenzene	1	1000U	50U	50U
Total Xylenes	3	3000U	150U	150U
Bromoform	1	1000U	50U	50U
1,1,2,2-Tetrachloroethane	1	1000U	50U	50U
1,3-Dichlorobenzene	1	1000U	50U	50U
1,4-Dichlorobenzene	1	1000U	50U	50U
1,2-Dichlorobenzene	1	1000U	50U	50U
2-Chloroethyl-vinylether	100	10000U	5000U	5000U

U Not detected at or above the MRL
 a MRL is elevated because the sample required diluting. Dilution factor: 1000.
 b MRL is elevated because the sample required diluting. Dilution factor: 50.

Approved By: Tan D. Hussain Date: 6/27/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: 6/7/02
 Date Received: 6/8/02
 Date Extracted: NA

Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

	Trip Blank	
Sample Name:	(5/30/02)	Method Blank
Lab Code:	J2201883-013	GC532F13-MB
Date Analyzed:	6/14/02	6/13/02

Analyte	MRL		
Dichlorodifluoromethane (CFC 12)	5	U	U
Chloromethane	1	U	U
Vinyl Chloride	1	U	U
Bromomethane	1	U	U
Chloroethane	1	U	U
Trichlorofluoromethane (CFC 11)	5	U	U
1,1-Dichloroethene	1	U	U
Methylene Chloride	5	U	U
Methyl-tert-butyl ether (MTBE)	1	U	U
cis-1,2-Dichloroethene	1	U	U
trans-1,2-Dichloroethene	1	U	U
1,1-Dichloroethane	1	U	U
Chloroform	1	U	U
1,1,1-Trichloroethane (TCA)	1	U	U
Carbon Tetrachloride	1	U	U
Benzene	1	U	U
1,2-Dichloroethane	1	U	U
Trichloroethene (TCE)	1	U	U
1,2-Dichloropropane	1	U	U
Bromodichloromethane	1	U	U
trans-1,3-Dichloropropene	1	U	U
Toluene	1	U	U
cis-1,3-Dichloropropene	1	U	U
1,1,2-Trichloroethane	1	U	U
Tetrachloroethene (PCE)	1	U	U
Dibromochloromethane	1	U	U
Chlorobenzene	1	U	U
Ethylbenzene	1	U	U
Total Xylenes	3	U	U
Bromoform	1	U	U
1,1,2,2-Tetrachloroethane	1	U	U
1,3-Dichlorobenzene	1	U	U
1,4-Dichlorobenzene	1	U	U
1,2-Dichlorobenzene	1	U	U
2-Chloroethyl-vinylether	100	U	U

U Not detected at or above the MRL

Approved By: Tou D. Hisseng Date: 6/27/02

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: 6/7/02
 Date Received: 6/8/02
 Date Extracted: NA
 Date Analyzed: 6/13-26/02

Surrogate Recovery Summary
 Halogenated and Aromatic Organic Compounds
 EPA Method 601/602

Sample Name	Lab Code	Percent Recovery Fluorobenzene	Percent Recovery Dibromofluoromethane
BR-5	J2201883-001	110	100
BR-6	J2201883-002	104	101
PT-2S	J2201883-003	105	105
PT-4	J2201883-004	105	102
PT-5	J2201883-005	106	104
EB	J2201883-006	104	102
PT-5 FD	J2201883-007	118	116
MW-2D	J2201883-008	102	102
MW-2S	J2201883-009	108	103
MW-2S PDB	J2201883-010	103	97
MW-4	J2201883-011	107	99
MW-4 PDB	J2201883-012	105	95
Trip Blank (5/30/02)	J2201883-013	105	101
Method Blank	GC532F13-MB	103	97
Laboratory Control Sample	GC532F13-LCS	88	91
Laboratory Control Sample	GC532F13-LCSD	85	89
BatchQC	J2201880-005MS	100	98
BatchQC	J2201880-005MSD	100	100

CAS Acceptance Limits: 78-119 70-130

Approved By: Tand. Hising Date: 6/27/02

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: NA
 Date Received: NA
 Date Extracted: NA
 Date Analyzed: 6/14/02

Matrix Spike/Duplicate Matrix Spike Summary
 Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Sample Name: Batch QC
 Lab Code: J2201880-005MS, J2201880-005DMS

Analyte	Spike Level		Sample Result	Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	CAS RPD Acceptance Limit
	MS	DMS		MS	DMS	MS	DMS			
	1,1-Dichloroethene	20		20	U	17	18			
Trichloroethene	20	20	U	17	17	85	85	62-128	<1	30
Tetrachloroethene	20	20	U	16	16	80	80	61-121	<1	30
Benzene	20	20	U	21	21	105	105	56-135	<1	30
Toluene	20	20	U	21	21	105	105	43-132	<1	30
Ethylbenzene	20	20	U	21	21	105	105	40-142	<1	30

U Not detected at or above the MRL

Approved By: Tand. Kissinger Date: 6/27/02

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: BASCOR Environmental, Inc.
 Project: Greensboro, NC
 Sample Matrix: Water

Service Request: J2201883
 Date Collected: NA
 Date Received: NA
 Date Extracted: NA
 Date Analyzed: 6/14/02

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
 Halogenated and Aromatic Organic Compounds
 EPA Method 601/602
 Units: µg/L (ppb)

Analyte	Spike Level		Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	CAS RPD Acceptance Limit
	LCS	LCSD	LCS	LCSD	LCS	LCSD			
1,1-Dichloroethene	20	20	19	20	95	100	34-149	5	30
Trichloroethene	20	20	21	20	105	100	38-154	5	30
Tetrachloroethene	20	20	20	19	100	95	41-141	5	30
Benzene	20	20	20	19	100	95	41-143	5	30
Toluene	20	20	19	19	95	95	39-144	<1	30
Ethylbenzene	20	20	19	19	95	95	40-145	<1	30

Approved By: _____

Tand. Hussinger

Date: _____

6/27/02



JACKSONVILLE LABORATORY
CONDITION UPON RECEIPT FOR

Client: Bascor Project name: Greensboro NC
 Date received: 6/8/02 9:30 Service request number: 52201883
 Received by: agf CUR completed by: agf

Cooler/Shipping Information:

Courier: CAS Client UPS Airborne FedEx Other (describe): _____
 Type: Cooler Box Other (describe): _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	1				
Temp (°C)	2.8				
Temp taken from	<input type="checkbox"/> Temp blank <input type="checkbox"/> Sample bottle				
Temp measured with	<input type="checkbox"/> IR gun <input type="checkbox"/> Thermometer (enter ID):	<input type="checkbox"/> IR gun <input type="checkbox"/> Thermometer (enter ID):	<input type="checkbox"/> IR gun <input type="checkbox"/> Thermometer (enter ID):	<input type="checkbox"/> IR gun <input type="checkbox"/> Thermometer (enter ID):	<input type="checkbox"/> IR gun <input type="checkbox"/> Thermometer (enter ID):

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below or an NCM if so required. If an NCM was initiated, write the NCM number in the appropriate space.

CHECKLIST

	YES	NO	NA	NCM
1. Were custody seals on shipping container(s) intact? If "No", NCM required.		<input checked="" type="checkbox"/>		
2. Were custody papers properly included with samples?	<input checked="" type="checkbox"/>			
3. Were custody papers properly filled out (ink, signed, match labels)?	<input checked="" type="checkbox"/>			
4. Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/>			
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	<input checked="" type="checkbox"/>			
6. Did the sample labels agree with the chain of custody?	<input checked="" type="checkbox"/>			
7. Were correct bottles used for the tests indicated?	<input checked="" type="checkbox"/>			
8. Were proper sample preservation techniques indicated on the label?	<input checked="" type="checkbox"/>			
9. Were samples received within holding times? If "No", NCM required.	<input checked="" type="checkbox"/>			
10. Were all VOA vials checked for the presence of air bubbles? If "No", NCM required.	<input checked="" type="checkbox"/>			
11. Were there air bubbles present in the VOA vials? If "Yes", NCM required.		<input checked="" type="checkbox"/>		
12. Were samples in direct contact with wet ice? If "No," check one: <input type="checkbox"/> NO ICE <input type="checkbox"/> BLUE ICE	<input checked="" type="checkbox"/>			
13. Was the cooler temperature less than 6°C?	<input checked="" type="checkbox"/>			
14. Were sample pHs checked and recorded by Sample control? Checks are on reverse side of form. NOTE: VOA samples are checked by laboratory analysts.			<input checked="" type="checkbox"/>	
15. Were the sample containers provided by CAS?	<input checked="" type="checkbox"/>			
16. Were samples accepted into the laboratory?	<input checked="" type="checkbox"/>			

Comments:



SR #: J 8201883

Date: 6/8/02

Initials: [Signature]

A check mark in any space under the appropriate column headings for the selected sample indicates that the pH was checked and met the required pH criterion listed in the column heading.

Container	Bottle Code																										
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
	40-ml	40-ml	125-ml	250-ml	500-ml	1-L	250-ml	1-L	2-oz	4-oz	8-oz	16-oz	5 g	100-ml	250-ml	500-ml	1-L	1-L	250-ml	500-ml	1-L	250-ml	250-ml	1.75-L	500-ml	Misc.	
Pres.	HCl		HCl											Sodium Thiosulfate	H2SO4	H2SO4	H2SO4	H2SO4	HNO3	HNO3	HNO3	HNO3	NaOH	NaOH	ZnAcetate NaOH		
Req. pH	<2	N/A	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	>12	>12	>9	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-001	3																										
-002	3																										
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For aqueous samples with multiple containers, only 1 bottle is checked for pH
NOTE: VOA pH checks are performed by the analytical area, not sample control