

File

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To: Cheryl Priest
NJDEP-Bureau of So. Field Operations
City Hall, Suite 1300
P.O. Box 407
Trenton, New Jersey 08625

Date: March 4, 2009

Project Name: ABC Barrel Co. (SRP Pl# 006594)
Project No.: DR# B-904-02
Via: UPS Overnight

The Following items are being submitted ☒ herewith ☐ per your request.
☐ under separate cover ☐ for your information/distribution.
☒ for your review and approval.

ITEM No.	QUANTITY	DESCRIPTION
1	1	Groundwater Remedial Investigation Letter Report – ABC Barrel Co.

Comments:

On behalf of Camden Redevelopment Agency, please find the enclose RI Letter Report for the ABC Barrel Co. Site.

Very Truly Yours,
DRESDNER ROBIN


RAYMOND GLOVER

cc: J. Harveson- CRA
O. Simpson- CRA
S. Robinson-Rivera- CRA
G. Forrest- DR

March 4, 2009

Ms. Cheryl Priest
NJDEP-Bureau of Southern Field Operations
P.O. Box 407
Trenton, NJ 08625

**RE: CAMDEN REDEVELOPMENT AGENCY
GROUNDWATER REMEDIAL INVESTIGATION LETTER REPORT
ABC BARREL COMPANY SITE
314-322 NORTH FRONT STREET
BLOCK 62 LOTS 38/44, CAMDEN, NJ
SRP PI#: 006594**

Dear Ms. Priest:

On behalf of the Camden Redevelopment Agency's (CRA), **DRESDNER ROBIN** is pleased to submit this letter report summarizing the results of the recent groundwater remedial activities conducted at the ABC Barrel Company Site (the "Site") in support of CRA's redevelopment and revitalization efforts. The work was conducted by **DRESDNER ROBIN** in accordance with the "*Revised Proposal for Groundwater Remedial Investigation/Remedial Action Workplan*", dated July 10, 2008. The work was funded through the Hazardous Discharge Site Remediation Fund (HDSRF) Program (N.J.S.A. 58:10B-4). The location of the Site is shown on Figure 1, the Regional Site Location Map.

The purpose of the work was to further investigate groundwater contamination related to Area of Concern AOC B1, a Former 8,000 Gallon Diesel UST, located in the central part of the Site as shown in Figure 2. The scope of work was designed to comply with the requirements of N.J.A.C. 7:26E, *the Technical Requirements for Site Remediation*, and to address the remaining groundwater contaminant issues for the Site.

The results of the groundwater investigation will be used in support of CRA's current preferred development option for the Site, which is understood to consist of: 1) removal of historic from all proposed residential lots; and 2) implementation of Engineering and Institutional Controls for the remainder of the Site, inclusive of Deed Notice and engineering cap, and a Classification Exception Area (CEA) for groundwater (if necessary).

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BACKGROUND

To comply with NJDEP's Remedial Investigation (RI) Comment Letter, dated August 24, 2006, a groundwater screening investigation was conducted on September 9, 2007, to determine if additional remedial activities were required for AOC B1. The screening investigation included the collection and analysis of groundwater sample GW-1 from a temporary well installed within the former excavation area of AOC B1.

The results of the September 2007 groundwater screening investigation indicated that concentrations of several individual Base Neutral (BN) compounds [polynuclear aromatic hydrocarbons (PAHs)] and total tentatively identified compounds (TICS) including volatile organic (VO) and base neutral (BN) TICS were present exceeding the NJDEP Groundwater Remediation Standards. In addition, an intermittent sheen was noted on the purge water during the collection of the screening sample. For reference a summary of the analytical results for the screening sample and a boring log for the temporary well are provided as Attachment 1.

The results of the screening investigation and recommendations for further remedial activities at the Site were presented by **DRESDNER ROBIN** in *Proposal for Groundwater Remedial Investigation/Remedial Action Workplan*", dated February 28, 2008. The workplan included tasks to complete confirmation phase monitoring well installation (MW-4) and groundwater sampling (1 round); delineation phase monitoring well installation (MW-5, MW-6, and MW-7) and sampling (2 rounds); and reconstruction and/or abandonment/reinstallation of existing monitoring well MW-1.

In an E-mail dated June 27, 2008, NJDEP commented on the February 2008 Proposal and Workplan and approved the installation of proposed monitoring well MW-4 (to confirm the screening results) and required the collection of two rounds of groundwater samples from MW-4. Additionally, NJDEP approved the installation of the three additional monitoring wells, if required, to delineate contamination detected in proposed monitoring well MW-4. NJDEP also approved the reconstruction/reinstallation of existing monitoring well MW-1 and site wide monitoring including the collection of water level measurements in existing monitoring wells MW-1, MW-2, MW-3.

This Letter Report details the remedial activities related to the installation and sampling of monitoring well MW-4, and requests a No Further Action determination for groundwater at the site.

SCOPE OF WORK

In accordance with the scope of work as detailed in the July 2008 Proposal and Workplan, the remedial activities conducted by **DRESDNER ROBIN** were as follows:

October 7-21, 2008

- Installation and development of monitoring well MW-4

- Reconstruction of existing wells MW-1, MW-2, and MW-3
- Surveying of MW-1 through MW-4
- Disposal of investigation-derived waste
- Collection and analysis of initial groundwater sample from MW-4 (October 21, 2008)

December 15, 2008

- Collection and analysis of second (confirmation) sample from MW-4
- Collection of water level measurements and PID testing of existing site wells (MW-1, MW-2, MW-3, and MW-4)

Pursuant to N.J.A.C. 7:26E, the July 2008 Proposal and Workplan recommended that if PAH compounds and/or Total VO+BN TICS were detected in monitoring well MW-4 exceeding the NJDEP Groundwater Quality Criteria (GWQC), then delineation of the groundwater contamination would be required. Based upon evaluation of the results of the initial and confirmation round of groundwater samples as described in this report, installation of additional delineation monitoring wells as described in the July 2008 Proposal and Workplan were not required.

The details of the groundwater remedial activities conducted at the ABC Barrel Company Site are presented below.

MONITORING WELL INSTALLATION (MW-4)

Monitoring Well MW-4 was installed adjacent to the groundwater screening location GW-1 as shown on Figure 2. The final location of MW-4 was determined in the field utilizing a Global Positioning System (GPS) survey and coordinates determined from the georeferenced base map (Figure 2). Under the oversight of **DRESDNER ROBIN**, Tabasco Drilling (a NJ-Certified well driller) installed the monitoring well utilizing a mobile drilling rig and hollow-stem augers.

During the monitoring well installation, split spoon samples were collected continuously from the surface down to the proposed monitoring well depth of 18 feet. **DRESDNER ROBIN'S** field geologist screened the samples in 6-inch increments utilizing a photoionization detection (PID) meter and inspected the samples for physical evidence of contamination. The samples were described using the Bermister Classification Method. Environmental data was recorded on a field log and in a dedicated field notebook.

Subsurface materials encountered during the well installation consisted predominantly of fill materials, including natural materials that were used to backfill the former UST excavation. The subsurface materials were described as orange to red brown medium to fine sand and silt with little to some brick pieces, miscellaneous debris, and gravel (0.0 to 4.0 feet), overlying dark gray medium to fine and coarse to fine sand, with little to some silt, gravel, and trace of miscellaneous debris (4.0 to 18.0 feet). Evidence of significant odors, stains, or sheen was not

detected during the well installation. The Soil boring/Well Log for MW-4 is presented in Attachment 2.

Monitoring well MW-4 (Well Permit No. P200801109) was constructed in accordance with the requirements of the NJDEP *Field Sampling Procedures Manual* (August 2005). The well construction consisted of 4-inch Schedule 40 PVC solid pipe with 15 feet of 0.01-inch slot size wells screen (3.0 to 18 feet), and compatible size filter pack. The surface construction consisted of a flush mount steel casing set in a concrete pad, with pressure-sealed locking cap. The driller's Monitoring Well Record for MW-4 as submitted to the NJDEP Bureau of Water Allocation is provided in Attachment 2.

RECONSTRUCTION OF EXISTING MONITORING WELLS (MW-1, MW-2, and MW-3)

DRESDNER ROBIN'S Certified Driller inspected existing monitoring well MW-1 and determined that only the surface casing of the well was damaged. Therefore, the manhole and well pad was removed and replaced with a new flush-mount steel surface casing and cement pad. Based upon inspections by **DRESDNER ROBIN** and the Certified Driller, it was determined that the existing surface constructions of MW-2 and MW-3 were also in need of repair. Therefore, new flush-mount steel surface casings and cement pads were also constructed for these wells.

GROUNDWATER SAMPLING AND ANALYSIS

In accordance with the July 2008 Proposal and Workplan, the initial groundwater sample was collected from monitoring well MW-4 on October 21, 2008, and a confirmation sample was collected on December 15, 2008. The initial groundwater sample was collected two weeks after the installation and development of the MW-4. The confirmation sample was collected approximately 6 weeks after the initial sampling event following review of the initial sampling data and consultation with CRA.

Prior to the collection of the groundwater samples, a round of water level measurements were collected from the existing monitoring wells MW-1 through MW-4 utilizing an electronic water level meter. Immediately after opening the well caps, the headspace of the wells were tested with a PID meter to determine if volatile organic vapors were present.

The groundwater samples were collected in accordance with the procedures and protocol detailed in the NJDEP's *Field Sampling Procedures Manual* (May 1992). To collect the most representative groundwater sample, the low flow sampling method was used in accordance with NJDEP's *Low Flow Purging and Sampling Guidance Document*.

The monitoring wells were purged at a discharge rate varying from 200 to 250 milliliters per minute utilizing a 2-inch submersible Grundfos pump with controller. The intake of the pump was placed approximately two feet below the groundwater surface. Water levels were measured with an electronic water level meter and field test parameters were continuously monitored with a Horiba and flow-thru cell. When water levels and field test parameters

stabilized (temperature, conductivity, specific conductance, oxidation-reduction potential [ORP] and turbidity) or were very near stabilization, the samples were collected directly from the pump outflow. Samples were collected for the most volatile components first.

Equipment decontamination procedures utilized included washing the outside of the pump with Alconox and potable water and circulation of distilled water through the inside of the pump. Groundwater purged from the monitoring wells was discharged to the ground surface in the vicinity of the monitoring well.

Strict chain-of-custody procedures were employed to ensure the validity of the data generated for each groundwater sampling event. A record of the field sampling activities was kept in a dedicated field notebook.

Sample Analysis

The groundwater samples were analyzed by Accutest laboratories, a NJ-Certified laboratory for the following contaminants of concern:

- GS/MS Volatile Organic Compounds (SW 846 8260B)
- GS/MS Semi-Volatile Organic Compounds (SW 846 8270C/8270C By SIM)

Field quality assurance-quality control (QA/QC) samples were collected during the sampling in accordance with N.J.A.C. 7:26E-2.1 of the *Technical Requirements for Site Remediation*. During each sampling event, a field blank, trip blank (analyzed for volatiles only) and a replicate sample were collected for analysis.

A groundwater sampling summary is presented in Table 1 and Groundwater Sampling Logs are provided in Attachment 2. The laboratory data packages and Electronic Data Deliverables (EDDs) in GIS compatible format are provided as Attachment 3.

WELL SURVEYING/FORM B'S

The casing and ground elevations and geographic locations for monitoring wells MW-1, MW-2, MW-3, and MW-4 were surveyed by **DRESDNER ROBIN** using NJ State Plane Coordinates NAD 83 and available bench mark elevation datum. Form B *Monitoring Well Certifications* for each of these wells were prepared by DRESDNER ROBIN'S Professional Land Surveyor. The Form B's are provided in Attachment 2.

DISPOSAL OF INVESTIGATION DERIVED WASTE

Drill cuttings generated during installation of monitoring well MW-4 were presumed to be regulated waste. The drill cuttings were temporarily stored on site in two secure 55-gallon drums. The drums were removed from the site by EISCO on October 14, 2008, under the oversight of **DRESDNER ROBIN**. The drummed waste was disposed off-site at a NJ-Permitted

Facility in accordance with the applicable environmental laws and regulations. The Bills of Laden provided EISCO were signed by a representative of CRA. Copies of the waste disposal documentation will be made available upon request.

GROUNDWATER LEVEL MEASUREMENTS/PID TEST READINGS

Groundwater levels and PID readings were collected from monitoring wells MW-1 through MW-4 during the sampling activities. In addition, during the December 15, 2008 sampling event, bailer samples were collected from MW-1 through MW-4 and inspected for the presence of petroleum odor and free product.

Depth to groundwater in monitoring well MW-4 during the sampling events varied from 10.58 to 11.49 feet below the top of the PVC casing. Water levels in existing monitoring wells varied from approximately 8.9 feet (MW-2 and MW-3) to 11.24 feet (MW-1) below the PVC casings.

The October 21, 2006 water level data were converted to groundwater elevations and used to generate a groundwater elevation contour map for the Site. Surfer®8 Software was used to generate the contours. As shown on Figure 3, the groundwater elevations varied from approximately 0.1 to 1.0 feet above Mean Sea Level (MSL). Groundwater flow direction in the shallow aquifer at the site (as shown by the flow vectors calculated by Surfer) is generally to the southwest, which is towards the Delaware River.

PID readings collected in MW-4 varied from 4.3 ppm on October 21, 2008 to 0.0 ppm on December 15, 2008. PID readings in monitoring wells MW-1 through MW-3 varied from 0.6 to 2.4 ppm on October 21, 2008 and 0.0 ppm on December 15, 2008. No sheen was observed during the sampling of MW-4 or in the bailer samples collected from MW-1 through MW-3 on December 15, 2005. Organic materials were noted in the bailer sample collected from MW-3 suggesting that it has been impacted by surface activities.

GROUNDWATER ANALYTICAL RESULTS

A summary of the October and December 2008 groundwater analytical results is presented in Tables 2 and 3, respectively. To evaluate the data, the analytical results were compared to the NJDEP Groundwater Remediation Standards N.J.A.C. 7:9C, consisting of the higher of the Practical Quantitation Level (PQL) and the Class II Specific Groundwater Quality Criteria (GWQC) or the Interim Specific Groundwater Quality Criteria, where applicable. A summary of the analytical results for AOC-1 is presented below.

October 21, 2008 Sampling Results

Volatile Organic Compounds

Volatile organic compounds were not detected in the initial groundwater sample collected from monitoring well MW-4 on October 21, 2008.

Semi-volatile Organic Compounds

Semi-volatile organic compounds were not detected in the initial groundwater sample collected from MW-4 exceeding the GWQC. A trace concentration of acenaphthene was detected in the sample significantly below the 400 microgram per liter (ug/L) GWQC.

December 15, 2008 Sampling Results

Volatile Organic Compounds

Volatile organic compounds were not detected in the confirmation groundwater sample collected from MW-4 on December 15, 2008 exceeding the GWQC. Tetrachloroethene (PCE) was detected in the sample at a concentration of 0.30J ug/L, which is below the 1.0 ug/L GWQC. In addition, trace concentrations of acetone were detected in the field and trip blanks collected on December 15, 2008. However, since acetone was not detected in the groundwater sample, a laboratory source of this contamination is suspected.

Semi-volatile Organic Compounds

Semi-volatile organic compounds were not detected in the confirmation groundwater sample MW-4 collected on December 15, 2008.

RELIABILITY OF DATA

As discussed above, groundwater sample collection methods and procedures used were in compliance with NJDEP's *Field Sampling Procedures Manual*, August 2005 and the *Low-Flow Purging and Sampling Guidance*, December 2003. No significant modifications or deviations from the recommended sampling procedures were required during the sampling event.

Daily field blanks (FB -1/FB121508), trip blanks, and duplicate samples (REP121508/MW-4 REPLICATE) were collected as shown on Table 1. Based upon a review of the results of the QA/QC sample analysis, no significant quality control issues were identified that could affect the groundwater sample results.

As shown in Tables 2 and 3, the quantitation limits achieved for each analyte were below their respective GWQC. The laboratory data deliverables were reported in NJ-Reduced Format. The full laboratory data packages and EDDs are presented in Attachment 3.

A review of Accutest's Case Narrative/Non-Conformance Summary indicates that the samples received were intact and properly preserved. All samples were analyzed within the recommended method holding time. As reported by Accutest, the specified quality control criteria were achieved for the samples except that for the October 21, 2008 Sampling Data, Samples OP35310-MS and OP35310-MSD had surrogates outside control limits due to matrix interference.

FINDINGS/RECOMMENDATIONS

Findings

Volatile and semi-volatile organic compounds were not detected in the initial or the confirmation samples collected from MW-4 at concentrations exceeding the Groundwater Remediation Standards. In addition, the results of field inspections of samples collected from monitoring well MW-4 and from monitoring wells MW-1, MW-2, and MW-3 (located downgradient of AOC B1) did not indicate presence of petroleum-related contamination.

Since the groundwater contamination detected in groundwater screening sample (GW-1) on September 9, 2007 has not been confirmed, pursuant to Task 3 of the July 10, 2008 Revised Proposal and Workplan, no further remedial investigation of AOC B1 is considered necessary.

Recommendations

Based upon the data presented in this report, on behalf of CRA, a No Further Action for groundwater is requested for the ABC Barrel Company Site. The results of the groundwater investigation presented herein should be incorporated into the Remedial Investigation/Remedial Action Report for the Site, pursuant to N.J.A.C. 7:267E-4.8 and 7:26E-6.7, which will address the remaining AOCs at the Site.

If you have any questions or need additional information, please give me a call at 856 968 9400 or Ray Glover at 201 217 9200 ext. 228.

Sincerely,
DRESDNER ROBIN


Geoffrey R. Forrest P.G., C.P. Eng.
Director of Environmental Services

Attachments

Cc: J. Harveson - CRA
O. Simpson - CRA
S. Robinson-Rivera
File 07-10-18
Chrono

TABLES

TABLE 1
Groundwater Sampling Summary
Camden Redevelopment Agency
ABC Barrel Site, 314-322 N. Front Street, Camden NJ

<i>Sample Name</i>	<i>Date of Sampling</i>	<i>Type of Sample</i>	<i>Sampling Method</i>	<i>Type of Analysis</i>
<u>Block 62</u> <u>Lots 38/44</u> MW-4 Replicate (Rep) Field Blank Trip Blank	October 21, 2008	Groundwater Groundwater Aqueous	Low Flow Low Flow NA NA	TCL-VO+10 TCL-BN+15
<u>Block 62</u> <u>Lots 38/44</u> MW-4 Replicate (Rep) Field Blank Trip Blank	December 15, 2008	Groundwater Groundwater Aqueous	Low Flow Low Flow NA NA	TCL-VO+10 TCL-BN+15

TCL – Target Compound List

VO+10= Volatile Organic Compounds by SW846 8260B

BN+15= Semi Volatile Organic Compounds by SW 846 8270/8270 by SIM

Table 2
Summary of Groundwater Analytical Results- October 21, 2008
Camden Redevelopment Agency
ABC Barrel Site, 314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	NJDEP Ground Water Criteria	MW-4 JA3653-1 10/21/2008 1 Ground Water	MW-4 REPLICATE (REP) JA3653-4 10/21/2008 1 Ground Water	FB-1 JA3653-2 10/21/2008 1 Field Blank Water	TRIP BLANK JA3653-3 10/21/2008 1 Trip Blank Water
GC/MS Volatiles (ppb) (SW846 82608)					
Acetone	6000	2.1 U	2.1 U	2.1 U	2.1 U
Benzene	1	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	1	0.14 U	0.14 U	0.14 U	0.14 U
Bromoform	4	0.18 U	0.18 U	0.18 U	0.18 U
Bromomethane	10	0.32 U	0.32 U	0.32 U	0.32 U
2-Butanone (MEK)	300	2.3 U	2.3 U	2.3 U	2.3 U
Carbon disulfide	700	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	1	0.18 U	0.18 U	0.18 U	0.18 U
Chlorobenzene	50	0.19 U	0.19 U	0.19 U	0.19 U
Chloroethane	NS	0.22 U	0.22 U	0.22 U	0.22 U
Chloroform	70	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	NS	0.29 U	0.29 U	0.29 U	0.29 U
Dibromochloromethane	1	0.16 U	0.16 U	0.16 U	0.16 U
1,1-Dichloroethane	50	0.24 U	0.24 U	0.24 U	0.24 U
1,2-Dichloroethane	2	0.35 U	0.35 U	0.35 U	0.35 U
1,1-Dichloroethene	1	0.29 U	0.29 U	0.29 U	0.29 U
cis-1,2-Dichloroethene	70	0.25 U	0.25 U	0.25 U	0.25 U
trans-1,2-Dichloroethene	100	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichloroethene (total)	70	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichloropropane	1	0.18 U	0.18 U	0.18 U	0.18 U
cis-1,3-Dichloropropene	NS	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	NS	0.27 U	0.27 U	0.27 U	0.27 U
Ethylbenzene	700	1.7 U	1.7 U	1.7 U	1.7 U
2-Hexanone	NS	1.3 U	1.3 U	1.3 U	1.3 U
4-Methyl-2-pentanone(MIBK)	NS	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	3	0.17 U	0.17 U	0.17 U	0.17 U
Styrene	100	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2,2-Tetrachloroethane	1	0.29 U	0.29 U	0.29 U	0.29 U
Tetrachloroethene	1	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	600	0.24 U	0.24 U	0.24 U	0.24 U
1,1,1-Trichloroethane	30	0.17 U	0.17 U	0.17 U	0.17 U
1,1,2-Trichloroethane	3	0.18 U	0.18 U	0.18 U	0.18 U
Trichloroethene	1	0.21 U	0.21 U	0.21 U	0.21 U
Vinyl chloride	1	0.39 U	0.39 U	0.39 U	0.39 U
Xylene (total)	1000	0	0	0	0
TOTAL TARGETED GC/MS Volatiles (ppb)		0	0	0	0
Total TIC, Volatile	NS	0	0	0	0
TOTAL NON-TARGETED GC/MS Volatiles (ppb)	NS	0	0	0	0
TOTAL GC/MS Volatiles (ppb)		0	0	0	0

Table 2
Summary of Groundwater Analytical Results - October 21, 2008
Camden Redevelopment Agency
ABC Barrel Site, 314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	NJDEP Ground Water Criteria	MW-4 JA3653-1 10/21/2008 1 Ground Water	MW-4 REPLICATE (REP) JA3653-4 10/21/2008 1 Ground Water	FB-1 JA3653-2 10/21/2008 1 Field Blank Water	TRIP BLANK JA3653-3 10/21/2008 Trip Blank Water
GC/MS Semi-volatiles (ppb) (SW846 8270C BY SIM)					
Acenaphthene	400	0.267	0.016 U	0.016 U	NA
Acenaphthylene	NS	0.0070 U	0.0070 U	0.0070 U	NA
Anthracene	2000	0.021 U	0.021 U	0.021 U	NA
Benzo(a)anthracene	0.1	0.034 U	0.034 U	0.034 U	NA
Benzo(a)pyrene	0.1	0.036 U	0.036 U	0.036 U	NA
Benzo(b)fluoranthene	0.2	0.017 U	0.017 U	0.017 U	NA
Benzo(g,h,i)perylene	NS	0.012 U	0.012 U	0.012 U	NA
Benzo(k)fluoranthene	0.5	0.019 U	0.019 U	0.019 U	NA
Chrysene	5	0.018 U	0.018 U	0.018 U	NA
Dibenzo(a,h)anthracene	0.3	0.020 U	0.020 U	0.020 U	NA
Fluoranthene	300	0.0096 U	0.0096 U	0.0096 U	NA
Fluorene	300	0.020 U	0.020 U	0.020 U	NA
Hexachlorobenzene	0.02	0.0099 U	0.0099 U	0.0099 U	NA
Indeno(1,2,3-cd)pyrene	0.2	0.014 U	0.014 U	0.014 U	NA
Naphthalene	300	0.014 U	0.014 U	0.014 U	NA
Phenanthrene	NS	0.017 U	0.017 U	0.017 U	NA
Pyrene	200	0.012 U	0.012 U	0.012 U	NA
TOTAL TARGETED GC/MS Semi-volatiles (ppb)		0.267	0	0	0

Table 2
Summary of Groundwater Analytical Results - October 21, 2008
Camden Redevelopment Agency
ABC Barrel Site, 314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	Ground Water Criteria	MW-4 JA3653-1 10/21/2008 1 Ground Water	MW-4 REPLICATE (REP) JA3653-4 10/21/2008 1 Ground Water	FB-1 JA3653-2 10/21/2008 1 Field Blank Water	TRIP BLANK JA3653-3 10/21/2008 Trip Blank Water
GC/MS Semi-volatiles (ppb) (SW846 8270C)					
4-Bromophenyl phenyl ether	NS	0.41 U	0.41 U	0.41 U	NA
Butyl benzyl phthalate	100	0.42 U	0.42 U	0.42 U	NA
2-Chloronaphthalene	600	0.48 U	0.48 U	0.48 U	NA
4-Chloroaniline	30	0.33 U	0.33 U	0.33 U	NA
Carbazole	NS	0.45 U	0.45 U	0.45 U	NA
bis(2-Chloroethoxy)methane	NS	0.52 U	0.52 U	0.52 U	NA
bis(2-Chloroethyl)ether	7	0.49 U	0.49 U	0.49 U	NA
bis(2-Chloroisopropyl)ether	300	0.54 U	0.54 U	0.54 U	NA
4-Chlorophenyl phenyl ether	NS	0.45 U	0.45 U	0.45 U	NA
1,2-Dichlorobenzene	600	0.35 U	0.35 U	0.35 U	NA
1,3-Dichlorobenzene	600	0.33 U	0.33 U	0.33 U	NA
1,4-Dichlorobenzene	75	0.35 U	0.35 U	0.35 U	NA
2,4-Dinitrotoluene	NS	0.45 U	0.45 U	0.45 U	NA
2,6-Dinitrotoluene	NS	0.60 U	0.60 U	0.60 U	NA
3,3'-Dichlorobenzidine	30	4.6 U	4.6 U	4.6 U	NA
Dibenzofuran	NS	0.49 U	0.49 U	0.49 U	NA
Di-n-butyl phthalate	700	0.50 U	0.50 U	0.50 U	NA
Di-n-octyl phthalate	100	0.50 U	0.50 U	0.50 U	NA
Diethyl phthalate	6000	0.36 U	0.36 U	0.36 U	NA
Dimethyl phthalate	NS	0.36 U	0.36 U	0.36 U	NA
bis(2-Ethylhexyl)phthalate	3	0.75 U	0.75 U	0.75 U	NA
Hexachlorobutadiene	1	0.38 U	0.38 U	0.38 U	NA
Hexachlorocyclopentadiene	40	4.5 U	4.5 U	4.5 U	NA
Hexachloroethane	7	0.30 U	0.30 U	0.30 U	NA
Isophorone	40	0.69 U	0.69 U	0.69 U	NA
2-Methylnaphthalene	NS	0.43 U	0.43 U	0.43 U	NA
2-Nitroaniline	NS	0.45 U	0.45 U	0.45 U	NA
3-Nitroaniline	NS	0.45 U	0.45 U	0.45 U	NA
4-Nitroaniline	NS	0.45 U	0.45 U	0.45 U	NA
Nitrobenzene	6	0.66 U	0.66 U	0.66 U	NA
N-Nitroso-di-n-propylamine	10	0.39 U	0.39 U	0.39 U	NA
N-Nitrosodiphenylamine	10	0.61 U	0.61 U	0.61 U	NA
1,2,4-Trichlorobenzene	9	0.37 U	0.37 U	0.37 U	NA
TOTAL TARGETED GC/MS Semi-volatiles (ppb)		0	0	0	0
TOTAL NON-TARGETED GC/MS Semi-volatiles (ppb)	NS	0	0	0	0
TOTAL GC/MS Semi-volatiles (ppb)		0	0	0	0

Table 3
Summary of Groundwater Analytical Results - December 15, 2008
Camden Redevelopment Agency
ABC Barrel Site, 314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	NUDEP Ground Water Criteria	MW-4 JA8234-1 12/15/2008 1	REP121508 JA8234-2 12/15/2008 1	FB121508 JA8234-3 12/15/2008 1	TB121508 JA8234-4 12/15/2008 1
		Ground Water	Ground Water	Field Blank Water	Trip Blank Water
GC/MS Volatiles (ppb) (SW846 8260B)					
Acetone	6000	2.1 U	2.1 U	8.3 J	8.5 J
Benzene	1	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	1	0.14 U	0.14 U	0.14 U	0.14 U
Bromoform	4	0.18 U	0.18 U	0.18 U	0.18 U
Bromomethane	10	0.32 U	0.32 U	0.32 U	0.32 U
2-Butanone (MEK)	300	2.3 U	2.3 U	2.3 U	2.3 U
Carbon disulfide	700	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	1	0.18 U	0.18 U	0.18 U	0.18 U
Chlorobenzene	50	0.19 U	0.19 U	0.19 U	0.19 U
Chloroethane	NS	0.22 U	0.22 U	0.22 U	0.22 U
Chloroform	70	0.16 U	0.16 U	4.5	4.3
Chloromethane	NS	0.29 U	0.29 U	0.29 U	0.29 U
Dibromochloromethane	1	0.16 U	0.16 U	0.16 U	0.16 U
1,1-Dichloroethane	50	0.24 U	0.24 U	0.24 U	0.24 U
1,2-Dichloroethane	2	0.35 U	0.35 U	0.35 U	0.35 U
1,1-Dichloroethene	1	0.29 U	0.29 U	0.29 U	0.29 U
cis-1,2-Dichloroethene	70	0.25 U	0.25 U	0.25 U	0.25 U
trans-1,2-Dichloroethene	100	0.16 U	0.16 U	0.16 U	0.16 U
trans-1,2-Dichloroethene (total)	70	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichloropropane	1	0.18 U	0.18 U	0.18 U	0.18 U
cis-1,3-Dichloropropene	NS	0.18 U	0.18 U	0.18 U	0.18 U
trans-1,3-Dichloropropene	NS	0.15 U	0.15 U	0.15 U	0.15 U
Ethylbenzene	700	0.27 U	0.27 U	0.27 U	0.27 U
2-Hexanone	NS	1.7 U	1.7 U	1.7 U	1.7 U
4-Methyl-2-pentanone(MIBK)	NS	1.3 U	1.3 U	1.3 U	1.3 U
Methylene chloride	3	0.16 U	0.16 U	0.16 U	0.16 U
Styrene	100	0.17 U	0.17 U	0.17 U	0.17 U
1,1,2,2-Tetrachloroethane	1	0.13 U	0.13 U	0.13 U	0.13 U
Tetrachloroethene	1	0.30 J	0.29 U	0.29 U	0.29 U
Toluene	600	0.15 U	0.15 U	0.15 U	0.15 U
1,1,1-Trichloroethane	30	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	3	0.17 U	0.17 U	0.17 U	0.17 U
Trichloroethene	1	0.18 U	0.18 U	0.18 U	0.18 U
Vinyl chloride	1	0.21 U	0.21 U	0.21 U	0.21 U
Xylene (total)	1000	0.39 U	0.39 U	0.39 U	0.39 U
TOTAL TARGETED GC/MS Volatiles (ppb)		0.3	0	12.8	12.8
Total TIC, Volatile	NS	0	0	0	0
TOTAL NON-TARGETED GC/MS Volatiles (ppb)	NS	0	0	0	0
TOTAL GC/MS Volatiles (ppb)		0.3	0	12.8	12.8

Table 3
Summary of Groundwater Analytical Results - December 15, 2008
Camden Redevelopment Agency
ABC Barrel Site, 314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	Ground Water Criteria	TCLP Maximum Contaminant Concentrations	MW-4 JA8234-1 12/15/2008 1 Ground Water	REP121508 JA8234-2 12/15/2008 1 Ground Water	FB121508 JA8234-3 12/15/2008 1 Field Blank Water
GC/MS Semi-volatiles (ppb) (SW846 8270C BY SIM)					
Acenaphthene	400	NS	0.016 U	0.016 U	0.025 U
Acenaphthylene	NS	NS	0.0071 U	0.0072 U	0.011 U
Anthracene	2000	NS	0.021 U	0.022 U	0.032 U
Benzo(a)anthracene	0.1	NS	0.034 U	0.035 U	0.052 U
Benzo(a)pyrene	0.1	NS	0.036 U	0.037 U	0.055 U
Benzo(b)fluoranthene	0.2	NS	0.017 U	0.018 U	0.026 U
Benzo(g,h,i)perylene	NS	NS	0.012 U	0.012 U	0.018 U
Benzo(k)fluoranthene	0.5	NS	0.019 U	0.019 U	0.029 U
Chrysene	5	NS	0.018 U	0.018 U	0.027 U
Dibenzo(a,h)anthracene	0.3	NS	0.021 U	0.021 U	0.031 U
Fluoranthene	300	NS	0.0098 U	0.0099 U	0.015 U
Fluorene	300	NS	0.020 U	0.020 U	0.030 U
Hexachlorobenzene	0.02	130	0.010 U	0.010 U	0.015 U
Indeno(1,2,3-cd)pyrene	0.2	NS	0.015 U	0.015 U	0.022 U
Naphthalene	300	NS	0.014 U	0.014 U	0.021 U
Phenanthrene	NS	NS	0.017 U	0.018 U	0.026 U
Pyrene	200	NS	0.012 U	0.012 U	0.019 U
TOTAL TARGETED GC/MS Semi-volatiles (ppb)			0	0	0

Table 3
Summary of Groundwater Analytical Results - December 15, 2008
Camden Redevelopment Agency
ABC Barrel Site, 314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	Ground Water Criteria	TCLP Maximum Contaminant Concentrations	MW-4 JA8234-1 12/15/2008 1	REP121508 JA8234-2 12/15/2008 1	FB121508 JA8234-3 12/15/2008 1	TB121508 JA8234-4 12/15/2008
			Ground Water	Ground Water	Field Blank Water	Trip Blank Water
GC/MS Semi-volatiles (ppb) (SW946 8270C)						
4-Bromophenyl phenyl ether	NS	NS	0.42 U	0.43 U	0.64 U	NA
Butyl benzyl phthalate	100	NS	0.43 U	0.43 U	0.64 U	NA
2-Chloronaphthalene	600	NS	0.49 U	0.50 U	0.74 U	NA
4-Chloroaniline	30	NS	0.34 U	0.34 U	0.51 U	NA
Carbazole	NS	NS	0.46 U	0.46 U	0.69 U	NA
bis(2-Chloroethoxy)methane	NS	NS	0.53 U	0.53 U	0.80 U	NA
bis(2-Chloroethyl)ether	7	NS	0.50 U	0.51 U	0.76 U	NA
bis(2-Chloroisopropyl)ether	300	NS	0.56 U	0.56 U	0.84 U	NA
4-Chlorophenyl phenyl ether	NS	NS	0.46 U	0.47 U	0.70 U	NA
1,2-Dichlorobenzene	600	NS	0.36 U	0.36 U	0.54 U	NA
1,3-Dichlorobenzene	75	7500	0.36 U	0.36 U	0.51 U	NA
1,4-Dichlorobenzene	NS	130	0.46 U	0.47 U	0.70 U	NA
2,4-Dinitrotoluene	NS	NS	0.61 U	0.62 U	0.93 U	NA
2,6-Dinitrotoluene	30	NS	4.6 U	4.7 U	7.0 U	NA
3,3'-Dichlorobenzidine	NS	NS	0.50 U	0.50 U	0.75 U	NA
Dibenzofuran	700	NS	0.51 U	0.51 U	0.77 U	NA
Di-n-butyl phthalate	100	NS	0.51 U	0.51 U	0.76 U	NA
Di-n-octyl phthalate	6000	NS	0.37 U	0.37 U	0.55 U	NA
Diethyl phthalate	NS	NS	0.37 U	0.37 U	0.56 U	NA
Dimethyl phthalate	3	NS	0.77 U	0.77 U	1.2 U	NA
bis(2-Ethylhexyl)phthalate	1	500	0.38 U	0.39 U	0.58 U	NA
Hexachlorobutadiene	40	NS	4.6 U	4.7 U	7.0 U	NA
Hexachlorocyclopentadiene	7	3000	0.31 U	0.31 U	0.46 U	NA
Hexachloroethane	40	NS	0.71 U	0.71 U	1.1 U	NA
Isophorone	NS	NS	0.44 U	0.45 U	0.67 U	NA
2-Methylnaphthalene	NS	NS	0.45 U	0.46 U	0.68 U	NA
3-Nitroaniline	NS	NS	0.46 U	0.46 U	0.69 U	NA
4-Nitroaniline	NS	NS	0.46 U	0.47 U	0.70 U	NA
Nitrobenzene	6	2000	0.67 U	0.68 U	1.0 U	NA
N-Nitroso-di-n-propylamine	10	NS	0.40 U	0.41 U	0.61 U	NA
N-Nitrosodiphenylamine	10	NS	0.62 U	0.63 U	0.93 U	NA
1,2,4-Trichlorobenzene	9	NS	0.38 U	0.38 U	0.57 U	NA
TOTAL TARGETED GC/MS Semi-volatiles (ppb)	NS	NS	0	0	0	0
TOTAL NON-TARGETED GC/MS Semi-volatiles (ppb)			0	0	0	0
TOTAL GC/MS Semi-volatiles (ppb)			0	0	0	0

FIGURES

ATTACHMENTS

ATTACHMENT 1
September 2007 Screening Results

Summary of September 2007 Groundwater Screening Results
Camden Redevelopment Agency
ABC Barrel Site
314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	Ground Water Criteria	TCLP Maximum Concentrations	GW-1 J70790-1 9/6/2007 1	FB-1 J70790-2 9/6/2007 1	TRIP BLANK J70790-3 9/6/2007
GC/MS Semi-volatiles (ppb) (SW846 8270C BY SM)			Ground Water	Field Blank Water	Trip Blank Water
Acenaphthene	400	NS	2.43	0.018 U	NA
Acenaphthylene	NS	NS	0.0095 U	0.0099 U	NA
Anthracene	2000	NS	0.956	0.022 U	NA
Benazidine	20	NS	0.28 U	0.29 U	NA
Benzo(a)anthracene	0.1	NS	0.688	0.0071 U	NA
Benzo(a)pyrene	0.1	NS	0.437	0.018 U	NA
Benzo(b)fluoranthene	0.2	NS	0.836	0.038 U	NA
Benzo(g,h,i)perylene	NS	NS	0.279	0.019 U	NA
Benzo(k)fluoranthene	0.5	NS	0.016 U	0.016 U	NA
4-Bromophenyl phenyl ether	NS	NS	0.30 U	0.31 U	NA
Butyl benzyl phthalate	100	NS	0.59 U	0.62 U	NA
2-Chloronaphthalene	600	NS	0.98 U	1.0 U	NA
4-Chloroaniline	30	NS	0.40 U	0.41 U	NA
Chrysene	5	NS	0.810	0.017 U	NA
bis(2-Chloroethoxy)methane	NS	NS	0.65 U	0.68 U	NA
bis(2-Chloroethyl)ether	7	NS	0.53 U	0.55 U	NA
bis(2-Chloroisopropyl)ether	300	NS	0.74 U	0.77 U	NA
4-Chlorophenyl phenyl ether	NS	NS	0.43 U	0.45 U	NA
1,2-Dichlorobenzene	600	NS	0.21 U	0.22 U	NA
1,2-Diphenylhydrazine	20	NS	0.45 U	0.47 U	NA
1,3-Dichlorobenzene	600	NS	0.16 U	0.17 U	NA
1,4-Dichlorobenzene	75	NS	0.18 U	0.19 U	NA
2,4-Dinitrotoluene	NS	7500	0.86 U	0.90 U	NA
2,6-Dinitrotoluene	NS	130	0.56 U	0.58 U	NA
3,3'-Dichlorobenzidine	30	NS	1.2 U	1.3 U	NA
Dibenz(a,h)anthracene	0.3	NS	0.016 U	0.017 U	NA
Di-n-butyl phthalate	700	NS	0.59 U	0.62 U	NA
Di-n-octyl phthalate	100	NS	0.57 U	0.59 U	NA
Diethyl phthalate	6000	NS	0.39 U	0.41 U	NA
Dimethyl phthalate	NS	NS	0.33 U	0.34 U	NA
bis(2-Ethylhexyl)phthalate	3	NS	1.7 J	0.69 U	NA
Fluoranthene	300	NS	1.89	0.0094 U	NA
Fluorene	300	NS	3.64	0.021 U	NA
Hexachlorobenzene	0.02	130	0.020 U	0.021 U	NA
Hexachlorobutadiene	1	500	0.18 U	0.18 U	NA
Hexachlorocyclopentadiene	40	NS	0.41 U	0.42 U	NA
Hexachloroethane	7	3000	0.28 U	0.29 U	NA
Indeno(1,2,3-cd)pyrene	0.2	NS	0.256	0.012 U	NA
Isophorone	40	NS	0.59 U	0.61 U	NA
Naphthalene	300	NS	3.21	0.027 U	NA
Nitrobenzene	6	2000	0.42 U	0.44 U	NA
n-Nitrosodimethylamine	0.8	NS	0.46 U	0.48 U	NA
n-Nitroso-d-n-propylamine	10	NS	0.47 U	0.49 U	NA
n-Nitrosodiphenylamine	10	NS	0.52 U	0.54 U	NA
Phenanthrene	NS	NS	8.1	NA	NA
Phenanthrene	NS	NS	NA	0.022 U	NA
Pyrene	200	NS	1.52	0.015 U	NA
1,2,4-Trichlorobenzene	9	NS	0.34 U	0.35 U	NA
TOTAL TARGETED GC/MS Semi-volatiles (ppb)		NS	26.652	0	0
TOTAL NON-TARGETED GC/MS Semi-volatiles (ppb)		NS	388.2 J	0	0
TOTAL GC/MS Semi-volatiles (ppb)		NS	26.652	0	0

Outlined indicates that the concentration exceeded the NJDEP Groundwater Quality Criteria

Summary of September 2007 Groundwater Screening Results
Camden Redevelopment Agency
ABC Barrel Site
314-322 N. Front Street, Camden, NJ

Sample ID: Laboratory Sample ID: Sampling Date: Dilution Factor(s): Sampling Depth (feet): Matrix:	Ground Water Criteria	TCLP Maximum Contaminant Concentrations	GW-1 J70790-1 9/6/2007 1 Ground Water	FB-1 J70790-2 9/6/2007 1 Field Blank Water	TRIP BLANK J70790-3 9/6/2007 1 Trip Blank Water
GC/MS Volatiles (ppb) (SW846 8260B)					
Acetone	6000	NS	6.0 J	2.9 U	2.9 U
Benzene	1	500	0.19 U	0.19 U	0.19 U
Bromodichloromethane	1	NS	0.15 U	0.15 U	0.15 U
Bromoform	4	NS	0.34 U	0.34 U	0.34 U
Bromomethane	10	NS	0.38 U	0.38 U	0.38 U
2-Butanone (MEK)	300	200000	2.7 U	2.7 U	2.7 U
Carbon disulfide	700	NS	0.14 U	0.14 U	0.14 U
Carbon tetrachloride	1	500	0.19 U	0.19 U	0.19 U
Chlorobenzene	50	100000	0.19 U	0.19 U	0.19 U
Chloroethane	NS	NS	0.67 U	0.67 U	0.67 U
Chloroform	70	6000	0.25 U	0.25 U	0.25 U
Chloromethane	NS	NS	0.30 U	0.30 U	0.30 U
Dibromochloromethane	1	NS	0.28 U	0.28 U	0.28 U
1,1-Dichloroethane	50	NS	0.20 U	0.20 U	0.20 U
1,2-Dichloroethane	2	500	0.29 U	0.29 U	0.29 U
1,1-Dichloroethene	1	700	0.28 U	0.28 U	0.28 U
cis-1,2-Dichloroethene	70	NS	0.36 J	0.27 U	0.27 U
trans-1,2-Dichloroethene	100	NS	0.32 U	0.32 U	0.32 U
1,2-Dichloropropane	1	NS	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene	NS	NS	0.13 U	0.13 U	0.13 U
trans-1,3-Dichloropropene	NS	NS	0.17 U	0.17 U	0.17 U
Ethylbenzene	700	NS	0.21 U	0.21 U	0.21 U
2-Hexanone	NS	NS	0.94 U	0.94 U	0.94 U
4-Methyl-2-pentanone(MIBK)	NS	NS	1.4 U	1.4 U	1.4 U
Methylene chloride	3	NS	0.21 U	0.21 U	0.21 U
Styrene	100	NS	0.21 U	0.21 U	0.21 U
1,1,2,2-Tetrachloroethane	1	NS	0.20 U	0.20 U	0.20 U
Tetrachloroethene	1	NS	0.80 U	0.80 U	0.80 U
Toluene	1000	700	0.35 J	0.28 U	0.28 U
1,1,1-Trichloroethane	30	NS	0.21 U	0.21 U	0.21 U
1,1,2-Trichloroethane	3	NS	0.30 U	0.30 U	0.30 U
Trichloroethene	1	NS	0.49 U	0.49 U	0.49 U
Vinyl chloride	1	500	0.26 U	0.26 U	0.26 U
Xylene (total)	1	200	0.22 U	0.22 U	0.22 U
TOTAL TARGETED GC/MS Volatiles (ppb)	1000	NS	4.5	0.20 U	0.20 U
Total TIC, Volatile	NS	NS	11.21	0	0
TOTAL NON-TARGETED GC/MS Volatiles (ppb)	NS	NS	121.3 J	0	11 J
TOTAL GC/MS Volatiles (ppb)	NS	NS	121.3 J	0	11 J
			11.21	0	0

ATTACHMENT 2

Soil Boring/Well logs, Groundwater Sampling logs,
Well Records/Form B's

Soil Boring/Well Logs

Soil Boring/Well Details: B-3/TW-1

Project No: B-904-01

Project: ABC Barrel

Client: Camden Red. Agency

Location: Camden, NJ

Northing: 407063.525

Easting: 316939.521

Elevation: 0

Total Depth: 20 feet

Water Level: 10.82 feet

Sampling Method: Bailor

Sample Interval: Water Table

Logged By: Ray Glover

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)			
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation		
GW-1	NA	NA	5.5	1		Light orange cf SAND and cf GRAVEL (bricks and concrete pieces), dry.	No odor, no stain.	<div>Temporary Well</div> <div>Riser pipe</div> <div>No.1 well gravel</div> <div>2 inch 0.01 slot well screen</div> <div>Ground-water level</div>	-1			
			0	2		Red brown mf SAND, tr SILT, GRAVEL, dry.			-2			
			0	3		Dark red brown cf SAND, little to some fm gravel, tr c gravel (based upon drilling), moist.			-3			
			0	4		Rubble, debris (Based upon drilling).			-4			
			0	5					-5			
			0	6		Brown mf SAND, trace to little c sand and gravel, tr Silt, little resistance to drilling.	No odor, no stain.		-6			
			0	7	-7							
			0	8	-8							
			0	9	-9							
			6.5	10		Dark brown to very dark gray mf SAND, tr to little c Sand, little to some Gravel, tr Silt and Clay. Very moist to wet.	No odor, no stain.		-10			
			0	11			No odor, no stain.		-11			
			8.5	12			No odor, no stain.		-12			
			0	13		Very dark gray-brown mf SAND, little to some Gravel, trace Silt and Clay, wet	No odor, no stain.		-13			
			0	14					-14			
			0	15					-15			
			8.5	16		Yellow-brown mf SAND, little Silt, trace fc Sand, trace Gravel (quartz), wet.			-16			
			0	17					-17			
			0	18		Nat. Natural material, no odor, no sheen.			-18			
			0	19								-19
			0	20								-20

Drilling Company: Tabasco Drilling
 Driller: William Lightner
 Drilling Method: Hollow-stem auger
 Auger Size: 6 1/4 in OD/ 4 in ID
 Hole Diameter: 6 1/4 " in

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter:
 Date Start: 9/6/07
 Date Finish: 9/6/07
 Checked By: RG
 Sheet 1 of 1

Soil Boring/Well Details: MW-4

Project No: B-904-03

Project: ABC Barrel

Client: Camden Redevelopment Agency

Location: Camden, NJ

Northing: 407060.3041

Easting: 316938.2953

Elevation: 12.74

Total Depth: 18'

Water Level: 12'

Sampling Method: Split Spoon

Sample Interval: 2'

Logged By: LAM

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
	-	10	0.0	1		Lt. Orange and Red to Red Brown mf SAND, trace Silt, trace Clay, little to some cf Brick pieces, debris, some f Gravel.	Fill	Dry to moist, no odor, no stains.		-1
	-		0.0	2						-2
	6	16	0.0	3						-3
	9		0.2	4						-4
	8		0.0	5	-5					
	10		0.4	6	-6					
	14	16	0.0	7		Dark Gray mf SAND, little Silt, little cf Gravel, little Brick.	Fill	Moist, no odor, no stains.		-7
	21		0.3	8						-8
	50 1/4		0.5	9						-9
			0.2	10						-10
	5	12	0.0	11		Dark Gray mf SAND, little Silt, some Red Brick, little cf Gravel.		Dry, no odor, no stains.		-11
	6		0.0	12						-12
	7		0.0	13						-13
	9		0.0	14						-14
	5	12	0.0	15		Greenish Gray mf SAND, little Gray Silt, trace cf Gravel, little Red Brick.	Fill	Moist, no odor, no stains.		-15
	6		0.0	16						-16
	7		0.0	17						-17
	9		0.0	18						-18
	10	14	0.0	19		Dark Gray cf SAND, little Gray Silt, cf Gravel.		Wet, no odor, no stains.		-19
	11		0.0	20						-20
			0.0							
			0.0							
	7	10.5	0.0	21		Dark Gray cm SAND, little Gray Silt, cf Gravel.		Moist, no odor, no stains.	-21	
	5		0.0	22					-22	
	18		0.0	23					-23	
	21		0.0	24					-24	
	7	14	0.0	25		End of Boring			-25	
	15		0.0	26					-26	
	19		0.0	27					-27	
	21		0.0	28					-28	
			0.0	29					-29	
			0.0	30					-30	

Drilling Company: Tabasco Drilling
 Driller: William Lightner/William Anderson
 Drilling Method: Hollow Stem Auger
 Auger Size: 6 1/4" ID
 Hole Diameter: 10"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: 4"
 Date Start: 10/07/08
 Date Finish: 10/7/08
 Checked By: RG
 Sheet 1 of 1

Groundwater Sampling Logs

Sheet 1 of 1[illegible]

Sheet 1 of 1

[illegible]

Well Records / Form B's

DWR-133M
1/06

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

P-0008-1101
P-0008-1101

Mail To:

NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

Permit No.

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #

31.01.1046

Owner CAMDEN REDEVELOPMENT AGENCY
Address CAMDEN CITY HALL, SUITE 1300, BOX 1520
CAMDEN, N.J. 08102

Driller TABASCO DRILLING CO. INC.
Address P.O. BOX 1-74
INT. 17126 115 COLTY

Name of Facility ABC BAKERY COMPANY S. 7E
Address 314-222 N. FRONT STREET
CAMDEN, N.J. 08102

Depth of Well (ft)	4	Proposed Depth of Well (ft)	20	Feet
# of Wells	2	Will pumping equipment be utilized?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Applied for (max. 10)	2	If Yes, give pump capacity	1/4	cumulative GPM
Type of Well (see reverse)	PI			

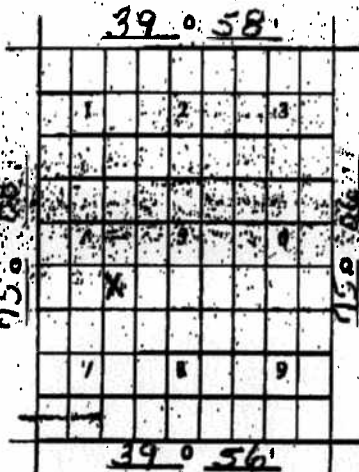
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
3-44-		CAMDEN	CAMDEN

State Atlas Map No.

31

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.


MW1-316833
MW2-316722
HORIZONTAL
N. FRONT STREET
130' to 140' to 150' to 160' to 170' to 180' to 190' to 200' to 210' to 220' to 230' to 240' to 250' to 260' to 270' to 280' to 290' to 300' to 310' to 320' to 330' to 340' to 350' to 360' to 370' to 380' to 390' to 400' to 410' to 420' to 430' to 440' to 450' to 460' to 470' to 480' to 490' to 500' to 510' to 520' to 530' to 540' to 550' to 560' to 570' to 580' to 590' to 600' to 610' to 620' to 630' to 640' to 650' to 660' to 670' to 680' to 690' to 700' to 710' to 720' to 730' to 740' to 750' to 760' to 770' to 780' to 790' to 800' to 810' to 820' to 830' to 840' to 850' to 860' to 870' to 880' to 890' to 900' to 910' to 920' to 930' to 940' to 950' to 960' to 970' to 980' to 990' to 1000' to 1010' to 1020' to 1030' to 1040' to 1050' to 1060' to 1070' to 1080' to 1090' to 1100' to 1110' to 1120' to 1130' to 1140' to 1150' to 1160' to 1170' to 1180' to 1190' to 1200' to 1210' to 1220' to 1230' to 1240' to 1250' to 1260' to 1270' to 1280' to 1290' to 1300' to 1310' to 1320' to 1330' to 1340' to 1350' to 1360' to 1370' to 1380' to 1390' to 1400' to 1410' to 1420' to 1430' to 1440' to 1450' to 1460' to 1470' to 1480' to 1490' to 1500' to 1510' to 1520' to 1530' to 1540' to 1550' to 1560' to 1570' to 1580' to 1590' to 1600' to 1610' to 1620' to 1630' to 1640' to 1650' to 1660' to 1670' to 1680' to 1690' to 1700' to 1710' to 1720' to 1730' to 1740' to 1750' to 1760' to 1770' to 1780' to 1790' to 1800' to 1810' to 1820' to 1830' to 1840' to 1850' to 1860' to 1870' to 1880' to 1890' to 1900' to 1910' to 1920' to 1930' to 1940' to 1950' to 1960' to 1970' to 1980' to 1990' to 2000' to 2010' to 2020' to 2030' to 2040' to 2050' to 2060' to 2070' to 2080' to 2090' to 2100' to 2110' to 2120' to 2130' to 2140' to 2150' to 2160' to 2170' to 2180' to 2190' to 2200' to 2210' to 2220' to 2230' to 2240' to 2250' to 2260' to 2270' to 2280' to 2290' to 2300' to 2310' to 2320' to 2330' to 2340' to 2350' to 2360' to 2370' to 2380' to 2390' to 2400' to 2410' to 2420' to 2430' to 2440' to 2450' to 2460' to 2470' to 2480' to 2490' to 2500' to 2510' to 2520' to 2530' to 2540' to 2550' to 2560' to 2570' to 2580' to 2590' to 2600' to 2610' to 2620' to 2630' to 2640' to 2650' to 2660' to 2670' to 2680' to 2690' to 2700' to 2710' to 2720' to 2730' to 2740' to 2750' to 2760' to 2770' to 2780' to 2790' to 2800' to 2810' to 2820' to 2830' to 2840' to 2850' to 2860' to 2870' to 2880' to 2890' to 2900' to 2910' to 2920' to 2930' to 2940' to 2950' to 2960' to 2970' to 2980' to 2990' to 3000' to 3010' to 3020' to 3030' to 3040' to 3050' to 3060' to 3070' to 3080' to 3090' to 3100' to 3110' to 3120' to 3130' to 3140' to 3150' to 3160' to 3170' to 3180' to 3190' to 3200' to 3210' to 3220' to 3230' to 3240' to 3250' to 3260' to 3270' to 3280' to 3290' to 3300' to 3310' to 3320' to 3330' to 3340' to 3350' to 3360' to 3370' to 3380' to 3390' to 3400' to 3410' to 3420' to 3430' to 3440' to 3450' to 3460' to 3470' to 3480' to 3490' to 3500' to 3510' to 3520' to 3530' to 3540' to 3550' to 3560' to 3570' to 3580' to 3590' to 3600' to 3610' to 3620' to 3630' to 3640' to 3650' to 3660' to 3670' to 3680' to 3690' to 3700' to 3710' to 3720' to 3730' to 3740' to 3750' to 3760' to 3770' to 3780' to 3790' to 3800' to 3810' to 3820' to 3830' to 3840' to 3850' to 3860' to 3870' to 3880' to 3890' to 3900' to 3910' to 3920' to 3930' to 3940' to 3950' to 3960' to 3970' to 3980' to 3990' to 4000' to 4010' to 4020' to 4030' to 4040' to 4050' to 4060' to 4070' to 4080' to 4090' to 4100' to 4110' to 4120' to 4130' to 4140' to 4150' to 4160' to 4170' to 4180' to 4190' to 4200' to 4210' to 4220' to 4230' to 4240' to 4250' to 4260' to 4270' to 4280' to 4290' to 4300' to 4310' to 4320' to 4330' to 4340' to 4350' to 4360' to 4370' to 4380' to 4390' to 4400' to 4410' to 4420' to 4430' to 4440' to 4450' to 4460' to 4470' to 4480' to 4490' to 4500' to 4510' to 4520' to 4530' to 4540' to 4550' to 4560' to 4570' to 4580' to 4590' to 4600' to 4610' to 4620' to 4630' to 4640' to 4650' to 4660' to 4670' to 4680' to 4690' to 4700' to 4710' to 4720' to 4730' to 4740' to 4750' to 4760' to 4770' to 4780' to 4790' to 4800' to 4810' to 4820' to 4830' to 4840' to 4850' to 4860' to 4870' to 4880' to 4890' to 4900' to 4910' to 4920' to 4930' to 4940' to 4950' to 4960' to 4970' to 4980' to 4990' to 5000' to 5010' to 5020' to 5030' to 5040' to 5050' to 5060' to 5070' to 5080' to 5090' to 5100' to 5110' to 5120' to 5130' to 5140' to 5150' to 5160' to 5170' to 5180' to 5190' to 5200' to 5210' to 5220' to 5230' to 5240' to 5250' to 5260' to 5270' to 5280' to 5290' to 5300' to 5310' to 5320' to 5330' to 5340' to 5350' to 5360' to 5370' to 5380' to 5390' to 5400' to 5410' to 5420' to 5430' to 5440' to 5450' to 5460' to 5470' to 5480' to 5490' to 5500' to 5510' to 5520' to 5530' to 5540' to 5550' to 5560' to 5570' to 5580' to 5590' to 5600' to 5610' to 5620' to 5630' to 5640' to 5650' to 5660' to 5670' to 5680' to 5690' to 5700' to 5710' to 5720' to 5730' to 5740' to 5750' to 5760' to 5770' to 5780' to 5790' to 5800' to 5810' to 5820' to 5830' to 5840' to 5850' to 5860' to 5870' to 5880' to 5890' to 5900' to 5910' to 5920' to 5930' to 5940' to 5950' to 5960' to 5970' to 5980' to 5990' to 6000' to 6010' to 6020' to 6030' to 6040' to 6050' to 6060' to 6070' to 6080' to 6090' to 6100' to 6110' to 6120' to 6130' to 6140' to 6150' to 6160' to 6170' to 6180' to 6190' to 6200' to 6210' to 6220' to 6230' to 6240' to 6250' to 6260' to 6270' to 6280' to 6290' to 6300' to 6310' to 6320' to 6330' to 6340' to 6350' to 6360' to 6370' to 6380' to 6390' to 6400' to 6410' to 6420' to 6430' to 6440' to 6450' to 6460' to 6470' to 6480' to 6490' to 6500' to 6510' to 6520' to 6530' to 6540' to 6550' to 6560' to 6570' to 6580' to 6590' to 6600' to 6610' to 6620' to 6630' to 6640' to 6650' to 6660' to 6670' to 6680' to 6690' to 6700' to 6710' to 6720' to 6730' to 6740' to 6750' to 6760' to 6770' to 6780' to 6790' to 6800' to 6810' to 6820' to 6830' to 6840' to 6850' to 6860' to 6870' to 6880' to 6890' to 6900' to 6910' to 6920' to 6930' to 6940' to 6950' to 6960' to 6970' to 6980' to 6990' to 7000' to 7010' to 7020' to 7030' to 7040' to 7050' to 7060' to 7070' to 7080' to 7090' to 7100' to 7110' to 7120' to 7130' to 7140' to 7150' to 7160' to 7170' to 7180' to 7190' to 7200' to 7210' to 7220' to 7230' to 7240' to 7250' to 7260' to 7270' to 7280' to 7290' to 7300' to 7310' to 7320' to 7330' to 7340' to 7350' to 7360' to 7370' to 7380' to 7390' to 7400' to 7410' to 7420' to 7430' to 7440' to 7450' to 7460' to 7470' to 7480' to 7490' to 7500' to 7510' to 7520' to 7530' to 7540' to 7550' to 7560' to 7570' to 7580' to 7590' to 7600' to 7610' to 7620' to 7630' to 7640' to 7650' to 7660' to 7670' to 7680' to 7690' to 7700' to 7710' to 7720' to 7730' to 7740' to 7750' to 7760' to 7770' to 7780' to 7790' to 7800' to 7810' to 7820' to 7830' to 7840' to 7850' to 7860' to 7870' to 7880' to 7890' to 7900' to 7910' to 7920' to 7930' to 7940' to 7950' to 7960' to 7970' to 7980' to 7990' to 8000' to 8010' to 8020' to 8030' to 8040' to 8050' to 8060' to 8070' to 8080' to 8090' to 8100' to 8110' to 8120' to 8130' to 8140' to 8150' to 8160' to 8170' to 8180' to 8190' to 8200' to 8210' to 8220' to 8230' to 8240' to 8250' to 8260' to 8270' to 8280' to 8290' to 8300' to 8310' to 8320' to 8330' to 8340' to 8350' to 8360' to 8370' to 8380' to 8390' to 8400' to 8410' to 8420' to 8430' to 8440' to 8450' to 8460' to 8470' to 8480' to 8490' to 8500' to 8510' to 8520' to 8530' to 8540' to 8550' to 8560' to 8570' to 8580' to 8590' to 8600' to 8610' to 8620' to 8630' to 8640' to 8650' to 8660' to 8670' to 8680' to 8690' to 8700' to 8710' to 8720' to 8730' to 8740' to 8750' to 8760' to 8770' to 8780' to 8790' to 8800' to 8810' to 8820' to 8830' to 8840' to 8850' to 8860' to 8870' to 8880' to 8890' to 8900' to 8910' to 8920' to 8930' to 8940' to 8950' to 8960' to 8970' to 8980' to 8990' to 9000' to 9010' to 9020' to 9030' to 9040' to 9050' to 9060' to 9070' to 9080' to 9090' to 9100' to 9110' to 9120' to 9130' to 9140' to 9150' to 9160' to 9170' to 9180' to 9190' to 9200' to 9210' to 9220' to 9230' to 9240' to 9250' to 9260' to 9270' to 9280' to 9290' to 9300' to 9310' to 9320' to 9330' to 9340' to 9350' to 9360' to 9370' to 9380' to 9390' to 9400' to 9410' to 9420' to 9430' to 9440' to 9450' to 9460' to 9470' to 9480' to 9490' to 9500' to 9510' to 9520' to 9530' to 9540' to 9550' to 9560' to 9570' to 9580' to 9590' to 9600' to 9610' to 9620' to 9630' to 9640' to 9650' to 9660' to 9670' to 9680' to 9690' to 9700' to 9710' to 9720' to 9730' to 9740' to 9750' to 9760' to 9770' to 9780' to 9790' to 9800' to 9810' to 9820' to 9830' to 9840' to 9850' to 9860' to 9870' to 9880' to 9890' to 9900' to 9910' to 9920' to 9930' to 9940' to 9950' to 9960' to 9970' to 9980' to 9990' to 10000'

PROPOSED WELL LOCATION (NAD-83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 407086

EASTING: 316722

LATITUDE:

LONGITUDE:

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Spill Site
- ☐ Underground Storage Tank Site
- ☐ ISRA Site
- ☐ Operational Ground Water Permit Site
- ☐ CERCLA (Superfund) Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☒ Other (Specify): For Monitoring Purposes Only

CASB I.D. Number

This Space for Approval:

WELL PERMIT APPROVED
N.J. D.E.P.

OCT 1 2008

BUREAU OF WATER SYSTEMS
& WELL PERMITTING

FOR D.E.P. USE

This permit is subject to the conditions attached. (see next page)

For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.A.C. 17:27A-14, application is made for a permit to drill a well as described above.

Date 7/1/08

Signature of Driller

Registration No.

Signature of Property Owner

New Jersey Department of Environmental Protection
Bureau of Water AllocationWell Permit Number
P200801109**MONITORING WELL RECORD**Atlas Sheet Coordinates
3101646**OWNER IDENTIFICATION** CAMDEN REDEVELOPMENT AGENCYAddress SUITE 1300 / PO BOX 95120 CAMDEN CITY HALLCity Camden State New Jersey Zip Code 08102**WELL LOCATION** - If not the same as owner please give addressOwner's Well No. MW-1County Camden Municipality Camden City Lot No. 38 & 45 Block No. 62Address 314-322 N. FRONT STREET / MW1 ABC BARRBL COMPANY SITE**WELL USE** MonitoringDATE WELL STARTED 10-7-08DATE WELL COMPLETED 10-7-08**WELL CONSTRUCTION**Total Depth Drilled 18 ft.Finished Well Depth 18 ft.

Borehole Diameter:

Top 10 in.Bottom 10 in.Well was finished: ☐ above grade☒ flush mountedIf finished above grade, casing height
(stick up) above land surface N/A ft.

Steel protective casing installed?

☒ Yes ☐ NoStatic Water Level after drilling 6 ft.Water Level was Measured Using M-ScopeWell was developed for .5 hoursat 2 gpmMethod of development Submersible pumpPump Capacity 2 gpmPump Type 12 Volt whalerDrilling Fluid N/A Type of Rig Diedrich D-120Health and Safety Plan Submitted? ☒ Yes ☐ NoLevel of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/ech no.)
Single/Inner Casing	0	3	4	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>.10</u>)	3	18	4	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	18	10	Mo. 1 well sand	500 lbs
Grout	0	2	10	Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method PlacementDrilling Method H2A**GEOLOGIC LOG**

Note each depth where water was encountered in consolidated formations

0-5 Fill Material, Rubel5-10 med sand10-18 med sand to fine

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TABASCO DRILLING CORPWell Driller (Print) William LightnerDriller's Signature [Signature]Registration No. MW-215733 Date 10/8/08**AS-BUILT WELL LOCATION**
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: _____ " LONGITUDE: _____ "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Camden Redevelopment Agency (CRA)

Name of Facility: ABC Barrel Company

Location: 314-322 North Front Street (Block 62, Lots 38 and 45), City of Camden, Camden County, NJ

Case Number(s) 95-09-14-1206-53 (UST #, ISRA #, Incident # or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

P200801109

(This number must be permanently affixed to the well casing)

Owners Well Number (As shown on application or plans):

MW-4

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 75° 07' 29.6"

Latitude: North 39° 56' 57.5"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 407,060

East 316,938

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

12.40

Elevation of Top of Cover

12.74

Elevation of Ground (nearest 0.1)

12.7

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

OPUS Solution, Nearest published station used NJ Inst of Tech 2 (NJ12)

Significant observations and notes:

AUTHENTICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

2/24/09
DATE

Timothy R. Corcoran, Professional Land Surveyor, New Jersey License Number 36715
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

Dresdner Robin, 4300 Haddonfield, Pennsauken, NJ 080109

PHONE: 856-488-6200

PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Camden Redevelopment Agency (CRA)

Name of Facility: ABC Barrel Company

Location: 314-322 North Front Street (Block 62, Lots 38 and 45), City of Camden, Camden County, NJ

Case Number(s) 95-09-14-1206-53 (UST #, ISRA #, Incident # or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing)

Owners Well Number (As shown on application or plans): MW-3

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 75° 07' 32.0" Latitude: North 39° 56' 57.4"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 407,058 East 316,751

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

9.07

Elevation of Top of Cover

9.46

Elevation of Ground (nearest 0.1)

9.5

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

OPUS Solution, Nearest published station used NJ Inst of Tech 2 (NJ12)

Significant observations and notes: _____

AUTHENTICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

2/24/09
DATE

Timothy R. Corcoran, Professional Land Surveyor, New Jersey License Number 36715
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

Dresdner Robin, 4300 Haddonfield, Pennsauken, NJ 080108
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

PHONE: 856-486-6200

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Camden Redevelopment Agency (CRA)

Name of Facility: ABC Barrel Company

Location: 314-322 North Front Street (Block 62, Lots 38 and 45), City of Camden, Camden County, NJ

Case Number(s) 95-09-14-1206-53 (UST #, ISRA #, Incident # or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing)

Owners Well Number (As shown on application or plans): MW-2

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 75° 07' 31.7" Latitude: North 39° 56' 58.3"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 407,146 East 316,779

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): _____

9.69

Elevation of Top of Cover _____

9.69

Elevation of Ground (nearest 0.1) _____

9.9

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

OPUS Solution, Nearest published station used NJ Inst of Tech 2 (NJ12)

Significant observations and notes: _____

AUTHENTICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

2/26/09
DATE

Timothy R. Corcoran, Professional Land Surveyor, New Jersey License Number 36715
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

Dresdner Robin, 4300 Haddonfield, Pennsauken, NJ 08010
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

PHONE: 856-488-6200

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Camden Redevelopment Agency (CRA)

Name of Facility: ABC Barrel Company

Location: 314-322 North Front Street (Block 62, Lots 38 and 45), City of Camden, Camden County, NJ

Case Number(s) 95-09-14-1208-53 (UST #, ISRA #, Incident # or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: _____

(This number must be permanently affixed to the well casing)

Owners Well Number (As shown on application or plans): MW-1

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West 75° 07' 29.9" Latitude: North 39° 56' 57.9"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 407,108 East 316,922

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'):

12.16

Elevation of Top of Cover

12.61

Elevation of Ground (nearest 0.1)

12.6

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)


OPUS Solution, Nearest published station used NJ Inst of Tech 2 (NJ12)

Significant observations and notes: _____

AUTHENTICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

2/24/07
DATE

Timothy R. Corcoran, Professional Land Surveyor, New Jersey License Number 36715

PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

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PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

ATTACHMENT 3
Laboratory Reports / EDD's