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REPORT OF LIMITED GROUNDWATER INVESTIGATION
CENTER STAR MANUFACTURING
207 WEST HAMRIC DRIVE
OXFORD, ALABAMA
BEI PROJECT NO: 3980045
DATE: September 8, 1998

Prepared for:

FIRST COMMERCIAL BANK
POST OFFICE BOX 11746
BIRMINGHAM, AL 35202-1746

ATTENTION: MR. SCOTT MATTHEWS

PREPARED BY:

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BEI
Bhate Environmental, Inc.
Environmental Engineers & Scientists

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OXFORD, ALABAMA
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1.0 BACKGROUND AND SCOPE

The subject site is located in the southwest ¼ of Section 30, Township 16 South, Range 8 East in Oxford, Calhoun County, Alabama (Figure 1). More specifically, the site is located at 207 West Hamric Drive, Oxford, Alabama. The site consists of 5.1 acres of land developed with Center Star Manufacturing, a textile manufacturer. A Phase I Environmental Site Assessment (ESA), dated March 16, 1998, was conducted by Bhate.

Among other concerns, the Phase I ESA recommended assessment activities to determine the potential for contamination from on-site and off-site sources. An unregistered underground storage tank is located west of the subject property, in a contractor's yard. Hagar Hinge, located south of the site across Highway 78, has documented volatile organic compound (VOC) releases. During two investigations of Hagar Hinge, dated August 25, 1995 and July 19, 1996, soil and groundwater contamination were discovered in the form of Trichloroethylene (TCE).

The facility ceased operations several years ago and is in bankruptcy. First Commercial Bank has requested Phase II sampling activities to assess potential environmental liability that may be incurred if they proceed with foreclosure.

The scope of work consisted of installing seven (7) temporary monitoring wells, using a Geoprobe Sampling System. All temporary monitoring wells were installed to depths at which further advancement of the probe was refused.

Two (2) wells were installed along the west boundary of the site, near the location of the unregistered UST. One (1) groundwater sample was collected from each. The samples were taken from the top of the water column and analyzed for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), by EPA Method 602.

Three (3) temporary monitoring wells were installed south of the subject building, along Highway 78. Two (2) groundwater samples were collected from each of those wells. The samples were collected from the upper and lower portions of the water column and analyzed for volatile organic compounds (VOC), by EPA Method 8260B.

One (1) temporary well each was installed inside the building near a former dye pit and north of the building in an expected upgradient location. One (1) groundwater sample was collected from each of these wells for VOC analysis.

2.0 FIELD ACTIVITIES

On June 29 and 30, 1998, Bhate personnel installed five (5) temporary monitoring wells (TMW-1 through TMW-5). TMW-1, TMW-2 and TMW-3 were installed along Highway 78, across from the Hagar Hinge facility. TMW-4 and TMW-5 were installed along the western property line, adjacent to the unregistered UST. Two (2) additional temporary wells were installed on August 5, 1998. TMW-7 was installed inside the building near a former dye pit and TMW-6 was located in the parking lot north of the building in an expected upgradient location. The temporary monitoring well locations are shown on Figure 2.

The wells were installed, using a Geoprobe Direct Push System. No soil samples were collected. The wells consisted of three-quarter (3/4) inch diameter Schedule 40 PVC casing, with well screen (0.01-inch factory slotted) attached. Well construction data are summarized in Table 1.

Groundwater samples were collected on July 2, and August 6, 1998 using a stainless steel bailer. Prior to collecting samples, each well was purged. This process was continued, until approximately three (3) well volumes of water were removed or until the well was dry. All groundwater samples were placed in labeled 40 ml vials with septum lids.

All drilling and sampling equipment were decontaminated, prior to mobilization to the site. All downhole equipment was decontaminated between each sampling location, using a laboratory grade detergent with a tap water and distilled water rinses.

Two (2) groundwater samples (upper and lower water column) were collected from each of the temporary monitoring wells TMW-1, TMW-2 and TMW-3. The "upper" groundwater sample was collected from the top of the water column and the "lower" groundwater sample was collected from the bottom of the water column in each well (Table 1). One (1) groundwater sample was collected from the top of the water column in TMW-4 and TMW-5. One (1) groundwater sample was also collected from the bottom of the water column in wells TMW-4, TMW-6 and TMW-7. All samples were placed in an insulated cooler on ice and delivered, with relevant chain-of-custody records, to Specialized Assays, Inc. for laboratory analyses.

3.0 AQUIFER CHARACTERIZATION

Water levels were measured in each temporary monitoring well on August 6, 1998. The depths to water ranged from about 7 feet to 28 feet beneath the surface. Since water levels rose considerably after well installation, it is likely the shallow aquifer exists under confined to semi-confined conditions. Water level measurements are summarized in Table 2.

The relative elevations of the top of casing for each well were determined by Bhate using a transit/level and survey rod. Relative elevations were referenced to a benchmark with an assigned elevation of 100.00 feet. The water level measurements were used to calculate relative groundwater elevations. These were used to develop a potentiometric surface map (Figure 3). Interpretation of the water table contour map indicates the direction of groundwater movement in the uppermost aquifer is to the south.

4.0 LABORATORY ANALYSIS

Groundwater samples collected from temporary wells TMW-1, TMW-2 and TMW-3, on July 2, 1998, were analyzed for VOCs by EPA Method 8260B. The laboratory analytical data indicated that the sample collected from the upper portion of TMW-1 contained Tetrachloroethene (26.9 ppb). The sample collected from the lower portion of TMW-1 also contained Tetrachloroethene (19,700 ppb). All other VOC compounds were reported as Below Method Detection Limits (BDL), for both samples collected from TMW-1. The laboratory results from the sample collected from the upper portion of TMW-2 were reported as BDL for all VOC compounds.

The groundwater sample collected from the lower portion of TMW-2 contained concentrations of cis-1,2–Dichloroethene (48.9 ppb), Tetrachloroethene (94.5 ppb), TCE (13.7 ppb) and Vinyl Chloride (3.3 ppb). The laboratory results from the sample collected from the upper portion of TMW-3 reportedly contained cis-1,2–Dichloroethene (35.9 ppb), Tetrachloroethene (72.1 ppb), 1,2,3-Trichlorobenzene (9.5 ppb), 1,2,4-Trichlorobenzene (6.2 ppb) and TCE (9.7 ppb). The sample collected from the lower portion of TMW-3 reportedly contained cis-1,2-Dichloroethene (36.5 ppb), Tetrachloroethene (67.9 ppb), 1,2,3-Trichlorobenzene (3.9 ppb), 1,2,4-Trichlorobenzene (2 ppb) and TCE (9.3 ppb).

Groundwater samples were also collected from TMW-4, and new temporary wells TMW-6, and TMW-7 on August 5, 1998. VOCs were not detected in groundwater sampled from TMW-4 and TMW-6. The sample collected from TMW-7, located next to the dye pit, contained tetrachloroethene at a concentration of 47,200 ppb and TCE at 37 ppb. These compounds have a maximum contaminant level (MCL) of 5 ppb. Other VOCs were detected in the sample but at concentrations below the respective MCLs. Laboratory reports for the groundwater samples are provided in Appendix A. A summary of the groundwater analytical data, along with applicable MCLs is included in Table 2.

Groundwater collected from temporary wells TMW-4 and TMW-5, located near the unregistered UST, were analyzed for BTEX by EPA Method 602. The laboratory analytical results indicate that the samples collected from TMW-4 and TMW-5 were reported as BDL for all BTEX components. A summary of the groundwater analytical data, along with MCLs, is included in Table 2.

Interpretation of the analytical results indicates that the highest VOC concentrations were detected in groundwater sampled from TMW-7, located near the former dye pit. VOCs were not detected in two (2) wells located upgradient from TMW-7. VOCs were detected at lesser concentrations in three (3) wells located downgradient of TMW-7. This indicates the likely source of VOCs is beneath the building near TMW-7. The elevated concentrations of Tetrachloroethene indicate dense non-aqueous phase liquid (DNAPL) may be present in the aquifer.

Contaminants may be migrating off site to the south. Currently the lateral and vertical extent of groundwater contamination and the VOC source is unknown.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Concentrations of Tetrachloroethene, Trichloroethene and Vinyl Chloride were detected in site groundwater samples at levels above the applicable ADEM MCLs. Tetrachloroethene was found in temporary well TMW-1 (upper and lower samples), TMW-2 (lower sample), TMW-3 (upper and lower sample) and TMW-7. Trichloroethylene was detected in monitoring well TMW-2 (lower sample), TMW-3 (upper and lower sample) and TMW-7. Vinyl Chloride was present in TMW-2 (lower sample). Other VOCs were present at concentrations less than the respective MCLs. Based on the VOC distribution and direction of groundwater movement, the VOC plume appears to originate beneath the Center Star Manufacturing site.

The site owner or operator is required to report the suspected release, according to CERCLA Regulations and the Alabama Water Pollution Control Act. It is recommended that First Commercial provide the property owner with a copy of this report. After the property owner notifies ADEM of the suspected release, First Commercial should enter into negotiations with ADEM to determine requirements for the site before foreclosing on the property.

6.0 CLOSING REMARKS

This report has been prepared on behalf of First Commercial Bank, for specific application to the subject site. The information presented in this report is based solely on information provided by First Commercial Bank, on information obtained during sampling, and on the results of specific laboratory analysis.

Future environmental conditions at the subject site can change, subject to future operational conditions and land usage. Changes in surrounding land use, groundwater fluctuations, geologic conditions and/or other factors may also result in altered environmental conditions. The opinions and findings of this report represent those conditions apparent at the times and dates the investigation was conducted.

This investigation was conducted in accordance with current Alabama Department of Environmental Management regulations and industry practice. No other warranties are implied or expressed.

TABLE 1
WELL CONSTRUCTION DATA
CENTER STAR MANUFACTURING
207 WEST HAMRIC DRIVE
OXFORD, ALABAMA
BEI PROJECT NO.: 3980045

Well ID #	Date Installed	Screen Interval (ft)	Total Depth (ft)
TMW-1	6/29/98	35 - 40	40
TMW-2	6/30/98	10 - 15; 30 - 35	35
TMW-3	6/30/98	5 - 15; 25 - 30	30
TMW-4	6/30/98	5 - 15; 25 - 30	30
TMW-5	6/30/98	3 - 18	18
TMW-6	8/5/98	24-39	39
TMW-7	8/5/98	32-42	42

Well locations are shown on Figure 2.

TABLE 2
WATER LEVEL MEASUREMENTS
CENTER STAR MANUFACTURING
OXFORD, ALABAMA
BEI PROJECT NO.: 3980045

Well I.D.	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Total Depth (feet)	Groundwater Elevation (feet)
TMW-1	8/6/98	71.55	7.08	39.89	64.47
TMW-2	8/6/98	NA	NA	NA	NA
TMW-3	8/6/98	77.88	11.85	29.87	66.03
TMW-4	8/6/98	86.56	10.01	18.37	76.55
TMW-5	8/6/98	97.37	13.77	29.28	83.6
TMW-6	8/6/98	94.08	9.69	39.64	84.39
TMW-7	8/6/98	93.39	28.8	42.4	64.59

NA = Well could not be located on 8/6/98

TABLE 3
GROUNDWATER ANALYTICAL DATA
CENTER STAR MANUFACTURING
207 WEST HAMRIC DRIVE
OXFORD, ALABAMA
BEI PROJECT NO.: 3980045

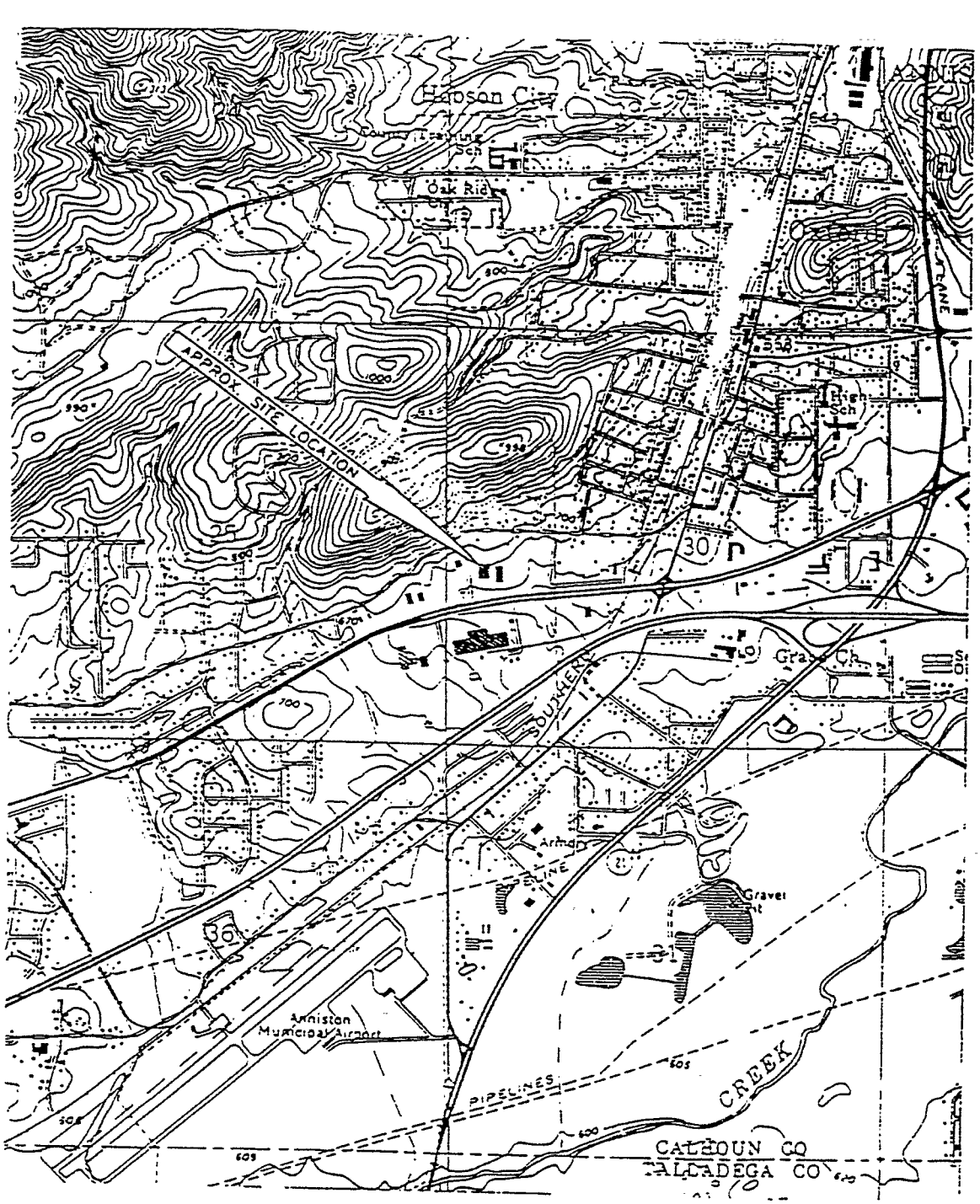
VOLATILE ORGANICS	MONITORING WELL ID#											MCL
	TMW-1		TMW-2		TMW-3		TMW-4		TMW-5	TMW-6	TMW-7	
	upper	lower	upper	lower	upper	lower	7/2/98	8/5/98				
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.6	1,000
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.1	700
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.6	10,000
cis-1,2,-Dichloroethene	BDL	BDL	BDL	48.9	35.9	36.5	NA	BDL	NA	BDL	24.9	70
Tetrachloroethene	26.9	19,700	BDL	94.5	72.1	67.9	NA	BDL	NA	BDL	47,200	5
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	9.5	3.9	NA	BDL	NA	BDL	BDL	NE
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	6.2	2.0	NA	BDL	NA	BDL	BDL	70
Trichloroethene	BDL	BDL	BDL	13.7	9.7	9.3	NA	BDL	NA	BDL	37	5
Vinyl Chloride	BDL	BDL	BDL	3.3	BDL	BDL	NA	BDL	NA	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	3.1	7
1,1,1,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	23.2	NE
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA	BDL	3.8	5

All lab results are reported in parts-per-billion (ppb)
MCL = Maximum Contaminant Level (ADEM)
BDL = Below Method Detection Limit
NA = Not Analyzed
NE = Not Established

Range 8 East

17 8 0010

Township 16 South



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Environmental Engineers & Scientists

Source: USGS 7.5. Minute Topographic Map
Oxford, Alabama Quadrangle
Dated: 1956 Photorevised: 1972

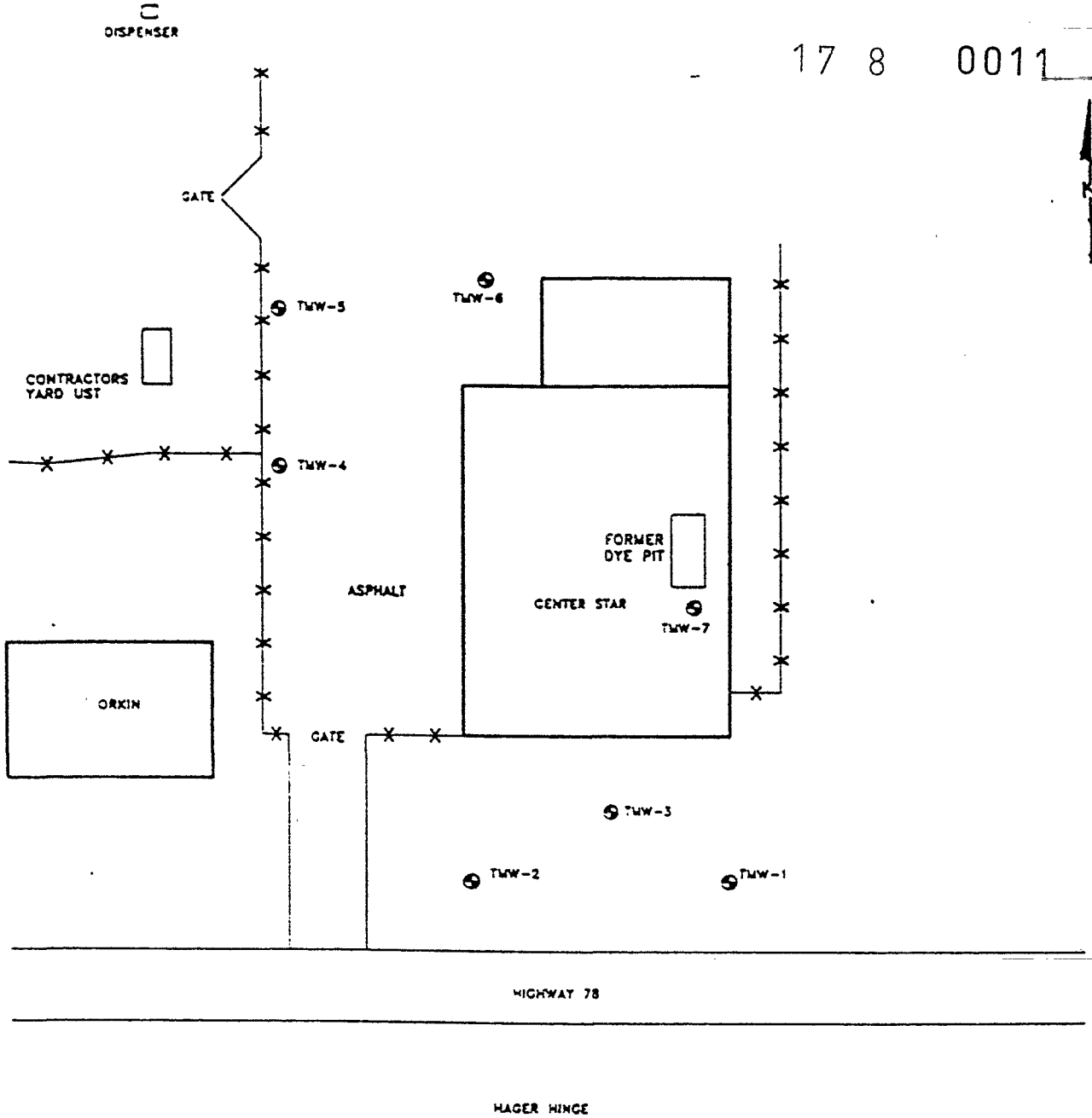
SITE LOCATION DIAGRAM

PROJECT NO.	SCALE	DATE	DRAWN BY:
3980045	1:24,000	4/15/98	DRAWING NO: fig-1

Phase II Assessment
Center Star Manufacturing
207 West Hamric Drive
Oxford, Alabama

Figure 1

17 8 0011



LEGEND

TEMPORARY MONITORING WELL LOCATION

NOTE: This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

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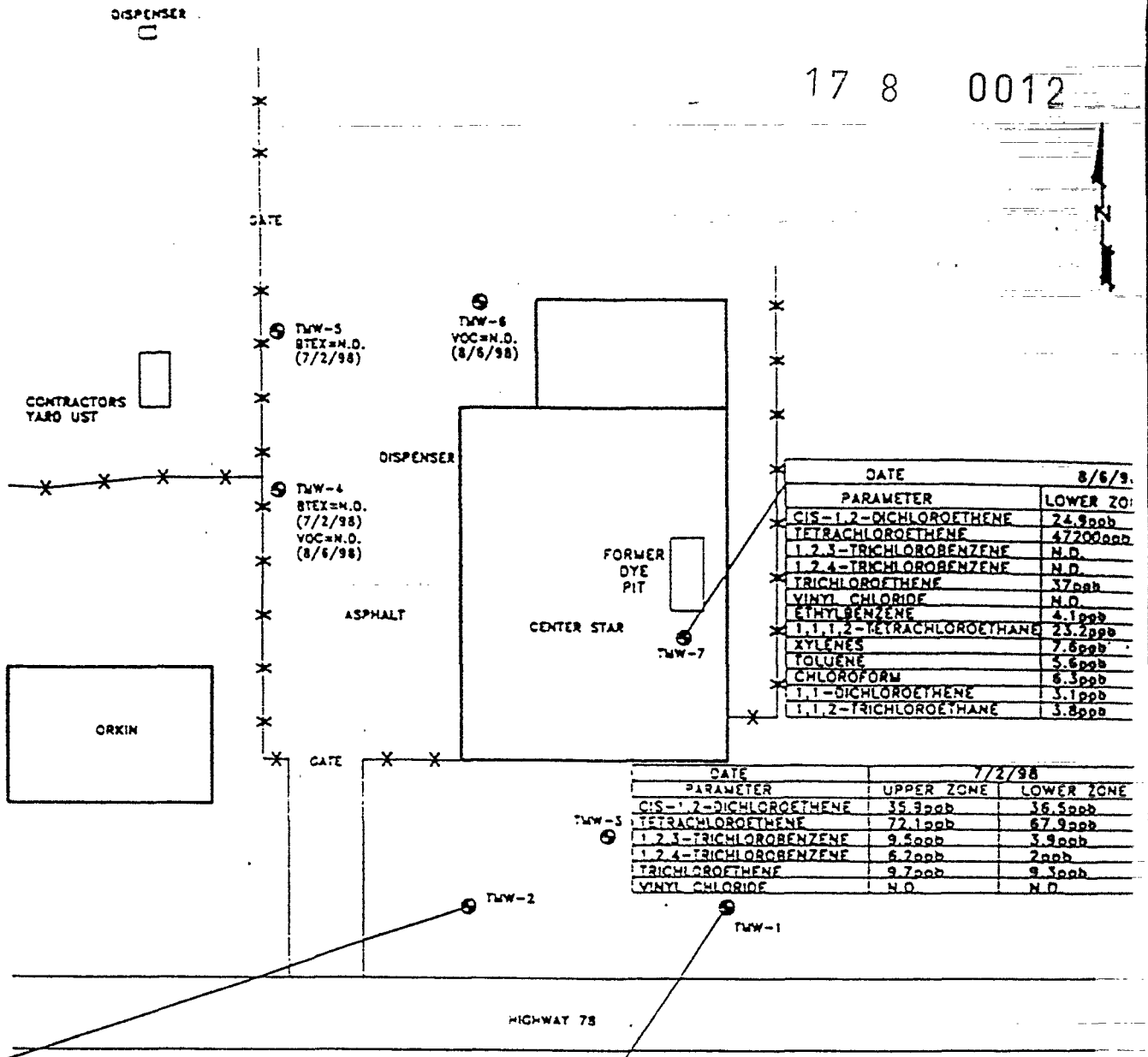
SITE MAP

PROJECT NO.	SCALE	DATE	DRAWN BY: JNG
3980045	NTS	4/15/98	DRAWING NO: F-1

Phase II Assessment
Center Star Manufacturing
207 West Hamric Drive
Oxford, Alabama

Figure 2

17 8 0012



DATE	8/6/9
PARAMETER	LOWER ZO
CIS-1,2-DICHLOROETHENE	24.9ppb
TETRACHLOROETHENE	47200ppb
1,2,3-TRICHLOROBENZENE	N.D.
1,2,4-TRICHLOROBENZENE	N.D.
TRICHLOROETHENE	37ppb
VINYL CHLORIDE	N.D.
ETHYLBENZENE	4.1ppb
1,1,1,2-TETRACHLOROETHANE	23.2ppb
XYLENES	7.6ppb
TOLUENE	5.6ppb
CHLOROFORM	6.3ppb
1,1-DICHLOROETHENE	3.1ppb
1,1,2-TRICHLOROETHANE	3.8ppb

DATE	7/2/98	
PARAMETER	UPPER ZONE	LOWER ZONE
CIS-1,2-DICHLOROETHENE	35.9ppb	36.5ppb
TETRACHLOROETHENE	72.1ppb	67.9ppb
1,2,3-TRICHLOROBENZENE	9.5ppb	3.9ppb
1,2,4-TRICHLOROBENZENE	6.2ppb	2ppb
TRICHLOROETHENE	9.7ppb	9.3ppb
VINYL CHLORIDE	N.D.	N.D.

DATE	7/2/98	
PARAMETER	UPPER ZONE	LOWER ZONE
CIS-1,2-DICHLOROETHENE	N.D.	48.9ppb
TETRACHLOROETHENE	N.D.	34.5ppb
1,2,3-TRICHLOROBENZENE	N.D.	N.D.
1,2,4-TRICHLOROBENZENE	N.D.	N.D.
TRICHLOROETHENE	N.D.	13.7ppb
VINYL CHLORIDE	N.D.	3.3ppb

DATE	7/2/98	
PARAMETER	UPPER ZONE	LOWER ZONE
CIS-1,2-DICHLOROETHENE	N.D.	N.D.
TETRACHLOROETHENE	25.9ppb	19,700ppb
1,2,3-TRICHLOROBENZENE	N.D.	N.D.
1,2,4-TRICHLOROBENZENE	N.D.	N.D.
TRICHLOROETHENE	N.D.	N.D.
VINYL CHLORIDE	N.D.	N.D.

LEGEND

- TEMPORARY MONITORING WELL LOCATION
- N.D. NOT DETECTED
- ppb PARTS PER BILLION

NOTE: This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimension of features indicated.

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Environmental Engineers & Scientists

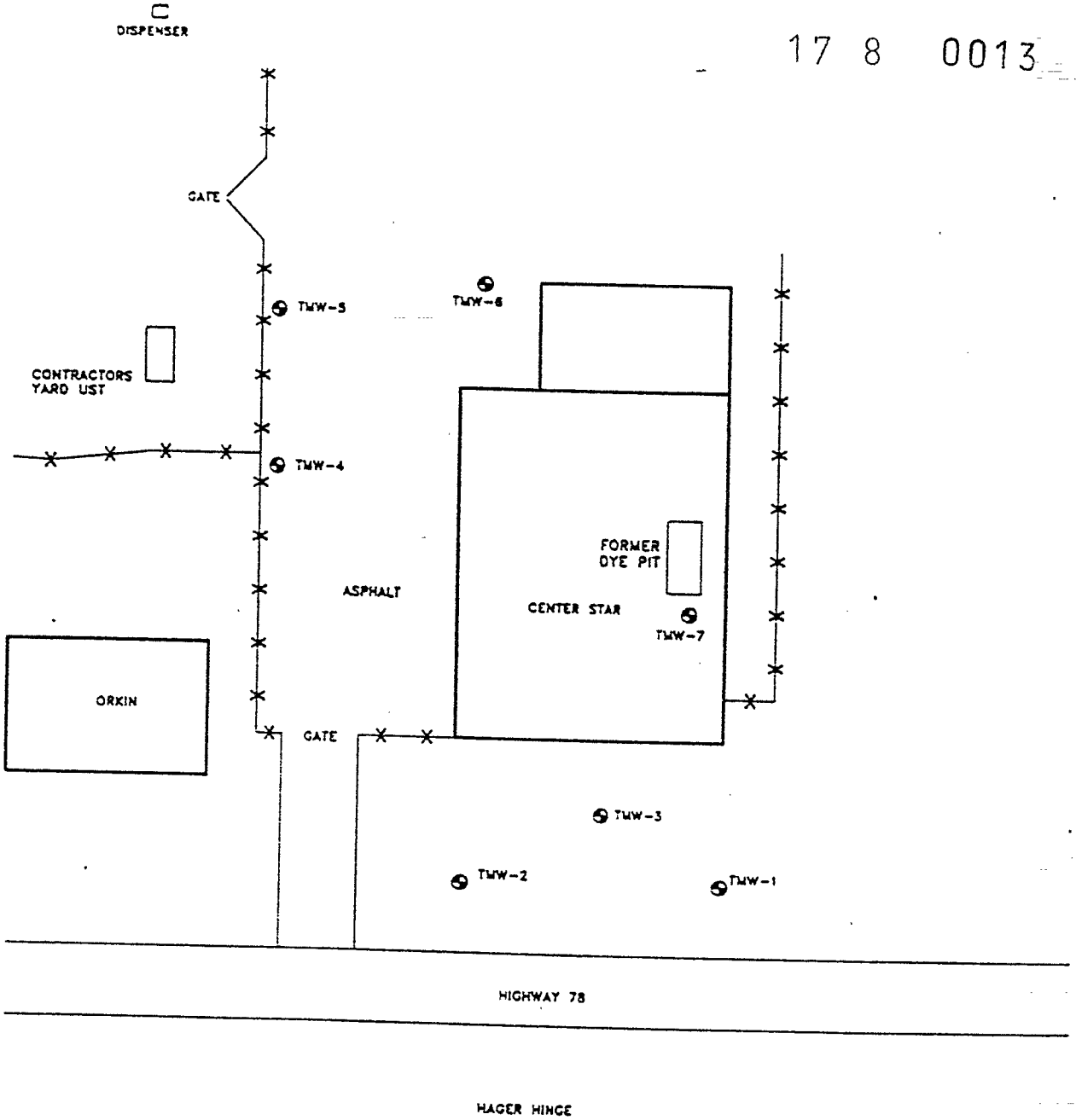
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

PROJECT NO.	SCALE	DATE	DRAWN BY: JNG
3980045	NTS	4/16/98	DRAWING NO: F-3NEW

Phase II Assessment
Center Star Manufacturing
207 West Hamric Drive
Oxford, Alabama

Figure 4

17 8 0013



LEGEND

TEMPORARY MONIORING WELL LOCATION

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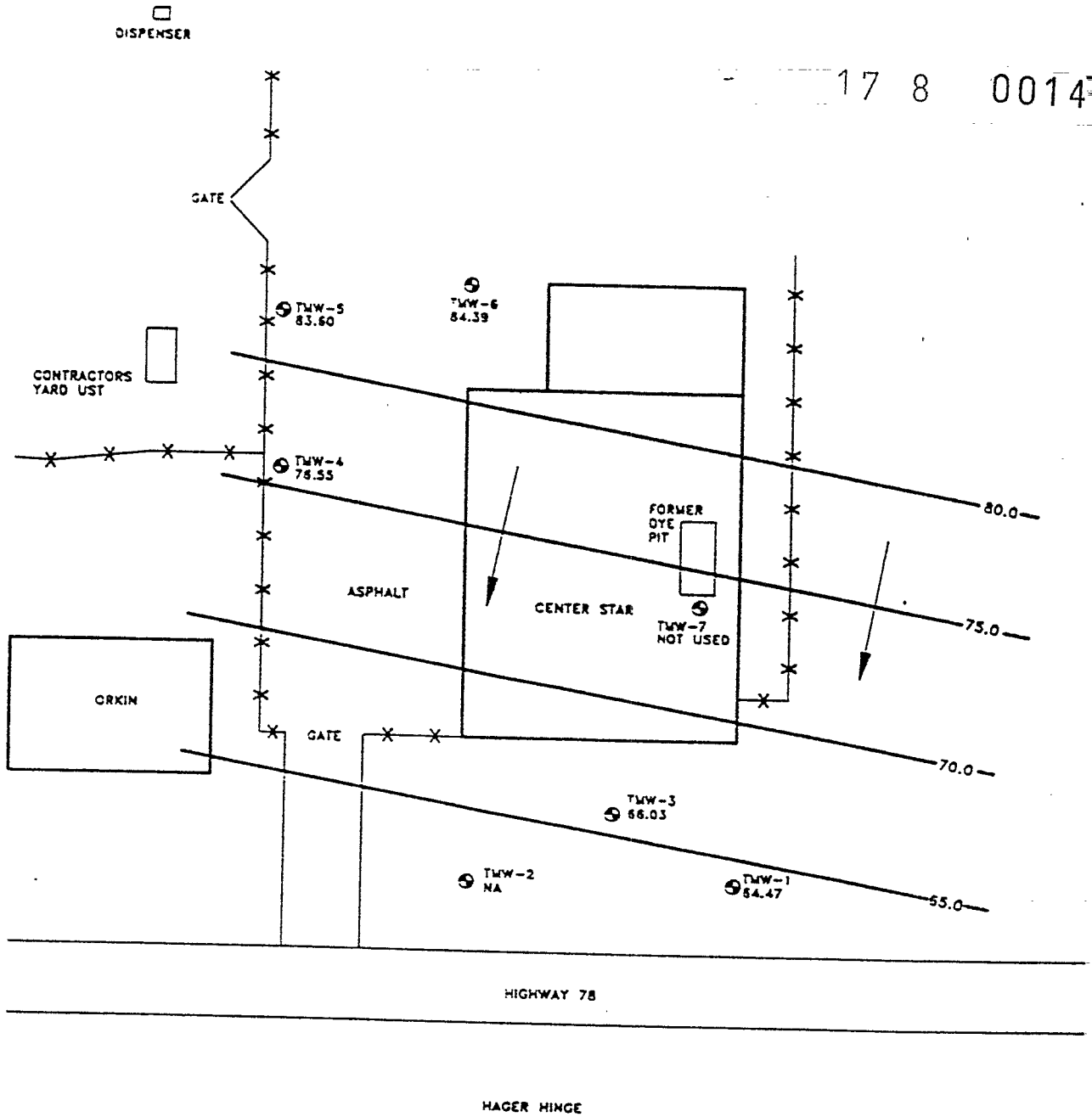
SITE MAP

PROJECT NO.	SCALE	DATE	DRAWN BY: JNG
3980045	NTS	4/16/98	DRAWING NO: F-1

Phase II Assessment
Center Star Manufacturing
207 West Hamric Drive
Oxford, Alabama

Figure 2

17 8 0014



LEGEND

⊕	TEMPORARY MONIORING WELL LOCATION
64.47	GROUNDWATER ELEVATION MEASURED ON 8/6/98
←	DIRECTION OF GROUNDWATER MOVEMENT

NOTE: This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

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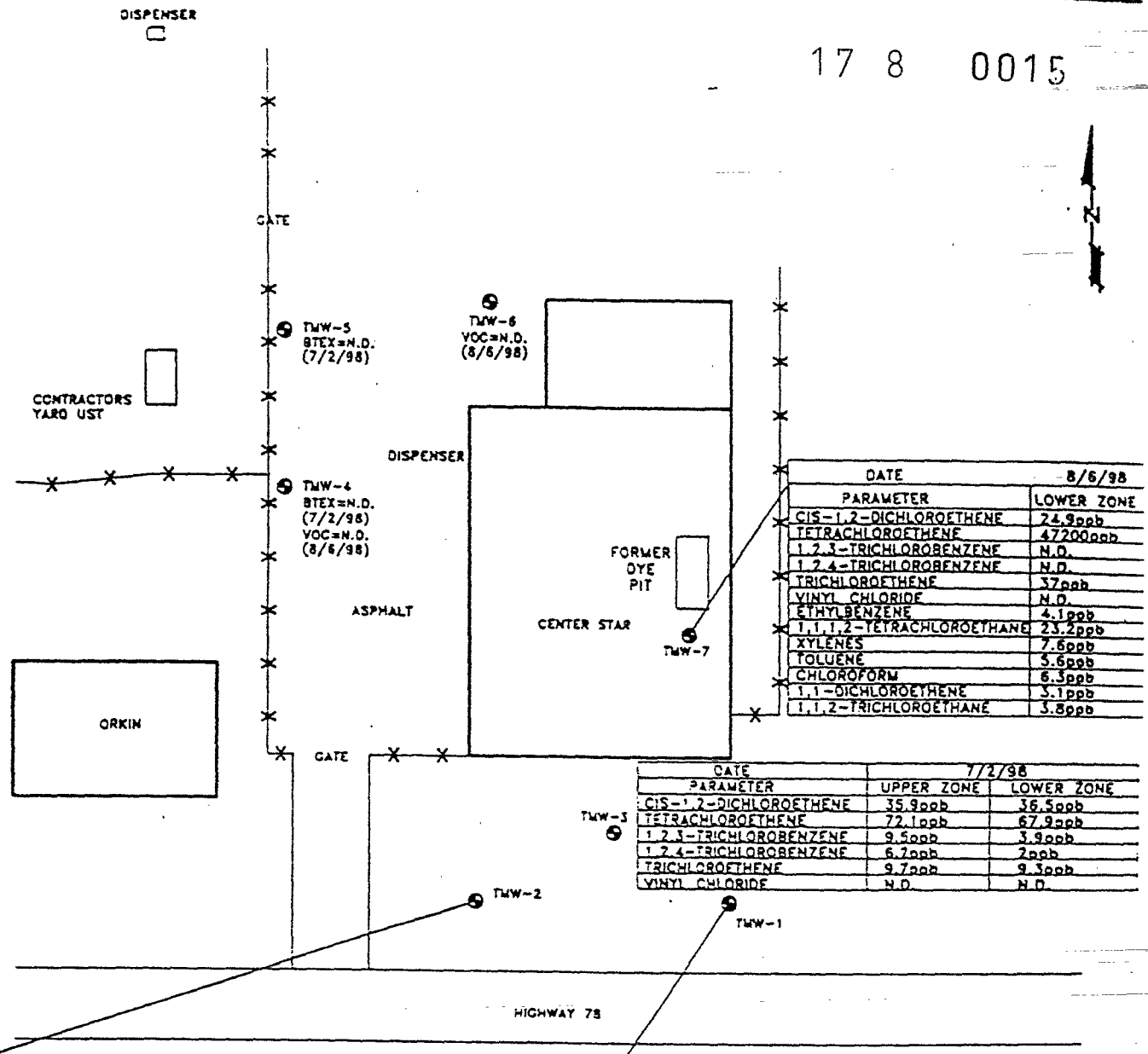
POTENTIOMETRIC SURFACE MAP

PROJECT NO.	SCALE	DATE	DRAWN BY: JNG
3980045	NTS	4/16/98	DRAWING NO: WATERTBL

Phase II Assessment
Center Star Manufacturing
207 West Hamric Drive
Oxford, Alabama

Figure 3

17 8 0015



DATE	8/6/98
PARAMETER	LOWER ZONE
CIS-1,2-DICHLOROETHENE	24.9ppb
TETRACHLOROETHENE	47200ppb
1,2,3-TRICHLOROBENZENE	N.D.
1,2,4-TRICHLOROBENZENE	N.D.
TRICHLOROETHENE	37ppb
VINYL CHLORIDE	N.D.
ETHYLBENZENE	4.1ppb
1,1,1,2-TETRACHLOROETHANE	23.2ppb
XYLENES	7.6ppb
TOLUENE	5.6ppb
CHLOROFORM	6.3ppb
1,1-DICHLOROETHENE	3.1ppb
1,1,2-TRICHLOROETHANE	3.8ppb

DATE	7/2/98	
PARAMETER	UPPER ZONE	LOWER ZONE
CIS-1,2-DICHLOROETHENE	35.9ppb	36.5ppb
TETRACHLOROETHENE	72.1ppb	67.9ppb
1,2,3-TRICHLOROBENZENE	9.5ppb	3.9ppb
1,2,4-TRICHLOROBENZENE	6.7ppb	2ppb
TRICHLOROETHENE	9.7ppb	9.3ppb
VINYL CHLORIDE	N.D.	N.D.

DATE	7/2/98	
PARAMETER	UPPER ZONE	LOWER ZONE
CIS-1,2-DICHLOROETHENE	N.D.	48.9ppb
TETRACHLOROETHENE	N.D.	94.5ppb
1,2,3-TRICHLOROBENZENE	N.D.	N.D.
1,2,4-TRICHLOROBENZENE	N.D.	N.D.
TRICHLOROETHENE	N.D.	13.7ppb
VINYL CHLORIDE	N.D.	3.3ppb

DATE	7/2/98	
PARAMETER	UPPER ZONE	LOWER ZONE
CIS-1,2-DICHLOROETHENE	N.D.	N.D.
TETRACHLOROETHENE	25.9ppb	19,700ppb
1,2,3-TRICHLOROBENZENE	N.D.	N.D.
1,2,4-TRICHLOROBENZENE	N.D.	N.D.
TRICHLOROETHENE	N.D.	N.D.
VINYL CHLORIDE	N.D.	N.D.

LEGEND

- TEMPORARY MONITORING WELL LOCATION
- N.D. NOT DETECTED
- ppb PARTS PER BILLION

NOTE: This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

Bhate Environmental, Inc.
Environmental Engineers & Scientists

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

PROJECT NO.	SCALE	DATE	DRAWN BY: JNG
3980045	NTS	4/16/98	DRAWING NO: F-3NEW

Phase II Assessment
Center Star Manufacturing
207 West Hamric Drive
Oxford, Alabama

Figure 4

SPECIALIZED ASSAY INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

17 8 0016

ANALYTICAL REPORT

Site: Center Stur
Branch: 17.8
Other: V.2

HATE ENVIRONMENTAL INC 5896

50 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Project: 3980045
Project Name: 1ST COMMERCIAL CTR STR
Sampler: JONATHAN ANDREWS

Lab Number: 98-A7751
Sample ID: TMW-1 UPPER
Sample Type: Ground water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 14:09
Date Received: 7/ 3/98
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS*										
Acetone	ND	ug/l	10	10	1	7/10/98	14:38	C. Wani	8260B	6068
Benzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Bromobenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Bromochloromethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Bromoform	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Bromomethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
2-Butanone	ND	ug/l	10	10	1	7/10/98	14:38	C. Wani	8260B	6068
n-Butylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
sec-Butylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
tert-Butylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Carbon disulfide	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Carbon tetrachloride	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Chlorobenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Chloroethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
2-Chloroethylvinylether	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Chloroform	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Chloromethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
2-Chlorotoluene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
4-Chlorotoluene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	7/10/98	14:38	C. Wani	8260B	6068
Dibromochloromethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2-Dibromoethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Dibromomethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2-Dichlorobenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,3-Dichlorobenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,4-Dichlorobenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Dichlorodifluoromethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,1-Dichloroethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2-Dichloroethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,1-Dichloroethene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2-Dichloropropane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,3-Dichloropropane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
2,2-Dichloropropane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,1-Dichloropropene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068

SPECIALIZED ASSA'' INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 98-A77515
Sample ID: TMW-1 UPPER

alyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
thylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
xachlorobutadiene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
-Hexanone	ND	ug/l	10	10	1	7/10/98	14:38	C. Wani	8260B	6068
Isopropylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Isopropyltoluene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Methyl-2-pentanone	ND	ug/l	10	10	1	7/10/98	14:38	C. Wani	8260B	6068
Methylene chloride	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
phthalene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Propylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Styrene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
etrachloroethene	26.9	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Toluene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
2,3-Trichlorobenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
2,4-Trichlorobenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,1-Trichloroethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2-Trichloroethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
richloroethene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2,3-Trichloropropane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
3,5-Trimethylbenzene	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
inyl chloride	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
Xylenes	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
romodichloromethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068
richlorofluoromethane	ND	ug/l	2	2	1	7/10/98	14:38	C. Wani	8260B	6068

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	103.	70. - 131.
VOA Surrogate, Toluene d8	92.	83. - 113.
VOA Surrogate, 4-Bromofluorobenzene	94.	73. - 119.
VOA Surrogate, Dibromofluoromethane	99.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

17 8 0018

ANALYTICAL REPORT

H..TE ENVIRONMENTAL, INC 5896

5 3 13TH AVENUE SOUTH
I MINGHAM, AL 35205

Lab Number: 98-A77516
Sample ID: TMW-1 LOWER
Sample Type: Ground water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 14:09
Date Received: 7/ 3/98
Time Received: 9:00

Project: 3980045
Project Name: 1ST COMMERCIAL CTR STR
Sampler: JONATHAN ANDREWS

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	10000	10	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Benzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Bromobenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Bromochloromethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Bromoform	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Bromomethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
2-Butanone	ND	ug/l	10000	10	1000	7/ 9/98	14:31	C. Wani	8260B	6068
n-Butylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
sec-Butylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
tert-Butylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Carbon disulfide	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Carbon tetrachloride	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Chlorobenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Chloroethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
2-Chloroethylvinylether	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Chloroform	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Chloromethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
2-Chlorotoluene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
4-Chlorotoluene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2-Dibromo-3-chloropropane	ND	ug/l	10000	10	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Dibromochloromethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2-Dibromoethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Dibromomethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2-Dichlorobenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,3-Dichlorobenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,4-Dichlorobenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Dichlorodifluoromethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,1-Dichloroethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2-Dichloroethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,1-Dichloroethene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
cis-1,2-Dichloroethene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
trans-1,2-Dichloroethene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2-Dichloropropane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,3-Dichloropropane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
2,2-Dichloropropane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,1-Dichloropropene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
cis-1,3-Dichloropropene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068

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2960 Foster Creighton Dr.
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Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 98-A77516
Sample ID: TMW-1 LOWER

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Ethylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
xachlorobutadiene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Hexanone	ND	ug/l	10000	10	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Isopropylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Isopropyltoluene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Methyl-2-pentanone	ND	ug/l	10000	10	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Methylene chloride	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Naphthalene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Propylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Styrene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,1,1,2-Tetrachloroethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2,2-Tetrachloroethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
trachloroethene	19700	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Toluene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
2,3-Trichlorobenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
2,4-Trichlorobenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,1-Trichloroethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2-Trichloroethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
richloroethene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2,3-Trichloropropane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,2,4-Trimethylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
1,3,5-Trimethylbenzene	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
nyl chloride	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
Xylenes	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
romodichloromethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068
richloroFluoromethane	ND	ug/l	2000	2	1000	7/ 9/98	14:31	C. Wani	8260B	6068

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	106.	70. - 131.
VOA Surrogate, Toluene d8	89.	83. - 115.
VOA Surrogate, 4-BromoFluorobenzene	92.	73. - 119.
VOA Surrogate, DibromoFluoromethane	100.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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2960 Foster Creighton Dr.
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17 8 0020

ANALYTICAL REPORT

4..E ENVIRONMENTAL, INC. 5896

3 13TH AVENUE SOUTH
1INGHAM, AL 35205

r ject: 3980045
roject Name: 1ST COMMERCIAL CTR STR
amoler: JONATHAN ANDREWS

Lab Number: 98-A77511
Sample ID: TMW-2 UPPER
Sample Type: Ground water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 13:48
Date Received: 7/ 3/98
Time Received: 9:00

alyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
**OLATILE ORGANICS*										
etone	ND	ug/l	10	10	1	7/ 8/98	16:50	C. Wani	8260B	6068
enzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Bromobenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
omochloromethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
omoform	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Bromomethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
utanone	ND	ug/l	10	10	1	7/ 8/98	16:50	C. Wani	8260B	6068
utylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
ec-Butylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
-Butylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
rbon disulfide	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
arbon tetrachloride	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Chlorobenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
loroethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
-Chloroethylvinylether	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Chloroform	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
loromethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
-Chlorotoluene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
4-Chlorotoluene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	7/ 8/98	16:50	C. Wani	8260B	6068
ibromochloromethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,2-Dibromoethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Dibromomethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
,2-Dichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
,3-Dichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,4-Dichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
ichlorodifluoromethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
,1-Dichloroethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,2-Dichloroethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
,1-Dichloroethene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
is-1,2-Dichloroethene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
2-Dichloropropane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
3-Dichloropropane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
,2-Dichloropropane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,1-Dichloropropene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
is-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068

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SPECIALIZED ASSAY' 'NC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 98-A77511
Sample ID: TMW-2 UPPER

alyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Ethylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
exachlorobutadiene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
2-Hexanone	ND	ug/l	10	10	1	7/ 8/98	16:50	C. Wani	8260B	6068
Isopropylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Isopropyltoluene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Methyl-2-pentanone	ND	ug/l	10	10	1	7/ 8/98	16:50	C. Wani	8260B	6068
Methylene chloride	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Naphthalene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Propylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Styrene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Tetrachloroethene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Toluene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,1,1-Trichloroethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,1,2-Trichloroethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Trichloroethene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,2,3-Trichloropropane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Vinyl chloride	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Xylenes	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Bromodichloromethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068
Trichlorofluoromethane	ND	ug/l	2	2	1	7/ 8/98	16:50	C. Wani	8260B	6068

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	106.	70. - 131.
VOA Surrogate, Toluene d8	92.	83. - 115.
VOA Surrogate, 4-Bromofluorobenzene	96.	73. - 119.
VOA Surrogate, Dibromofluoromethane	97.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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17 8 U022

ANALYTICAL REPORT

HA,E ENVIRONMENTAL, INC. 5896

50 13TH AVENUE SOUTH
IR INGHAM, AL 35205

Lab Number: 98-A77512
Sample ID: TMW-2 LOWER
Sample Type: Ground water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 13:48
Date Received: 7/ 3/98
Time Received: 9:00

ro ect: 3980045
roject Name: 1ST COMMERCIAL CTR STR
amr ler: JONATHAN ANDREWS

A lyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
B toze	ND	ug/l	10	10	1	7/ 8/98	17:26	C. Wani	8260B	6068
Benzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Bromobenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
B mochloromethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Bromoform	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Bromomethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
2 utanone	ND	ug/l	10	10	1	7/ 8/98	17:26	C. Wani	8260B	6068
utylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
sec-Butylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
utylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
bon disulfide	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Carbon tetrachloride	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Chlorobenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
loroethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
-Chloroethylvinylether	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Chloroform	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
oromethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Chlorotoluene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
4-Chlorotoluene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	7/ 8/98	17:26	C. Wani	8260B	6068
bromochloromethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,2-Dibromoethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Dibromomethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
2-Dichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,3-Dichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,4-Dichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
chlorodifluoromethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1-Dichloroethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,2-Dichloroethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1-Dichloroethene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
s-1,2-Dichloroethene	48.9	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
2-Dichloropropane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
3-Dichloropropane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
2-Dichloropropane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,1-Dichloropropene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
s-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068

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ANALYTICAL REPORT

Laboratory Number: 98-A77513
Sample ID: TMW-3 UPPER

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Ethylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Hexachlorobutadiene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
2-Hexanone	ND	ug/l	10	10	1	7/ 9/98	13:06	C. Wani	8260B	6068
Isopropylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
p-Isopropyltoluene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
4-Methyl-2-pentanone	ND	ug/l	10	10	1	7/ 9/98	13:06	C. Wani	8260B	6068
Methylene chloride	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Naphthalene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
n-Propylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Styrene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Tetrachloroethene	72.1	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Toluene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,2,3-Trichlorobenzene	9.5	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,2,4-Trichlorobenzene	6.2	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,1,1-Trichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,1,2-Trichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Trichloroethene	9.7	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,2,3-Trichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Vinyl chloride	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Xylenes	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Bromodichloromethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Trichlorofluoromethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	92.	70. - 131.
VOA Surrogate, Toluene d8	96.	83. - 115.
VOA Surrogate, 4-Bromofluorobenzene	96.	73. - 119.
VOA Surrogate, Dibromofluoromethane	99.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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ANALYTICAL REPORT

:HATE ENVIRONMENTAL, INC. 5896
.E 3 13TH AVENUE SOUTH
:I MINGHAM, AL 35205

Lab Number: 98-A77513
Sample ID: TMW-3 UPPER
Sample Type: Ground water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 14:00
Date Received: 7/ 3/98
Time Received: 9:00

:r ject: 3980045
Project Name: 1ST COMMERCIAL CTR STR
Sampler: JONATHAN ANDREWS

nlyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS*										
cetone	ND	ug/l	10	10	1	7/ 9/98	13:06	C. Wani	8260B	6068
Benzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
romobenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
romochloromethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
romoform	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Bromomethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
-Butanone	ND	ug/l	10	10	1	7/ 9/98	13:06	C. Wani	8260B	6068
Butylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
ec-Butylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
-Butylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
rbon disulfide	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Carbon tetrachloride	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
hlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
loroethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
-Chloroethylvinylether	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Chloroform	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
loromethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
-Chlorotoluene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
4-Chlorotoluene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	7/ 9/98	13:06	C. Wani	8260B	6068
ibromochloromethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,2-Dibromoethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
Dibromomethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
,2-Dichlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
,3-Dichlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,4-Dichlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
ichlorodifluoromethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
,1-Dichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,2-Dichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
,1-Dichloroethene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
is-1,2-Dichloroethene	35.9	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
2-Dichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
,3-Dichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
2,2-Dichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
1,1-Dichloropropene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068
is-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 9/98	13:06	C. Wani	8260B	6068

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17 8 0025

ANALYTICAL REPORT

Laboratory Number: 98-A77512
Sample ID: TMW-2 LOWER

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Ethylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Hexachlorobutadiene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
2-Hexanone	ND	ug/l	10	10	1	7/ 8/98	17:26	C. Wani	8260B	6068
Isopropylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
p-Isopropyltoluene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Methyl-2-pentanone	ND	ug/l	10	10	1	7/ 8/98	17:26	C. Wani	8260B	6068
Methylene chloride	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Naphthalene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
n-Propylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Styrene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Tetrachloroethene	94.5	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Toluene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,1,1-Trichloroethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,1,2-Trichloroethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Trichloroethene	13.7	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,2,3-Trichloropropane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Vinyl chloride	3.3	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Xylenes	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Bromodichloromethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068
Trichlorofluoromethane	ND	ug/l	2	2	1	7/ 8/98	17:26	C. Wani	8260B	6068

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	105.	70. - 131.
VOA Surrogate, Toluene d8	96.	93. - 115.
VOA Surrogate, 4-Bromofluorobenzene	94.	73. - 119.
VOA Surrogate, Dibromofluoromethane	100.	72. - 138.

Report Approved By: Michael H. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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17 8 0026

ANALYTICAL REPORT

H TE ENVIRONMENTAL, INC. 5896

6 3 13TH AVENUE SOUTH
I 1INGHAM, AL 35205

Lab Number: 98-A77514
Sample ID: TMW-3 LOWER
Sample Type: Ground water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 14:00
Date Received: 7/ 3/98
Time Received: 9:00

P ject: 3980045
rojject Name: 1ST COMMERCIAL CTR STR
ampler: JONATHAN ANDREWS

alyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
**OLATILE ORGANICS*										
etone	ND	ug/l	10	10	1	7/ 9/98	13:50	C. Wani	8260B	6068
Benzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Bromobenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
omochloromethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
omoform	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Bromomethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Butanone	ND	ug/l	10	10	1	7/ 9/98	13:50	C. Wani	8260B	6068
utylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
sec-Butylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
-Butylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
rbon disulfide	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
arbon tetrachloride	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Chlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
loroethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Chloroethylvinylether	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Chloroform	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
loromethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Chlorotoluene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
4-Chlorotoluene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	7/ 9/98	13:50	C. Wani	8260B	6068
bromochloromethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,2-Dibromoethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Dibromomethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
2-Dichlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
3-Dichlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,4-Dichlorobenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Dichlorodifluoromethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1-Dichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,2-Dichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,1-Dichloroethene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
is-1,2-Dichloroethene	36.5	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
rans-1,2-Dichloroethene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
2-Dichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
3-Dichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
2-Dichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,1-Dichloropropene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
is-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068

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ANALYTICAL REPORT

Laboratory Number: 98-A77514
Sample ID: TMW-3 LOWER

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Ethylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
xachlorobutadiene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
. Hexanone	ND	ug/l	10	10	1	7/ 9/98	13:50	C. Wani	8260B	6068
Isopropylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
-Isopropyltoluene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
-Methyl-2-pentanone	ND	ug/l	10	10	1	7/ 9/98	13:50	C. Wani	8260B	6068
Methylene chloride	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Naphthalene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
-Propylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Styrene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Tetrachloroethene	67.9	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Toluene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
,2,3-Trichlorobenzene	3.9	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
2,4-Trichlorobenzene	2	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
,1,1-Trichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
,1,2-Trichloroethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Trichloroethene	9.3	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,2,3-Trichloropropane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
,3,5-Trimethylbenzene	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
inyl chloride	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
Xylenes	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
romodichloromethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068
richlorofluoromethane	ND	ug/l	2	2	1	7/ 9/98	13:50	C. Wani	8260B	6068

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	96.	70. - 131.
VOA Surrogate, Toluene d8	99.	83. - 115.
VOA Surrogate, 4-Bromofluorobenzene	94.	73. - 119.
VOA Surrogate, Dibromofluoromethane	99.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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17 8 0028

ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896

6C_ 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Lab Number: 98-A77509
Sample ID: TMW-4
Sample Type: Water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 11:55
Date Received: 7/ 3/98
Time Received: 9:00

rojec: 3980045
rc ect Name: 1ST COMMERCIAL CTR STR
am ler: JONATHAN ANDREWS

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS*										
Benzene	ND	ug/l	1.0	1.0	1	7/11/98	18:37	Duncan, J.	602	7253
Toluene	ND	ug/l	1.0	1.0	1	7/11/98	18:37	Duncan, J.	602	7253
Ethylbenzene	ND	ug/l	1.0	1.0	1	7/11/98	18:37	Duncan, J.	602	7253
Xylenes, total	ND	ug/l	1.0	1.0	1	7/11/98	18:37	Duncan, J.	602	7253

= Not detected at the report limit.

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-trifluorotoluene	145.	50. - 150.

Report Approved By: Michael H. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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17 8 0029

ANALYTICAL REPORT

HATE ENVIRONMENTAL, INC. 5896

5C 13TH AVENUE SOUTH
IRMINGHAM, AL 35205

Lab Number: 98-A77510
Sample ID: TMW-5
Sample Type: Water
Site ID:

Date Collected: 7/ 2/98
Time Collected: 12:19
Date Received: 7/ 3/98
Time Received: 9:00

roject: 3980045
rc ect Name: 1ST COMMERCIAL CTR STR
sa ler: JONATHAN ANDREWS

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
: ISANIC PARAMETERS*										
Benzene	ND	ug/l	1.0	1.0	1	7/11/98	17:41	Duncan, J.	602	7253
Toluene	ND	ug/l	1.0	1.0	1	7/11/98	17:41	Duncan, J.	602	7253
Ethylbenzene	ND	ug/l	1.0	1.0	1	7/11/98	17:41	Duncan, J.	602	7253
Xylenes, total	ND	ug/l	1.0	1.0	1	7/11/98	17:41	Duncan, J.	602	7253

= Not detected at the report limit.

rrogate	% Recovery	Target Range
TEX/GRO Surr., a,a,a-trifluorotoluene	103.	50. - 150.

Report Approved By: Michael A. Dunn Report Date: 7/13/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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BHATE
Environmental Engineers and Scientists
1608 13th Avenue South
Birmingham, Alabama 35205
(205) 918-4000 (FAX) (205) 918-4050

CHAIN-OF-CUSTODY

NO.: 00001
Page 1 of 1

PROJECT NO.: 3980045
PROJECT NAME: 1st Commercial-Center Star Manufact.
P.O. NO.:
LAB DESTINATION: Specialized Assay
SAMPLER(s) NAME: Jonathan T. Andrews
TITLE:

Preserved (Code)
Iced (yes/no)
Code: A - None, B - HNO3, C - H_2SO_4, D - NaOH, E - HCl, F -

Lab Code - for Lab use only	Yr. / Date	Time	Comp	Grab	Sample No./ Sample Location	SOIL / WATER / SOLID OTHER / NON-AQUEOUS LIQUID	No.	Volume	Type	TEST: METHOD: BTEX (E, 4)	TEST: METHOD: VOC (E, 4)	TEST: METHOD:	TEST: METHOD:	TEST: METHOD:	REMARKS
	7/2/98	1155		X	TMW-4	☐ X ☐ ☐	1	100 ML	ga	X					
	7/2/98	1219		X	TMW-5	☐ X ☐ ☐	1	100 ML	ga	X					
	7/2/98	148		X	TMW-2 upper	☐ X ☐ ☐	1	100 ML	ga		X				
	7/2/98	148		X	TMW-2 lower	☐ X ☐ ☐	1	100 ML	ga		X				
	7/2/98	200		X	TMW-3 upper	☐ X ☐ ☐	1	100 ML	ga		X				
	7/2/98	200		X	TMW-3 lower	☐ X ☐ ☐	1	100 ML	ga		X				
	7/2/98	209		X	TMW-1 upper	☐ X ☐ ☐	1	100 ML	ga		X				
	7/2/98	209		X	TMW-1 lower	☐ X ☐ ☐	1	100 ML	ga		X				
						☐ ☐ ☐ ☐									
						☐ ☐ ☐ ☐									

17 8 0030

Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Jonathan Andrews	7/2/98	430			
Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Relinquished by: (Signature):	Date:	Time:	Received for Laboratory by: (Signature):	Date:	Time:

LAB COMMENTS

REMARKS ON SAMPLE RECEIVED BY LAB:		SAMPLE SHIPPING METHOD		SAMPLE CONTAINER TYPE
Bottle Intact:	☐	Hand Delivery	☐	P = Plastic
Preserved:	☐	Air (specify)	☐	G = Glass
Chilled:	☐	Other (specify)	☐	GA = Glass Amber
Other:	☐			

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CHAIN-OF-CUSTODY

NO.: 00001
Page 1 of 1

109296

PROJECT NO.: 3980045 PROJECT NAME: 1st Commercial/Center Star Mfg
P.O. NO.: 32981387 LAB DESTINATION: Specialized Assays Inc.
SAMPLER(s) NAME: Michael Sykes
TITLE: Geologist

Preserved (Code)
Iced (yes/no)
Code: A – None, B – HNO3, C – H2SO4, D – NaOH, E – HCl, F –

Lab Code – for Lab use only	Yr. 98 Date	Time	Comp	Grab	Sample No./ Sample Location	SOIL	WATER	SOLID OTHER	NON-AQUEOUS LIQUID	No.	Volume	Type	TEST: V METHOD:	TEST: VOC METHOD: 8260	TEST: METHOD:	TEST: METHOD:	TEST: METHOD:	REMARKS
92840	8-6	1:45		X	TMW-4	☐	☒	☐	☐	2	40 ml	Glass	~~VOC 8260~~	X				Standard TAT
92841	8-6	1:55		X	TMW-6	☐	☒	☐	☐	2	40 ml	Glass		X				
92842	8-6	2:05		X	TMW-7	☐	☐	☐	☐	2	40 ml	Glass		X				
92843	8/6	1:00			TEMP Blank	☐	☐	☐	☐	1	40 ml	Glass						
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									
						☐	☐	☐	☐									

4'

17:8 0031

Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
[signature]	8/6/98	5:30	FedEx Airbill 806170663857	8/6/98	5:30
Relinquished by: (Signature):	Date:	Time:	Received by: (Signature):	Date:	Time:
Relinquished by: (Signature):	Date:	Time:	Received for Laboratory by: (Signature): [signature]	8/7/98 83-	Time:

LAB COMMENTS

REMARKS ON SAMPLE RECEIVED BY LAB:	SAMPLE SHIPPING METHOD	SAMPLE CONTAINER TYPE
Bottle Intact: ☐	Hand Delivery ☐	P = Plastic
Preserved: ☐	Air (specify) ☐	G = Glass
Chilled: ☐	Other (specify) ☐	GA = Glass Amber
Other: ☐		

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17 8 0032

ANALYTICAL REPORT

BRATE ENVIRONMENTAL, INC. 5896

1 08 13TH AVENUE SOUTH
B RMINGHAM, AL 35205

P oject: 3980045
Project Name: 1ST COMMUNICATION CENTER
Sampler: MICHAEL SYKES

Lab Number: 98-A92840
Sample ID: TMW-4
Sample Type: Ground water
Site ID:

Date Collected: 8/ 6/98
Time Collected: 13:45
Date Received: 8/ 7/98
Time Received: 8:30

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	8/13/98	23:49	J.Haley	8260B	3390
Benzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Bromobenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Bromochloromethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Bromoform	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Bromomethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
2-Butanone	ND	ug/l	10	10	1	8/13/98	23:49	J.Haley	8260B	3390
n-Butylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
sec-Butylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
t-Butylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Carbon disulfide	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Carbon tetrachloride	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Chlorobenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Chloroethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
2-Chloroethylvinylether	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Chloroform	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Chloromethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
2-Chlorotoluene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
4-Chlorotoluene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	8/13/98	23:49	J.Haley	8260B	3390
Dibromochloromethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2-Dibromoethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Dibromomethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2-Dichlorobenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,3-Dichlorobenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,4-Dichlorobenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Dichlorodifluoromethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,1-Dichloroethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2-Dichloroethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,1-Dichloroethene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2-Dichloropropane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,3-Dichloropropane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
2,2-Dichloropropane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,1-Dichloropropene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390

SPECIALIZED ASSS . INC.
2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 98-A92840
Sample ID: TMW-4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Ethylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Hexachlorobutadiene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
2-Hexanone	ND	ug/l	10	10	1	8/13/98	23:49	J.Haley	8260B	3390
Isopropylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
4-Isopropyltoluene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
4-Methyl-2-pentanone	ND	ug/l	10	10	1	8/13/98	23:49	J.Haley	8260B	3390
Methylene chloride	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Naphthalene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
n-Propylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Styrene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Tetrachloroethene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Toluene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,1,1-Trichloroethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,1,2-Trichloroethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Trichloroethene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2,3-Trichloropropane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Vinyl chloride	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Xylenes	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Bromodichloromethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390
Trichlorofluoromethane	ND	ug/l	2	2	1	8/13/98	23:49	J.Haley	8260B	3390

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	106.	70. - 131.
VOA Surrogate, Toluene d8	92.	83. - 115.
VOA Surrogate, 4-Bromofluorobenzene	95.	73. - 119.
VOA Surrogate, Dibromofluoromethane	110.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 8/19/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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SPECIALIZED ASS/ INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 98-A92841
Sample ID: TMW-6

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Ethylbenzene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Hexachlorobutadiene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
2-Hexanone	ND	ug/l	10	10	1	8/14/98	0:24	J.Haley	8260B	3390
Isopropylbenzene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
4-Isopropyltoluene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
4-Methyl-2-pentanone	ND	ug/l	10	10	1	8/14/98	0:24	J.Haley	8260B	3390
Methylene chloride	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Naphthalene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
n-Propylbenzene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Styrene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Tetrachloroethene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Toluene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,1,1-Trichloroethane	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,1,2-Trichloroethane	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Trichloroethene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,2,3-Trichloropropane	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Vinyl chloride	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Xylenes	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Bromodichloromethane	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390
Trichlorofluoromethane	ND	ug/l	2	2	1	8/14/98	0:24	J.Haley	8260B	3390

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	102.	70. - 131.
VOA Surrogate, Toluene d8	104.	83. - 115.
VOA Surrogate, 4-Bromofluorobenzene	95.	73. - 119.
VOA Surrogate, Dibromofluoromethane	108.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 8/19/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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ANALYTICAL REPORT

BI ATE ENVIRONMENTAL, INC. 5896

1 08 13TH AVENUE SOUTH
B RMINGHAM, AL 35205

P ojject: 3980045
Project Name: 1ST COMMUNICATION CENTER
Sampler: MICHAEL SYKES

Lab Number: 98-A92842
Sample ID: TMW-7
Sample Type: Ground water
Site ID:

Date Collected: 8/ 6/98
Time Collected: 14:05
Date Received: 8/ 7/98
Time Received: 8:30

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	8/14/98	0:59	J.Haley	8260B	3390
Benzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Bromobenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Bromochloromethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Bromoform	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Bromomethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
2-Butanone	ND	ug/l	10	10	1	8/14/98	0:59	J.Haley	8260B	3390
n-Butylbenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
sec-Butylbenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
t-Butylbenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Carbon disulfide	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Carbon tetrachloride	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Chlorobenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Chloroethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
2-Chloroethylvinylether	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Chloroform	6.3	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Chloromethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
2-Chlorotoluene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
4-Chlorotoluene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	8/14/98	0:59	J.Haley	8260B	3390
Dibromochloromethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,2-Dibromoethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Dibromomethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,2-Dichlorobenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,3-Dichlorobenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,4-Dichlorobenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Dichlorodifluoromethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,1-Dichloroethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,2-Dichloroethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,1-Dichloroethene	3.1	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
cis-1,2-Dichloroethene	24.9	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,2-Dichloropropane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,3-Dichloropropane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
2,2-Dichloropropane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,1-Dichloropropene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 98-A92842
Sample ID: TMW-7

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Ethylbenzene	4.1	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
exachlorobutadiene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
-Hexanone	ND	ug/l	10	10	1	8/14/98	0:59	J.Haley	8260B	3390
Isopropylbenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
-Isopropyltoluene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
-Methyl-2-pentanone	ND	ug/l	10	10	1	8/14/98	0:59	J.Haley	8260B	3390
Methylene chloride	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Naphthalene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
-Propylbenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Styrene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,1,1,2-Tetrachloroethane	23.2	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Tetrachloroethene	47200	ug/l	400	2	200	8/14/98	0:59	J.Haley	8260B	3390
Toluene	5.6	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
,2,3-Trichlorobenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
2,4-Trichlorobenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,1-Trichloroethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,1,2-Trichloroethane	3.8	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Trichloroethene	37	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,2,3-Trichloropropane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
,3,5-Trimethylbenzene	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Vinyl chloride	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Xylenes	7.6	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Bromodichloromethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390
Trichlorofluoromethane	ND	ug/l	2	2	1	8/14/98	0:59	J.Haley	8260B	3390

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	106.	70. - 131.
VOA Surrogate, Toluene d8	102.	83. - 115.
VOA Surrogate, 4-Bromofluorobenzene	93.	73. - 119.
VOA Surrogate, Dibromofluoromethane	110.	72. - 130.

Report Approved By: Michael H. Dunn Report Date: 8/19/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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17 8 0037

ANALYTICAL REPORT

B ATE ENVIRONMENTAL, INC. 5896

1 08 13TH AVENUE SOUTH
B RMINGHAM, AL 35205

Lab Number: 98-A92843
Sample ID: T BLANK
Sample Type: Ground water
Site ID:

P oject: 3980045
Project Name: 1ST COMMUNICATION CENTER
Sampler: MICHAEL SYKES

Date Collected: 8/ 6/98
Time Collected: 13:00
Date Received: 8/ 7/98
Time Received: 8:30

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	8/14/98	14:19	J.Haley	8260B	3390
Benzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Bromobenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Bromochloromethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Bromoform	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Bromomethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
2-Butanone	ND	ug/l	10	10	1	8/14/98	14:19	J.Haley	8260B	3390
[illegible]butylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
[illegible]c-Butylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
t-Butylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Carbon disulfide	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Carbon tetrachloride	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Chlorobenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Chloroethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
2-Chloroethylvinylether	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Chloroform	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Chloromethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
2-Chlorotoluene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
4-Chlorotoluene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	8/14/98	14:19	J.Haley	8260B	3390
Dibromochloromethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2-Dibromoethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Dibromomethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2-Dichlorobenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,3-Dichlorobenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,4-Dichlorobenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Dichlorodifluoromethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,1-Dichloroethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2-Dichloroethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,1-Dichloroethene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2-Dichloropropane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
[illegible]-Dichloropropane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
[illegible],2-Dichloropropane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,1-Dichloropropene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390

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2960 Foster Creighton Dr.
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Nashville, TN 37204-0566
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ANALYTICAL REPORT

Laboratory Number: 98-A92843
Sample ID: T BLANK

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Ethylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Hexachlorobutadiene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
2-Hexanone	ND	ug/l	10	10	1	8/14/98	14:19	J.Haley	8260B	3390
Isopropylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
4-Isopropyltoluene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
4-Methyl-2-pentanone	ND	ug/l	10	10	1	8/14/98	14:19	J.Haley	8260B	3390
Methylene chloride	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Naphthalene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
n-Propylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Styrene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Tetrachloroethene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Toluene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,1,1-Trichloroethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,1,2-Trichloroethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Trichloroethene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2,3-Trichloropropane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Vinyl chloride	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Xylenes	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Bromodichloromethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390
Trichlorofluoromethane	ND	ug/l	2	2	1	8/14/98	14:19	J.Haley	8260B	3390

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surrogate, 1,2-Dichloroethane, d4	100.	70. - 131.
VOA Surrogate, Toluene d8	90.	83. - 115.
VOA Surrogate, 4-Bromofluorobenzene	90.	73. - 119.
VOA Surrogate, Dibromofluoromethane	105.	72. - 130.

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AUG 24 1998
PHATE ENVIRONMENTAL

Report Approved By: Michael H. Dunn Report Date: 8/19/98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director

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Bhate Environmental, Inc
Environmental Engineers & Scientists
1608 13th Avenue South Suite 300
Birmingham ■ Alabama ■ 35205
(205) 918-4000
(205) 918-4050 (FAX)

September 8, 1998

First Commercial Bank
P.O. Box 11746
Birmingham, AL 35202-1746

Attention: Mr. Scott Matthews

Subject: Report of Limited Groundwater Investigation
Center Star Manufacturing
207 West Hamric Drive
Oxford, Alabama
BEI Project No.: 3980045

Dear Mr. Matthews:

Bhate Environmental, Inc. (BEI) is pleased to present the attached report of a groundwater investigation conducted at the above referenced site. The investigation was carried out to evaluate the potential for contamination of groundwater related to activities at Center Star Manufacturing and/or at neighboring facilities.

Results of the investigation indicate the presence of groundwater contaminated by volatile organic compounds. It is likely that the Alabama Department of Environmental Management (ADEM) would require the property owner to conduct additional investigation, to determine the extent of groundwater contamination. However, the ADEM will allow site development to proceed prior to, or concurrently with any future investigative activities.

BEI appreciates the opportunity to work with you on this project. If you have any questions, please call us at (205) 918-4000.

Sincerely,
BHATE ENVIRONMENTAL, INC.

Emmett A. Beers
Alabama Professional Geologist #869
Senior Project Manager

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