GIS REGISTRY INFORMATION

SITE NAME: Former Theim

BRRTS #: 02-41-513385 **FID # (if appropriate):** 241165210

COMMERCE # (if appropriate):

CLOSURE DATE: 12-18-2006

STREET ADDRESS: 420 W. Marquette Avenue

CITY: Oak Creek

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 689961 Y= 272978

CONTAMINATED MEDIA: Groundwater [ ] Soil [ ] Both [X]

OFF-SOURCE GW CONTAMINATION >ES: [X] Yes [ ] No

IF YES, STREET ADDRESS 1: 530 W. Marquette Ave

GPS COORDINATES (meters in WTM91 projection): X= 689814 Y= 272994

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): [X] Yes [ ] No

IF YES, STREET ADDRESS 1: 530 W. Marquette Ave

GPS COORDINATES (meters in WTM91 projection): X= 689814 Y= 272994

CONTAMINATION IN RIGHT OF WAY: [ ] Yes [X] No

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter or denial letter issued	X
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	X
County Parcel ID number, *if used for county*, for all affected properties	X
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	X
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy**).** The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	X
GW: Table of water level elevations, with sampling dates, and free product noted if present	X
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	X
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	X
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)	X
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	X
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	N/A
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	N/A
Copy of any maintenance plan referenced in the deed restriction.	X

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TTY 711

December 18, 2006

Mr. Michael Helbling
Beazer East, Inc.
c/o Three Rivers Management, Inc.
One Oxford Centre, Suite 3000
Pittsburgh, PA 15219-6401

Subject: Final Case Closure with Land Use Limitations or Conditions
Former Theim/Henkel Surface Technologies Property, 420 W. Marquette Avenue
Oak Creek, WI, 53154; FID#: 241165210; BRRTs#: 02-41-513385

Dear Mr. Helbling:

On October 4, 2005, the Southeast Regional Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On November 25, 2005, you were notified that the Closure Committee had granted conditional closure to this case.

Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. It is the Department's intent to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

Impervious Barrier Required

Pursuant to s. 292.12(2)(a), Wis. Stats., the concrete/asphalt pavement or other impervious cap that currently exists in the location shown on the attached map (Figure 1-3) shall be maintained in compliance with the **attached maintenance plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of

excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

The following activities are prohibited on any portion of the above described impervious barrier area of the property where pavement, a building foundation, soil cover, engineered cap or other barrier is required as shown on the attached map (Figure 1-3), unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

In addition, depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Eric Amadi at (414) 263-8639.

Sincerely,

James A. Schmidt

James A. Schmidt
Southeast Region Remediation & Redevelopment Team Supervisor

cc: Peter S. Cox - The RETEC Group, Inc. 300 Baker Ave; Suite 302, Concord, MA, 01742
SER Case File #: 02-41-513385
Bill Phelps, DG/2

4 Maintenance Activities

Maintenance activities for the Deed Restricted Area include a semi-annual inspection of the concrete/asphalt cover for evidence of cracks or vegetation that would signal the need for repairs to the cover. The location of the concrete/asphalt cover in the Deed Restricted Area is shown in Figure 1-3. A generalized process diagram outlining the maintenance and inspection procedures is included as Figure 4-1.

4.1 Schedule

The concrete/asphalt cover in the Deed Restricted Area will be inspected on a semi-annual basis, once in the spring and once in the fall.

4.2 Inspection Form and Contingency Procedures

An inspection form will be completed by a designated Four X representative, or a representative of any subsequent owner or occupier of Parcel 1, on a semi-annual basis in the spring and fall of each year. An example inspection form is included in Appendix A. RETEC will review all inspection forms upon completion and, if required, coordinate repair activities with Four X or the subsequent owner or occupier of Parcel 1, within 30 days of notification of a needed repair. Given the current and anticipated future use in the Deed Restricted Area, repairs are expected to include filling of occasional cracks and managing vegetation or potential damage to the cover from equipment or snow removal activities. If a repair is needed, RETEC will also coordinate a re-inspection of the cover following the repair to ensure work is complete. Once conditions are documented to be in compliance with the cover objectives (limiting direct contact and infiltration to groundwater), monitoring will return to the normal semi-annual schedule.

5 Records Management

Records of each semi-annual inspection form will be kept on file at the Parcel 1 property. Copies will also be kept on file with Beazer's environmental consultant. Upon request, all copies can be made available for review by WDNR personnel. Given that no active remedial work is on-going at this location, no reports will be provided to WDNR unless requested.

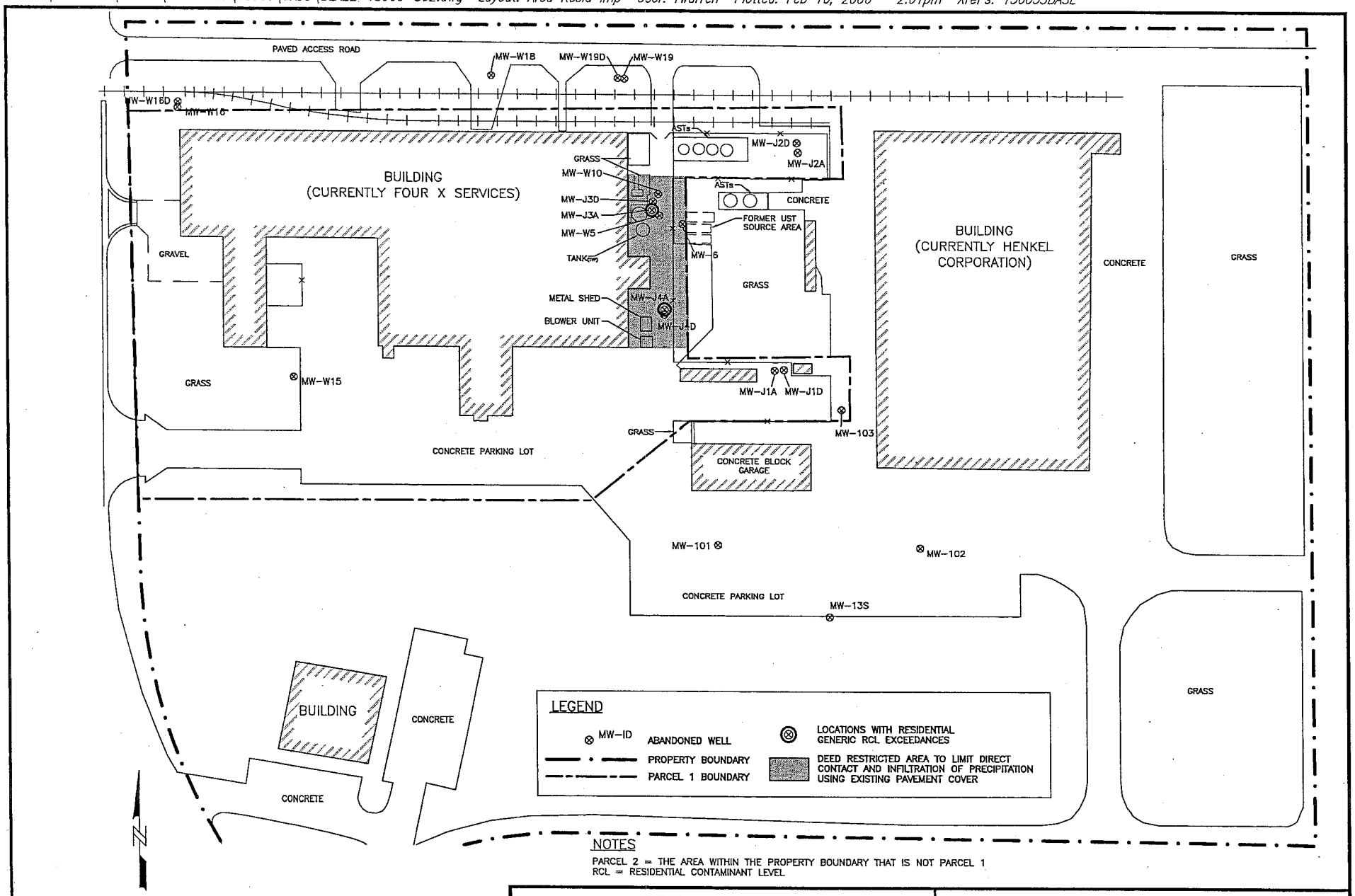
Semiannual Asphalt Cover Inspection Log
Four X Services
7250 South 6th Street, Oak Creek, WI
FID #: 241165210; BRRTs #: 02-41-513385

Inspector:
Inspector Signature:
Date of Inspection:
Weather Conditions:

INSPECTION ITEMS	OBSERVATIONS	SUGGESTED ACTION ITEM/MAINTENANCE PERFORMED
1) COVER		
Cracks or joints > 1/4" Present?		
Evidence of vegetation/location?		
Ponding Water Present?		
General Appearance?		
2) RUN-OFF CONTROLS		
Drainage areas free of debris?		
Drainage areas free of weeds and dirt?		
Drainage areas free of ice and snow?		
3) SITE ACTIVITIES		
Any recent site work in this area?		
Any heavy equipment present?		

Other Notes or Observations:

File: F:\PROJECTS\Beazer\Oak Creek\18909\CADD\BEAZ2-18909-S02.dwg Layout: Area Resid Imp User: rwarren Plotted: Feb 16, 2006 - 2:01pm Xref's: 15603SBASE



NOTES

PARCEL 2 = THE AREA WITHIN THE PROPERTY BOUNDARY THAT IS NOT PARCEL 1
RCL = RESIDENTIAL CONTAMINANT LEVEL

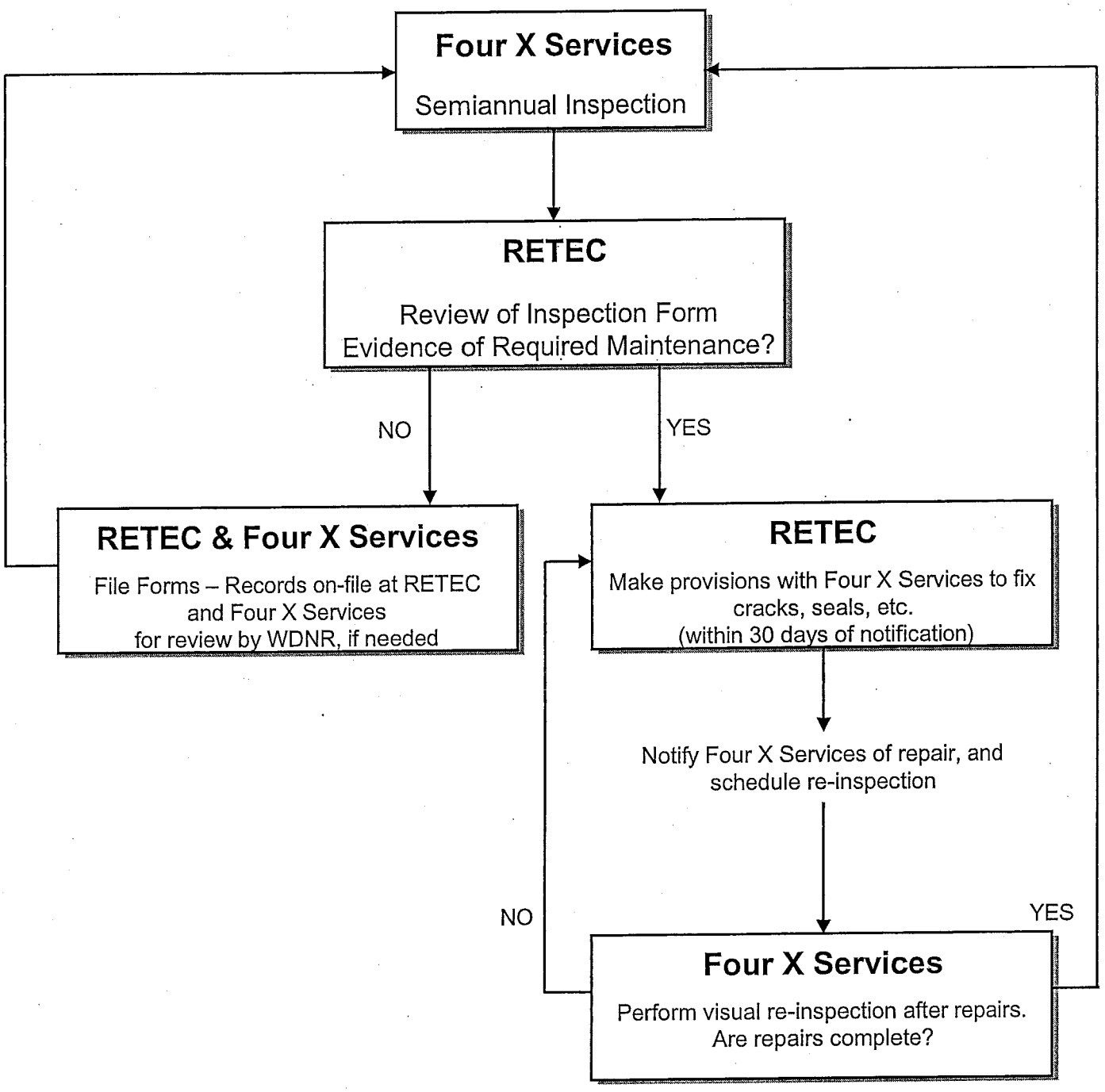
RETEC

BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-18909-500

DATE: 02/16/06 | DRWN: RCW/CON

AREA OF RESIDUAL SOIL IMPACTS TO BE PROTECTED BY DEED RESTRICTION OAK CREEK, WISCONSIN

FIGURE 1-3



RETEC

OAK CREEK, WISCONSIN BEAZER EAST BEAZ2-18909	CONCRETE/ASPHALT COVER MAINTENANCE AND INSPECTION PROCEDURE
CURRENT DATE: 2/2006	FILE:\PROJECTS\BEAZER\OAK CREEK\18909\FIG4.PPT FIGURE 4-1

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TTY 711

November 25, 2005

Mr. Michael Helbling
Beazer East, Inc.
c/o Three Rivers Management, Inc.
One Oxford Centre, Suite 3000
Pittsburgh, PA 15219-6401

Subject: Case Closure Denial - Former Theim/Henkel Surface Technologies Property
420 West Marquette Avenue, Oak Creek, Wisconsin 53154
FID#: 241165210; BRRTs#: 02-41-513385

Dear Mr. Helbling:

On October 4, 2005, the Southeast Regional Closure Committee (Committee) reviewed your request for closure of the case described above. The Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of your closure request, the closure committee has denied closure because additional requirements must be met. The purpose of this letter is to inform you of the remaining requirements for obtaining closure, and to request your written response within 60 days of receiving this letter.

Your site was denied closure because no deed restriction was provided, which is required in order to comply with state law and administrative codes. It appears your site has been adequately investigated and may be eligible for case closure if certain minimum closure requirements are met. Once you complete the tasks below, your site will be reconsidered for closure.

DEED RESTRICTION FOR CONTAMINATED SOIL

To close this site, the Department requires that a deed restriction be signed and recorded to address remaining soil contamination associated with the site. You can find a model deed restriction on our web site at http://www.dnr.state.wi.us/org/aw/rr/technical/index.htm. This section of our web site includes a link labeled "Institutional Controls Guidance," which leads to an electronic copy of PUB_RR_606, "Guidance on Case Close Out and the Requirements for Institutional Controls and VPLE Environmental Insurance." This guidance document includes a model deed restriction that you should use to satisfy this closure requirement. Other helpful information on deed restrictions may also be accessed on this web page. However, if you are unable to obtain this from our web site, please contact me and I will send you a copy of an applicable model deed restriction.

The purpose of a deed restriction at this site is to:

maintain a surface barrier over the remaining soil contamination to:

(a) prevent contamination from impacting human health through direct contact.
(b) prevent contamination from impacting groundwater due to the infiltration of precipitation. (See Option 3 in the model deed restriction in the appendix of PUB_RR_606.)

You will need to submit a draft deed restriction to me for review and Department approval, before the deed document is signed and recorded. To assist us in our review of the draft deed restriction, you must also submit a copy of the property deed ((and certified survey map or relevant portion of the recorded plat map if referenced in the deed). After the Department has reviewed and approved the draft document for completeness, you will need to sign it if you own the property, or have the appropriate property owner sign it, and have it recorded by the Milwaukee County Register of Deeds. **Then you must submit a copy of the recorded document, with the recording information stamped on it, to me within 30 days of receiving the final, approved deed document from the Department.** Please be aware that if a deed restriction is recorded for the wrong property because of an inaccurate legal description or parcel identification number that you have provided, you will be responsible for recording corrected documents at the Register of Deeds Office.

MAINTENANCE PLAN

To close this site, the Department requires that the asphalt or the pavement cover at the site must be maintained to minimize direct contact concerns and/or groundwater protection. The cover is to be maintained in accordance with a plan prepared and submitted to the Department pursuant to s. NR 724.13(2), Wis. Adm. Code. The maintenance plan should be submitted to me at the same time as the draft deed restriction for Department review and approval.

MONITORING WELL ABANDONMENT

The monitoring well(s) at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me (Eric Amadi) on Form 3300-5B found at www.dnr.state.wi.us/org/water/dwg/gw/ or provided by the Department of Natural Resources. When all the above requirements have been satisfied, please submit a letter, together with any required documentation, to let me know that applicable requirements have been met.

Note: case closure will be approved only if all the above requirements have been satisfied, including submitting the required documentation to the Department. **Please satisfy these requirements within 60 days of the date of this letter. If these requirements have not been met your site will remain "open" and additional remedial actions may be necessary by you to eliminate the need for these requirements.**

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (414) 263-8639.

Sincerely,

Eric Amadi

Eric Amadi
Hydrogeologist - Remediation & Redevelopment Program, SER Milwaukee

cc: Peter S. Cox - The RETEC Group, Inc. 300 Baker Avenue, Suite 302, Concord, MA 01742
SER Case File #: 02-41-513385

LIMITED WARRANTY DEED

THIS INDENTURE made this 12th day of August, A.D., 1996 between National Starch and Chemical Company, a division of INDOPCO, INC., a Delaware corporation ("Grantor") and Henkel Corporation, a Delaware corporation ("Grantee").

WITNESSETH, that Grantor for and in consideration of the sum of $1 and for such other good and valuable consideration, receipt of which is hereby acknowledged, conveys, sells and releases to Grantee, its successors and assigns certain real property situated in Milwaukee County, State of Wisconsin, more particularly described in the attached Schedule A ("Parcel 2");

THIS CONVEYANCE is subject to all easements, covenants and conditions of record including, but not limited to that certain Grant and Exchange of Driveway, Gas and Railroad Easements dated the 21st day of January, 1991, recorded by the Milwaukee County Register of Deeds, Document 6466632, Reel 2548, Image 1761 to 1771 inclusive.

TOGETHER WITH all and singular the hereditaments and appurtenances thereto belonging and all the estate, right, title, interest, claim or demand whatsoever of the Grantor, either in law or equity, either in possession or expectancy of, in and to the above-described Parcel 2.

TO HAVE AND TO HOLD the said Parcel 2 and its hereditaments and appurtenances, unto the Grantee and its successors and assigns FOREVER.

Grantor further warrants and covenants for the benefit of Grantee, its successors and assigns that:

1. Grantor has not done or suffered anything to be done wherein Parcel 2 has become encumbered except as set forth above.

2. Grantor will forever guarantee and defend the title and quiet possession of Parcel 2 against Grantor's encumbrances on Parcel 2 except as aforesaid and except for municipal and zoning ordinances and agreements thereunder; recorded easements and easements for public utilities and access; recorded building and use restriction; taxes and assessments.

The Grantor and Grantee expressly agree that the above referenced warranties and covenants by the Grantor are limited to and only apply to Grantor's own acts and do not include the acts of prior holders of any legal or equitable interest in Parcel 2.

IN WITNESS WHEREOF, the Grantor has caused these presents to be signed by its President and countersigned by its Secretary, at Bridgewater, New Jersey, and its corporate seal to be hereunto affixed, this 12th day of August, A.D., 1996.

SIGNED AND SEALED IN PRESENCE OF

Thomas C. Riley, Esquire

Thomas C. Riley, Esquire

NATIONAL STARCH AND CHEMICAL COMPANY, a division of INDORCO, INC., ("Grantor")

James A. Kennedy, President

COUNTERSIGNED:

Peter C. Maloff, Secretary

STATE OF NEW JERSEY)
) SS:
COUNTY OF SOMERSET)

Personally came before me this 12th day of August, A.D., 1996, James A. Kennedy, President, and Peter C. Maloff, Secretary, of NATIONAL STARCH AND CHEMICAL COMPANY, a division of INDOPCO, INC., to me known to be the persons who executed the foregoing instrument as such officers as the deed of said corporation, by its authority.

SEAL

Notary Public State of New Jersey
My Commission: _____
LINDA HADER
A Notary Public of New Jersey
My Commission Expires Nov. 14, 1998

The Grantee, hereby acknowledges the above-referenced warranties and covenants and agrees to be bound by the terms thereof as contained herein.

SIGNED AND SEALED IN PRESENCE OF:

HENKEL CORPORATION
("Grantee")

Ernest G. Szoke

COUNTERSIGNED

John E. Knudson

STATE OF Pennsylvania)
) SS:
COUNTY OF Montgomery)

Personally came before me this 12th day of August, A.D., 1996, Ernest G. Szoke, Vice President, and John E. Knudson, Vice President Finance, of HENKEL CORPORATION, to me known to be the persons who executed the foregoing instrument as such officers as the deed of said corporation, by its authority.

SEAL

Notary Public of Commonwealth of Pennsylvania

My Commission: _____

NOTARIAL SEAL
DEBORAH A. WELCH, Notary Public
Upper Merion Twp., Montgomery Co.
My Commission Expires Feb 15, 1998

10097

EXHIBIT A

Parcel 2 of Certified Survey Map No. 5437 being a redivision of Parcel 1 of Certified Survey Map No. 5229, being a part of the SW 1/4 of the NE 1/4 Section 8, T 5 N, R 22 E, in the City of Oak Creek, Milwaukee County, Wisconsin recorded on July 26, 1990, in Reel No. 2473, Images 312-315 incl., Document No. 6400908.

This instrument was drafted by:

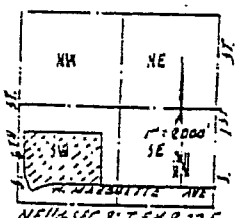
MICHAEL J. BENNETT
Lichtsinn & Haensel, s.c.
111 East Wisconsin Avenue
Suite 1800
Milwaukee, WI 53202

CERTIFIED SURVEY MAP NO. 5437

BEING A REDIVISION OF PARCEL 1 OF CERTIFIED SURVEY MAP NO. 5229, BEING A PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8, T 5 N, R 22 E, IN THE CITY OF OAK CREEK, MILWAUKEE COUNTY, WISCONSIN.

GRAPHIC SCALE

0 50 100 200 300 400 500



NE1/4 SEC. 8, T.5N.R.22E. VICINITY SKETCH

o - INDICATES 1" DIA. IRON PIPE, 24" LONG, WEIGHT 1.13 LBS. PER LINEAL FOOT, UNLESS OTHERWISE NOTED.

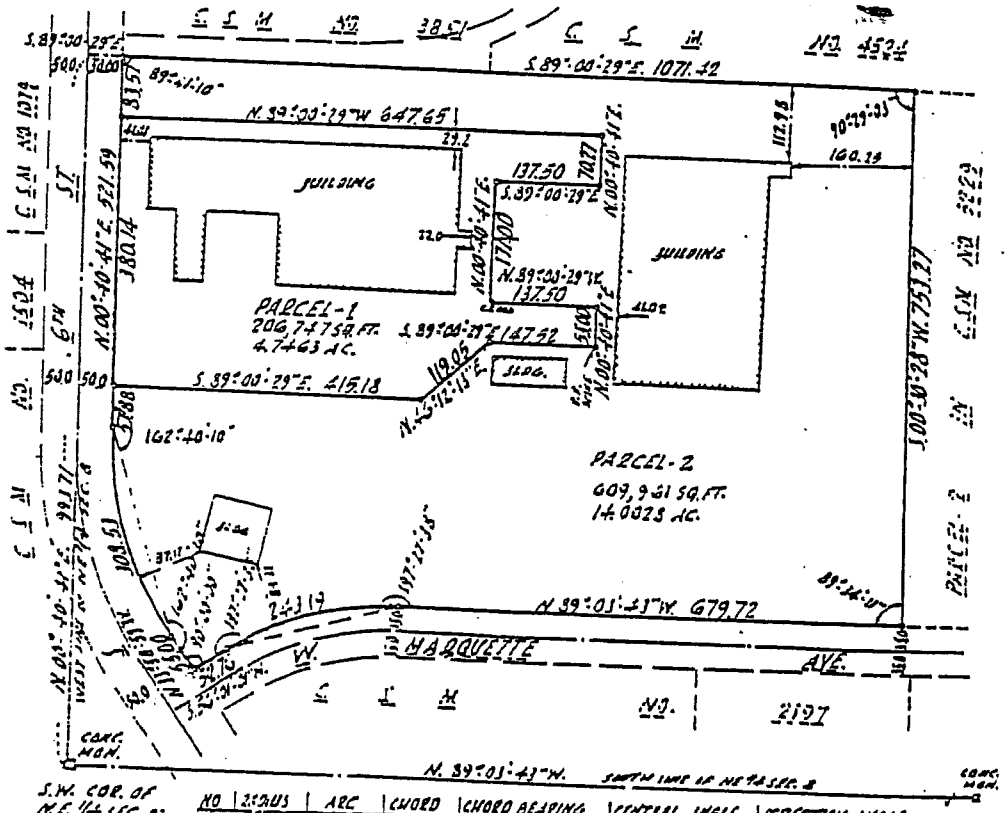
ALL DIMENSIONS SHOWN ARE MEASURED TO THE NEAREST HUNDREDTH OF A FOOT.

ALL BEARINGS SHOWN ARE REFERENCED TO GRID NORTH, WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.

N

SCALE: 1" = 200'

JUL 2 6 1990



S.W. COR. OF N.E. 1/4 SEC. 8; T.5N. R. 22 E. 338,108.78 N. 2,556,929.69 E.

NO	RADIUS	ARC	CHORD	CHORD BEARING	CENTRAL ANGLE	DEFLECTION ANGLE
1	399.01	243.19	239.44	S73°28'39"W.	34°55'16"	17°27'38"
2	510.00	308.53	301.84	N16°39'09"W.	34°39'40"	17°19'50"

KENNETH E. BERKE S-407 MILWAUKEE, WIS. LAND SURVEYOR

5/12/89

national survey & engineering

5437

14.8

CERTIFIED SURVEY MAP NO. 5437

BEING A REDIVISION OF PARCEL 1 OF CERTIFIED SURVEY MAP NO. 5229, BEING A PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8, T 5 N, R 22 E, IN THE CITY OF OAK CREEK, MILWAUKEE COUNTY, WISCONSIN.

SURVEYOR'S CERTIFICATE

I, KENNETH E BERKE, LAND SURVEYOR, DO HEREBY CERTIFY:

THAT I HAVE SURVEYED AND MAPPED A REDIVISION OF PARCEL 1 OF CERTIFIED SURVEY MAP NO. 5229, BEING A PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8, T 5 N, R 22 E, IN THE CITY OF OAK CREEK, MILWAUKEE COUNTY, WISCONSIN, WHICH IS BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID 1/4 SECTION;
THENCE NORTH 00° 40' 41" EAST ALONG THE WEST LINE OF SAID 1/4 SECTION 993.71 FT. TO A POINT;
THENCE SOUTH 89° 00' 29" EAST 50.00 FT. TO THE NORTHWEST CORNER OF SAID PARCEL 1 SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE LAND TO BE DESCRIBED;
CONTINUING THENCE SOUTH 89° 00' 29" EAST 1071.42 FT. TO A POINT;
THENCE SOUTH 00° 30' 28" WEST 753.27 FT. TO A POINT IN THE NORTH LINE OF WEST MARQUETTE AVENUE;
THENCE NORTH 89° 03' 43" WEST ALONG SAID NORTH LINE 679.72 FT. TO A POINT,
CONTINUING THENCE WESTERLY ALONG SAID NORTH LINE 243.19 FT. ALONG THE ARC OF A CURVE WHOSE CENTER LIES TO THE SOUTHEAST WHOSE RADIUS IS 399.01 FT. AND WHOSE CHORD BEARS SOUTH 73° 28' 39" WEST 236.44 FT. TO A POINT:
THENCE CONTINUING SOUTH 56° 01' 01" WEST ALONG SAID NORTH LINE 52.76 FT. TO A POINT IN THE EAST LINE OF SOUTH 6TH STREET;
THENCE NORTH 33° 58' 59" WEST ALONG SAID EAST LINE 55.00 FT. TO A POINT;
THENCE CONTINUING NORTHERLY ALONG SAID EAST LINE 308.53 FT. ON THE ARC OF A CURVE WHOSE CENTER LIES TO THE EAST WHOSE RADIUS IS 510.00 FT. AND WHOSE CHORD BEARS NORTH 16° 39' 09" WEST 303.84 FT. TO A POINT;
THENCE NORTH 00° 40' 41" EAST ALONG SAID EAST LINE 521.59 FT. TO THE POINT OF BEGINNING.
CONTAINING 18.7491 ACRES.

THAT I HAVE MADE THIS SURVEY, LAND DIVISION AND MAP BY THE DIRECTION OF NATIONAL STARCH AND CHEMICAL CORPORATION.

THAT SUCH SURVEY IS A CORRECT REPRESENTATION OF ALL THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND THE LAND DIVISION THEREOF MADE.

THAT I HAVE FULLY COMPLIED WITH THE PROVISIONS OF CHAPTER 236 OF THE WISCONSIN STATUTES AND CHAPTER 18 OF THE CITY OF OAK CREEK MUNICIPAL CODE IN SURVEYING, DIVIDING AND MAPPING THE SAME.

DATED: MAY 12 1989

Kenneth E Berke (SEAL)
KENNETH E BERKE, REGISTERED WISCONSIN LAND SURVEYOR S-107

WISCONSIN KENNETH E. BERKE S-107 LAND SURVEYOR

CORPORATE OWNER'S CERTIFICATE

NATIONAL STARCH AND CHEMICAL CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY THE VIRTUE OF THE LAWS OF THE STATE OF DELAWARE, AS OWNER, CERTIFIES THAT SAID CORPORATION CAUSED THE LAND DESCRIBED ON THIS MAP TO BE SURVEYED, DIVIDED, MAPPED AND DEDICATED AS REPRESENTED ON THIS MAP IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 18 OF THE CITY OF OAK CREEK MUNICIPAL CODE.

CERTIFIED SURVEY MAP NO. 5437

BEING A REDIVISION OF PARCEL 1 OF CERTIFIED SURVEY MAP NO. 5229, BEING A PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8, T 5 N, R 22 E, IN THE CITY OF OAK CREEK, MILWAUKEE COUNTY, WISCONSIN.

IN WITNESS WHEREOF, NATIONAL STARCH AND CHEMICAL CORPORATION HAS CAUSED THESE PRESENTS TO BE SIGNED BY ROBERT BURKE, ITS DIVISION VICE-PRESIDENT, AT OAK CREEK, WISCONSIN, THIS 15 DAY OF May, 1989.

IN THE PRESENCE OF:

NATIONAL STARCH AND CHEMICAL CORPORATION

Robert Burke (SEAL)
ROBERT BURKE, DIVISION VICE PRESIDENT

STATE OF WISCONSIN)
:SS
COUNTY OF MILWAUKEE(

PERSONALLY CAME BEFORE ME THIS 15 DAY OF May, 1989 ROBERT BURKE, DIVISION VICE PRESIDENT, TO ME KNOWN TO BE THE PERSON WHO EXECUTED THE FOREGOING INSTRUMENT AND TO ME KNOWN TO BE THE DIVISION VICE PRESIDENT OF THE ABOVE CORPORATION, AND ACKNOWLEDGED THAT HE EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICER AS THE DEED OF SAID CORPORATION BY ITS AUTHORITY.

(SEAL)
NOTARY PUBLIC, STATE OF WISCONSIN
MY COMMISSION EXPIRES Feb. 29 1990
MY COMMISSION IS PERMANENT

PLANNING COMMISSION APPROVAL

APPROVED BY THE PLANNING COMMISSION OF THE CITY OF OAK CREEK ON THIS 23rd DAY OF May, 1989.

Christine B. Bastian
CHAIRMAN

Walter A. Marburgli
SECRETARY

WISCONSIN
KENNETH E. BERKE
S-107
MILWAUKEE, WIS.
LAND SURVEYOR

5/12/89

THIS INSTRUMENT WAS DRAFTED BY KENNETH E BERKE
REGISTERED LAND SURVEYOR S-107

CERTIFIED SURVEY MAP NO. 5437

BEING A REDIVISION OF PARCEL ONE OF CERTIFIED SURVEY MAP NO. 5229, BEING A PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8 T 5 N,R 22 E, IN THE CITY OF OAK CREEK, MILWAUKEE COUNTY, WISCONSIN.

COMMON COUNCIL APPROVAL

APPROVED BY THE COMMON COUNCIL OF THE CITY OF OAK CREEK ON THIS 25th DAY OF June, 1990, Resolution No. 7769-060689.

Christine B. Bartier
MAYOR

Beverly A. Burette
CITY CLERK

WISCONSIN
KENNETH E. BERKE
S-107
MILWAUKEE, WIS.
LAND SURVEYOR

7/10/90

6400908

REGISTER'S OFFICE
Milwaukee County, WI } ss
RECORDED AT 10:30 AM
JUL 26 1990
REEL 2473 IMAGE 315
REGISTER OF DEEDS

6400908
RECORD 640090 14.0
14.00

THIS INSTRUMENT WAS DRAFTED BY KENNETH E BERKE, SURVEYOR
REGISTERED LAND SURVEYOR S107

7261391

Document Number

Document Title

REGISTER'S OFFICE
Milwaukee County, WI } SS
RECORDED AT 3:05 PM
SEP - 5 1996 6235
REEL 3877 IMAGE 627 vol
REGISTER OF DEEDS

Recording Area

Name and Return Address
Michael J. Bennett
Lichtsinn & Haemsel S.C.
111 East Wisconsin Ave.
Suite 1000
Milwaukee, WI 53202

Ref
C.189

TRANSFER
$ 11,220.00
FEE

765-9045-000
Parcel Identification Number (PIN)

7261391
RECORD 18.00
RTX 11220.00

This information must be completed by submitting document title, name & return address, and PIN if required. Other information such as new governing clauses, legal descriptions, etc. may be placed on this first page of the document or may be placed on additional pages of the document. Note: Use of this cover page adds one page to your document and $2.00 to the recording fee. Wisconsin Statutes, 59.517. WRDA 2/96

900

Property Address:

Henkel Surface Technologies (Former Thiem Corporation Facility)
500 West Marquette Avenue
Oak Creek, WI 53154

Parcel Identification Number:

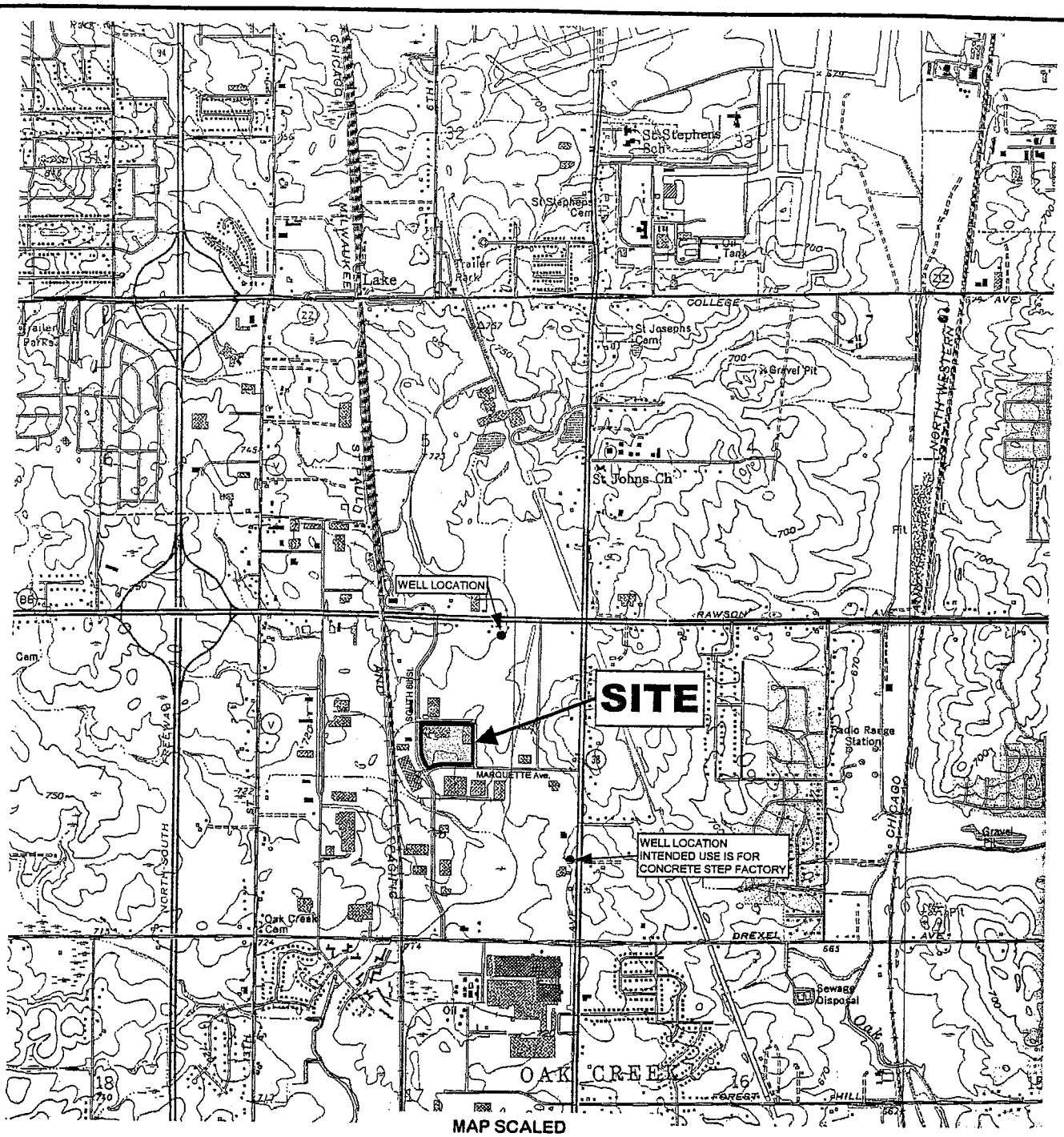
7710421

Adjacent Property Address:

Four X Services, LLC
7350 South 6th Street
Oak Creek, WI 53154

Adjacent Parcel Identification Number:

7659044



MAP SCALED
FROM ORIGINAL SIZE
TO FIT PAGE
(GRAPHIC BAR SCALED TO MATCH)

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

MN
GN
0°38'
11 MILS
0°

UTM GRID AND 1976 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS 578 FEET

WISCONSIN

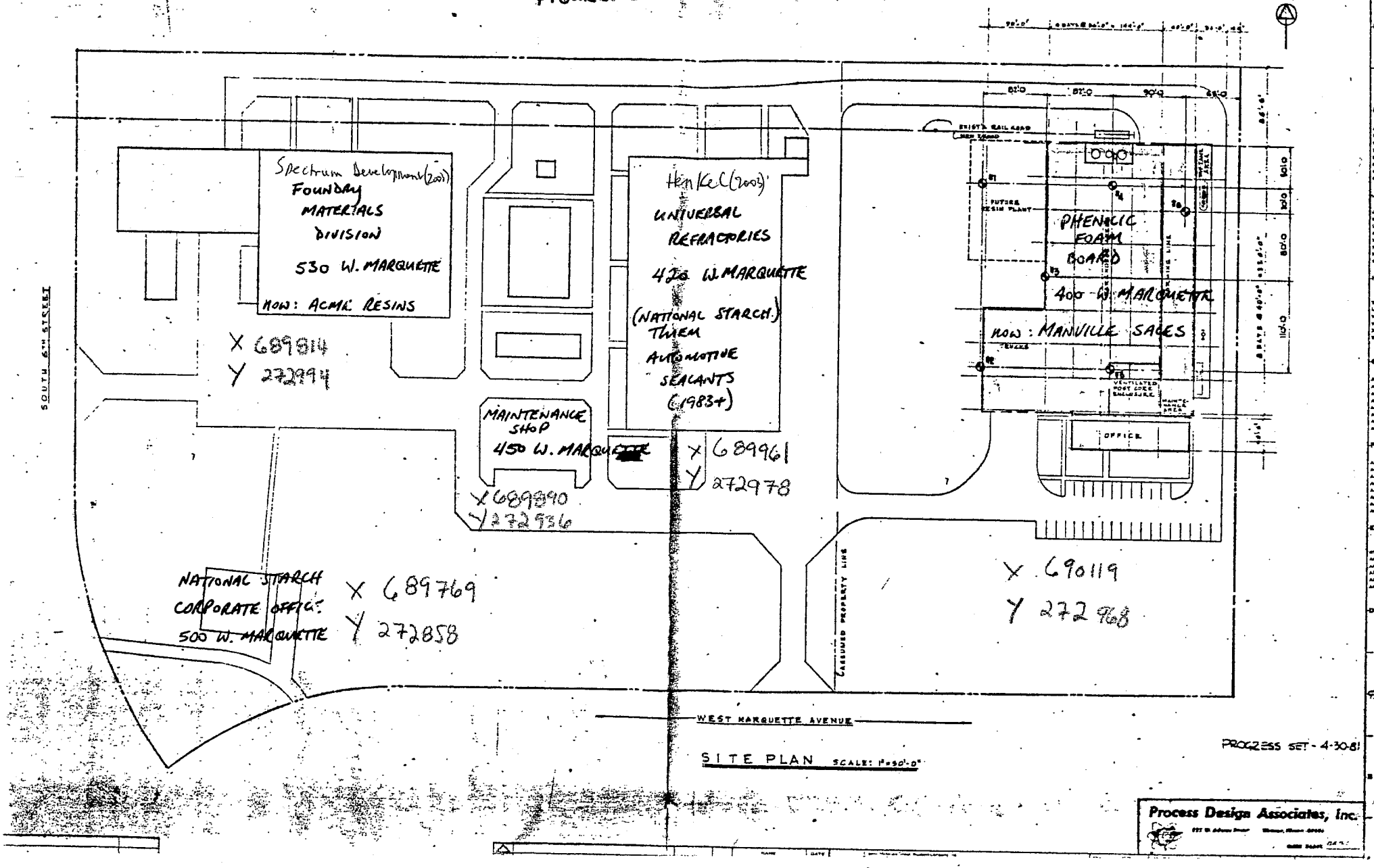
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY, MADISON, WISCONSIN 53706
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

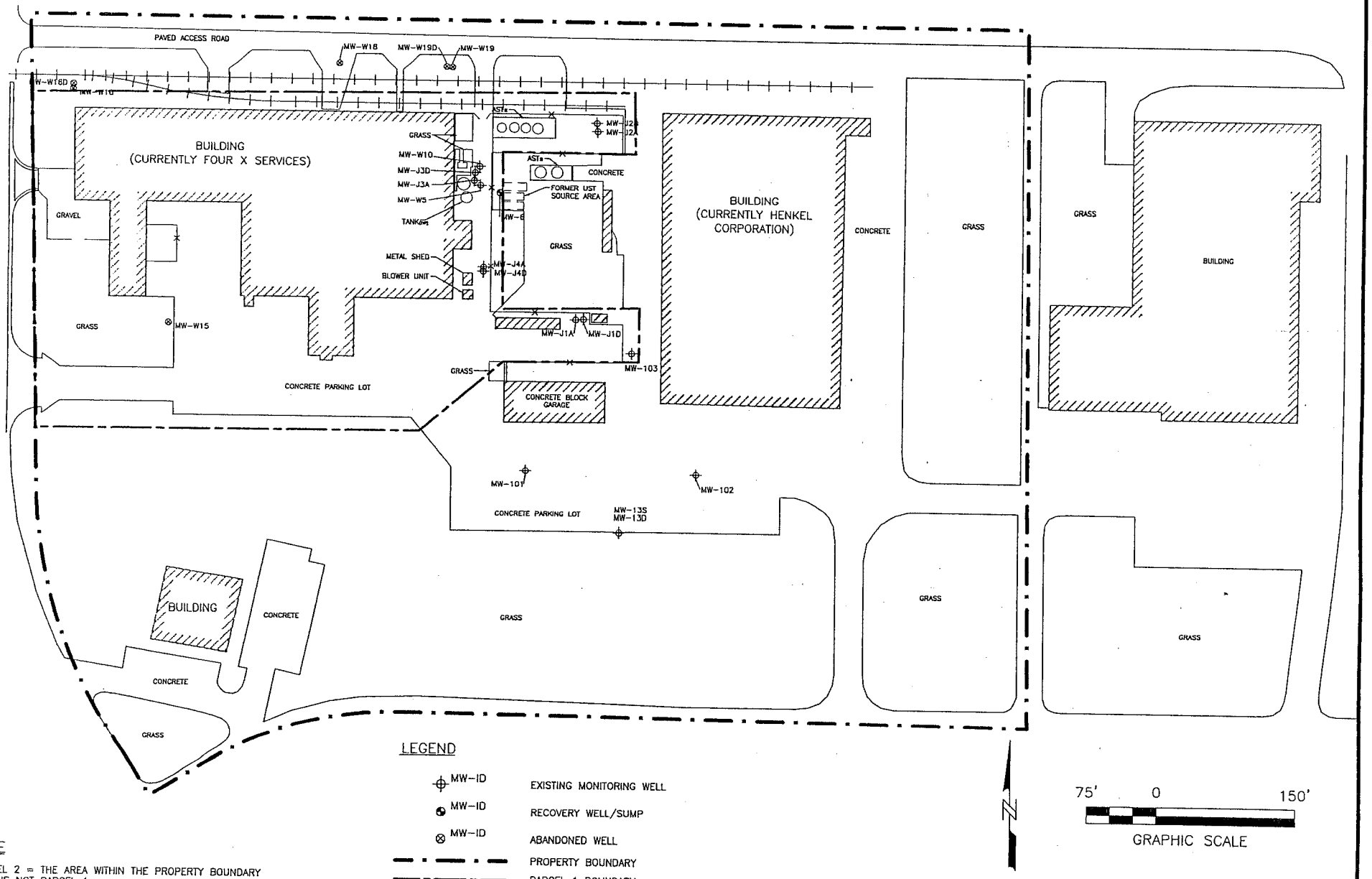
RETEC

BEAZER EAST, INC. OAK CREEK SITE BEAZ2-15603-820	SITE LOCATION PLAN 420-500 WEST MARQUETTE AVE. OAK CREEK, WISCONSIN
DATE: 5/2003 DRWN: BcV FILE: 158169-LOC.ppt	FIGURE:B.4-1

FIGURE 1


Spectrum Development (2001)
FOUNDRY MATERIALS DIVISION
530 W. MARQUETTE
NOW: ACME RESINS
X 689814
Y 272994
MAINTENANCE SHOP
450 W. MARQUETTE
X 689890
Y 272936
Henkel (2003)
UNIVERSAL REFRACTORIES
420 W. MARQUETTE
(NATIONAL STARCH)
THEM AUTOMOTIVE SEALANTS
(1983+)
X 689961
Y 272978
PHENOLIC FOAM BOARD
400 W. MARQUETTE
NOW: MANVILLE SALES
OFFICE
X 690119
Y 272968
NATIONAL STARCH CORPORATE OFFICE
500 W. MARQUETTE
X 689769
Y 272858
SOUTH 6TH STREET
WEST MARQUETTE AVENUE
ASSUMED PROPERTY LINE
SITE PLAN SCALE: 1"=50'-0"
PROGRESS SET - 4-30-81
Process Design Associates, Inc.

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816SD04.dwg Layout: SITE User: rwarren Plotted: Aug 06, 2003 - 10:19am Xref's:

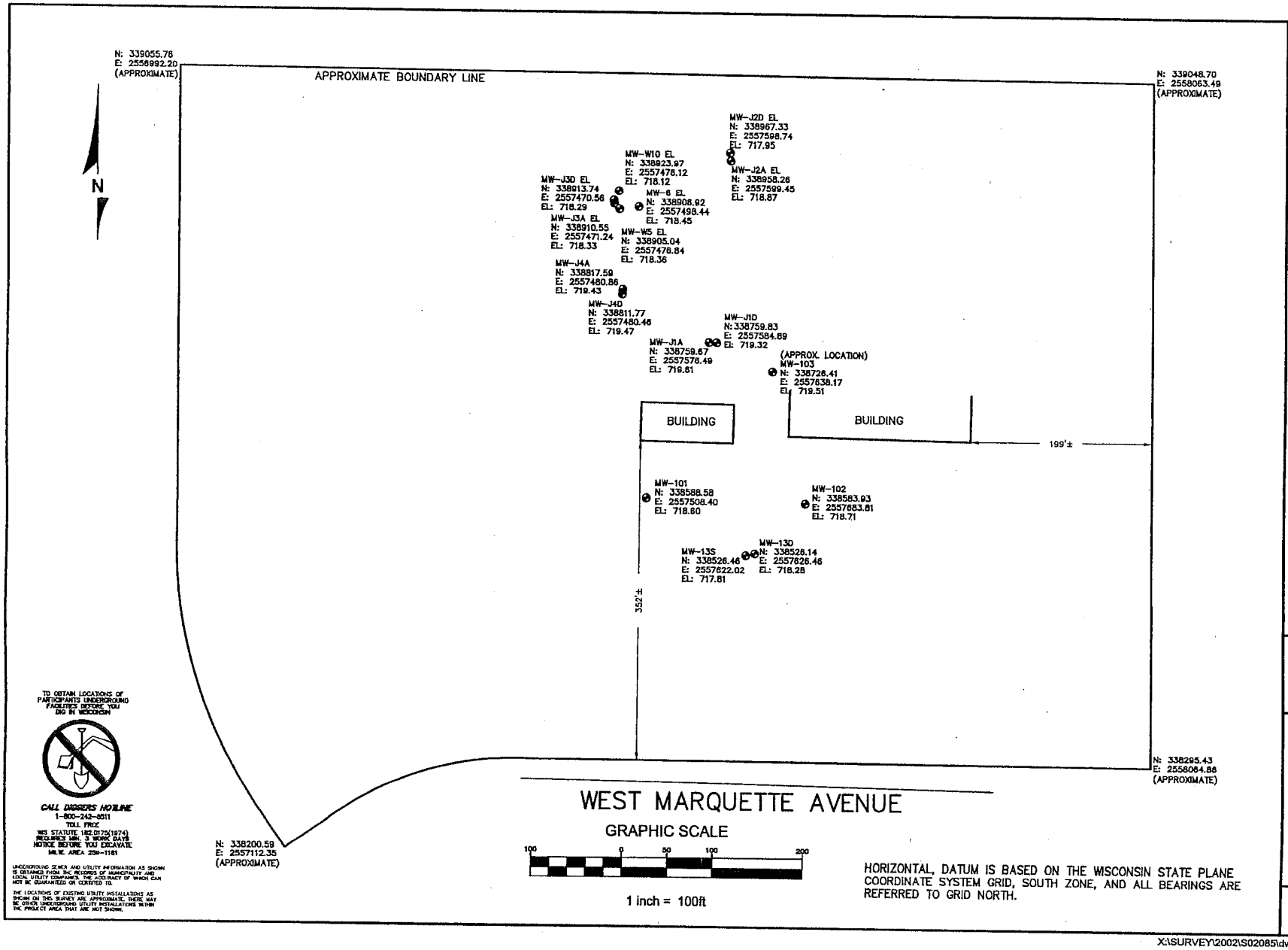


NOTE

PARCEL 2 = THE AREA WITHIN THE PROPERTY BOUNDARY THAT IS NOT PARCEL 1.

RETEC

BEAZER EAST, INC. OAK CREEK SITE BEAZ2-15816-920	SITE MAP OAK CREEK, WISCONSIN
DATE: 07/23/02 DRWN: BcV/CON	FIGURE B.5-1



LAND INFORMATION SERVICES, INC.
ENGINEERS, SURVEYORS & CONSULTANTS
9722 WATERTOWN PLANK ROAD
BUILDING B-5
WAUWATOSA, WI 53226
T 414-302-9515 F 414-302-9516

EXHIBIT

FORMER THEIM FACILITY 420-500 WEST MARQUETTE AVE.

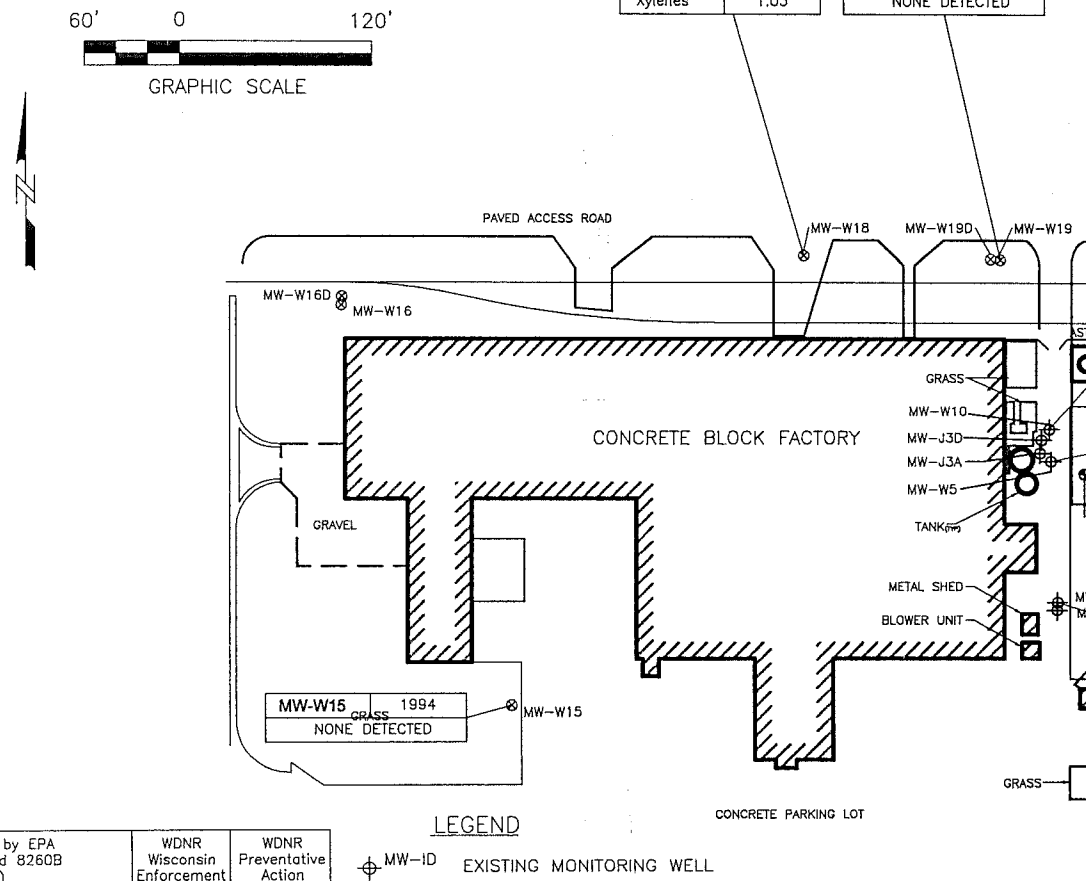
OAK CREEK, WISCONSIN

DRAWN BY: J.T.M.
CHECKED BY: M.L.W.
DATE: 08/05/03
JOB NUMBER: S02085R1M

420-500 W. MARQUETTE AVE.
S02085R1M

X:\SURVEY\2002\S02085\dwg\S02085R0E-IP-1-JTM.dwg, LIS03

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816SD02.dwg Layout: REG-X SHALLOW 1994-2002 User: rwarren Plotted: Aug 04, 2003 - 2:00pm Xref's:



MW-W18	10/27/94
Xylenes	1.03

MW-W19	1994
NONE DETECTED	

MW-W10	10/27/94	5/7/96	5/10/02
Benzene	1.62	0.93	--
Chloroethane	3,913	3,200	590
1,1-Dichloroethane	5.82	9.1	--
1,2-Dichloroethane	152	85	40
Ethylbenezene	15.4	91	--
Toluene	9.67	1.5	--
Vinyl Chloride	23	14	--
Xylenes	191	27	--
Methylene Chloride	--	--	4.12
Methyl Ethyl Ketone	--	--	13

MW-W10 (Dup)	5/10/02
Chloroethane	610
1,2-Dichloroethane	44
Methylene Chloride	4.12
Methyl Ethyl Ketone	12

MW-J2A	10/27/94	5/10/02
Toluene	1.22	--
1,1-Dichloroethane	--	0.3

MW-W5	10/27/94	5/7/96
Chloroethane	922	390
1,2-Dichloroethane	26.9	26
Toluene	1.07	--
Vinyl Chloride	--	0.89
Xylenes	1.03	--

MW-6	6/23/94	9/24/94	5/7/96	8/15/01
Chloroethane	--	--	250	--
1,1-Dichloroethane	1,500	230	1,300	2,300
1,2-Dichloroethane	--	--	9	--
1,1-Dichloroethylene	--	--	25	--
1,1,1-Trichloroethane	15,000	1,700	4,100	5,400
Vinyl Chloride	--	--	1.7	--

MW-J4A	10/27/94	5/8/96	5/6/02
Chloroethane	48.9	37	35
1,1-Dichloroethane	5.56	100	11
Ethylbenezene	6.54	78	5.5
Isopropylbenzene	--	3.3	0.9
Toluene	5.72	58	2.1
Total Xylene	21.2	270	18

MW-103	12/9/02
1,1-Dichloroethane	3.9

MW-J1A	10/27/94	5/8/96	5/10/02
Chloroethane	--	230	19
1,1-Dichloroethane	191	770	280
1,2-Dichloroethane	1.82	6.2	1.6
1,1-Dichloroethylene	4.53	25	8.8
cis-1,2-Dichloroethene	--	--	1.6
Methylene Chloride	--	--	3.2
1,1,1-Trichloroethane	113	660	330
Vinyl Chloride	--	2	--

MW-W15	1994
NONE DETECTED	

MW-101	5/10/02
NONE DETECTED	

MW-13S	5/10/02
NONE DETECTED	

MW-102	5/10/02
NONE DETECTED	

LEGEND

- MW-ID — EXISTING MONITORING WELL
- MW-ID — ABANDONED MONITORING WELL
- MW-ID — RECOVERY WELL/SUMP

NOTES

1. UNDERLINED SAMPLES EXCEED PREVENTATIVE ACTION LIMITS
2. BOXED SAMPLE EXCEED BOTH PREVENTATIVE ACTION LIMITS & WISCONSIN ENFORCEMENT STANDARDS.
3. NL = NOT LISTED
4. -- = NO EXCEEDENCE/DETECTION

VOCs by EPA Method 8260B (µg/L)	WDNR Wisconsin Enforcement Standards	WDNR Preventative Action Limits
Benzene	5	0.5
Chloroethane	400	80
1,1-Dichloroethane	850	85
1,2-Dichloroethane	5	0.5
1,1-Dichloroethylene	7	0.7
cis-1,2-Dichloroethane	70	7
Methylene Chloride	5	0.5
Ethylbenezene	700	140
Isopropylbenzene	NL	NL
Methyl Ethyl Ketone	460	90
Toluene	1000	200
1,1,1-Trichloroethane	200	40
Total Xylene	10000	1000
Trichloroethene	5	0.5
Vinyl Chloride	0.2	0.02

RETEC

BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

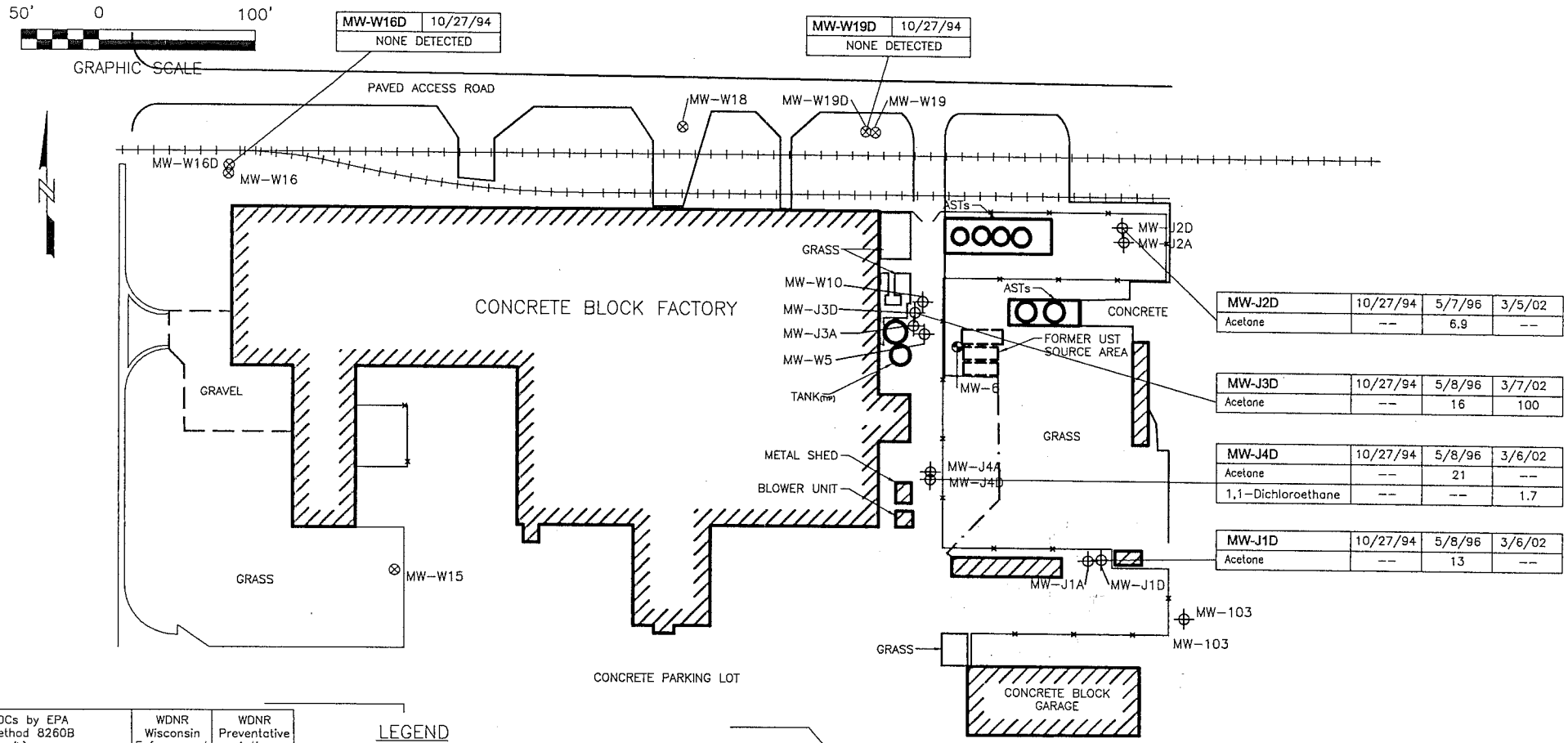
DATE: 06/04/03 | DRWN: RCW/CON

SHALLOW GROUNDWATER ANALYTICAL DATA

OAK CREEK, WISCONSIN

FIGURE B.7-2

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816SD02.dwg Layout: REG-X DEEP 1994-2002 User: rwarren Plotted: Sep 24, 2003 - 2:18pm Xref's:



MW-J2D	10/27/94	5/7/96	3/5/02
Acetone	--	6.9	--

MW-J3D	10/27/94	5/8/96	3/7/02
Acetone	--	16	100

MW-J4D	10/27/94	5/8/96	3/6/02
Acetone	--	21	--
1,1-Dichloroethane	--	--	1.7

MW-J1D	10/27/94	5/8/96	3/6/02
Acetone	--	13	--

VOCs by EPA Method 8260B (µg/L)	WDNR Wisconsin Enforcement Standards	WDNR Preventative Action Limits
Benzene	5	0.5
Chloroethane	400	80
1,1-Dichloroethane	850	85
1,2-Dichloroethane	5	0.5
1,1-Dichloroethylene	7	0.7
cis-1,2-Dichloroethane	70	7
Methylene Chloride	5	0.5
Ethylbenezene	700	140
Isopropylbenzene	NL	NL
Methyl Ethyl Ketone	460	90
Toluene	1000	200
1,1,1-Trichloroethane	200	40
Total Xylene	10000	1000
Trichloroethene	5	0.5
Vinyl Chloride	0.2	0.02

LEGEND

MW-ID EXISTING MONITORING WELL

MW-ID ABANDONED MONITORING WELL

MW-ID RECOVERY WELL/SUMP

NOTES

1. UNDERLINED SAMPLES EXCEED PREVENTATIVE ACTION LIMITS
2. BOXED SAMPLE EXCEED BOTH PREVENTATIVE ACTION LIMITS & WISCONSIN ENFORCEMENT STANDARDS.
3. ND = NOT DETECTED.
4. -- = NO EXCEEDANCE/DETECTION.

RETEC

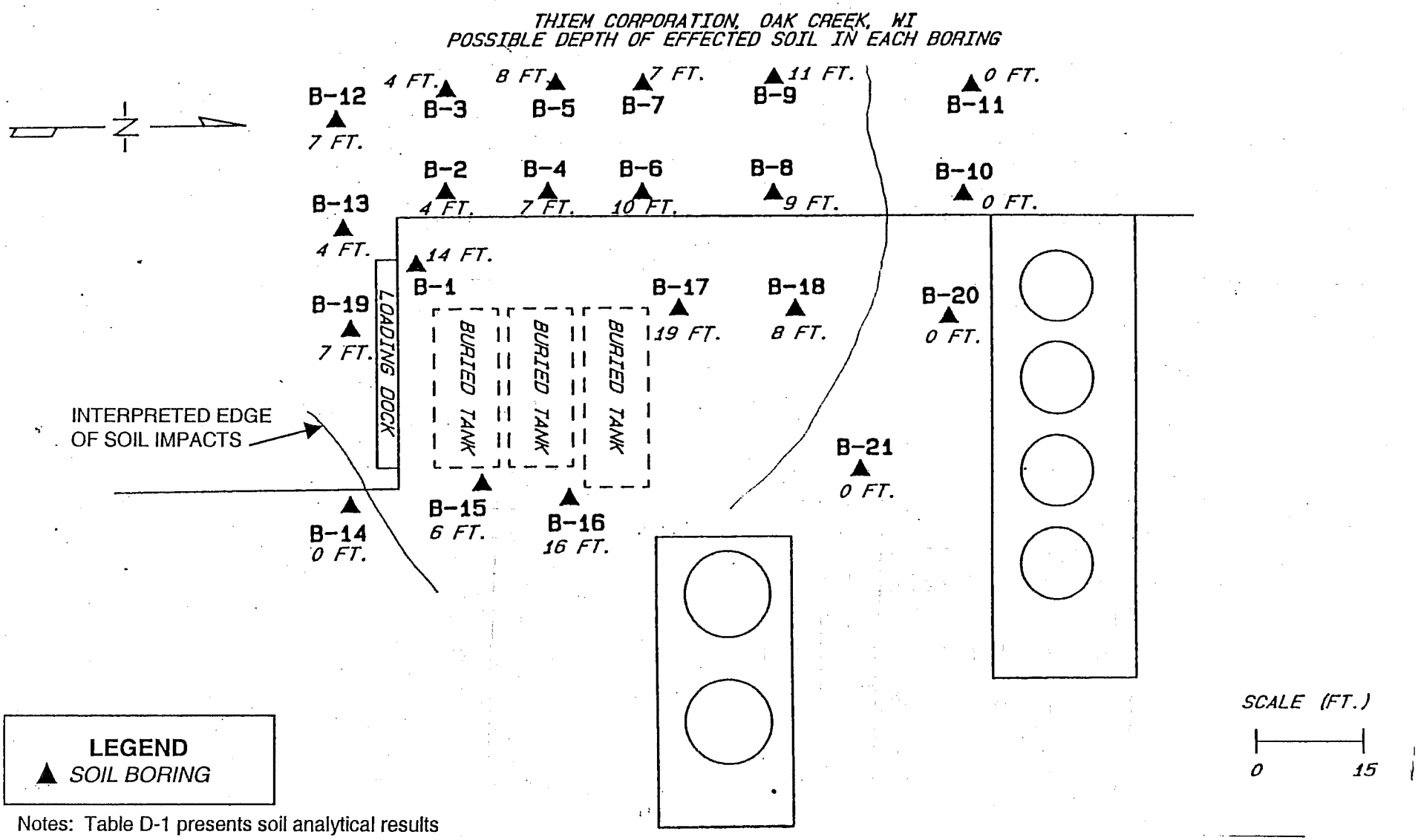
BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

DEEP GROUNDWATER ANALYTICAL DATA

OAK CREEK, WISCONSIN

FIGURE B.7-3



Notes: Table D-1 presents soil analytical results
Reference: Koppers, 1985

RETEC

OAK CREEK, WISCONSIN BEAZER EAST, INC.			PRE-REMEDIAL SOIL SAMPLE LOCATION MAP	
CURRENT DATE	6/2003	FILE	F:\PROJECTS\figure d-1.ppt	FIGURE D-1

Table F-1
Groundwater Analytical Results
Former Thiem Facility Oak Creek, Wisconsin, Beazer East, Inc.

Well ID	WDNR Groundwater Enforcement Standards	WDNR Preventative Action Limits	MW--6	MW-J1A	MW-J2A	MW-W10	Dup	MW-J1D	MW-J2D	MW-J3D	MW-J4D	Trip Blank	Trip Blank	Trip Blank
Sample Date			15-Aug-01	6-Mar-02	5-Mar-02	6-Mar-02	6-Mar-02	6-Mar-02	5-Mar-02	7-Mar-02	6-Mar-02	6-Mar-02	7-Mar-02	5-Mar-02
Aquifer Depth			Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep			
VOCs by EPA Method 8260B (µg/L)														
Acetone	1000	200	< 80	< 1.06	< 0.531	< 2.66	< 2.66	< 0.531	< 0.531	100	< 0.531	< 0.531	< 0.531	< 0.531
Benzene	5	0.5	NA	< 0.880	< 0.440	< 2.20	< 2.20	< 0.440	< 0.440	< 0.440	< 0.440	< 0.440	< 0.440	< 0.440
Bromobenzene	NL	NL	NA	< 0.838	< 0.419	< 2.10	< 2.10	< 0.419	< 0.419	< 0.419	< 0.419	< 0.419	< 0.419	< 0.419
Bromochloromethane	0.6	0.06	NA	< 0.598	< 0.299	< 1.50	< 1.50	< 0.299	< 0.299	< 0.299	< 0.299	< 0.299	< 0.299	< 0.299
Dichlorobromomethane	NL	NL	NA	< 0.438	< 0.219	< 1.10	< 1.10	< 0.219	< 0.219	< 0.219	< 0.219	< 0.219	< 0.219	< 0.219
Bromoform	4.4	0.44	NA	< 0.522	< 0.261	< 1.31	< 1.31	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261
Bromomethane	10	1	NA	< 0.692	< 0.346	< 1.73	< 1.73	< 0.346	< 0.346	< 0.346	< 0.346	< 0.346	< 0.346	< 0.346
n-Butylbenzene	NL	NL	NA	< 0.526	< 0.263	< 1.32	< 1.32	< 0.263	< 0.263	< 0.263	< 0.263	< 0.263	< 0.263	< 0.263
sec-Butylbenzene	NL	NL	NA	< 0.544	< 0.272	< 1.36	< 1.36	< 0.272	< 0.272	< 0.272	< 0.272	< 0.272	< 0.272	< 0.272
tert-butylbenzene	NL	NL	NA	< 0.484	< 0.242	< 1.21	< 1.21	< 0.242	< 0.242	< 0.242	< 0.242	< 0.242	< 0.242	< 0.242
Carbon Tetrachloride	5	0.5	NA	< 0.638	< 0.319	< 1.60	< 1.60	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319
Chlorobenzene	NL	NL	NA	< 0.480	< 0.240	< 1.20	< 1.20	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240
Chloroethane	400	80	NA	19	< 0.251	590 [2]	610 [2]	< 0.251	< 0.251	< 0.251	< 0.251	< 0.251	< 0.251	< 0.251
Chloroform	6	0.6	NA	< 0.400	< 0.200	< 1.00	< 1.00	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Chloromethane	3	0.3	NA	< 0.812	< 0.406	< 2.03	< 2.03	< 0.406	< 0.406	< 0.406	< 0.406	< 0.406	< 0.406	< 0.406
2-Chlorotoluene	NL	NL	NA	< 0.570	< 0.285	< 1.43	< 1.43	< 0.285	< 0.285	< 0.285	< 0.285	< 0.285	< 0.285	< 0.285
4-Chlorotoluene	NL	NL	NA	< 0.486	< 0.243	< 1.22	< 1.22	< 0.243	< 0.243	< 0.243	< 0.243	< 0.243	< 0.243	< 0.243
Chlorodibromomethane	NL	NL	NA	< 0.578	< 0.289	< 1.45	< 1.45	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289
Dibromomethane	NL	NL	NA	< 1.38	< 0.688	< 3.44	< 3.44	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688
1,2-Dichlorobenzene	600	60	NA	< 0.910	< 0.455	< 2.28	< 2.28	< 0.455	< 0.455	< 0.455	< 0.455	< 0.455	< 0.455	< 0.455
1,3-Dichlorobenzene	1250	125	NA	< 0.906	< 0.453	< 2.27	< 2.27	< 0.453	< 0.453	< 0.453	< 0.453	< 0.453	< 0.453	< 0.453
1,4-Dichlorobenzene	75	15	NA	< 1.17	< 0.584	< 2.92	< 2.92	< 0.584	< 0.584	< 0.584	< 0.584	< 0.584	< 0.584	< 0.584
Dichlorodifluoromethane	1000	200	NA	< 0.696	< 0.348	< 1.74	< 1.74	< 0.348	< 0.348	< 0.348	< 0.348	< 0.348	< 0.348	< 0.348
1,1-Dichloroethane	850	85	2300	280 [1]	0.3 J	< 1.19	< 1.19	< 0.238	< 0.238	< 0.238	1.7	< 0.238	< 0.238	< 0.238
1,2-Dichloroethane	5	0.5	NA	1.62 [1]	< 0.050	40 [2]	44 [2]	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,1-Dichloroethylene	7	0.7	NA	8.8 [2]	< 0.238	< 1.19	< 1.19	< 0.238	< 0.238	< 0.238	< 0.238	< 0.238	< 0.238	< 0.238
cis-1,2-Dichloroethene	70	7	NA	1.6 J	< 0.284	< 1.42	< 1.42	< 0.284	< 0.284	< 0.284	< 0.284	< 0.284	< 0.284	< 0.284
trans-1,2-Dichloroethene	100	20	NA	< 0.850	< 0.425	< 2.13	< 2.13	< 0.425	< 0.425	< 0.425	< 0.425	< 0.425	< 0.425	< 0.425
Methylene Chloride	5	0.5	NA	3.2 J [1]	< 0.247	4.12 U [1]	4.12 U [1]	< 0.247	< 0.247	< 0.247	< 0.247	0.3 J	0.3 J	< 0.247
1,2-Dichloropropane	5	0.5	NA	< 0.950	< 0.475	< 2.38	< 2.38	< 0.475	< 0.475	< 0.475	< 0.475	< 0.475	< 0.475	< 0.475
1,3-Dichloropropane	NL	NL	NA	< 0.478	< 0.239	< 1.20	< 1.20	< 0.239	< 0.239	< 0.239	< 0.239	< 0.239	< 0.239	< 0.239
2,2-Dichloropropane	NL	NL	NA	< 0.466	< 0.233	< 1.17	< 1.17	< 0.233	< 0.233	< 0.233	< 0.233	< 0.233	< 0.233	< 0.233
1,1-Dichloropropylene	NL	NL	NA	< 0.566	< 0.283	< 1.42	< 1.42	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283
cis-1,3-Dichloropropene	0.2	0.02	NA	< 0.250	< 0.125	< 0.625	< 0.625	< 0.125	< 0.125	< 0.125	< 0.125	< 0.125	< 0.125	< 0.125
trans-1,3-Dichloropropene	0.2	0.02	NA	< 0.888	< 0.444	< 2.22	< 2.22	< 0.444	< 0.444	< 0.444	< 0.444	< 0.444	< 0.444	< 0.444
Ethylbenezene	700	140	NA	< 0.656	< 0.328	< 1.64	< 1.64	< 0.328	< 0.328	< 0.328	< 0.328	< 0.328	< 0.328	< 0.328
Hexachlorobutadiene	NL	NL	NA	< 0.794	< 0.397	< 1.99	< 1.99	< 0.397	< 0.397	< 0.397	< 0.397	< 0.397	< 0.397	< 0.397
Isopropylbenzene	NL	NL	NA	< 0.460	< 0.230	< 1.15	< 1.15	< 0.230	< 0.230	< 0.230	< 0.230	< 0.230	< 0.230	< 0.230
4-Isopropyltoluene	NL	NL	NA	< 0.652	< 0.326	< 1.63	< 1.63	< 0.326	< 0.326	< 0.326	< 0.326	< 0.326	< 0.326	< 0.326
Methyl Ethyl Ketone	460	90	NA	< 0.672	< 0.336	13 J	12 J	< 0.336	< 0.336	< 0.336	< 0.336	< 0.336	< 0.336	0.5 J
4-Methyl-2-pentanone	NL	NL	NA	< 0.266	< 0.133	< 0.665	< 0.665	< 0.133	< 0.133	< 0.133	< 0.133	< 0.133	< 0.133	< 0.133
Naphthalene	40	8	< 10	< 0.514	< 0.257	< 1.29	< 1.29	< 0.257	< 0.257	< 0.257	< 0.257	< 0.257	< 0.257	< 0.257
n-Propylbenzene	NL	NL	NA	< 0.522	< 0.261	< 1.31	< 1.31	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261
Styrene	100	10	NA	< 0.454	< 0.227	< 1.14	< 1.14	< 0.227	< 0.227	< 0.227	< 0.227	< 0.227	< 0.227	< 0.227
1,1,1,2-Tetrachloroethane	70	7	NA	< 0.566	< 0.283	< 1.42	< 1.42	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283
1,1,2,2-Tetrachloroethane	0.2	0.02	NA	< 0.948	< 0.474	< 2.37	< 2.37	< 0.474	< 0.474	< 0.474	< 0.474	< 0.474	< 0.474	< 0.474
Tetrachloroethane	5	0.5	NA	< 0.666	< 0.333	< 1.67	< 1.67	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333
Toluene	1000	200	NA	< 0.494	< 0.247	< 1.24	< 1.24	< 0.247	< 0.247	< 0.247	< 0.247	< 0.247	< 0.247	< 0.247
1,2,4-Trichlorobenzene	70	14	NA	< 0.884	< 0.442	< 2.21	< 2.21	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442
1,1,1-Trichloroethane	200	40	5400	330 [2]	< 0.235	< 1.18	< 1.18	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235
1,1,2-Trichloroethane	5	0.5	NA	< 0.808	< 0.404	< 2.02	< 2.02	< 0.404	< 0.404	< 0.404	< 0.404	< 0.404	< 0.404	< 0.404
Trichloroethene	5	0.5	NA	< 0.638	< 0.319	< 1.60	< 1.60	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319
Trichlorofluoromethane	NL	NL	NA	< 0.844	< 0.422	< 2.11	< 2.11	< 0.422	< 0.422	< 0.422	< 0.422	< 0.422	< 0.422	< 0.422
1,2,3-Trichloropropane	60	12	NA	< 0.722	< 0.361	< 1.81	< 1.81	< 0.361	< 0.361	< 0.361	< 0.361	< 0.361	< 0.361	< 0.361
1,2,4-Trimethylbenzene	NL	NL	NA	< 0.398	< 0.199	< 0.995	< 0.995	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199
1,3,5-Trimethylbenzene	NL	NL	NA	< 0.472	< 0.236	< 1.18	< 1.18	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236
Vinyl Chloride	0.2	0.02	< 10	< 0.648	< 0.342	< 1.71	< 1.71	< 0.342	< 0.342	< 0.342	< 0.342	< 0.342	< 0.342	< 0.342
Total Xylene	10000	1000	NA	< 1.45	< 0.724	< 3.62	< 3.62	< 0.724	< 0.724	< 0.724	< 0.724	< 0.724	< 0.724	< 0.724
EDB & DBCP by EPA Method 8011 (µg/L)														
1,2-Dibromoethane	NL	NL	NA	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
1,2-Dibromo-3-chloropropane	NL	NL	NA	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:
WNDR = Wisconsin Department of Natural Resourses
VOCs =Volatile Organic Compounds
NL = Not Listed
LOD = Limits of Detection
Samples Analyzed by TriMatrix Laboratories
Grand Rapids, MI
J = Estimated concentration
B = Analyte detected in trip blank
* = Considered a laboratory contaminant in the Case Narrative section of the laboratory report.
(1) = Sample exceeds WDNR Preventative Action Limits (PAL)
(2) = Sample exceeds WDNR Enforcement Standards (ES)

Table F-1
Groundwater Analytical Results
Former Thiem Facility Oak Creek, Wisconsin, Beazer East, Inc.

Well ID	WDNR Groundwater Enforcement Standards	WDNR Preventative Action Limits	MW-101	MW-102	MW-13	MW-J4A	Trip Blank	Trip Blank	MW-103	Trip Blank
Sample Date			10-May-02	10-May-02	10-May-02	6-May-02	6-May-02	10-May-02	9-Dec-02	9-Dec-02
Aquifer Depth			Shallow	Shallow	Shallow	Shallow			Shallow	
VOCs by EPA Method 8260B (µg/L)										
Acetone	1000	200	< 0.531	< 0.531	< 0.531	< 0.531	< 0.531	6.3	2.4 B	42
Benzene	5	0.5	< 0.440	< 0.440	< 0.440	< 0.440	< 0.440	< 0.440	< 0.440	1 J
Bromobenzene	NL	NL	< 0.419	< 0.419	< 0.419	< 0.419	< 0.419	< 0.419	< 0.419	< 0.419
Bromochloromethane	0.6	0.06	< 0.299	< 0.299	< 0.299	< 0.299	< 0.299	< 0.299	< 0.299	< 0.299
Dichlorobromomethane	NL	NL	< 0.219	< 0.219	< 0.219	< 0.219	< 0.219	< 0.219	< 0.219	< 0.219
Bromoform	4.4	0.44	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261
Bromomethane	10	1	< 0.346	< 0.346	< 0.346	< 0.346	< 0.346	< 0.346	< 0.346	< 0.346
n-Butylbenzene	NL	NL	< 0.263	< 0.263	< 0.263	< 0.263	< 0.263	< 0.263	< 0.263	< 0.263
sec-Butylbenzene	NL	NL	< 0.272	< 0.272	< 0.272	< 0.272	< 0.272	< 0.272	< 0.272	< 0.272
tert-butylbenzene	NL	NL	< 0.242	< 0.242	< 0.242	< 0.242	< 0.242	< 0.242	< 0.242	< 0.242
Carbon Tetrachloride	5	0.5	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319
Chlorobenzene	NL	NL	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240
Chloroethane	400	80	< 0.251	< 0.251	< 0.251	35	< 0.251	< 0.251	< 0.251	< 0.251
Chloroform	6	0.6	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Chloromethane	3	0.3	< 0.406	< 0.406	< 0.406	< 0.406	< 0.406	< 0.406	< 0.406	< 0.406
2-Chlorotoluene	NL	NL	< 0.285	< 0.285	< 0.285	< 0.285	< 0.285	< 0.285	< 0.285	< 0.285
4-Chlorotoluene	NL	NL	< 0.243	< 0.243	< 0.243	< 0.243	< 0.243	< 0.243	< 0.243	< 0.243
Chlorodibromomethane	NL	NL	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289
Dibromomethane	NL	NL	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688
1,2-Dichlorobenzene	600	60	< 0.455	< 0.455	< 0.455	< 0.455	< 0.455	< 0.455	< 0.455	< 0.455
1,3-Dichlorobenzene	1250	125	< 0.453	< 0.453	< 0.453	< 0.453	< 0.453	< 0.453	< 0.453	< 0.453
1,4-Dichlorobenzene	75	15	< 0.584	< 0.584	< 0.584	< 0.584	< 0.584	< 0.584	< 0.584	< 0.584
Dichlorodifluoromethane	1000	200	< 0.348	< 0.348	< 0.348	< 0.348	< 0.348	< 0.348	< 0.348	< 0.348
1,1-Dichloroethane	850	85	< 0.238	< 0.238	< 0.238	11	< 0.238	< 0.238	3.9	< 0.238
1,2-Dichloroethane	5	0.5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1,1-Dichloroethylene	7	0.7	< 0.238	< 0.238	< 0.238	< 0.238	< 0.238	< 0.238	< 0.238	< 0.238
cis-1,2-Dichloroethene	70	7	< 0.284	< 0.284	< 0.284	< 0.284	< 0.284	< 0.284	< 0.284	< 0.284
trans-1,2-Dichloroethene	100	20	< 0.425	< 0.425	< 0.425	< 0.425	< 0.425	< 0.425	< 0.425	< 0.425
Methylene Chloride	5	0.5	< 0.247	< 0.247	< 0.247	< 0.247	< 0.247	< 0.247	0.4	560*
1,2-Dichloropropane	5	0.5	< 0.475	< 0.475	< 0.475	< 0.475	< 0.475	< 0.475	< 0.475	< 0.475
1,3-Dichloropropane	NL	NL	< 0.239	< 0.239	< 0.239	< 0.239	< 0.239	< 0.239	< 0.239	< 0.239
2,2-Dichloropropane	NL	NL	< 0.233	< 0.233	< 0.233	< 0.233	< 0.233	< 0.233	< 0.233	< 0.233
1,1-Dichloropropylene	NL	NL	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283
cis-1,3-Dichloropropene	0.2	0.02	< 0.125	< 0.125	< 0.125	< 0.125	< 0.125	< 0.125	< 0.125	< 0.125
trans-1,3-Dichloropropene	0.2	0.02	< 0.444	< 0.444	< 0.444	< 0.444	< 0.444	< 0.444	< 0.444	< 0.444
Ethylbenezene	700	140	< 0.328	< 0.328	< 0.328	5.5	< 0.328	< 0.328	< 0.328	< 0.328
Hexachlorobutadiene	NL	NL	< 0.397	< 0.397	< 0.397	< 0.397	< 0.397	< 0.397	< 0.397	< 0.397
Isopropylbenzene	NL	NL	< 0.230	< 0.230	< 0.230	0.9	< 0.230	< 0.230	< 0.230	< 0.230
4-Isopropyltoluene	NL	NL	< 0.326	< 0.326	< 0.326	< 0.326	< 0.326	< 0.326	< 0.326	< 0.326
Methyl Ethyl Ketone	460	90	< 0.336	< 0.336	< 0.336	< 0.336	< 0.336	< 0.336	< 0.336	< 0.336
4-Methyl-2-pentanone	NL	NL	< 0.133	< 0.133	< 0.133	< 0.133	< 0.133	< 0.133	< 0.133	< 0.133
Naphthalene	40	8	< 0.257	< 0.257	< 0.257	< 0.257	< 0.257	< 0.257	< 0.257	< 0.257
n-Propylbenzene	NL	NL	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261	< 0.261
Styrene	100	10	< 0.227	< 0.227	< 0.227	< 0.227	< 0.227	< 0.227	< 0.227	< 0.227
1,1,1,2-Tetrachloroethane	70	7	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283	< 0.283
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.474	< 0.474	< 0.474	< 0.474	< 0.474	< 0.474	< 0.474	< 0.474
Tetrachloroethane	5	0.5	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333
Toluene	1000	200	< 0.247	< 0.247	< 0.247	2.1	< 0.247	< 0.247	< 0.247	< 0.247
1,2,4-Trichlorobenzene	70	14	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442
1,1,1-Trichloroethane	200	40	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235	< 0.235
1,1,2-Trichloroethane	5	0.5	< 0.404	< 0.404	< 0.404	< 0.404	< 0.404	< 0.404	< 0.404	< 0.404
Trichloroethene	5	0.5	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319	< 0.319
Trichlorofluoromethane	NL	NL	< 0.422	< 0.422	< 0.422	< 0.422	< 0.422	< 0.422	< 0.422	< 0.422
1,2,3-Trichloropropane	60	12	< 0.361	< 0.361	< 0.361	< 0.361	< 0.361	< 0.361	< 0.361	< 0.361
1,2,4-Trimethylbenzene	NL	NL	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199
1,3,5-Trimethylbenzene	NL	NL	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236
Vinyl Chloride	0.2	0.02	< 0.342	< 0.342	< 0.342	< 0.342	< 0.342	< 0.342	< 0.342	< 0.342
Total Xylene	10000	1000	< 0.724	< 0.724	< 0.724	18	< 0.724	< 0.724	< 0.724	< 0.724
EDB & DBCP by EPA Method 8011 (µg/L)										
1,2-Dibromoethane	NL	NL	< 0.004	0.034	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
1,2-Dibromo-3-chloropropane	NL	NL	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Notes:
WNDR = Wisconsin Department of Natural Resourses
VOCs =Volatile Organic Compounds
NL = Not Listed
LOD = Limits of Detection
Samples Analyzed by TriMatrix Laboratories
Grand Rapids, MI
J = Estimated concentration
B = Analyte detected in trip blank
* = Considered a laboratory contaminant in the Case Narrative section of the laboratory report.
(1) = Sample exceeds WDNR Preventative Action Limits (PAL)
(2) = Sample exceeds WDNR Enforcement Standards (ES)

Table D-1
Soil Analytical Results
Former Theim Facility, Oak Creek, Wisconsin, Beazer East, Inc.

Sample ID	Generic RCL	B-1	B-2	B-2	B-3	B-4	B-5	B-5	B-6	B-6	B-7	B-8	B-8	B-9	B-9	B-10	B-11	B-11	B-12	B-12
Sample Depth (feet bgs)		15-16.5	2.5-4	7.5-9	5-6.5	7.5-9	5-6.5	10-11.5	7.5-9	12.5-14	5-6.6	5-6.5	10-11.5	7.5-9	12.5-14	2.5-4	0-1.5	5-6.5	5-6.5	10-11.5
Date Collected		Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Nov-84	Jan-85	Jan-85	Jan-85	Jan-85
1,1,1-Trichloroethane	1,200	0.28	< 0.10	< 0.10	< 0.10	0.11	< 0.01	1.10	0.38	0.91	0.15	0.26	0.19	0.11	0.10	< 0.10	0.12	< 0.10	< 0.10	0.19
Methylene Chloride	9.10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
IsoPropanol	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Isopropyl Alcohol	NA	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	61.00	< 4.00	19.00	210.00	< 4.00	371.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
VM&P Naphtha	NA	< 0.10	< 0.10	< 0.10	0.98	< 0.10	10.45	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	< 0.01	0.11	< 0.10	< 0.10	< 0.10	13.76	< 0.10
Benzene	0.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butyl Acetate	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethane	510	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethylene	0.053	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Benzene	8.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	270	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acetone	1,600	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	6.80	< 1.00	31.00	47.00	< 1.00	120.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Methyl Ethyl Ketone	7,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Isobutyl Ketone	790	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Ethaxyethanol	24,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

(1) Exceeds the Generic RCL
Based on soil excavation activities completed in 1985, soil results from 1984 and 1985 are considered pre-remedial samples
Exceedences of RCLs for pre-remedial samples are not noted
All results in mg/kg
Not available
--- = No data available
bgs = below ground surface
Generic Residual Contaminant Level (RCL) = EPA Region 9 Preliminary Remediation Goal for Residential Property Use.

Table D-1
Soil Analytical Results
Former Theim Facility, Oak Creek, Wisconsin, Beazer East, Inc.

Sample ID	Generic RCL	B-13	B-14	B-15	B-16	B-16	B-17	B-18	B-18	B-19	B-19	B-20	B-21	J-1	J-1	J-1	J-1A	J-1A	J-1A	J-2
Sample Depth (feet bgs)		5-6.5	2.5-4	7.5-9	12.5-14	15-16.5	17.5-19	5-6.5	10-11.5	5-6.5	10-11.5	2.5-4	2.5-4	8.5-10	13.5-15	46-47.5	6-7.5	11-12.5	43.3-45	NA
Date Collected		Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Jan-85	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89
1,1,1-Trichloroethane	1,200	< 0.10	< 0.10	1.80	2.39	< 0.10	0.49	0.23	0.27	< 0.10	< 0.10	< 0.10	< 0.10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methylene Chloride	9.10	---	---	---	---	---	---	---	---	---	---	---	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
IsoPropanol	NA	---	---	---	---	---	---	---	---	---	---	---	---	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropyl Alcohol	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VM&P Naphtha	NA	< 4.00	< 4.00	7.10	160.00	< 4.00	< 4.00	33.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Benzene	0.60	< 0.10	< 0.10	< 0.10	1.19	< 0.20	< 0.10	< 0.10	< 0.10	3.30	< 0.10	< 0.20	< 0.20	---	---	---	---	---	---	---
Butyl Acetate	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethane	510	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethylene	0.053	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Benzene	8.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	270	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acetone	1,600	< 1.00	< 1.00	20.00	15.00	< 1.00	2.70	44.00	< 1.00	< 1.00	13.00	< 1.00	23.00	---	---	---	---	---	---	---
Methyl Ethyl Ketone	7,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Isobutyl Ketone	790	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Ethaxyethanol	24,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

(1) Exceeds the Generic RCL
Based on soil excavation activities completed in 1985, soil results from 1984 and 1985 are considered pre-remedial samples
Exceedences of RCLs for pre-remedial samples are not noted
All results in mg/kg
Not available
--- = No data available
bgs = below ground surface
Generic Residual Contaminant Level (RCL) = EPA Region 9 Preliminary Remediation Goal for Residential Property Use.

Table D-1
Soil Analytical Results
Former Theim Facility, Oak Creek, Wisconsin, Beazer East, Inc.

Sample ID	Generic RCL	J-2A	J2-A	J2-A	J-3	J-3	J-3	J-3A	J-3A	J-3A	J4-a	J4-a	J4-d	J4-d	B-7	B-7	B-7	B-8	B-8	B-8
Sample Depth (feet bgs)		8.5-10	13.5-15	18.5-20	16-17	21-22	23.5-25	1-2	13.5-15	18.5-20	1-2	18.5-20	28.5-32	43.5-45	1-2	6-7	16-17.5	6-7	11-12	16-17.5
Date Collected		Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89
1,1,1-Trichloroethane	1,200	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	2.90	< 0.01	< 0.01	< 6.00	< 5.00	< 5.00	< 5.00	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methylene Chloride	9.10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	8.20	< 0.01	< 0.01	< 30.00	25 [1]	25 [1]	25 [1]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
IsoPropanol	NA	---	---	---	---	---	---	0.01	< 0.01	< 0.01	< 20.00	< 20.00	< 20.00	< 20.00	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropyl Alcohol	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VM&P Naphtha	NA	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	---	< 4.00	< 4.00	---	< 100.00	< 400.00	< 100.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00
Benzene	0.60	---	---	---	< 0.01	---	---	1.6 [1]	---	---	< 6.00	< 5.00	< 5.00	< 5.00	---	---	---	---	---	---
Butyl Acetate	NA	---	---	---	< 0.01	---	---	2.70	---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethane	510	---	---	---	< 0.01	---	---	< 0.01	---	---	< 6.00	< 5.00	< 5.00	< 5.00	---	---	---	---	---	---
Trichloroethylene	0.053	---	---	---	< 0.01	---	---	22 [1]	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Benzene	8.90	---	---	---	< 0.01	---	---	2.10	---	---	93 [1]	< 5.00	< 5.00	< 5.00	---	---	---	---	---	---
Toluene	520	---	---	---	< 0.01	---	---	0.29	---	---	115.00	< 5.00	< 5.00	< 5.00	---	---	---	---	---	---
Xylenes	270	---	---	---	< 0.01	---	---	< 0.01	---	---	410 [1]	< 5.00	< 5.00	< 5.00	---	---	---	---	---	---
Acetone	1,600	---	---	---	< 0.01	---	---	0.16	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Ethyl Ketone	7,300	---	---	---	< 0.01	---	---	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Isobutyl Ketone	790	---	---	---	< 0.01	---	---	0.70	---	---	---	---	---	---	---	---	---	---	---	---
2-Ethaxyethanol	24,000	---	---	---	< 0.01	---	---	2.50	---	---	---	---	---	---	---	---	---	---	---	---

(1) Exceeds the Generic RCL

Based on soil excavation activities completed in 1985, soil results from 1984 and 1985 are considered pre-remedial samples

Exceedences of RCLs for pre-remedial samples are not noted

All results in mg/kg

Not available

--- = No data available

bgs = below ground surface

Generic Residual Contaminant Level (RCL) = EPA Region 9 Preliminary Remediation Goal for Residential Property Use.

Table D-1
Soil Analytical Results
Former Theim Facility, Oak Creek, Wisconsin, Beazer East, Inc.

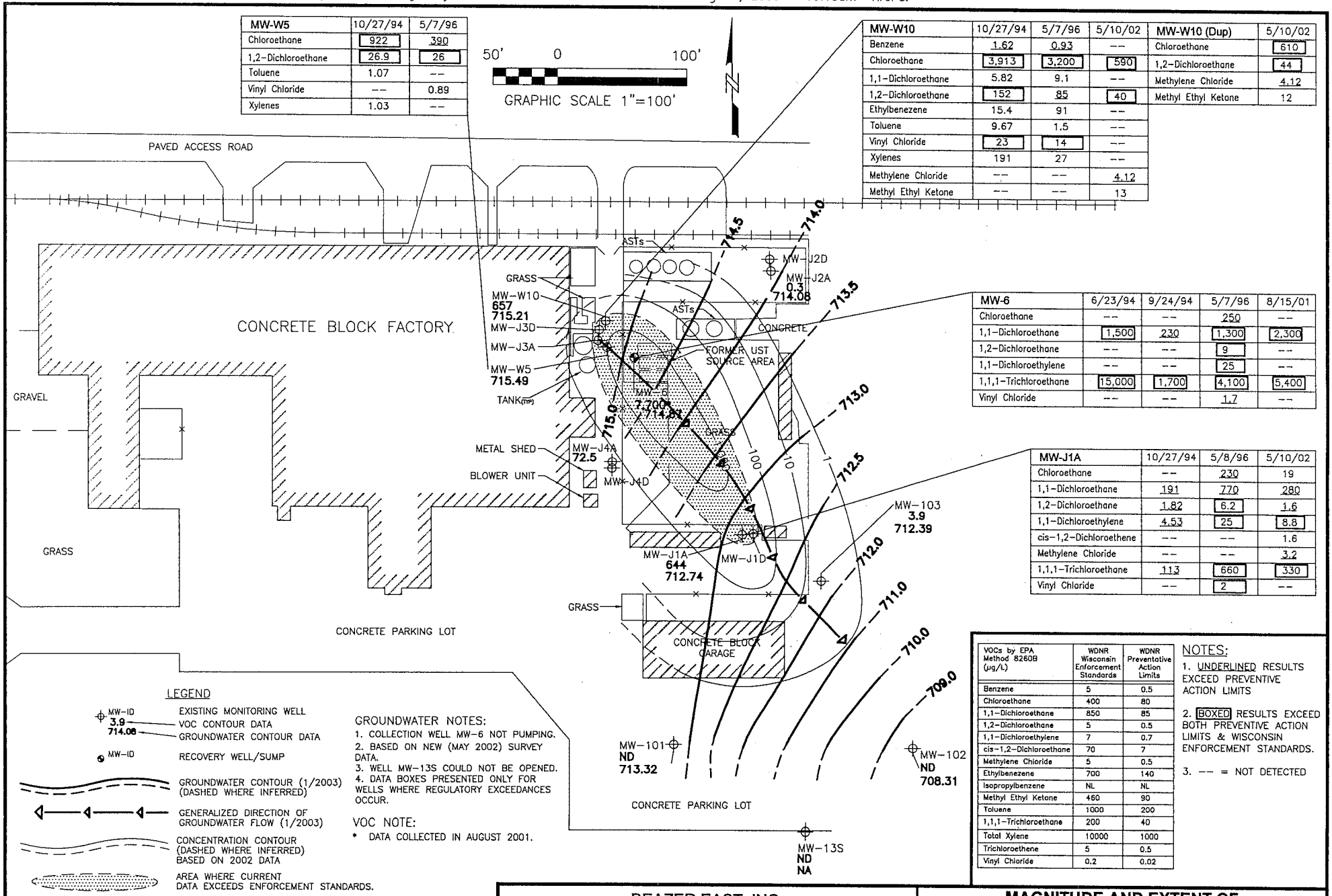
Sample ID	Generic RCL	B-9	B-9	B-9	B-10	B-10	B-10	B-10	B-11	B-11	B-11	B-12	B-12	B-12	B-13	B-14	B-14	B-15	B-15
Sample Depth (feet bgs)		6-7	11-12	16-17.5	1-2	6-7.5	8.5-10	18.5-20	6-7	13.5-15	18.5-20	3.5-5	8.5-10	13.5-15	1-2	6-7	13.5-15	1-2	8.5-10
Date Collected		Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89
1,1,1-Trichloroethane	1,200	3.10	16.00	< 0.01	3.40	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.28	< 0.01	< 0.01	< 0.01	< 1.00	< 0.01	< 0.01	< 0.01
Methylene Chloride	9.10	2.80	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 5.00	< 0.01	< 0.01	< 0.01
IsoPropanol	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 20.00	< 20.00	< 20.00	< 20.00
Isopropyl Alcohol	NA	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VM&P Naphtha	NA	60.00	350.00	< 4.00	34.00	140.00	10.00	25.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	175.00	< 0.50	1.40	5.80
Benzene	0.60	---	< 0.01	---	---	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---	---
Butyl Acetate	NA	---	< 0.01	---	---	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethane	510	---	< 0.02	---	---	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethylene	0.053	---	< 0.01	---	---	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Benzene	8.90	---	1.00	---	---	0.88	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	520	---	0.50	---	---	0.08	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	270	---	4.70	---	---	4.00	---	---	---	---	---	---	---	---	---	---	---	---	---
Acetone	1,600	---	< 0.01	---	---	0.09	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Ethyl Ketone	7,300	---	< 0.01	---	---	0.02	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl isobutyl Ketone	790	---	< 0.01	---	---	0.02	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Ethaxyethanol	24,000	---	< 0.01	---	---	< 0.01	---	---	---	---	---	---	---	---	---	---	---	---	---

(1) Exceeds the Generic RCL
Based on soil excavation activities completed in 1985, soil results from 1984 and 1985 are considered pre-remedial samples
Exceedences of RCLs for pre-remedial samples are not noted
All results in mg/kg
Not available
--- = No data available
bgs = below ground surface
Generic Residual Contaminant Level (RCL) = EPA Region 9 Preliminary Remediation Goal for Residential Property Use.

Table D-1
Soil Analytical Results
Former Theim Facility, Oak Creek, Wisconsin, Beazer East, Inc.

Sample ID	Generic RCL	B-15	B-16	B-16	B-17	B-17	B-18	B-18	B-19	B-19	B-20	B-20	B-21	B-21	B-22	B-22	B-23	B-23	B-24
Sample Depth (feet bgs)		16-17	3-5	18.5-20	3.5-5	6-7	11-12	16-17	6-7	11-12	3.5-5	6-7	6-7	8.5-10	6-7	16-17.5	3.5-5	6-7	6-7
Date Collected		Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89	Aug-89
1,1,1-Trichloroethane	1,200	< 0.01	< 1.00	< 0.01	< 0.01	< 0.123	< 0.01	< 0.01	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methylene Chloride	9.10	0.06	< 5.00	< 0.01	< 0.01	< 0.01	0.11	0.23	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.53	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
IsoPropanol	NA	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00	< 20.00
Isopropyl Alcohol	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VM&P Naphtha	NA	< 0.50	83.00	< 0.10	39.00	360.00	< 0.10	< 0.10	69.20	154.00	35.80	228.00	39.20	73.00	290.00	11.00	66.00	72.00	34.00
Benzene	0.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Butyl Acetate	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,1-Dichloroethane	510	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethylene	0.053	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ethyl Benzene	8.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	520	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Xylenes	270	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Acetone	1,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Ethyl Ketone	7,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl Isobutyl Ketone	790	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-Ethaxyethanol	24,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816SD04.dwg Layout: PC-DATA User: rwarren Plotted: Aug 06, 2003 - 10:18am Xref's:



MW-W5	10/27/94	5/7/96
Chloroethane	922	390
1,2-Dichloroethane	26.9	26
Toluene	1.07	--
Vinyl Chloride	--	0.89
Xylenes	1.03	--

MW-W10	10/27/94	5/7/96	5/10/02
Benzene	1.62	0.93	--
Chloroethane	3,913	3,200	590
1,1-Dichloroethane	5.82	9.1	--
1,2-Dichloroethane	152	85	40
Ethylbenezene	15.4	91	--
Toluene	9.67	1.5	--
Vinyl Chloride	23	14	--
Xylenes	191	27	--
Methylene Chloride	--	--	4.12
Methyl Ethyl Ketone	--	--	13

MW-W10 (Dup)	5/10/02
Chloroethane	610
1,2-Dichloroethane	44
Methylene Chloride	4.12
Methyl Ethyl Ketone	12

MW-6	6/23/94	9/24/94	5/7/96	8/15/01
Chloroethane	--	--	250	--
1,1-Dichloroethane	1,500	230	1,300	2,300
1,2-Dichloroethane	--	--	9	--
1,1-Dichloroethylene	--	--	25	--
1,1,1-Trichloroethane	15,000	1,700	4,100	5,400
Vinyl Chloride	--	--	1.7	--

MW-J1A	10/27/94	5/8/96	5/10/02
Chloroethane	--	230	19
1,1-Dichloroethane	191	770	280
1,2-Dichloroethane	1.82	6.2	1.6
1,1-Dichloroethylene	4.53	25	8.8
cis-1,2-Dichloroethene	--	--	1.6
Methylene Chloride	--	--	3.2
1,1,1-Trichloroethane	113	660	330
Vinyl Chloride	--	2	--

VOCs by EPA Method 8260B (µg/L)	WDNR Wisconsin Enforcement Standards	WDNR Preventative Action Limits
Benzene	5	0.5
Chloroethane	400	80
1,1-Dichloroethane	850	85
1,2-Dichloroethane	5	0.5
1,1-Dichloroethylene	7	0.7
cis-1,2-Dichloroethane	70	7
Methylene Chloride	5	0.5
Ethylbenezene	700	140
Isopropylbenzene	NL	NL
Methyl Ethyl Ketone	460	90
Toluene	1000	200
1,1,1-Trichloroethane	200	40
Total Xylene	10000	1000
Trichloroethene	5	0.5
Vinyl Chloride	0.2	0.02

NOTES:

1. UNDERLINED RESULTS EXCEED PREVENTIVE ACTION LIMITS
2. BOXED RESULTS EXCEED BOTH PREVENTIVE ACTION LIMITS & WISCONSIN ENFORCEMENT STANDARDS.
3. -- = NOT DETECTED

LEGEND

- MW-ID — EXISTING MONITORING WELL
- 3.9 — VOC CONTOUR DATA
- 714.08 — GROUNDWATER CONTOUR DATA
- MW-ID — RECOVERY WELL/SUMP
- GROUNDWATER CONTOUR (1/2003) (DASHED WHERE INFERRED)
- GENERALIZED DIRECTION OF GROUNDWATER FLOW (1/2003)
- CONCENTRATION CONTOUR (DASHED WHERE INFERRED) BASED ON 2002 DATA
- AREA WHERE CURRENT DATA EXCEEDS ENFORCEMENT STANDARDS.

GROUNDWATER NOTES:

1. COLLECTION WELL MW-6 NOT PUMPING.
2. BASED ON NEW (MAY 2002) SURVEY DATA.
3. WELL MW-13S COULD NOT BE OPENED.
4. DATA BOXES PRESENTED ONLY FOR WELLS WHERE REGULATORY EXCEEDANCES OCCUR.

VOC NOTE:

* DATA COLLECTED IN AUGUST 2001.

RETEC

BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/05/03 | DRWN: RCW/CON

MAGNITUDE AND EXTENT OF GROUNDWATER IMPACTS

OAK CREEK, WISCONSIN

FIGURE B.7-1

Table B.8-1
Chronological Summary of Groundwater Elevations - Former Thiem Facility
Beazer East, Inc. Oak Creek, Wisconsin

Gauging Date>					5-Mar-02		6-May-02		9-Dec-02		3-Jan-03	
Well	Ground Elevation	TOC Elevation*	TOC Elevation^	Bottom Elevation	DTW (feet)	Groundwater Elevation*	DTW (feet)	Groundwater Elevation^	DTW (feet)	Groundwater Elevation^	DTW (feet)	Groundwater Elevation^
Shallow Wells												
MW-W10	718.12	718.05	717.94	704.01	2.05	716.00	1.51	716.43	2.81	715.13	2.73	715.21
MWJ-3A	718.33	- - -	717.77	694.20	- - -	- - -	13.67	704.10	12.92	704.85	12.98	704.79
MW-W5	718.36	- - -	718.11	702.94	- - -	- - -	1.51	716.60	2.70	715.41	2.62	715.49
MWJ-4A	719.43	- - -	719.22	695.78	- - -	- - -	8.95	710.27	8.79	710.43	6.11	713.11
MWJ-2A	718.87	721.32	721.24	699.51	6.33	714.99	5.42	715.82	7.57	713.67	7.16	714.08
MWJ-1A	719.61	721.33	721.17	699.24	7.97	713.36	7.66	713.51	8.40	712.77	8.43	712.74
MW-W6	719.70	- - -	718.45	708.82	- - -	- - -	2.80	715.65	3.64	714.81	3.58	714.87
MW-13	717.81	- - -	720.20	NA	- - -	- - -	4.63	715.57	- - -	- - -	NA	NA
MW-101	718.60	- - -	718.36	704.28	- - -	- - -	1.57	716.79	4.96	713.40	5.04	713.32
MW-102	718.71	- - -	718.32	698.47	- - -	- - -	12.61	705.71	9.75	708.57	10.01	708.31
MW-103	719.51	- - -	719.08	696.37	- - -	- - -	- - -	- - -	6.65	712.43	6.69	712.39
Deep Wells												
MWJ-1D	719.32	721.39	721.31	672.70	19.32	702.07	18.96	702.35	21.26	700.05	21.27	700.04
MWJ-2D	717.95	720.08	720.00	667.42	18.01	702.07	17.65	702.35	19.94	700.06	19.95	700.05
MWJ-3D	718.29	718.04	717.97	667.41	15.99	702.05	15.62	702.35	17.92	700.05	17.92	700.05
MWJ-4D	719.47	719.37	719.29	669.27	17.31	702.06	16.96	702.33	19.24	700.05	19.27	700.02
MW-13D	718.28	- - -	720.34	688.07	- - -	- - -	10.14	710.20	12.18	708.16	12.44	707.90

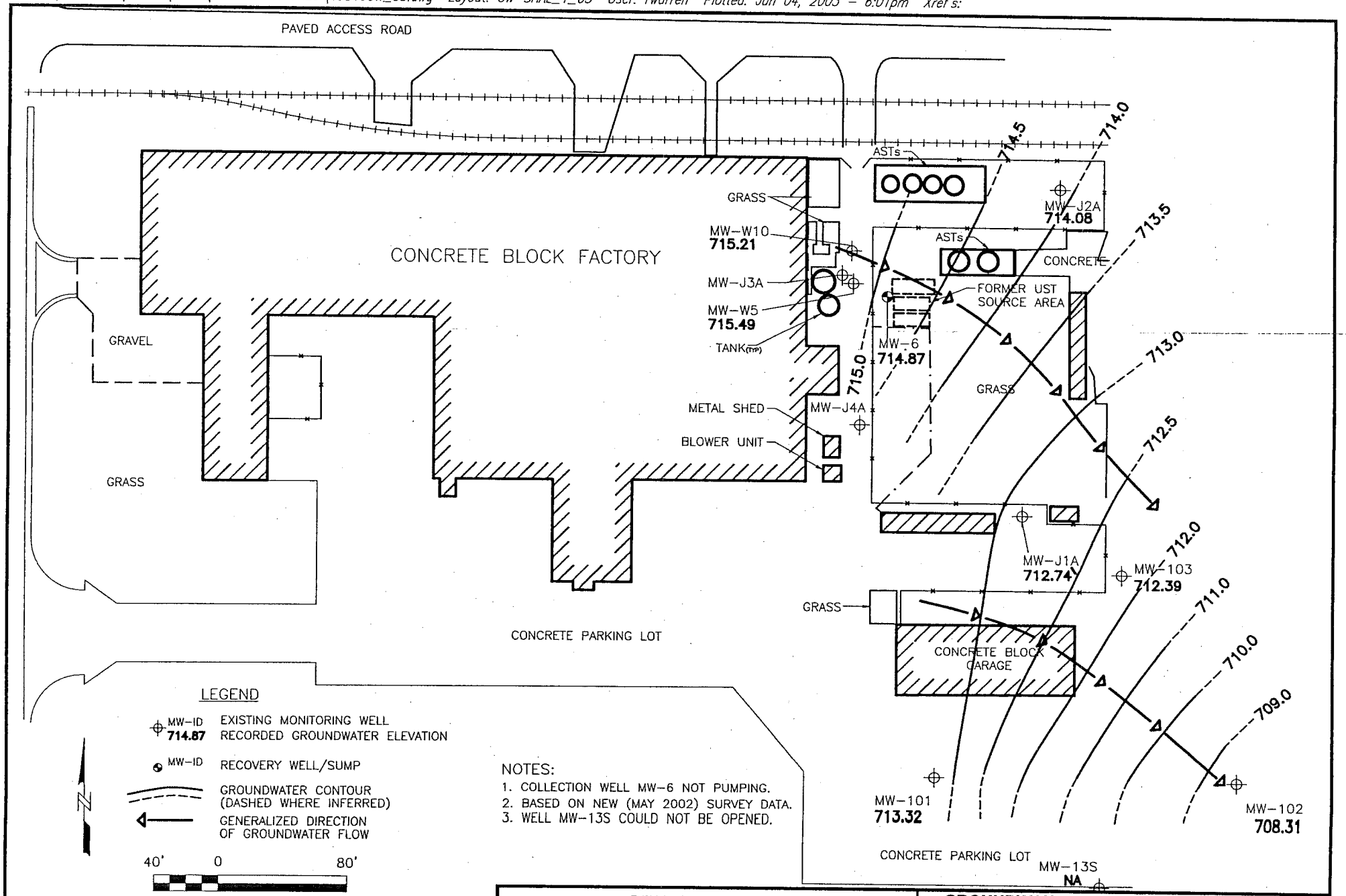
Note:
* = TOC elevation based on data reported in Graef et al Report, December 1994.
^ = TOC elevation based on new survey performed by LIS on May 6, 2002 and on December 9, 2002 (for new well MW-103).
TOC - Top of Casing
DTW - Depth to Water
- - - = Not available/not applicable.

Table B.8-2
Summary of Vertical Groundwater Gradients
Former Thiem Facility Oak Creek, Wisconsin, Beazer East, Inc.

Well Pair	Date	Groundwater Elevation Difference (ft)	Distance Between Screen Midpoints (ft)	Vertical Gradient (ft/ft)	Direction
MW-J1A/D	4-Mar-02	11.29	22.25	0.51	Down
MWJ-2A/D	4-Mar-02	12.92	28.63	0.45	Down
MW-J1A/D	6-May-02	11.16	22.25	0.50	Down
MWJ-2A/D	6-May-02	13.47	28.63	0.47	Down
MW-J3A/D	6-May-02	1.75	24.83	0.07	Down
MWJ-4A/D	6-May-02	7.94	21.25	0.37	Down
MW-J1A/D	9-Dec-02	12.72	22.25	0.57	Down
MWJ-2A/D	9-Dec-02	13.61	28.63	0.48	Down
MW-J3A/D	9-Dec-02	4.80	24.83	0.19	Down
MWJ-4A/D	9-Dec-02	10.38	21.25	0.49	Down
MW-J1A/D	3-Jan-03	12.70	22.25	0.57	Down
MWJ-2A/D	3-Jan-03	14.03	28.63	0.49	Down
MW-J3A/D	3-Jan-03	4.54	24.83	0.18	Down
MWJ-4A/D	3-Jan-03	13.09	21.25	0.62	Down

Note: Direction refers to direction of groundwater gradient. Down means gradient is from shallow zone to deep zone.

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816GW_03.dwg Layout: GW-SHAL_1_03 User: rwarren Plotted: Jun 04, 2003 - 6:01pm Xref's:



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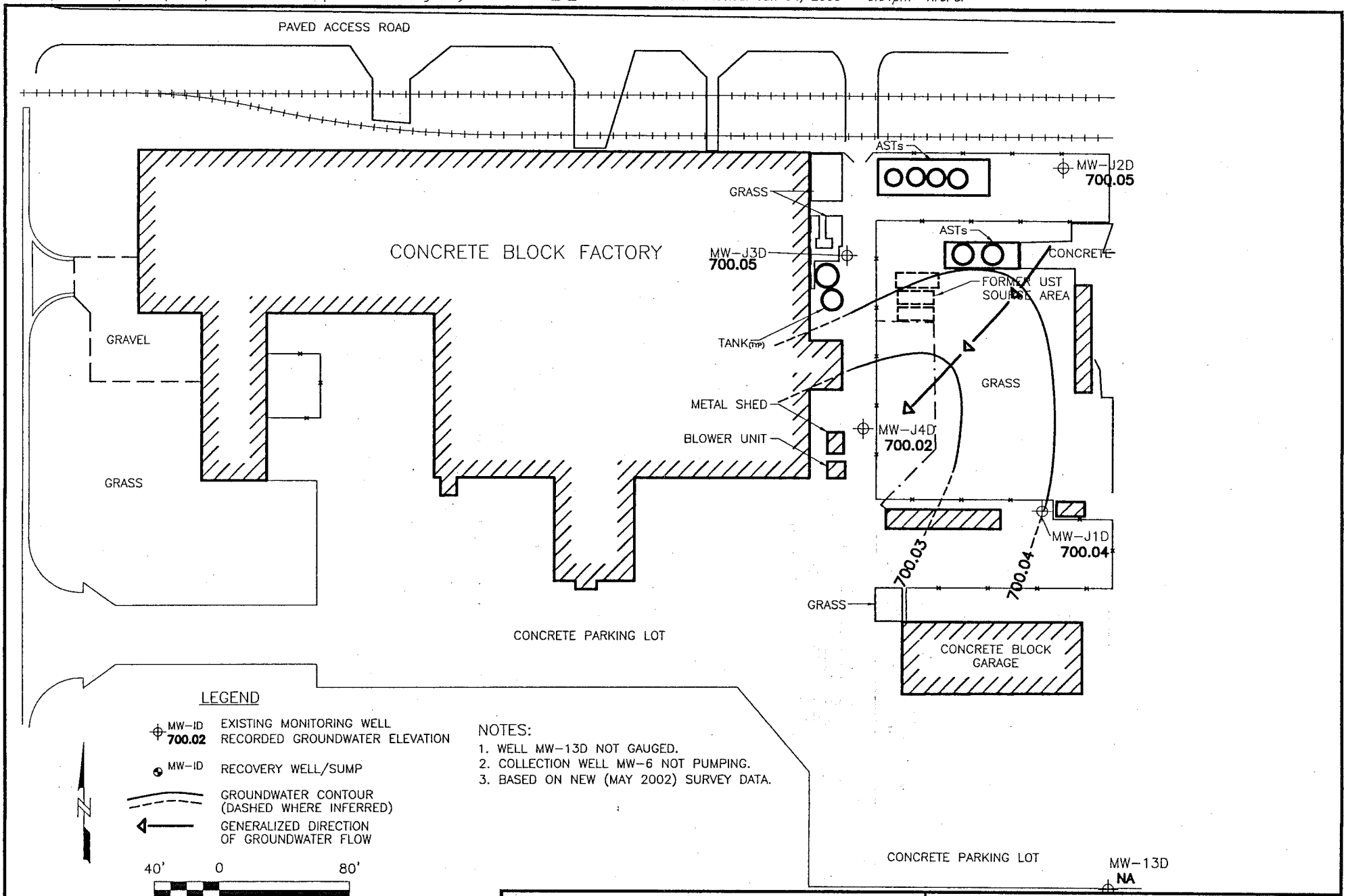
BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW WELLS
JANUARY 3, 2003
OAK CREEK, WISCONSIN

FIGURE B.9-1

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816GW_03.dwg Layout: GW-DEEP_1_03 User: rwarren Plotted: Jun 04, 2003 - 6:01pm Xref's:



LEGEND

MW-ID 700.02 EXISTING MONITORING WELL RECORDED GROUNDWATER ELEVATION

MW-ID RECOVERY WELL/SUMP

GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

GENERALIZED DIRECTION OF GROUNDWATER FLOW

40' 0 80'

GRAPHIC SCALE

NOTES:
1. WELL MW-13D NOT GAUGED.
2. COLLECTION WELL MW-6 NOT PUMPING.
3. BASED ON NEW (MAY 2002) SURVEY DATA.

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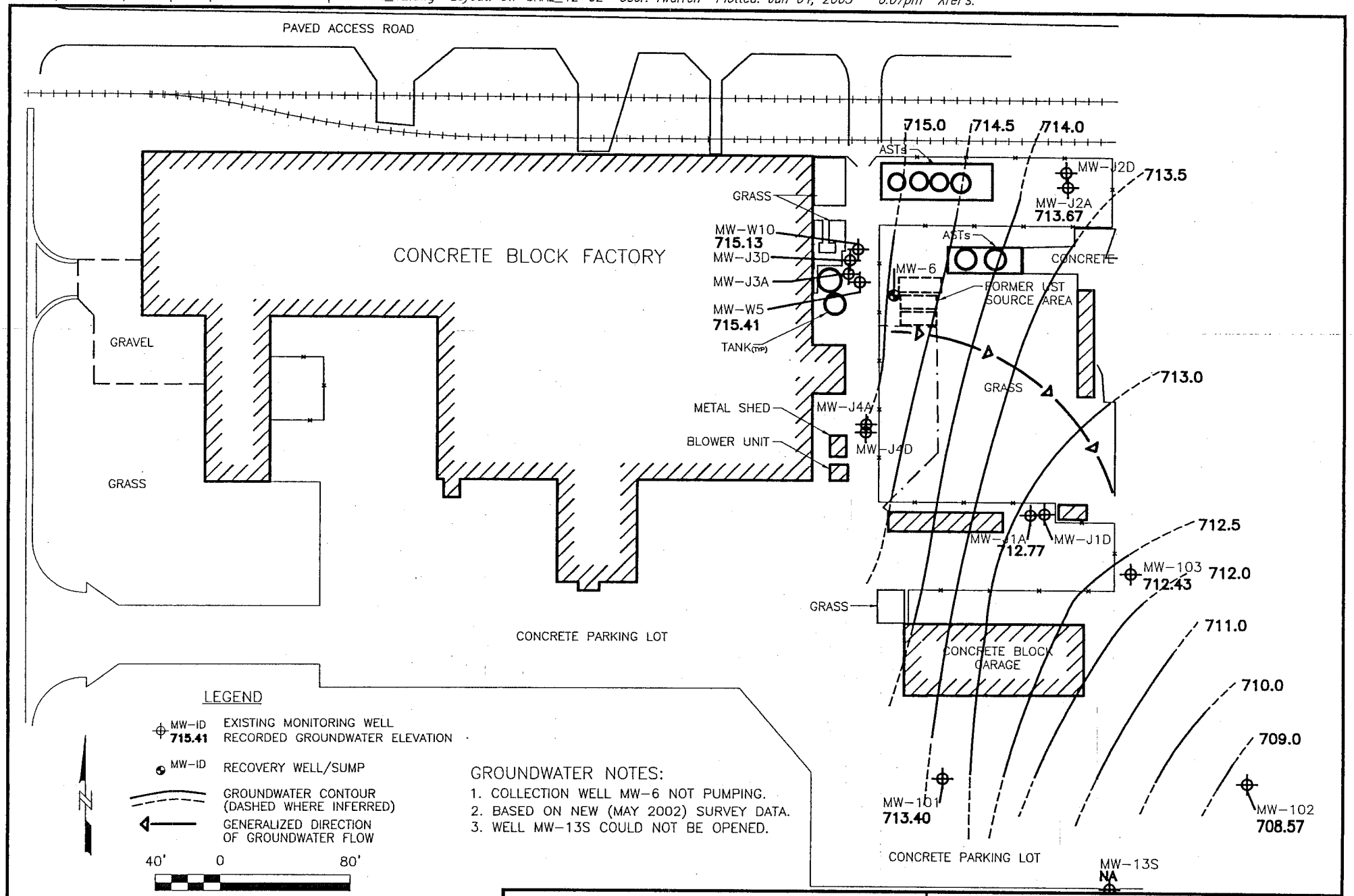
BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

GROUNDWATER ELEVATION CONTOUR MAP
DEEP WELLS
JANUARY 3, 2003
OAK CREEK, WISCONSIN

FIGURE B.9-2

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816GW_02.dwg Layout: GW-SHAL_12-02 User: rwarren Plotted: Jun 04, 2003 - 6:07pm Xref's:



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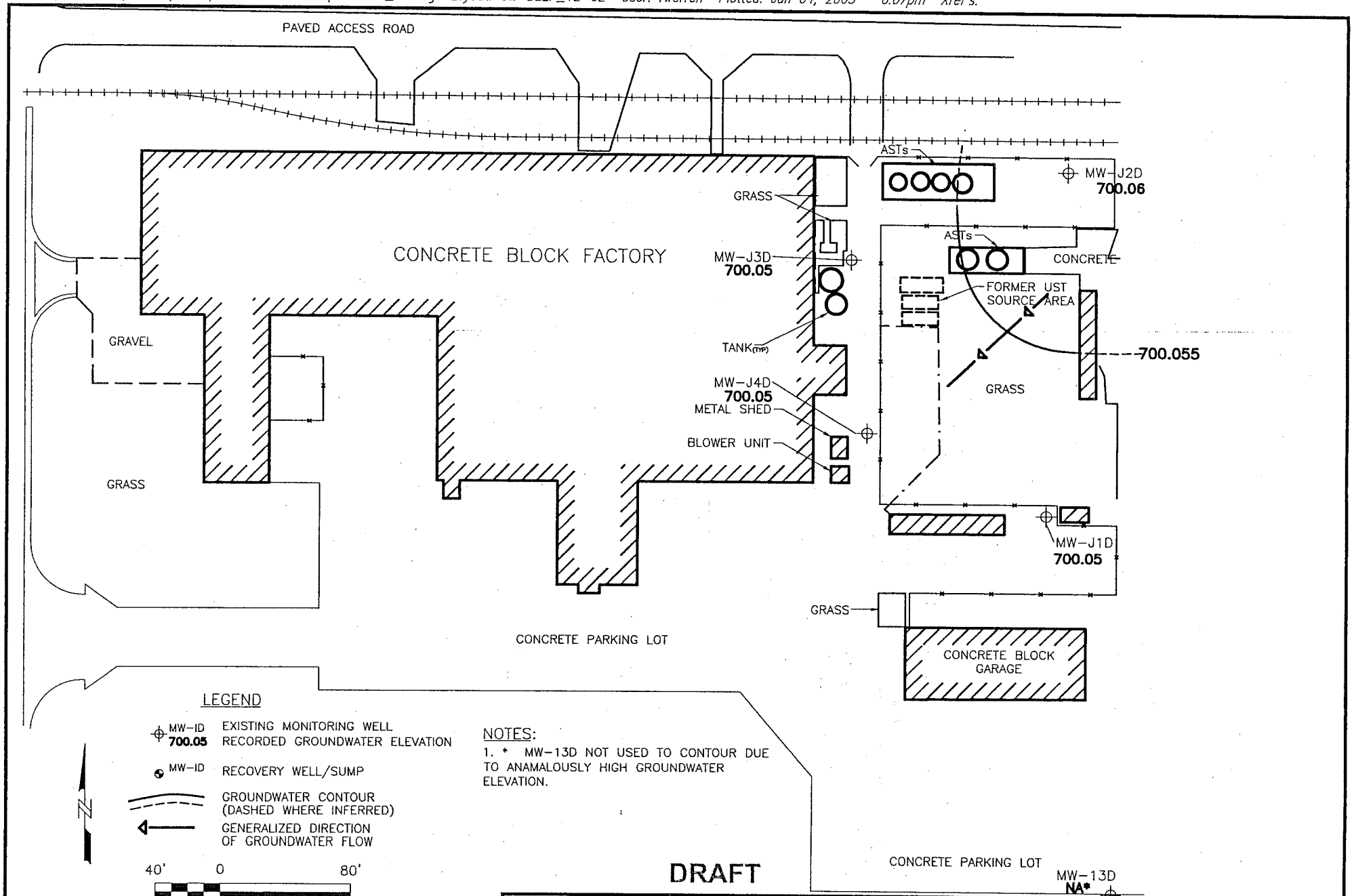
BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW WELLS
DECEMBER 9, 2002
OAK CREEK, WISCONSIN

FIGURE B.9-3

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816GW_02.dwg Layout: GW-DEEP_12-02 User: rwarren Plotted: Jun 04, 2003 - 6:07pm Xref's:



RETEC

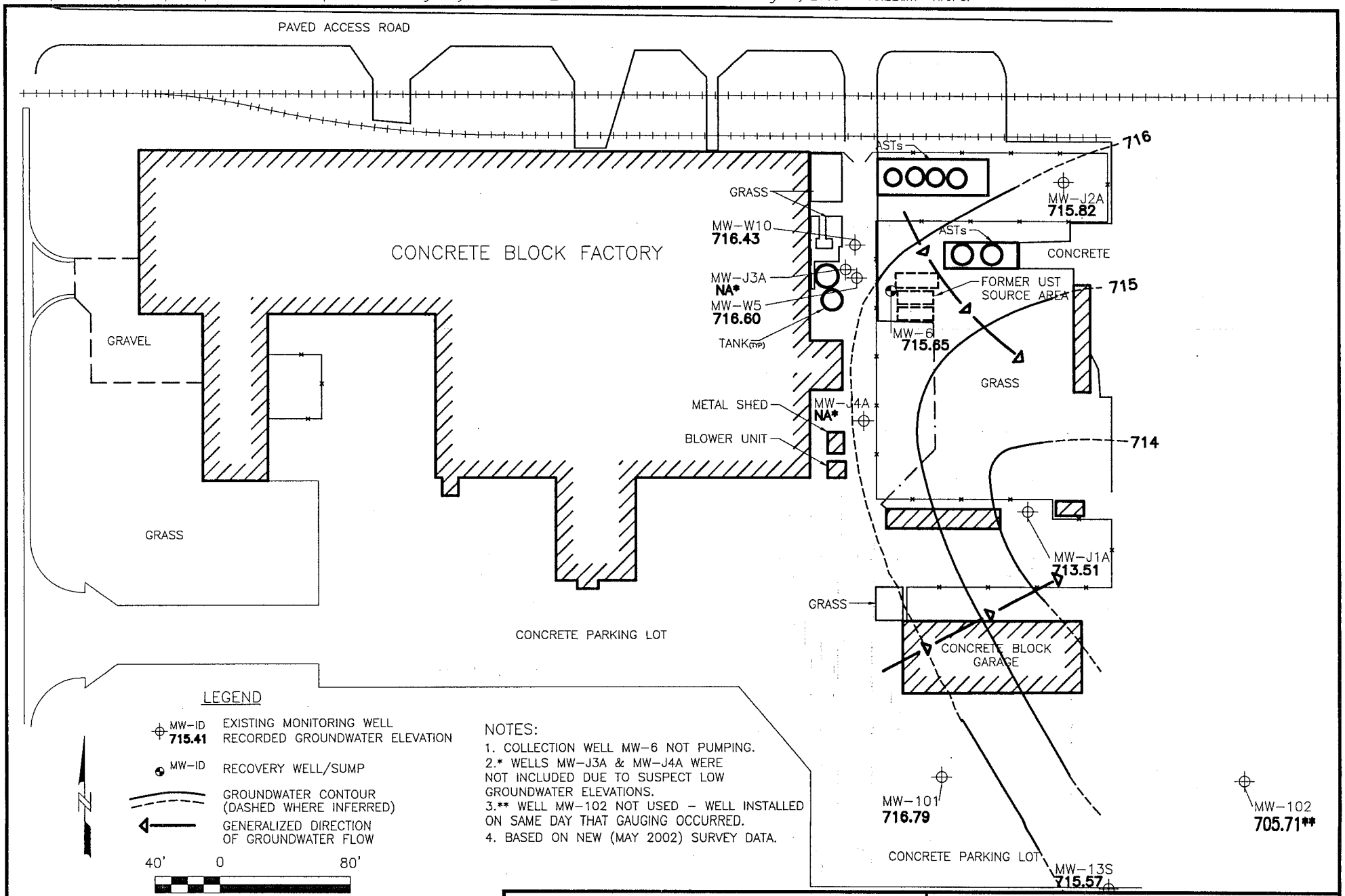
BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

GROUNDWATER ELEVATION CONTOUR MAP
DEEP WELLS
DECEMBER 9, 2002
OAK CREEK, WISCONSIN

FIGURE B.9-4

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816GW_02.dwg Layout: GW-SHAL_5-02 User: rwarren Plotted: Aug 06, 2003 - 10:22am Xref's:



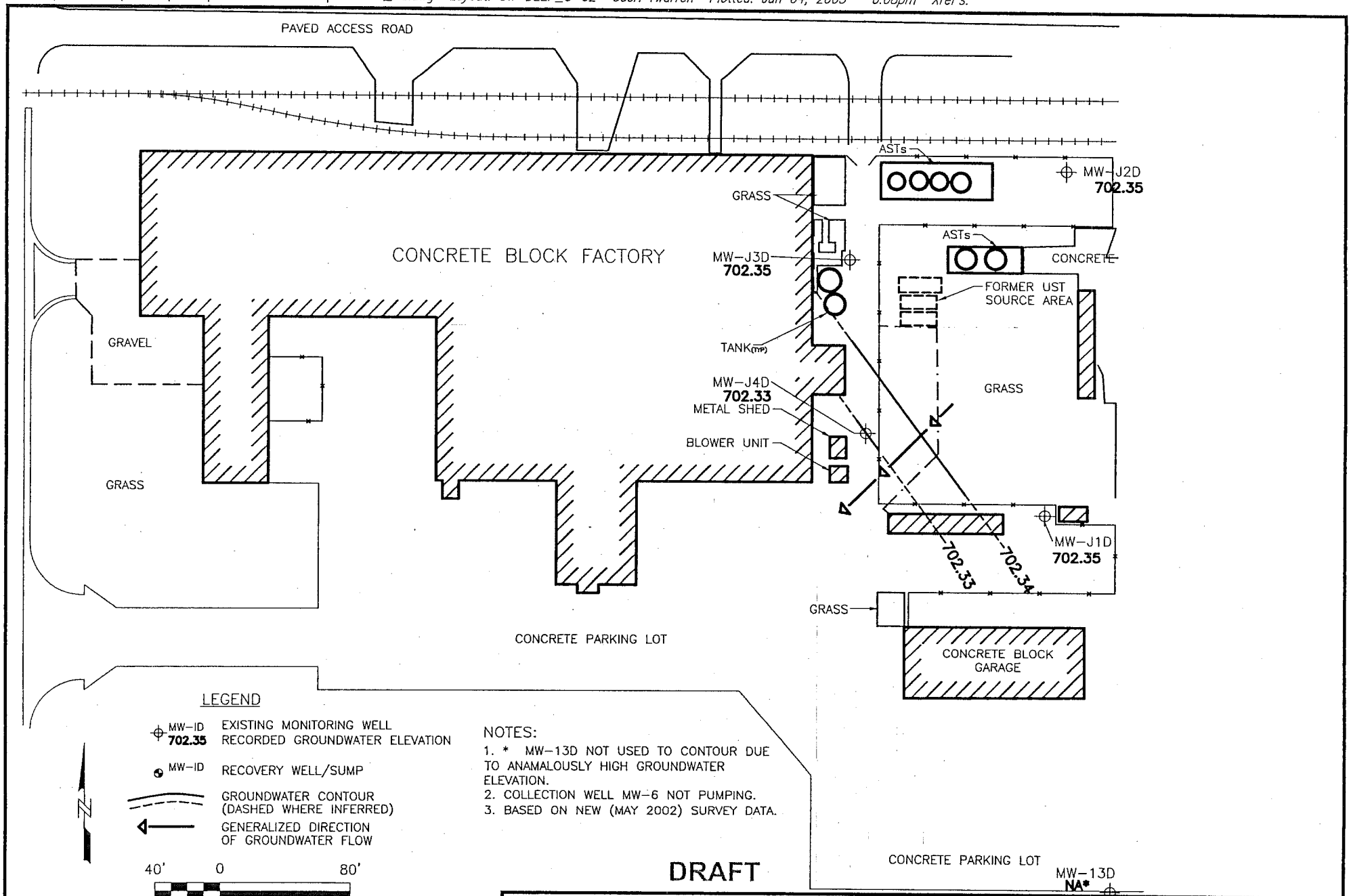
BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW WELLS
MAY 6, 2002
OAK CREEK, WISCONSIN

FIGURE B.9-5

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816GW_02.dwg Layout: GW-DEEP_5-02 User: rwarren Plotted: Jun 04, 2003 - 6:08pm Xref's:



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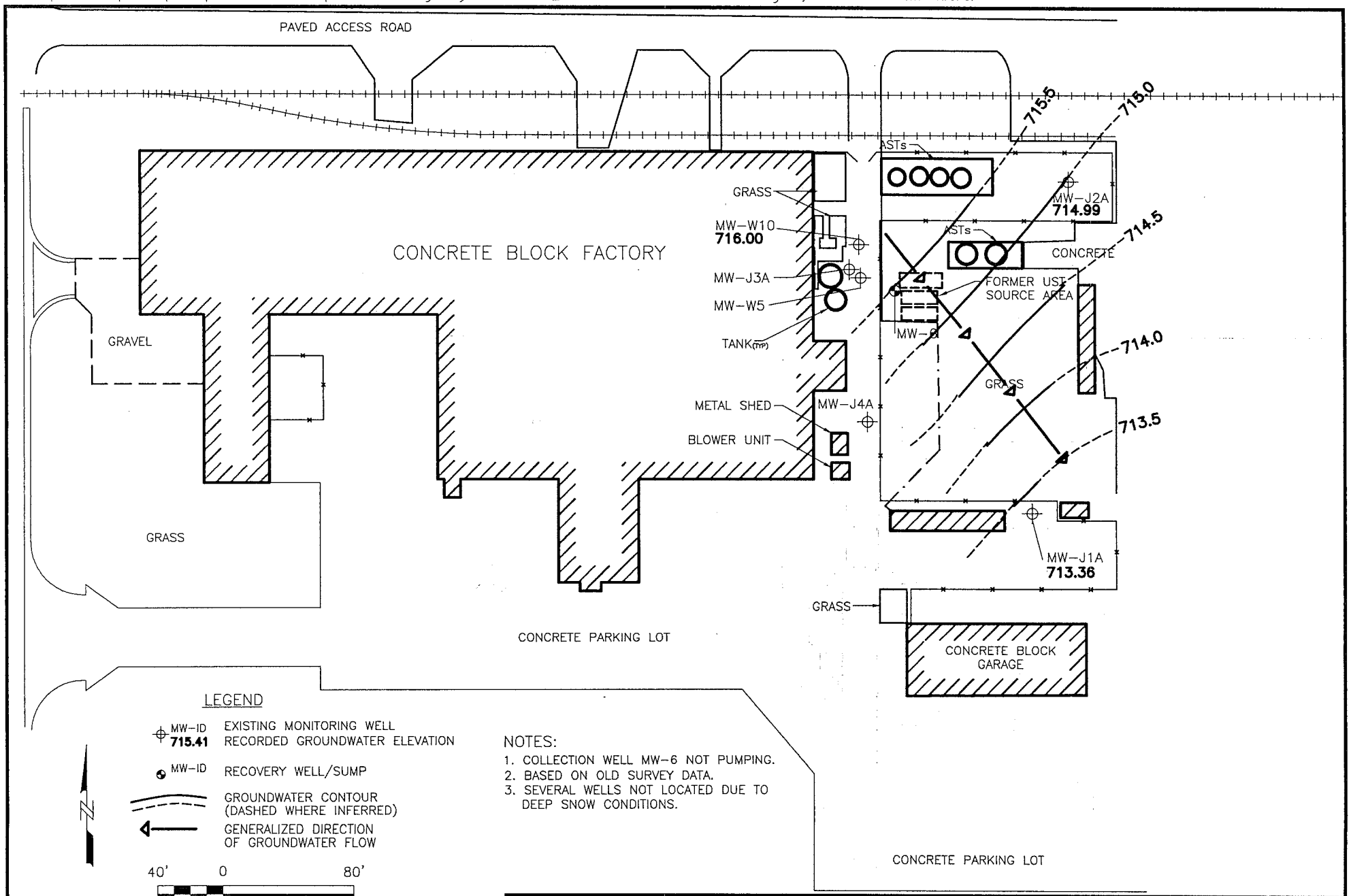


LEGEND

MW-ID 715.41 EXISTING MONITORING WELL RECORDED GROUNDWATER ELEVATION

MW-ID RECOVERY WELL/SUMP

GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

GENERALIZED DIRECTION OF GROUNDWATER FLOW

N

40' 0 80'

GRAPHIC SCALE

NOTES:

1. COLLECTION WELL MW-6 NOT PUMPING.
2. BASED ON OLD SURVEY DATA.
3. SEVERAL WELLS NOT LOCATED DUE TO DEEP SNOW CONDITIONS.

RETEC

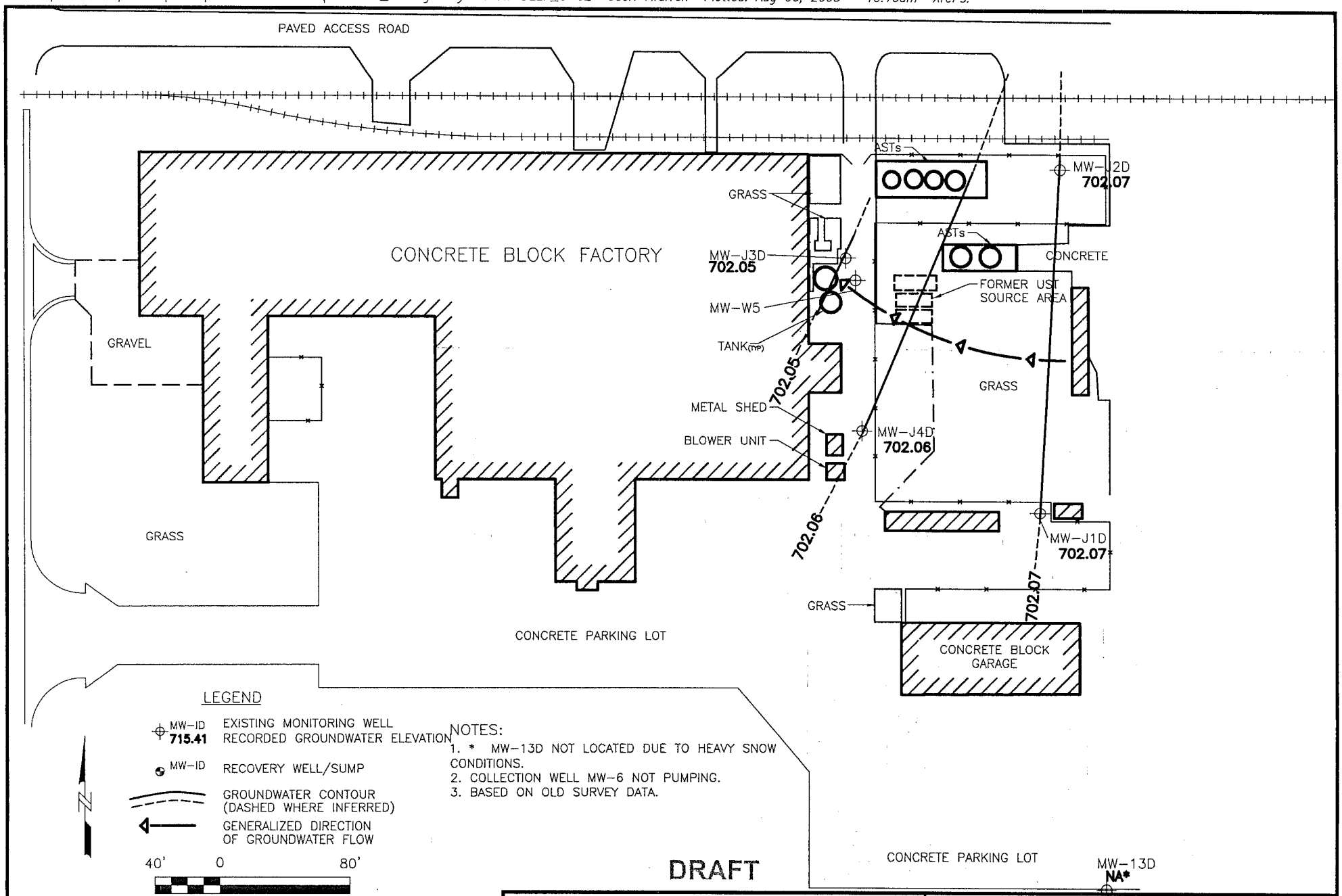
BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW WELLS
MARCH 5, 2002
OAK CREEK, WISCONSIN

FIGURE B.9-7

File: F:\PROJECTS\15816\CADD\CLOSURE FIGURES\15816GW_02.dwg Layout: GW-DEEP_3-02 User: rwarren Plotted: Aug 06, 2003 - 10:16am Xref's:

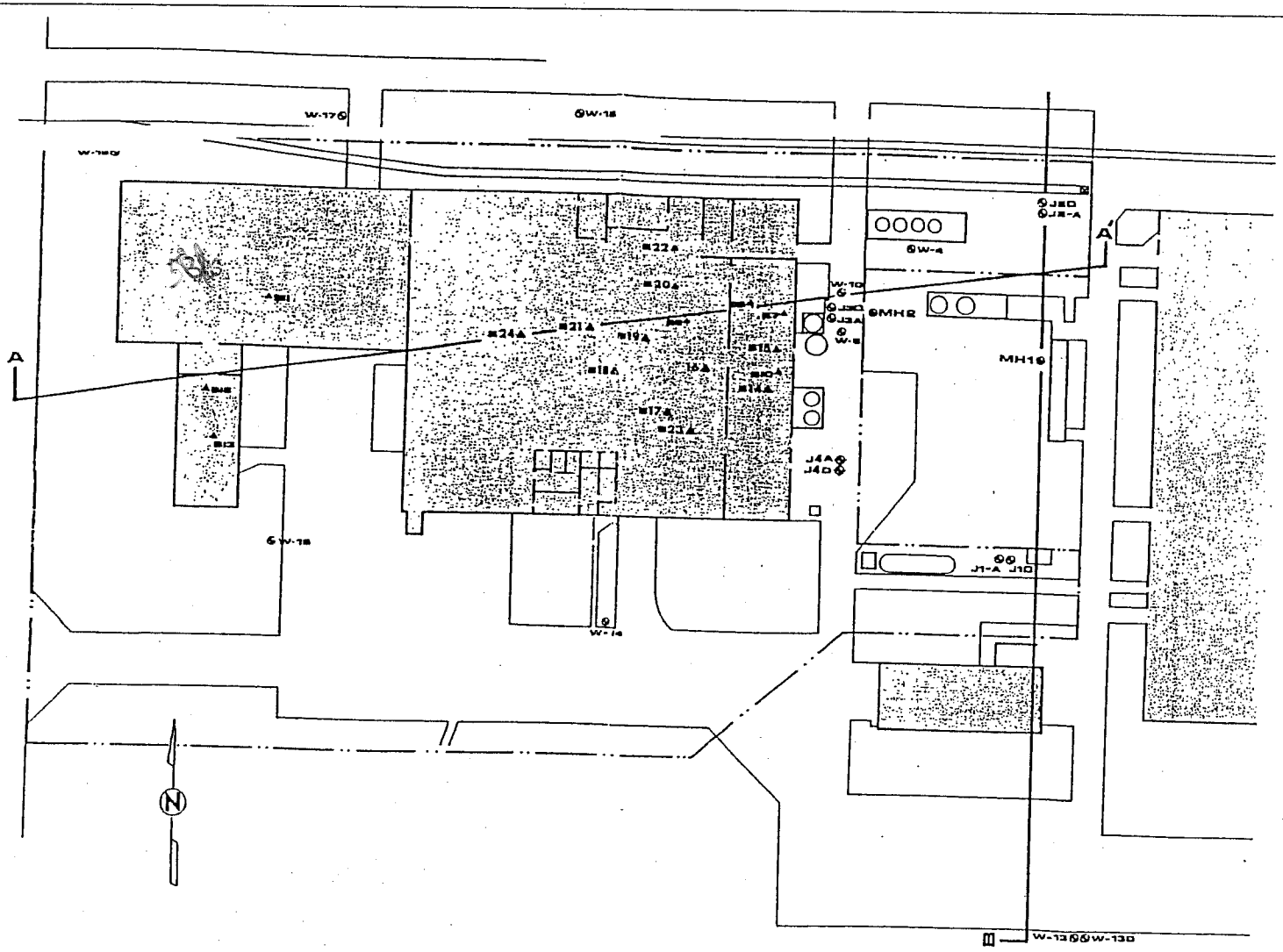


BEAZER EAST, INC.
OAK CREEK SITE
BEAZ2-15816-920

DATE: 06/04/03 | DRWN: RCW/CON

GROUNDWATER ELEVATION CONTOUR MAP
DEEP WELLS
MARCH 5, 2002
OAK CREEK, WISCONSIN

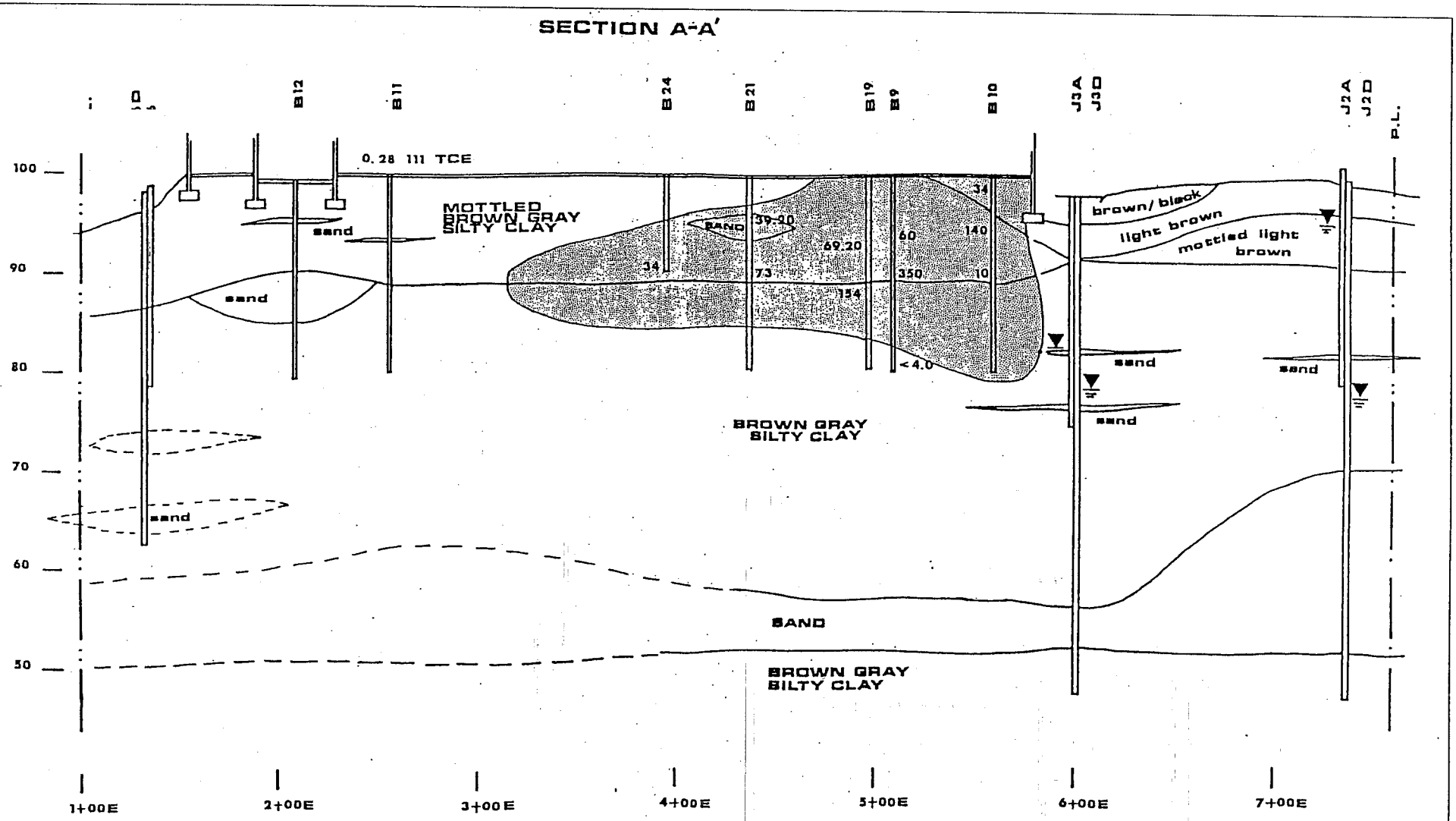
FIGURE B.9-8



Reference: Jamrok Environmental, Inc., 1994

RETEC

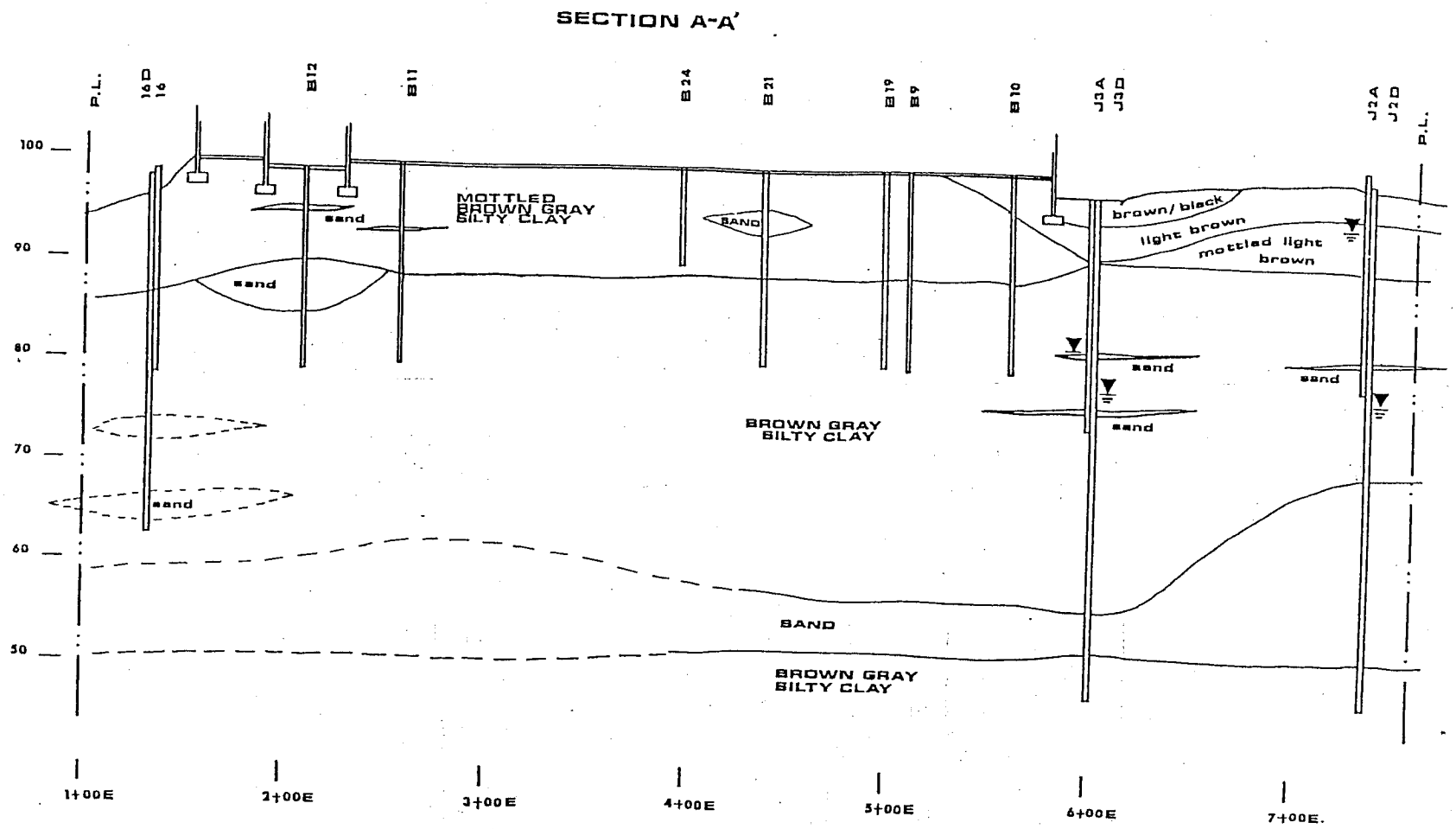
OAK CREEK, WISCONSIN BEAZER EAST, INC.				SITE BORING LOCATION PLOT PLAN AND GEOLOGIC CROSS SECTION LOCATION PLAN
CURRENT DATE	6/2003	FILE	F:\PROJECTS\figure d-3.ppt	FIGURE D-3



Reference: Jamrok Environmental, Inc., 1994

RETEC

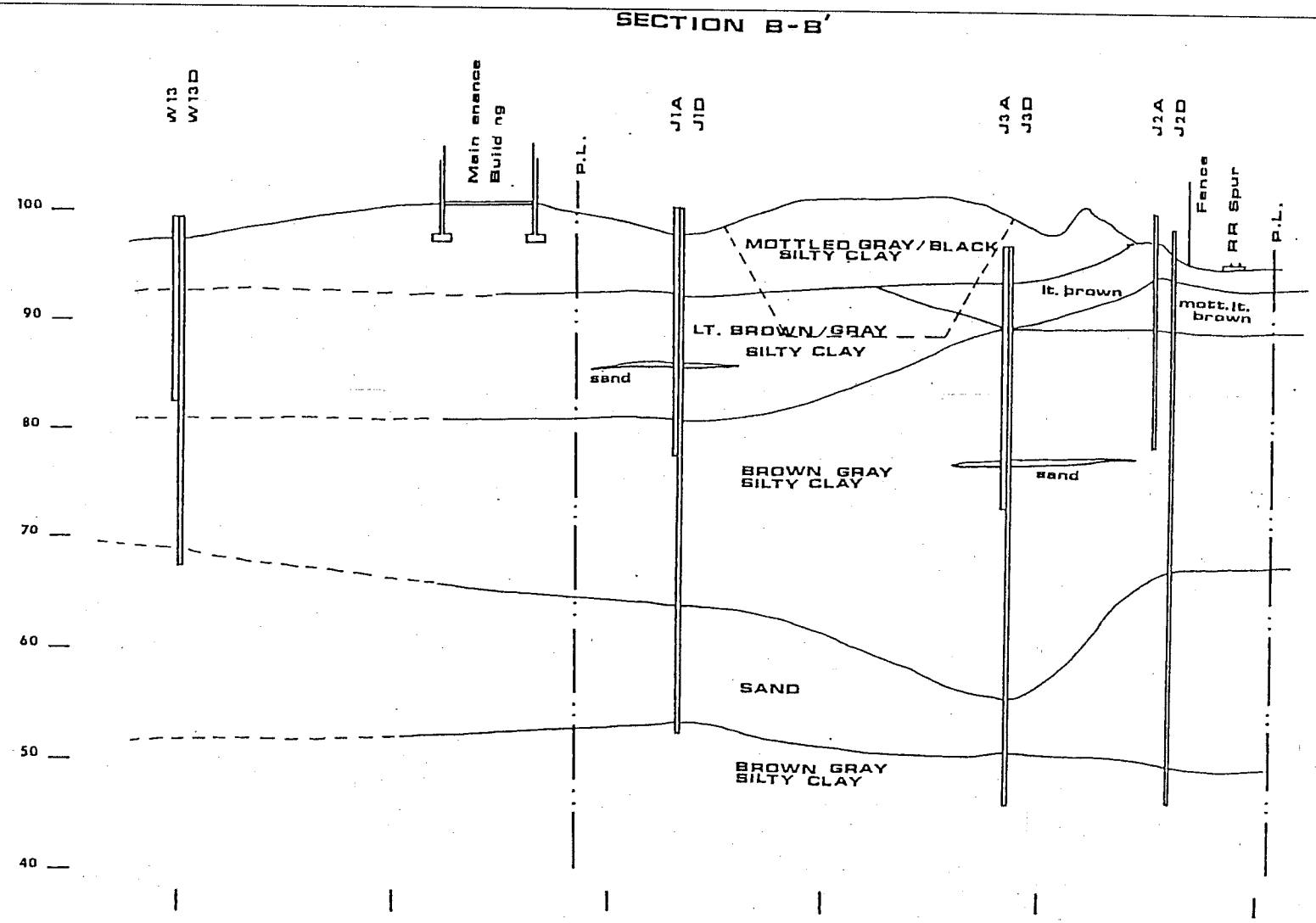
OAK CREEK, WISCONSIN BEAZER EAST, INC.			SOIL CONTAMINATION SECTION PLAN	
CURRENT DATE	6/2003	FILE	F:\PROJECTS\figure d-6.ppt	FIGURE D-6



Reference: Jamrok Environmental, Inc., 1994

RETEC

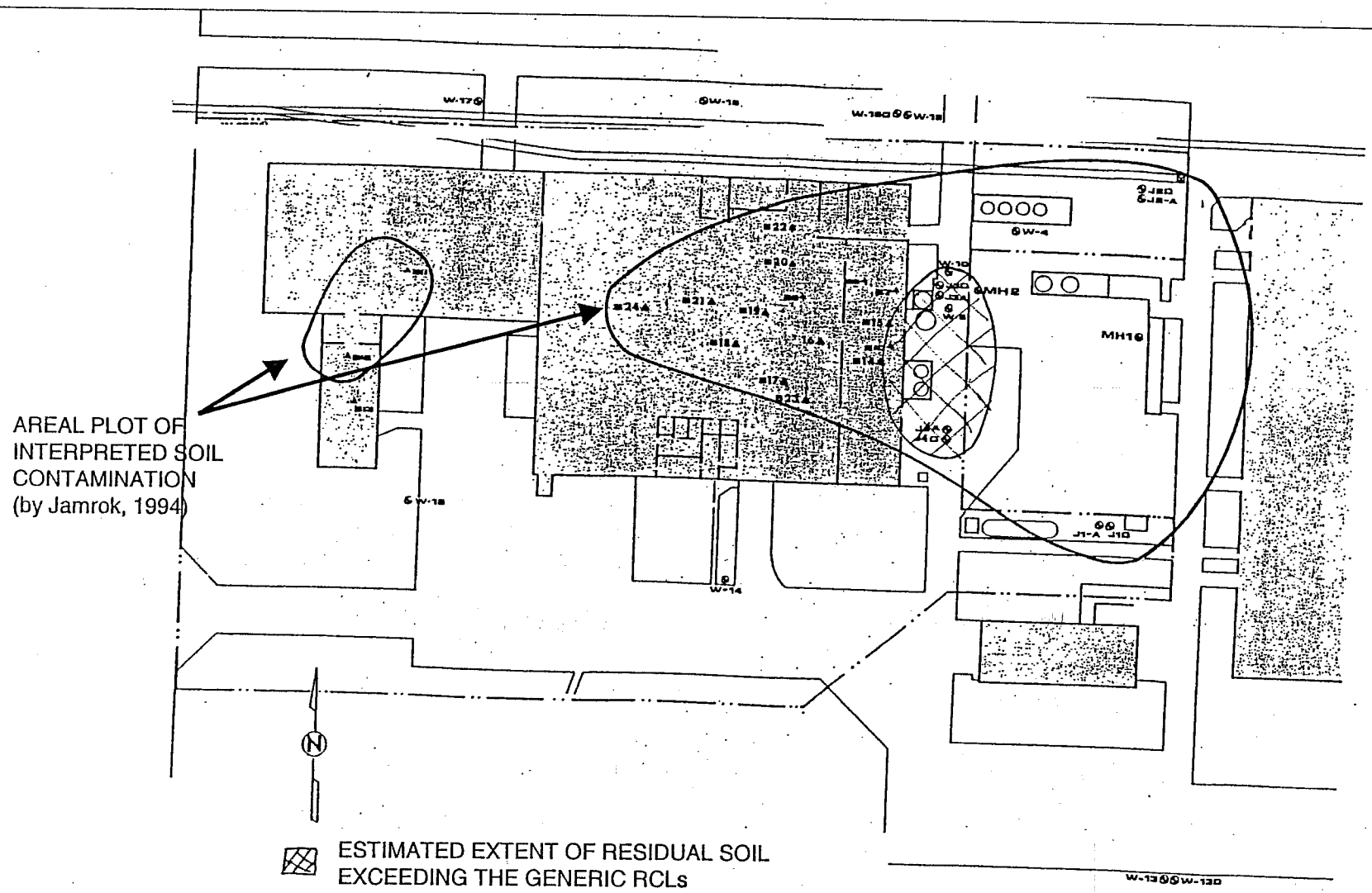
OAK CREEK, WISCONSIN BEAZER EAST, INC.			GEOLOGIC CROSS SECTION A-A'
CURRENT DATE	6/2003	FILE	F:\PROJECTS\figure d-4.ppt	FIGURE D-4



Reference: Jamrok Environmental, Inc., 1994

RETEC

OAK CREEK, WISCONSIN BEAZER EAST, INC.			GEOLOGIC CROSS SECTION B-B'	
CURRENT DATE	6/2003	FILE	F:\PROJECTS\figure d-5.ppt	FIGURE D-5



Note: Table D-1 presents soil analytical results
Reference: Jamrok Environmental, Inc., 1994

RETEC

OAK CREEK, WISCONSIN BEAZER EAST, INC.			POST-REMEDIAL SOIL SAMPLE LOCATION MAP	
CURRENT DATE	6/2003	FILE	F:\PROJECTS\figure d-2.ppt	FIGURE D-2

Beazer

BEAZER EAST, INC. C/O THREE RIVERS MANAGEMENT, INC.
ONE OXFORD CENTRE, SUITE 3000, PITTSBURGH, PA 15219-6401

September 29, 2003

RECEIVED
OCT 01 2003
By

Mr. Eric Amadi
Wisconsin Department of Natural Resources
Southeast Region Headquarters
2300 North Martin Luther King Drive
Milwaukee, WI 53212

FID#241165210

RE: Statement Signed by the Responsible Party to Supplement Case Closure – Former Thiem Corporation Facility – Oak Creek, Wisconsin

Dear Mr. Amadi:

Beazer East, Inc. (Beazer), as the responsible party (RP) for environmental impacts associated with former operations of the Thiem Corporation facility located in Oak Creek, Wisconsin, is providing the Wisconsin Department of Natural Resources (WDNR) with this letter regarding impacted property information.

Beazer believes the legal descriptions for all properties within or partially within the contaminated site boundaries where groundwater contaminants exceed ch. NR 140 enforcement standards have been submitted to the WDNR as part of the groundwater GIS registry attachment to the case close out report for the facility.

If you have any questions or require additional information, please feel free to call Mr. Michael Helbling at (412) 208-8858.

Sincerely,

Beazer East, Inc.

Robert S. Markwell

Robert S. Markwell
Vice President
Beazer East, Inc.

Beazer

BEAZER EAST, INC. C/O THREE RIVERS MANAGEMENT, INC.
ONE OXFORD CENTRE, SUITE 3000, PITTSBURGH, PA 15219-6401

Via Certified Mail

September 10, 2003

Mr. James Rosen
Spectrum Development Group
6526 River Park Way
Wauwatosa, WI 53213

RE: Notification Letter to Landowner from Responsible Party to Supplement Case Closure – Former Thiem Corporation Facility – Oak Creek, Wisconsin

Dear Mr. Rosen:

The purpose of this letter it to notify you that Beazer East, Inc. (Beazer) is seeking to close the environmental case relating to the Former Thiem Corporation facility located at 420 West Marquette Avenue in Oak Creek, Wisconsin (the Site). Your property is within the former boundaries of the Site.

As is discussed in more detail below, Beazer will soon be requesting that the Wisconsin Department of Natural Resources (WDNR) grant closure of the environmental case. Closure means that the WDNR will not require further environmental investigations or cleanup actions to be taken with respect to the Site, other than the reliance on natural attenuation.

For a number of years Beazer has been conducting groundwater treatment to address impacts to groundwater resulting from underground storage tanks formerly located at the Site. Beazer has also sampled and analyzed groundwater to measure the levels of Site-related chemicals in it. While the concentrations of Site-related chemicals in groundwater have decreased since groundwater monitoring was initially conducted at the Site in 1985, concentrations of chloroethane and 1,2-dichloroethane in groundwater at the Site, including groundwater on your property, are still currently above the state groundwater enforcement standards found in Chapter NR 140 of the Wisconsin Administrative Code.

The RETEC Group, Inc. (RETEC), on behalf of Beazer, has evaluated the groundwater concentrations measured over the past 18 years for the Site and has determined that the aerial extent of groundwater impacted by Site-related chemicals is receding and will continue to naturally degrade or attenuate over time. Eventually the natural attenuation process should cause the concentrations of Site-related chemicals in groundwater, including the Site-related chemicals in groundwater on your property, to decrease to below the Chapter NR 140 standards. Allowing natural attenuation to complete the cleanup at this Site will meet the requirements for case closure that are found in Chapters NR 726 and NR 746 of the Wisconsin Administrative Code. Beazer will very shortly ask the Wisconsin Department of Natural Resources (WDNR) to consider natural attenuation as the final remedy for this site and to grant case closure.

Beazer, as the party responsible for the source of the groundwater impacts, recognizes that neither you nor any subsequent owner of your property will be held responsible for investigation or cleanup of the groundwater, as long as you and any subsequent owners comply with the requirements of Section 292.13, Wisconsin Statutes. Those requirements include allowing access to your property for environmental investigation or cleanup, if access is required. (Of course, if WDNR accepts our proposal for Site closure based on a natural attenuation remedy, no access to your property for Site cleanup will be required.) For further information on the requirements of Section 292.13, Wisconsin Statutes, you may call 1-800-367-6076 for calls originating in Wisconsin, or 608-264-6020 if you are calling from out of state or within the Madison area. By calling that number you may obtain a copy of the WDNR publication #RR-589, Fact Sheet 10: Guidance for Dealing with Properties Affected by Off-Site Contamination.

The WDNR will not review our closure request for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the WDNR so that you may provide any technical information suggesting that closure should not be granted for this site. If you would like to submit any information to the WDNR that is relevant to this closure request, you should mail that information to: Mr. Eric Amadi at Wisconsin Department of Natural Resources, Southeast District, P.O. Box 12436, Milwaukee, WI 53212, phone: 414 263 8639.

If this case is closed, all properties within the site boundaries where groundwater chemical concentrations currently exceed Chapter NR 140 groundwater enforcement standards will be listed on the Department of Natural Resources' geographic information system (GIS) Registry of Closed Remediation Sites. Your property would be on the Closed Remediation Sites list by virtue of the elevated levels of Site-related chemicals presently in groundwater on the property. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above Chapter NR 140 enforcement standards was found at the time that the case was closed. This GIS Registry will be available to the general public on the WDNR internet web site. Please review the enclosed legal description of your property, identified as Parcel 1 (redivision), and notify me within the next 30 days if the legal description is incorrect.

Since your property will be on the Registry of Closed Remediation Sites, you may need to satisfy special well construction standards if you or any subsequent property owner wish to construct or reconstruct a well on your property to protect the well from the residual Site-related chemicals in groundwater. If your property is located outside of the service area of a municipally owned water system, any well driller who proposes to construct a well on your property in the future will first need to call the Diggers Hotline (1-800-242-8511) to determine if there is a need for special well construction standards. If your property is located within the designated service area of a municipally owned water system, a well driller will first need to contact the Drinking Water program within the Department of Natural Resources to determine if there is a need for special well construction standards.

The WDNR's decision on our closure request will be documented in a letter. If the WDNR grants closure, Beazer will provide you a copy of that letter. A copy of the closure letter will also be included as part of the Site file on the GIS Registry of Closed Remediation Sites.

If you desire more information, you may contact me at (412) 208-8858 or Mr. Amadi of the WDNR at (414) 263 8639.

Sincerely,

Michael P. Helbling/LAK

Michael P. Helbling
Manager, Operations and Maintenance

cc: E. Amadi, WDNR
P. Cox, RETEC

Attachment

Beazer

BEAZER EAST, INC. C/O THREE RIVERS MANAGEMENT, INC.
ONE OXFORD CENTRE, SUITE 3000, PITTSBURGH, PA 15219-6401

Via Certified Mail

September 10, 2003

Mr. Glenn Young
Henkel Corporation
The Triad, Suite 200
2200 Renaissance Boulevard
Gulph Mills, PA 19406

RE: Notification Letter to Landowner from Responsible Party to Supplement Case Closure – Former Thiem Corporation Facility – Oak Creek, Wisconsin

Dear Mr. Young:

The purpose of this letter it to notify you that Beazer East, Inc. (Beazer) is seeking to close the environmental case relating to the Former Thiem Corporation facility located at 420 West Marquette Avenue in Oak Creek, Wisconsin (the Site). Your property is within the former boundaries of the Site.

As is discussed in more detail below, Beazer will soon be requesting that the Wisconsin Department of Natural Resources (WDNR) grant closure of the environmental case. Closure means that the WDNR will not require further environmental investigations or cleanup actions to be taken with respect to the Site, other than the reliance on natural attenuation.

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Beazer will very shortly ask the Wisconsin Department of Natural Resources (WDNR) to consider natural attenuation as the final remedy for this site and to grant case closure.

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If this case is closed, all properties within the site boundaries where groundwater chemical concentrations currently exceed Chapter NR 140 groundwater enforcement standards will be listed on the Department of Natural Resources' geographic information system (GIS) Registry of Closed Remediation Sites. Your property would be on the Closed Remediation Sites list by virtue of the elevated levels of Site-related chemicals presently in groundwater on the property. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above Chapter NR 140 enforcement standards was found at the time that the case was closed. This GIS Registry will be available to the general public on the WDNR internet web site. Please review the enclosed legal description of your property, identified as Parcel 2, and notify me within the next 30 days if the legal description is incorrect.

Since your property will be on the Registry of Closed Remediation Sites, you may need to satisfy special well construction standards if you or any subsequent property owner wish to construct or reconstruct a well on your property to protect the well from the residual Site-related chemicals in groundwater. If your property is located outside of the service area of a municipally owned water system, any well driller who proposes to construct a well on your property in the future will first need to call the Diggers Hotline (1-800-242-8511) to determine if there is a need for special well construction standards. If your property is located within the designated service area of a municipally owned water system, a well driller will first need to contact the Drinking Water program within the Department of Natural Resources to determine if there is a need for special well construction standards.

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If you desire more information, you may contact me at (412) 208-8858 or Mr. Amadi of the WDNR at (414) 263 8639.

Sincerely,

Michael P. Helbling/LAK

Michael P. Helbling
Manager, Operations and Maintenance

cc: Mr. Robert Budnik, Henkel
E. Amadi, WDNR
P. Cox, RETEC

Attachment

2 Purpose

This Maintenance Plan has been prepared pursuant to §NR 724.13(2), Wisconsin Adm. Code. Specifically, this plan outlines the measures taken to ensure that the concrete/asphalt pavement cover at the site in the Deed Restricted Area is maintained to limit direct contact with soils and protect groundwater.