

CITY OF HOUSTON



PUBLIC WORKS AND ENGINEERING PLANNING & DEVELOPMENT DIVISION

EXECUTIVE SUMMARY

Pursuant to the City of Houston's Code of Ordinances, Chapter 47, Article XIII, AK Steel Company files this application seeking a Municipal Setting designation (MSD) for the approximate 24-acre property located in Houston, Texas. The designated property is located northwest of downtown Houston, TX, in Harris County, approximately ½-mile north of I-10, and ¼-mile west of I-610, and south of Hempstead Highway. The designated property (MSD surveyed boundary) is situated west of North Post Oak Road (between 1403 and 1523 N Post Oak Rd), north of Westview Drive extending northward toward Hempstead Highway.

The general site area in the immediate vicinity of the designated property is considered to be commercial/industrial. Residential areas are present within 800-feet west of the designated property. Office use properties are situated south of the designated property, south of Westview Drive. Future use of the designated property is likely to be similar, and surrounding property use is likely to continue to be mixed use.

AK Steel Corporation operated a rolled steel products manufacturing business located at 1503 North Post Oak Road, Houston, Texas between 1945 until the property was sold to TT Investment Co. in 1994. The property is currently owned by TT Investment Co. and manufacturing facilities at the property are operated by Tex-Tube Company. Both TT Investment Co. and Tex-Tube Company are subsidiaries of VI Steel Inc. Historical and current manufacturing operations both involve primarily the manufacture of carbon steel pipe products fabricated from coiled flat-rolled steel. Historical site operations on the AK Steel property are believed to be the source for groundwater contamination for which this MSD application has been prepared.

A series of initial site assessments were performed at the Tex-Tube facility beginning in 1994 and culminating with a Phase 2 groundwater investigation in 1999. Initial site investigation detected the presence of volatile organic compounds (VOC), semivolatile organic compounds (SVOC), total petroleum hydrocarbons (TPH) and metals in surface soil on site, and VOCs, SVOC and TPH in groundwater samples. Additional targeted environmental investigations were completed in 1995-1996 in facility areas such as the Loooper Pits, Mill No. 2, Off-Spec and Roll-Off Areas, Gasoline Underground Storage Tank (UST), Solvent Aboveground Storage tank, Diesel UST, and the Mill No.1 Transformer Area. Conclusions from this phase of investigation were summarized in June 1996 *Site Investigation Report* (ERM, 1996). This report concluded that the "dissolved phase chlorinated VOC plume at the facility appears centered about the Loooper pit area of Mill No. 1, but there is no evidence that either Loooper pit is the source of the plume". The report also concluded that the extent of the dissolved phase chlorinated VOC plume was not fully delineated.

Phase 2 and Phase 3 groundwater investigations were completed in 1999-2000 by ERM to further delineate dissolved VOC constituents in two subsurface water-bearing formations identified as Stratum II and Stratum IV. These site investigations helped to define the boundaries of two on-site plume areas, one of which contains benzene, toluene, ethylbenzene and xylene (BTEX) VOC constituents, and the other containing chlorinated VOC. The BTEX plume was indicated to be associated with an on-site UST location. The chlorinated VOC plume was indicated to be centered beneath the Loooper pit area of Building No. 1 and was delineated in the west direction, but not fully delineated to the north, east and south.

In 2003, an additional site investigation phase was conducted by ERM which included further groundwater characterization both on-site and on an adjacent off-site property to the north operated by V&G Enterprises. This investigation involved further sampling of groundwater as well as molar ratio comparisons between detected constituents. The ERM report concluded that the Stratum II VOC plume was now delineated to the north, southeast and south, and the Stratum IV VOC plume was delineated to the north. The report also concluded that a VOC source was considered to be present on the V&G property to the north of Tex-Tube, with constituent mole ratio values that were considered indicative of a separate source area. This separate VOC source area is later described within the APAR and subsequent post-APAR groundwater sampling event reports as a co-mingled groundwater plume. The co-mingled portion of the groundwater plume is situated along the east side of the Tex-Tube property proximal to North Post Oak Road as can be seen in attached maps provided within this MSD application (Appendix C).

An Affected Property Assessment Report (APAR) was completed in July 2005 for AK Steel Corporation, at which time the groundwater organic contaminant plume was delineated. The specific point of origin for the existing groundwater contaminant plume is not precisely known, however, it is assumed to be from undetermined releases from underground and above ground storage tanks, the Looper pit area of Building No. 1, and storage areas associated with historical facility operations. The approximate point of origin for the existing groundwater organic contaminant plume is toward the eastern side of the current Tex-Tube property, and directionally trends in a southward direction. Portions of the plume are considered to be potentially co-mingled with a similar constituent plume emanating from an adjacent property to the north, owned by V&G Enterprises.

Following submission of the APAR, groundwater sampling events were completed in June 2006, then on a quarterly basis between February 2007 to December 2009, then on a semiannual basis from June 2010 through the October 2014. Including pre-APAR groundwater sampling events, a maximum of 26 sampling events have been completed for several of the monitoring wells.

The primary constituents of concern (COCs) within the organic contaminant plume are volatile organic compounds (VOCs), namely chlorinated organics including 1,1-dichloroethene (1,1-DCE), cis- and trans-1,2-dichloroethene (cis- and trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride (VC). Existing groundwater data indicates that two water-bearing units, identified in the APAR and groundwater monitoring reports as Stratum II (Uppermost Transmissive Zone) and Stratum IV (Second Transmissive Zone) are impacted.

Groundwater monitoring of the organic contaminant plume(s) continues. Review of semi-annual groundwater data reports indicate that the chemical constituents of concern within the plume(s) are evaluated to be stable, decreasing, or showing evidence of dechlorination by natural attenuation. Groundwater COCs, including 1,1-DCE, cis- and trans-1,2-DCE, PCE, TCE, and VC will continue to exceed TRRP Tier 1 Residential GW-GW-Ing Protective Concentration Levels (PCLs) within the defined MSD boundary and determined boundary locations.

In 2010, a groundwater extraction and treatment system was installed. The system included a series of six (6) extraction wells and 14 injection wells operating within both the Stratum II and Stratum IV formations. The system became operational in November 2010 running more or less continuously, including various system adjustments, until September 2011, at which time the system was idled. Operational information for November 2010 through September 2011 indicates that a total of 4.3 million gallons of water was extracted and treated, with a total organic mass removal calculated to be 47.8 pounds. Groundwater sampling has continued at the site after idling of the system and has allowed for collection of groundwater quality data in support of this MSD application.

AK Steel Corporation is seeking a Municipal Setting designation (MSD) for this property to restrict access to groundwater to protect the public against exposure to contaminated groundwater. The MSD site area is considered commercial/light industrial, and is provided access to municipal public water supply system resources.

APPENDIX A

Provide a legal description of the boundaries of the designated property, including metes and bounds, and a copy of the deed for the property. A professional surveyor currently registered with the Texas Board of Professional Surveying must certify that all property descriptions with metes and bounds are accurate.

A copy of the MSD area designated property legal description with metes and bounds, with accompanying survey map, is attached.



LANDTECH CONSULTANTS, INC.
Civil Engineering • Land Surveying

PAGE 1 OF 2

FIELD NOTES FOR 24.3 ACRES (1,058,885 SQUARE FEET) OF LAND BEING PART OF A CERTAIN TRACT OF LAND DATED APRIL 30, 1997, CONVEYED TO V&G ENTERPRISES, INC., AS RECORDED IN FILE NO. S456088 OF THE OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS (O.P.R.R.P.H.C., TX.), A CERTAIN TRACT OF LAND DATED JULY 21, 1997, CONVEYED TO CHIEF CONTRACTORS, INC., AS RECORDED IN FILE NO. S559638, O.P.R.R.P.H.C., TX., AND A CERTAIN TRACT OF LAND DATED DECEMBER 16, 1994, CONVEYED TO T.T. INVESTMENT COMPANY, AS RECORDED IN FILE NOS. R197681 AND U411945, O.P.R.R.P.H.C., TX, ALL OF UNRESTRICTED RESERVE "A" OF BLOCK 1, NORTH POST OAK ROAD AT WESTVIEW DRIVE RESERVE, AS RECORDED IN FILM CODE NO. 626054, HARRIS COUNTY MAP RECORDS (H.C.M.R.), BEING A CERTAIN TRACT OF LAND DATED APRIL 25, 2013, CONVEYED TO NPO 1495, LP, AS RECORDED IN FILE NO. 20130197774, O.P.R.R.P.H.C., TX., A CERTAIN TRACT OF LAND DATED APRIL 11, 2013, CONVEYED TO NPO 1403, LP, AS RECORDED IN FILE NO. 20130173332, O.P.R.R.P.H.C., TX., ALL OF A 30.0 FEET PRIVATE ROADWAY, KNOWN AS JOHNSON ROAD, AS RECORDED IN VOLUME 2752, PAGE 139, HARRIS COUNTY DEED RECORDS (H.C.D.R.) AND PORTION OF WESTVIEW DRIVE (WIDTH VARIES PER VOLUME 6422, PAGE 204, H.C.D.R. AND FILE NO. Y980300, O.P.R.R.P.H.C., TX.), LOCATED IN THE J. WHARTON SURVEY, ABSTRACT NO. 871, HENRY REINERMAN SURVEY, ABSTRACT NO. 644 AND JOHN REINERMAN SURVEY, ABSTRACT NO. 642, HARRIS COUNTY, TEXAS: (All bearings and coordinates shown hereon are grid values referenced to the Texas Coordinates System, South Central Zone No. 4202, NAD 83. Grid values may be converted to surface values by applying a combined scale factor of 0.999899739.)

BEGINNING at a point, from which a found 1/2-inch iron rod bears South 85° 44' 14" East, 0.8 feet, in the south right-of-way line of said Westview Drive for the northwest corner of a certain tract of land conveyed to Harris County Department of Education Public Facility Corporation, as recorded in File No. Y980300, O.P.R.R.P.H.C., TX;

THENCE North 02° 40' 02" West, along the west line of said Unrestricted Reserve "A" and said NPO 1495, LP tract and the east line of a certain tract of land conveyed to Herzstein Investments, Inc. (0.7113-acre), as recorded in File No. V719829, O.P.R.R.P.H.C., TX., a distance of 310.09 feet to a corner of the herein described parcel;

THENCE North 02° 31' 10" West, continuing along the west line of said Block 1 and said NPO 1495, LP tract and the east line of said Herzstein Investments, Inc. tract (0.7113-acre), a certain tract of land conveyed to Houston Industrial Warehouses Joint Venture, as recorded in File No. R257731, O.P.R.R.P.H.C., TX. and said Herzstein Investments, Inc. tract (5.087-acre), a distance of 641.79 feet to a point in the south line of said T.T. Investment Company tract for the northeast corner of said Herzstein Investments, Inc. tract (5.087-acre), the northwest corner of said 30.0 feet private roadway and a corner of the herein described parcel;

THENCE North 00° 08' 54" East, a distance of 474.73 feet to the most northwest corner of the herein described parcel;

THENCE North 89° 59' 39" East, a distance of 582.46 feet to an ell corner of the herein described parcel;



LANDTECH CONSULTANTS, INC.
Civil Engineering • Land Surveying

PAGE 1 OF 2

THENCE North $00^{\circ} 02' 46''$ East, a distance of 62.90 feet to a corner of the herein described parcel;

THENCE North $89^{\circ} 59' 02''$ East, a distance of 302.86 feet to the most northeast corner of the herein described parcel;

THENCE South $00^{\circ} 06' 15''$ East, a distance of 102.53 feet to a point in the northwest right-of-way line of North Post Oak Road (80.0 feet wide per File No. J317653, O.P.R.R.P.H.C., TX.) and in the south line of said T.T. Investment Company tract (File No. R197681) for a corner of the herein described parcel;

THENCE South $38^{\circ} 02' 45''$ West, along the northwest right-of-way line of said North Post Oak Road and the south line of said T.T. Investment Company tract (File No. R197681), a distance of 293.18 feet to a 3/4-inch iron pipe found for an ell corner of the herein described parcel;

THENCE South $02^{\circ} 44' 20''$ East, continuing along the west right-of-way line of said North Post Oak Road and the east line of said T.T. Investment Company tract (File No. R197681), said Block 1, Said NPO 1495, LP tract and said NPO 1403, LP tract, a distance of 1130.73 feet to the southwest corner of the intersection of said North Post Oak Road and said Westview Drive for the northeast corner of said Harris County Department of Education Public Facility Corporation tract and the southeast corner of the herein described parcel;

THENCE South $87^{\circ} 13' 01''$ West, along the north line of said Harris County Department of Education Public Facility Corporation tract and the south right-of-way line of said Westview Drive, a distance of 572.05 feet to a point of curvature;

THENCE continuing along the south right-of-way line of said Westview Drive and the north line of said Harris County Department of Education Public Facility Corporation tract with a curve to the right, having a radius of 1185.92 feet, a central angle of $07^{\circ} 03' 54''$, an arc length of 146.23 feet, and a chord of North $89^{\circ} 15' 02''$ West, 146.14 feet to the **POINT OF BEGINNING** and containing 24.3 acres of land.

Job No. 14-2-0157.00
Drawing No. 2209-D-3067
Survey date: AUGUST 2014

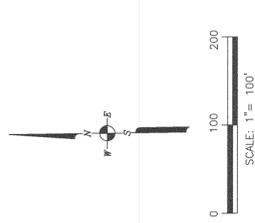
Paul P. Kwan 9/18/2014

Paul P. Kwan
Texas Registered Professional Land Surveyor No. 4313



This metes and bounds description is accompanied by a separate plat.

HENRY REINERMAN SURVEY
A-644



LEGEND.
 H.C.D.R. HARRIS COUNTY DEED RECORDS
 H.C.P.R. HARRIS COUNTY PUBLIC RECORDS
 I.R. IRON ROAD PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS
 O.P.R.P.H.C., TX. OFFICIAL PUBLIC RECORDS OF HARRIS COUNTY, TEXAS
 P.G. PLAT
 S.D. FT. SURFACE FEET
 S.D. M. SURFACE METERS
 V.C. VOL. VOLUME
 P.C. POINT OF CURVATURE
 P.M. POINT

- NOTES:**
1. BEARINGS AND COORDINATES BEING BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.
 2. THIS DOCUMENT WAS PREPARED UNDER 22 TAC 663.21. DOES NOT REFLECT THE RESULTS OF AN ON THE GROUND SURVEY AND IS NOT TO BE USED TO CONVEY OR ESTABLISH INTERESTS IN REAL PROPERTY EXCEPT THOSE RIGHTS AND INTERESTS IMPLIED OR ESTABLISHED BY THE CREATION OR RECONFIGURATION OF THE BOUNDARY OF THE POLITICAL SUBDIVISION FOR WHICH IT WAS PREPARED.
 3. THIS PLAT IS ACCOMPANIED BY A SEPARATE METES AND BOUNDS DESCRIPTION.

MUNICIPAL SETTING DESIGNATIONS

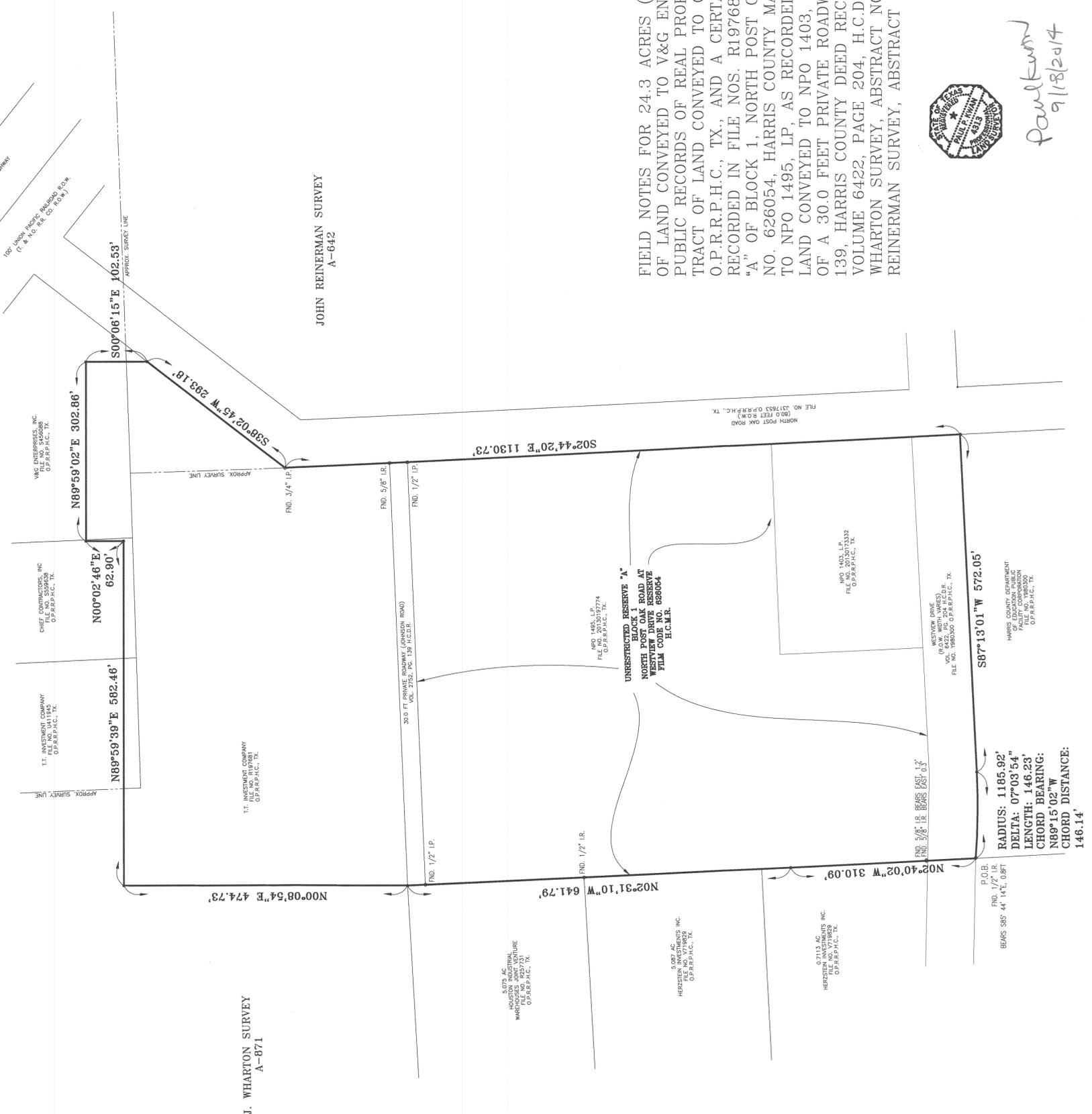
FIELD NOTES FOR 24.3 ACRES (1,058,885 SQUARE FEET) OF LAND BEING PART OF A CERTAIN TRACT OF LAND CONVEYED TO V&G ENTERPRISES, INC., AS RECORDED IN FILE NO. S456088 OF THE OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS (O.P.R.P.H.C., TX.), A CERTAIN TRACT OF LAND CONVEYED TO CHIEF CONTRACTORS, INC., AS RECORDED IN FILE NO. S559638, O.P.R.P.H.C., TX., AND A CERTAIN TRACT OF LAND CONVEYED TO T.T. INVESTMENT COMPANY, AS RECORDED IN FILE NOS. R197681 AND U411945, O.P.R.P.H.C., TX. ALL OF UNRESTRICTED RESERVE "A" OF BLOCK 1, NORTH POST OAK ROAD AT WESTVIEW DRIVE RESERVE, AS RECORDED IN FILM CODE NO. 626054, HARRIS COUNTY MAP RECORDS (H.C.M.R.), BEING A CERTAIN TRACT OF LAND CONVEYED TO NPO 1495, LP, AS RECORDED IN FILE NO. 20130197774, O.P.R.P.H.C., TX., A CERTAIN TRACT OF LAND CONVEYED TO NPO 1403, LP, AS RECORDED IN FILE NO. 20130173332, O.P.R.P.H.C., TX., ALL OF A 30.0 FEET PRIVATE ROADWAY, KNOWN AS JOHNSON ROAD, AS RECORDED IN VOLUME 2752, PAGE 139, HARRIS COUNTY DEED RECORDS (H.C.D.R.) AND PORTION OF WESTVIEW DRIVE (WIDTH VARIES PER VOLUME 6422, PAGE 204, H.C.D.R. AND FILE NO. Y980300, O.P.R.P.H.C., TX.), LOCATED IN THE J. WHARTON SURVEY, ABSTRACT NO. 871, HENRY REINERMAN SURVEY, ABSTRACT NO. 644 AND JOHN REINERMAN SURVEY, ABSTRACT NO. 642, HARRIS COUNTY, TEXAS.



Paul Korman
9/18/2014

LANDTECH CONSULTANTS, INC.
 Civil Engineering * Land Surveying
 2525 North Loop West
 Suite 300
 Houston, Texas 77008
 Tel. (713) 861-7068 Fax (713) 861-4131
 TBPLS Firm Registration Certificate No. 10019100

DATE: SEPTEMBER, 2014
 SCALE: 1" = 100'
 DRAWING No.: 2209-D-3067
 JOB No.: 1420157.00
 SHEET No.: 1 OF 1



J. WHARTON SURVEY
A-871

JOHN REINERMAN SURVEY
A-642

RADIUS: 1185.92'
 DELTA: 07°03'54"
 LENGTH: 146.23'
 CHORD BEARING:
 N89°15'02"W
 CHORD DISTANCE:
 146.14'

WESTVIEW DRIVE
 (R.O.W. WITH WARDS)
 (R.S. 8/8)
 FILE NO. 198200 O.P.R.P.H.C., TX.

UNRESTRICTED RESERVE "A"
 BLOCK 1 ROAD AT
 WESTVIEW DRIVE RESERVE
 H.C.M.R.
 FILE NO. 1403, LP
 O.P.R.P.H.C., TX.

30.0 FT PRIVATE ROADWAY (JOHNSON ROAD)
 VOL. 2752, PG. 139 H.C.D.R.

V&G ENTERPRISES, INC.
 O.P.R.P.H.C., TX.

CHIEF CONTRACTORS, INC.
 O.P.R.P.H.C., TX.

T.T. INVESTMENT COMPANY
 O.P.R.P.H.C., TX.

T.T. INVESTMENT COMPANY
 O.P.R.P.H.C., TX.

5.87 AC
 HOUSTON INDUSTRIAL
 WAREHOUSE
 O.P.R.P.H.C., TX.

HERZBERG INVESTMENTS INC.
 O.P.R.P.H.C., TX.

HERZBERG INVESTMENTS INC.
 O.P.R.P.H.C., TX.

P.O.B.
 BEARS S85° 44' 14"E, D87'

HARRIS COUNTY DEPARTMENT
 OF EDUCATION PUBLIC
 RECORDS
 FILE NO. 198200
 O.P.R.P.H.C., TX.

NORTH POST OAK ROAD
 (60.0 FEET O.P.R.P.H.C., TX.)
 FILE NO. 1317833 O.P.R.P.H.C., TX.

6
1
WD
N
AFTER RECORDING:
HOLD FOR

CHARTER TITLE COMPANY

GF 1033004509

Closer:

20130197774
04/26/2013 RP2 \$36.00

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §

COUNTY OF HARRIS §

1497-036-82-0197
105
The undersigned, **NORTH POST OAK PARTNERS, L.P.**, a Texas limited partnership (hereinafter called "Grantor"), for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) cash and other good and valuable consideration in hand paid by **NPO 1495, LP**, a Texas limited partnership (hereinafter called "Grantee"), receipt of which consideration is hereby acknowledged and confessed, has GRANTED, BARGAINED, SOLD, and CONVEYED and by these presents does GRANT, BARGAIN, SELL and CONVEY unto Grantee that certain tract of land located in Houston, Harris County, Texas, being more particularly described on **Exhibit "A"** attached hereto and incorporated herein by reference for all purposes (hereinafter called the "Land"), together with all rights, privileges and appurtenances pertaining to the Land, including Grantor's right, title, and interest in any minerals, utilities, adjacent streets, alleys, strips, gores, and rights-of-way (the Land and the foregoing described rights, privileges, appurtenances, title, and interests are hereinafter sometimes collectively called the "Property").

The special warranty set forth in this Special Warranty Deed (the "Deed") is made by Grantor and accepted by Grantee subject to all matters shown on **Exhibit "B"** attached hereto

and made a part hereof by reference for all purposes (the "Permitted Exceptions"), to the extent, but only to the extent, that the same are valid and subsisting and affect the Property.

TO HAVE AND TO HOLD the Property, subject to the Permitted Exceptions, together with all and singular the rights and appurtenances thereto in anywise belonging, unto Grantee and Grantee's successors and assigns, forever; and Grantor does hereby bind itself and its successors and assigns to WARRANT and FOREVER DEFEND all and singular the Property, subject to the Permitted Exceptions, unto Grantee and Grantee's successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Grantor, but not otherwise.

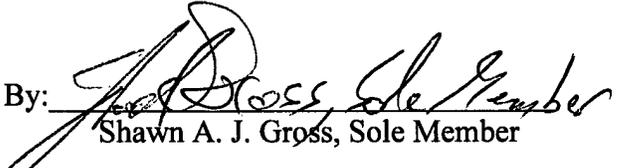
Ad valorem property taxes and assessments for the year 2013 have been prorated between the parties hereto as of the effective date of this Deed, and Grantee hereby assumes liability for the payment thereof.

[signature appears on the following page]

EXECUTED on the date set forth in the notary acknowledgment below, to be effective as of the 25th day of April, 2013.

NORTH POST OAK PARTNERS, L.P.,
a Texas limited partnership

By: SAJG North Post Oak Partners, L.L.C.,
a Texas limited liability company,
its general partner

By: 
Shawn A. J. Gross, Sole Member

Grantees' Address:

NPO 1495, LP
811 Dallas, Suite 1000
Houston, Texas 77002

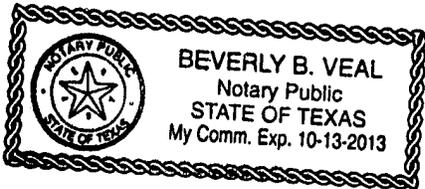
After Recording Return to:

RF 086-82-0199

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

This instrument was acknowledged before me on the 24th day of April, 2013, by Shawn A. J. Gross, Sole Member of SAJG North Post Oak Partners, L.L.C., a Texas limited liability company, sole general partner of NORTH POST OAK PARTNERS, L.P., a Texas limited partnership, on behalf of said entities.

[SEAL]



Beverly B. Veal

Notary Public in and for
The State of Texas

Printed Name of Notary

My Commission Expires: _____

RP 006-02-0200

Exhibit "A"

Description of the Land

All of Unrestricted Reserve "A" of North Post Oak Road at Westview Drive Reserve, City of Houston, Harris County, Texas, according to the plat or map recorded under Film Code No. 626054, Map Records, Harris County, Texas. D

RP 086-82-0201

TRIP 086-82-0202

Exhibit "B"

Permitted Exceptions

RECORDER'S MEMORANDUM:
At the time of recordation, this instrument was found to be inadequate for the best photographic reproduction because of illegibility, carbon or photo copy, discolored paper, etc. All blockouts, additions and changes were present at the time the instrument was filed and recorded.

1. Restrictive covenants recorded under Film Code No. 626054 of the Map Records of Harris County, Texas.
2. Easement containing 0.070 acres of land located at the southeast corner of the Property, as granted to Southwestern Bell Telephone Company by document filed for record under Harris County Clerk's File No. U782389.
3. A Houston Lighting and Power Company easement 50 feet wide, as reflected by instrument recorded in Volume 7105, Page 624 (C667055) of the Deed Records of Harris County, Texas.
4. 25-foot building setback line along the south and east property line as shown on plat recorded under Film Code No. 626054, of the Map Records of Harris County, Texas.
5. Drainage easement 15 feet in width on each side of the center line of all natural drainage courses, as shown per plat recorded under Film Code No. 626054, in the Map Records of Harris County, Texas.
6. Notice of Storm Water Quality Requirements dated December 12, 2012, filed under County Clerk's File No. 20120578515 in the Official Public Records of Real Property of Harris County, Texas.
7. Easement for water meter purposes granted to the City of Houston dated December 12, 2012, filed under County Clerk's File No. 20130010668 in the Official Public Records of Real Property of Harris County, Texas

FILED

2013 APR 26 AM 8:15

Stan Stewart
COUNTY CLERK
HARRIS COUNTY, TEXAS

ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.
THE STATE OF TEXAS
COUNTY OF HARRIS

I hereby certify that this instrument was FILED in File Number Sequence on the date and at the time stamped herein by me, and was duly RECORDED, in the Official Public Records of Real Property of Harris County, Texas.

APR 26 2013



Stan Stewart
COUNTY CLERK
HARRIS COUNTY, TEXAS

0020-28-980-EE

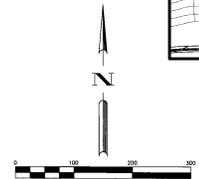
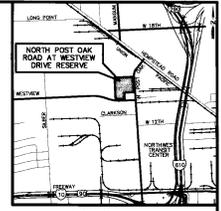
STATE OF TEXAS
COUNTY OF HARRIS

20080497444
10/12/2008 11:21:01 560.00

FILED
10/28/08
COUNTY CLERK
HARRIS COUNTY

LINE DATA			
NUMBER	BEARING	DISTANCE	
L1	N 01° 00' 00" E	1.00'	
L2	N 07° 28' 08" E	0.28'	

CURVE DATA					
NUMBER	RADIUS	DELTA	ARC LENGTH (FT.)	CHORD BEARING	CHORD DISTANCE (FT.)
C1	1004.47	107° 14' 35"	146.95	N 85° 44' 12" W	146.44
C2	1079.47	108° 03' 10"	151.72	N 86° 51' 19" W	151.56



- GENERAL NOTES
- "U.E." indicates "Utility Easement".
 - "B.L." indicates "Building Line".
 - "W.L.E." indicates "Water Line Easement".
 - "W.M.E." indicates "Water Meter Easement".
 - "F.H.E." indicates "Fire Hydrant Easement".
 - "S.S.E." indicates "Sanitary Sewer Easement".
 - "S.M.S.E." indicates "Storm Sewer Easement".
 - "D.E." indicates "Drainage Easement".
 - "A.E." indicates "Aerial Easement".
 - "H.C.C.F." indicates Harris County Clerk's File Number.
 - "H.C.M.R." indicates Harris County Map Records.
 - "H.C.D.R." indicates Harris County Deed Records.
 - "O.P.R.O.R.P." indicates Official Public Records of Real Property.
 - The coordinates shown herein are Texas South Central Zone no. 4204 State Plane Grid (Spheroidal (NAD83)) and may be brought to surface by applying the following combined scale 0.999895415.
 - Unless otherwise indicated, the Building Lines [B.L.], whether one or more shown on this subdivision plat are established to evidence compliance with the applicable provisions of Chapter 42, Code of Ordinances, City of Houston, in effect at the time this plat was approved, which may be amended from time to time.
 - This tract is subject to Chapter 47, Article XII, Division 2, of the City of Houston's Code of Ordinances. Accordingly a Storm Water Quality Permit may need to be obtained before the issuance of any construction permit, so that term is defined in Division 2, for all or part of the tract.
 - Site Drainage Plans for the future development of this reserve must be submitted to the Code Enforcement Division of Planning and Development Department of the City of Houston and/or the Harris County Flood Control District.

By: NORTH POST OAK PARTNERS, L.P., a Texas limited partnership, acting by and through SAJO North Post Oak Partners, L.L.C., a Texas limited liability company, its general partner, represented herein by Showen A.J. Gross, its Sole Member, herein after referred to as Owners of the 12.00 acre tract described in the above and foregoing map of NORTH POST OAK ROAD AT WESTVIEW DRIVE RESERVE, do hereby make and establish said subdivision and development plan of said property according to all laws, dedications, restrictions and notations on said maps of plot and hereby dedicate to the use of the public forever, all streets, except those streets designated as private streets, or permanent access easements), alleys, parks, water courses, drains, easements and public places shown thereon for the purposes and considerations therein expressed, and do hereby bind ourselves, our heirs, successors and assigns to warrant and forever defend the title on the land so dedicated.

FURTHER, Owners have dedicated and by these presents do dedicate to the use of the public for public utility purposes forever unobstructed aerial easements. The aerial easements shall extend horizontally on additional eleven feet, six inches (11' 6") for ten feet (10' 0") perimeter ground easements or seven feet, six inches (7' 6") for fourteen feet (14' 0") perimeter ground easements or five feet, six inches (5' 6") for sixteen feet (16' 0") perimeter ground easements, from a plane sixteen feet (16' 0") above ground level upward, located adjacent to and adjoining said public utility easements that are designed with aerial easements (U.E. and A.E.) as indicated and depicted herein, whereby the aerial easement totals thirty feet (30' 0") in width.

FURTHER, Owners have dedicated and by these presents do dedicate to the use of the public for public utility purpose forever unobstructed aerial easements. The aerial easements shall extend horizontally on additional ten feet (10' 0") for ten feet (10' 0") back-to-back ground easements, or eight feet (8' 0") for fourteen feet (14' 0") back-to-back ground easements or seven feet (7' 0") for sixteen feet (16' 0") back-to-back ground easements, from a plane sixteen feet (16' 0") above ground level upward, located adjacent to both sides and adjoining said public utility easements that are designed with aerial easements (U.E. and A.E.) as indicated and depicted herein, whereby the aerial easement totals thirty feet (30' 0") in width.

FURTHER, Owners do hereby covenant and agree that all of the property within the boundaries of this plot is hereby restricted to prevent the drainage of any septic tanks into any public or private street, permanent access easement, road or alley or any drainage ditch, either directly or indirectly.

FURTHER, Owners do hereby dedicate to the public a strip of land fifteen (15) feet wide on each side of the center line of any and all basins, drains, gutters, ditches, furrows, ditches, or other natural drainage courses located in said plot, as easements for drainage purposes, giving the City of Houston, Harris County, or any other governmental agency, the right to enter upon said easement of any and all lines for the purpose of construction and maintenance of drainage facilities and structures.

FURTHER, Owners do hereby covenant and agree that all of the property within the boundaries of this plot and adjacent to drainage easement, ditch, gutter, drain, or other natural drainage courses shall be restricted to keep such drainage ways and easements clear of garages, buildings, planting and other obstructions to the operations and maintenance of the drainage facility and that such obstructing property shall not be permitted to drain directly into this easement except by means of an approved drainage structure.

IN TESTIMONY WHEREOF, NORTH POST OAK PARTNERS, L.P., a Texas limited partnership, acting by and through SAJO North Post Oak Partners, L.L.C. a Texas limited liability company, its general partner, has caused these presents to be signed by Showen A.J. Gross, its Sole Member, thereto authorized, this 02nd day of August, 2008.

NORTH POST OAK PARTNERS, L.P.,
a Texas limited partnership
By: SAJO North Post Oak Partners, L.L.C.
a Texas limited liability company,
its general partner
By: *Showen A.J. Gross*
Showen A.J. Gross, Sole Member

BEFORE ME, the undersigned authority, on this day personally appeared Showen A.J. Gross, Sole Member of SAJO North Post Oak Partners, L.L.C. a Texas limited liability company, its general partner of NORTH POST OAK PARTNERS, L.P., a Texas limited partnership, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and content therein expressed and in the capacity therein and herein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 08 day of August, 2008.
Caroline Clark Strocher
Notary Public in and for the State of TEXAS
Commission Expires: May 29, 2011



I, Paul A. Jurico, Jr., am registered under the laws of the State of Texas to practice the profession of surveying and hereby certify that the above subdivision is true and correct, was prepared from an actual survey of the property made under my supervision on the ground; that all boundary corners, angle points, points of curvature and other points of reference have been marked with iron (or other suitable permanent metal) pipes or rods have on outside diameter not less than three quarter (3/4) inch and a length of not less than three (3) feet; and that the plot boundary corners have been tied to the nearest survey corner.
7-25-08
Paul A. Jurico, Jr.
Texas Registration No. 4264



This is to certify that the Houston Planning Commission of the City of Houston, Texas has approved this plat and subdivision of NORTH POST OAK ROAD AT WESTVIEW DRIVE RESERVE, in conformance with the laws of the State of Texas and the ordinances of the City of Houston as shown hereon and authorized the recording of this plat this 26th day of Sept, 2008.

By: *Carol A. Lewis*
Carol A. Lewis Ph.D. CA
Vice Chair



By: *Martine C. Caprice*
Martine C. Caprice
Secretary

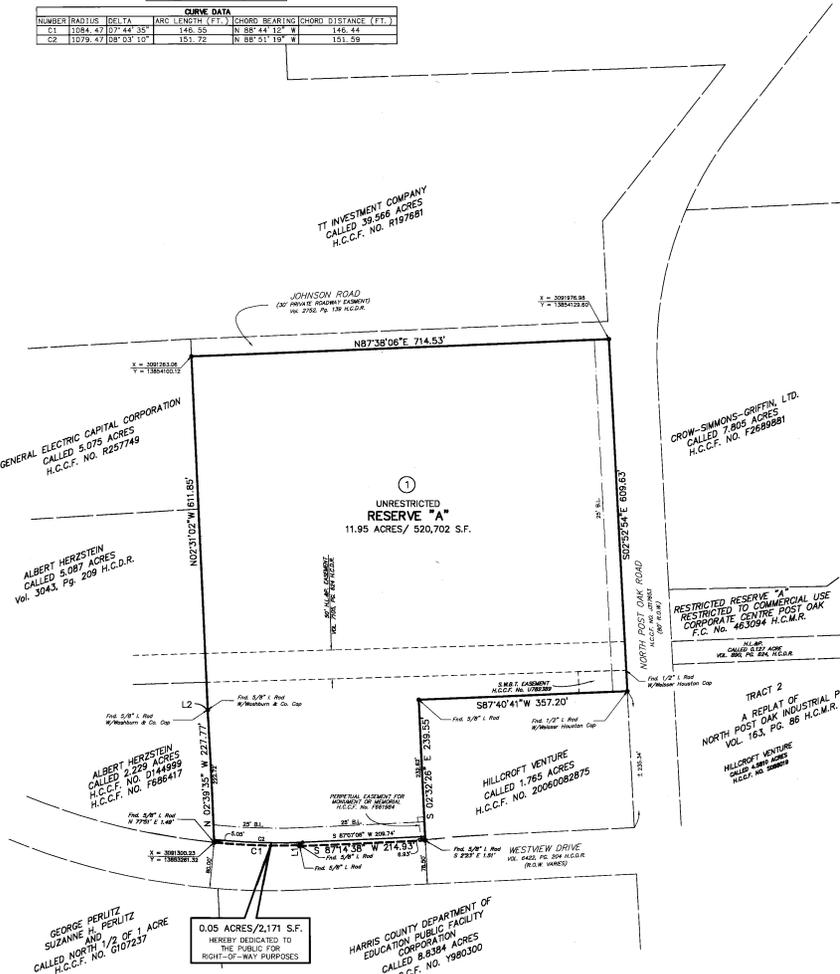
I, Beverly B. Kaufman, County Clerk of Harris County, do hereby certify that the within instrument with its certificate of authentication was filed for registration in my office on Oct. 1, 2008, at 10:28 o'clock, A.M., and duly recorded on Oct. 1, 2008 at 3:04 o'clock, P.M. and at Film Code No. 1026054, of the Map Records of Harris County for said County.
Witness my hand and seal of office, at Houston, the day and date last above written.

BEVERLY B. KAUFMAN
Beverly B. Kaufman
County Clerk,
Harris County, Texas

By: *Edward V. Moore*
Edward V. Moore
Deputy



THIS CERTIFICATE IS VALID ONLY AS TO THE INSTRUMENT ON WHICH THE ORIGINAL SIGNATURE IS MADE AND ONLY TO THE EXTENT THAT SUCH INSTRUMENT IS NOT ALTERED OR CHANGED AFTER RECORDING.
ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.



NORTH POST OAK ROAD AT WESTVIEW DRIVE RESERVE

A SUBDIVISION OF 12.00 ACRES OF LAND LOCATED IN THE JAMES WHARTON SURVEY, ABSTRACT-871 CITY OF HOUSTON HARRIS COUNTY, TEXAS

LOTS: 0 RESERVES: 1 BLOCKS: 1
SCALE: 1"=100' DATE: JULY, 2008

OWNER: NORTH POST OAK PARTNERS, L.P., A TEXAS LIMITED LIABILITY COMPANY, 8700 SOUTH POST OAK BOULEVARD HOUSTON, TX 77066 713-867-3350



Brown & Gay Engineers, Inc.
10777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-558-8700 Fax: 281-558-8701
Civil engineers and surveyors

RECORDER'S REMARKS:
At the time of recording, the instrument was found to be identical to the prior instrument. No reproduction issues of illegibility, errors or omissions were detected upon the instrument. No changes were present at the time the instrument was filed and recorded.

OFFICE OF BEVERLY B. KAUFMAN
COUNTY CLERK, HARRIS COUNTY, TEXAS
MAP RECORDS OF COUNTY CLERK
626054
FILM CODE
NORTH POST OAK ROAD AT WESTVIEW DRIVE RESERVE
THIS IS PAGE 1 OF 2 PAGES
SCANNER KM-4850w
KEY MAP

9/08/2008
NCR
SPRING BRANCH ISD TAX OFFICE
8880 WESTVIEW
P. O. BOX 19037
HOUSTON TX 77224
713-365-5590 FAX 713-365-5593

9/08/2008
NCR
SPRING BRANCH ISD TAX OFFICE
8880 WESTVIEW
P. O. BOX 19037
HOUSTON TX 77224
713-365-5590 FAX 713-365-5593

9/08/2008
NCR
SPRING BRANCH ISD TAX OFFICE
8880 WESTVIEW
P. O. BOX 19037
HOUSTON TX 77224
713-365-5590 FAX 713-365-5593

TAX CERTIFICATE FEE 10.00

ACCOUNT: 045-175-002-0415
OWNER NAME & ADDRESS
NORTH POST OAK PINES LP
2700 POST OAK PINES STE 2450
HOUSTON TX 77056-0000

CERTIFICATE NUMBER: 1,288
LEGAL DESCRIPTION
TR 2A-1
ABST 871 J WHARTON

2.0003 ACRES
6050 WESTVIEW DR

NO DELINQUENT TAXES ARE DUE.

JURIS = TAXING ENTITY CODES:
25 SPRING BRANCH ISD

The 2008 current year taxes have not been calculated as of 09/08/2008

THE 2007 TAXES: 10,416.13 PAID ON:01/31/2008
CURRENT TAX ROLL MARKET VALUE: 810,954

THIS IS TO CERTIFY THAT AFTER A CAREFUL CHECK OF THE TAX RECORDS, ALL TAXES DUE THE TAX ASSESSOR COLLECTOR OF SPRING BRANCH ISD ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN PAID UP TO AND INCLUDING 2007 WITH THE ABOVE LISTED EXCEPTIONS.

ISSUED TO - BROWN & GAY ENGINEERS INC LOAN/GF NUMBER -

AUTHORIZED AGENT: LAURIE PAYTON TAX ASSESSOR COLLECTOR SPRING BRANCH ISD

SIGNED BY: *La Payton / Mc* DATE: 9/8/08
THIS CERTIFICATE DOES NOT CLEAR ABUSE OF GRANTED EXEMPTIONS AS DEFINED IN SECTION 11.43 PARAGRAPH (1) OF THE TEXAS PROPERTY TAX CODE.

TAX CERTIFICATE FEE 10.00

ACCOUNT: 045-175-002-0040
OWNER NAME & ADDRESS
NORTH POST OAK PINES LP
2700 POST OAK BLVD STE 2450
HOUSTON TX 77056-5713

CERTIFICATE NUMBER: 1,289
LEGAL DESCRIPTION
TR 7 & 7A
ABST 871 J WHARTON

1.9670 ACRES
6050 WESTVIEW DR

NO DELINQUENT TAXES ARE DUE.

JURIS = TAXING ENTITY CODES:
25 SPRING BRANCH ISD

The 2008 current year taxes have not been calculated as of 09/08/2008

THE 2007 TAXES: 8,811.40 PAID ON:01/31/2008
CURRENT TAX ROLL MARKET VALUE: 685,868

THIS IS TO CERTIFY THAT AFTER A CAREFUL CHECK OF THE TAX RECORDS, ALL TAXES DUE THE TAX ASSESSOR COLLECTOR OF SPRING BRANCH ISD ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN PAID UP TO AND INCLUDING 2007 WITH THE ABOVE LISTED EXCEPTIONS.

ISSUED TO - BROWN & GAY ENGINEERS INC LOAN/GF NUMBER -

AUTHORIZED AGENT: LAURIE PAYTON TAX ASSESSOR COLLECTOR SPRING BRANCH ISD

SIGNED BY: *La Payton / Mc* DATE: 9/8/08
THIS CERTIFICATE DOES NOT CLEAR ABUSE OF GRANTED EXEMPTIONS AS DEFINED IN SECTION 11.43 PARAGRAPH (1) OF THE TEXAS PROPERTY TAX CODE.

TAX CERTIFICATE FEE 10.00

ACCOUNT: 045-175-002-0009
OWNER NAME & ADDRESS
NORTH POST OAK PINES LP
2700 POST OAK BLVD STE 2450
HOUSTON TX 77056-5713

CERTIFICATE NUMBER: 1,287
LEGAL DESCRIPTION
TR 2A
ABST 871 J WHARTON

8.0220 ACRES
1495 POST OAK BLVD

NO DELINQUENT TAXES ARE DUE.

JURIS = TAXING ENTITY CODES:
25 SPRING BRANCH ISD

The 2008 current year taxes have not been calculated as of 09/08/2008

THE 2007 TAXES: 25,057.50 PAID ON:01/31/2008
CURRENT TAX ROLL MARKET VALUE: 1,950,000

THIS IS TO CERTIFY THAT AFTER A CAREFUL CHECK OF THE TAX RECORDS, ALL TAXES DUE THE TAX ASSESSOR COLLECTOR OF SPRING BRANCH ISD ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN PAID UP TO AND INCLUDING 2007 WITH THE ABOVE LISTED EXCEPTIONS.

ISSUED TO - BROWN & GAY ENGINEERS INC LOAN/GF NUMBER -

AUTHORIZED AGENT: LAURIE PAYTON TAX ASSESSOR COLLECTOR SPRING BRANCH ISD

SIGNED BY: *La Payton / Mc* DATE: 9/8/08
THIS CERTIFICATE DOES NOT CLEAR ABUSE OF GRANTED EXEMPTIONS AS DEFINED IN SECTION 11.43 PARAGRAPH (1) OF THE TEXAS PROPERTY TAX CODE.

TAX CERTIFICATE

PAUL BETTENCOURT
HARRIS COUNTY TAX ASSESSOR-COLLECTOR
1801 PRESTON AVE., SUITE 100
HOUSTON, TEXAS 77002

Issued To:
NORTH POST OAK PINES LP
2700 POST OAK BLVD STE 2450
HOUSTON, TX 77056-5713

Legal Description:
TR 2A
ABST 871 J WHARTON

Account Number: 045-175-002-0009
Certificate No: 10997182
Certificate Fee: \$10.00

Parcel Address: 1405 POST OAK BLVD
Legal Acres: 8.0220
Print Date: 09/08/2008
Paid Date: 09/08/2008
Issue Date: 09/08/2008
Operator ID: KBABDA

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 24.15 OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2007. TAXES THAT 2007 ARE PAID IN FULL. TAXES HAVE NOT BEEN CALCULATED FOR YEARS: 2008.

Exemptions:

Certified Owner:

NORTH POST OAK PINES LP
2700 POST OAK BLVD STE 2450
HOUSTON, TX 77056-5713

Certified Tax Units:

- 40 Harris County
- 41 Harris County Flood Control Dist
- 42 Port of Houston Authority
- 43 Harris County Hospital District
- 44 Harris County Dist. of Education
- 61 City of Houston

2007 Value: \$1,950,000.00
2007 Levy: \$24,951.25
2007 Levy Balance: \$0.00
Prior Year Levy Balance: \$0.00
Total Levy Due: \$0.00
PAI + Attorney Fee: \$0.00
Total Amount Due: \$0.00

Reference (C) No: N/A
Issued By: *Paul Bettencourt*
PAUL BETTENCOURT
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent tax certificate #0149

TAX CERTIFICATE

PAUL BETTENCOURT
HARRIS COUNTY TAX ASSESSOR-COLLECTOR
1801 PRESTON AVE., SUITE 100
HOUSTON, TEXAS 77002

Issued To:
NORTH POST OAK PINES LP
2700 POST OAK PINES STE 2450
HOUSTON, TX 77056

Legal Description:
TR 2A-1
ABST 871 J WHARTON

Parcel Address: 6050 WESTVIEW DR

Legal Acres: 2.0003

Print Date: 09/08/2008

Paid Date: 09/08/2008

Issue Date: 09/08/2008

Operator ID: KBABDA

Account Number: 045-175-002-0415
Certificate No: 10997182
Certificate Fee: \$10.00

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 24.15 OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2007. TAXES THAT 2007 ARE PAID IN FULL. TAXES HAVE NOT BEEN CALCULATED FOR YEARS: 2008.

Exemptions:

Certified Owner:

NORTH POST OAK PINES LP
2700 POST OAK PINES STE 2450
HOUSTON, TX 77056

Certified Tax Units:

- 40 Harris County
- 41 Harris County Flood Control Dist
- 42 Port of Houston Authority
- 43 Harris County Hospital District
- 44 Harris County Dist. of Education
- 61 City of Houston

2007 Value: \$810,954.00
2007 Levy: \$10,172.22
2007 Levy Balance: \$0.00
Prior Year Levy Balance: \$0.00
Total Levy Due: \$0.00
PAI + Attorney Fee: \$0.00
Total Amount Due: \$0.00

Reference (C) No: N/A
Issued By: *Paul Bettencourt*
PAUL BETTENCOURT
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent tax certificate #0149

TAX CERTIFICATE

PAUL BETTENCOURT
HARRIS COUNTY TAX ASSESSOR-COLLECTOR
1801 PRESTON AVE., SUITE 100
HOUSTON, TEXAS 77002

Issued To:
NORTH POST OAK PINES LP
2700 POST OAK BLVD STE 2450
HOUSTON, TX 77056-5713

Legal Description:
TR 7 & 7A
ABST 871 J WHARTON

Parcel Address: 6050 WESTVIEW DR

Legal Acres: 1.9670

Print Date: 09/08/2008

Paid Date: 09/08/2008

Issue Date: 09/08/2008

Operator ID: KBABDA

Account Number: 045-175-002-0040
Certificate No: 10997182
Certificate Fee: \$10.00

TAX CERTIFICATES ARE ISSUED WITH THE MOST CURRENT INFORMATION AVAILABLE. ALL ACCOUNTS ARE SUBJECT TO CHANGE PER SECTION 24.15 OF THE TEXAS PROPERTY TAX CODE. THIS IS TO CERTIFY THAT ALL TAXES DUE ON THE ABOVE DESCRIBED PROPERTY HAVE BEEN EXAMINED, UP TO AND INCLUDING THE YEAR 2007. TAXES THAT 2007 ARE PAID IN FULL. TAXES HAVE NOT BEEN CALCULATED FOR YEARS: 2008.

Exemptions:

Certified Owner:

NORTH POST OAK PINES LP
2700 POST OAK BLVD STE 2450
HOUSTON, TX 77056-5713

Certified Tax Units:

- 40 Harris County
- 41 Harris County Flood Control Dist
- 42 Port of Houston Authority
- 43 Harris County Hospital District
- 44 Harris County Dist. of Education
- 61 City of Houston

2007 Value: \$685,868.00
2007 Levy: \$8,776.25
2007 Levy Balance: \$0.00
Prior Year Levy Balance: \$0.00
Total Levy Due: \$0.00
PAI + Attorney Fee: \$0.00
Total Amount Due: \$0.00

Reference (C) No: N/A
Issued By: *Paul Bettencourt*
PAUL BETTENCOURT
HARRIS COUNTY TAX ASSESSOR-COLLECTOR

Delinquent tax certificate #0149

WTS
4400
U

✓✓

AFTER RECORDING:
HOLD FOR
CHARTER TITLE COMPANY
GF 103200/241
Closer WSB

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

2496054
08/02/06 101201304

\$44.00

SPECIAL WARRANTY DEED WITH VENDOR'S LIEN

THE STATE OF TEXAS §
 § KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF HARRIS §

KIRKSEY, L.P., a Texas limited partnership, and HAMMAN, L.P., a Texas limited partnership (collectively "Grantors"), for and in consideration of the sum of TEN DOLLARS (\$10.00) and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, have GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents do GRANT, BARGAIN, SELL and CONVEY unto NORTH POST OAK PARTNERS, L.P., a Texas limited partnership (as to an undivided 90 percent interest), and ABZ HOLDINGS, LTD., a Texas limited partnership (as to an undivided 10 percent interest) (collectively, "Grantees"), that certain tract of land in Harris County, Texas, described in Exhibit "A" attached hereto and made a part hereof for all purposes;

all

TOGETHER WITH, all and singular, the rights, benefits, privileges, easements, tenements, hereditaments, appurtenances and interests thereon or in anywise appertaining thereto and with all improvements located thereon (said land, rights, benefits, privileges, easements, tenements, hereditaments, appurtenances, improvements and interests being hereinafter referred to as the "Property").

For the same consideration recited above, Grantors hereby BARGAIN, SELL and CONVEY, without warranty, express or implied, all interest, if any, of Grantors in (i) strips or gores, if any, between the Property and abutting or immediately adjacent properties, (ii) any land lying in or under the bed of any street, alley, road or right-of-way, opened or proposed, abutting or immediately adjacent to the Property; (iii) any minerals, utilities, utility commitments, utility capacity, development rights, licenses, and permits related to the Property; and (iv) Grantors' rights in and to any causes of action for existing damage caused by third parties to any of the land and improvements thereon.

Of the consideration hereinabove recited, the sum of Two Million One Hundred Thousand and No/100ths Dollars (\$2,100,000.00) has been loaned to Grantee North Post Oak Partners, L.P., by North Houston Bank ("Mortgagee"), upon the express promise of Grantee North Post Oak Partners, L.P., to repay Mortgagee said sum with interest thereon, as evidenced by a certain promissory note (the "Note") executed by Grantee North Post Oak Partners, L.P.,

assn
lll
llor

025-50-0535

376672-5

OTHERWISE EXPRESSLY SET OUT IN THE CONTRACT AND IN THIS DEED, GRANTORS HAVE NOT MADE, DO NOT MAKE AND SPECIFICALLY NEGATE AND DISCLAIM ANY REPRESENTATIONS OR WARRANTIES REGARDING COMPLIANCE OF THE PROPERTY WITH ANY ENVIRONMENTAL PROTECTION OR LAND USE LAWS, RULES OR REGULATIONS, ORDERS OR REQUIREMENTS, INCLUDING, WITHOUT LIMITATION, THOSE PERTAINING TO SOLID WASTE, AS DEFINED BY U.S. ENVIRONMENTAL PROTECTION AGENCY REGULATIONS AT 40 C.F.R., PART 261, OR THE DISPOSAL OR EXISTENCE IN OR ON THE PROPERTY, OF ANY HAZARDOUS SUBSTANCES AS DEFINED BY THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT OF 1980, AS AMENDED, AND THE REGULATIONS PROMULGATED THEREUNDER. GRANTEES REPRESENT TO GRANTORS THAT GRANTEES HAVE RELIED SOLELY UPON THEIR OWN INVESTIGATIONS, INSPECTIONS AND STUDIES OF THE PROPERTY, AND NOT ON ANY INFORMATION PROVIDED OR TO BE PROVIDED BY GRANTORS, GRANTORS' RESPECTIVE AGENTS OR CONTRACTORS OR OTHERWISE GENERATED FROM THIRD-PARTY SOURCES. GRANTORS SHALL NOT BE LIABLE OR BOUND IN ANY MANNER BY ANY VERBAL OR WRITTEN STATEMENTS, REPRESENTATIONS OR INFORMATION PERTAINING TO THE PROPERTY OR THE OPERATION THEREOF FURNISHED BY ANY PARTY PURPORTING TO ACT ON BEHALF OF GRANTORS.

To secure the payment of the Note, Grantors hereby retain a vendor's lien and superior title against the Property and all rights and appurtenances thereto until the Note and all interest thereon are fully paid and satisfied according to its face, tenor, effect and reading, and Grantors, for value received from Mortgagee as recited above, do hereby TRANSFER, ASSIGN, AND SET OVER, without recourse, unto Mortgagee, its successors and assigns, said Vendor's Lien, retained to secure the Note together with the superior title remaining in Grantors.

Taxes for the current year have been prorated as of the date hereof, and Grantees hereby assume the payment of such taxes.

[signatures appear on the following page]

COPY

(4)
JK

GRANTORS:

KIRKSEY, L.P.
a Texas limited partnership

By: Kirksey GP, LLC,
its sole general partner

By: 
John M. Kirksey, Manager

HAMMAN, L.P.
a Texas limited partnership

By: Hamman GP, LLC,
its sole general partner

By: 
Henry R. Hamman, Manager

JK

Grantees' Mailing Addresses:

North Post Oak Partners, L.P.
2700 Post Oak Boulevard, Suite 2450
Houston, Texas 77056

ABZ Holdings, Ltd.
c/o Susholtz Investments
3834 Spicewood Springs Road, Suite 202
Austin, Texas 78759-8978

After recording, return to:

Lee D. Schlanger
Schlanger, Silver, Barg & Paine, L.L.P.
109 North Post Oak Lane, Suite 300
Houston, Texas 77024

UNOFFICIAL

88 00-00-528 14

STATE OF TEXAS

COUNTY OF HARRIS

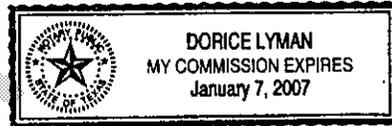
} SS

Before me, the undersigned officer, on this day personally appeared John M. Kirksey, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as Manager of Kirksey GP, LLC, a Texas limited liability company, general partner of **KIRKSEY, L.P.**, a Texas limited partnership, as the act of said limited partnership and for the purposes and consideration therein expressed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official seal at this 31st day of July, 2006.

Dorice Lyman

Notary Public, in and for the State of Texas



STATE OF TEXAS

COUNTY OF HARRIS

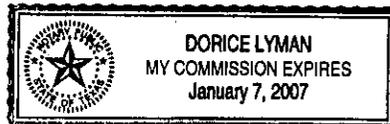
} SS

Before me, the undersigned officer, on this day personally appeared Henry R. Hamman, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as Manager of Hamman GP, LLC, a Texas limited liability company, general partner of **HAMMAN, L.P.**, a Texas limited partnership, as the act of said limited partnership and for the purposes and consideration therein expressed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official seal at this 31st day of July, 2006.

Dorice Lyman

Notary Public, in and for the State of Texas



2006-07-31 10:58:23 AM

EXHIBIT "A"

Legal Description of the Property

A fieldnote description of a tract of land located in Harris County, Texas, situated in the James Wharton Survey, Abstract No. 871, being 2 Tracts of land, Tract 1: being called 10.022-acre tract as recorded under Clerk's File No. L-732962 of the said County Real Property Records, Save & Except that certain called 2.00-acre tract as recorded under Clerk's File No. M-683617 of the said Property Records; Tract 2: being that certain called 1.9766-acre tract as recorded under Clerk's File Nos. F-193870 and F-193871 of the said Property Records and that certain said called 2.0000-acre tract as recorded under Clerk's File No. M-638617 of the said Property Records, said tract being more particularly described by metes and bounds as follows:

BEGINNING at a ¼-inch iron rod found for the South common corner of that certain called 1.765-acre tract as recorded under Clerk's File No. K-621046 of the said Property Records and said 1.9766-acre tract, said point on the North right-of-way line of Westview Drive;

THENCE, South 89° 24' 08" West, along said North line, a distance of 214.73 feet to a ¼-inch iron rod found for corner;

THENCE, North 01° 08' 41" East, along said North line, a distance of 1.47 feet to a 5/8-inch iron rod found for of curvature;

THENCE, in a westerly direction along said North line following the arc of a curve to the right with a radius distance of 1084.47 feet, a central angle of 07° 44' 32", a long chord bearing North 86° 34' 43" West, 146.43 feet and a total arc length of 146.54 feet to a 5/8-inch iron rod found for corner;

THENCE, North 00° 45' 49" West (call North 00° 03' 18" West), along the East line of that certain tract recorded under Clerk's File No. F-686417 of the said Property Records, a distance of 227.81 feet (call 277.75-feet) a 5/8 inch iron rod with cap found for corner;

THENCE, North 89° 04' 14" East (call North 89° 24' 03" East), along the North line of said F-686417, a distance of 0.14 feet (call 0.28-feet) to a 5/8-inch iron rod found for corner;

THENCE, North 00° 38' 45" West (Call North 00° 25' 04" West), along the East line of that certain tract recorded under Clerk's File No. D-144999 of the said Property Records, a distance of 302.50 (call 301.22-feet) to a ½-inch iron rod with cap set for an angle point;

THENCE, North 00° 19' 29" West, along the East line of that certain tract recorded under Clerk's File No. R-257749 of the said Property Records, a distance of 309.95 feet to a ½-inch iron rod with a cap set for corner on the South right-of-way line of Johnson Road (30-foot wide private street);

HP 025-60-06-20

THENCE, North 89° 46' 31" East, along said South line, a distance of 714.56 feet (call 713.76-foot) to a ½-inch iron rod with cap set for corner on the intersection of the West right-of-way line of North Post Oak Road (R.O.W. Varies) and said South line;

THENCE, South 00° 44' 29" East, along said West line, a distance of 609.75 feet (call 609.7-foot) to a ½-inch iron rod with cap found for corner;

THENCE, South 89° 57' 14" West, along the North line of said 1.765-acre tract, a distance of 356.15 feet to a 5/8-inch iron rod found for corner;

THENCE, South 00° 37' 28" East (call South 00° 20' 00 East), along the West line of said 1.765-acre tract, a distance of 241.03 feet (call 239.50-foot) to the POINT OF BEGINNING and containing 12.004-acres of land more or less as shown in File No. 15-5024-02 in the office of U. S. Surveying Company, Inc., Houston, Texas.

376672-5

EXHIBIT "B"

Permitted Encumbrances

- a. Easement containing 0.070 acres of land located at the southeast corner of the Property, as granted to Southwestern Bell Telephone Company by document filed for record under Harris County Clerk's File No. U782389 [as to the 10.022-acre tract].
- b. 25 foot building line along the east property line established by City of Houston Ordinance No. 85-1878 as reflected on survey dated April 7, 2006, prepared by C. N. Fauquier, R.P.L.S. No. 4372 [as to the 10.022-acre tract].
- c. Restrictive covenants recorded in/under Clerk's File No. V490492 of the Real Property Records of Harris County [as to the 1.976-acre tract].
- d. A pipeline right-of-way and easement 10 feet in width over and across the subject tract, being granted to South Texas Equipment Company, Inc. by instrument recorded under Clerk's File No. M638618 of the Real Property Records of Harris County, Texas [as to the 1.976-acre tract].
- e. Easement for Monument or Memorial of Irregular width located and described in instrument recorded under Clerk's File No. F661984 of the Real Property Records of Harris County, Texas [as to the 1.976-acre tract].
- f. A Houston Lighting and Power Company easement 50 feet wide, as reflected by instrument recorded in Volume 7105, Page 624 of the Deed Records of Harris County, Texas [both tracts].

24-00-00-520 RR

ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW THE STATE OF TEXAS COUNTY OF HARRIS
 I hereby certify that this instrument was FILED in file number Sequence on the date and at the time stamped hereon by me, and was duly RECORDED. In the Official Public Records of Real Property of Harris County Texas on

AUG - 2 2006



Dorely B. Keyman
 COUNTY CLERK
 HARRIS COUNTY TEXAS

Dorely B. Keyman
 COUNTY CLERK
 HARRIS COUNTY, TEXAS

2006 AUG - 2 AM 10: 05

FILED

WSP

R197681

502-17-2852

SPECIAL WARRANTY DEED

12/19/94 000062610 R197681 \$16.00

STATE OF TEXAS
COUNTY OF HARRIS

§
§
§

KNOW ALL MEN BY THESE PRESENTS:

That ARMCO INC., an Ohio corporation (hereinafter called "Grantor"), for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to Grantor by TE Investment Company (hereinafter called "Grantee"), the receipt and sufficiency of which is hereby acknowledged, has GRANTED, BARGAINED, SOLD and CONVEYED and by these presents does hereby GRANT, BARGAIN, SELL, and CONVEY unto Grantee all of the following:

(i) the real property situated in Harris County, Texas described in Exhibit A attached hereto and incorporated herein for all purposes (the "Land");

(ii) all buildings, fixtures, and other improvements installed or located on the Land (the "Improvements");

(iii) all rights, titles and interests, if any, of Grantor in and to (i) all strips or gores, if any, lying adjacent to the Land, (ii) any land lying in or under the bed of any street, road, alley, or right-of-way, open or proposed, adjacent to the Land, (iii) all easements within, abutting or adjacent to the Land [including but not limited to that certain private roadway easement created by instrument dated March 24, 1954, recorded in Volume 2752, Page 139 of the Deed Records of Harris County, Texas (the "Roadway Easement")], and (iv) all other rights, privileges and appurtenances in any way related to or benefitting the Land (the "Rights and Appurtenances"); and

(iv) all of Grantor's right, title and interest in all intangible property pertaining to the Improvements or the Land or the use thereof, including, without limitation, all wastewater capacity, drainage capacity, water capacity and other utility capacity relating to the Improvements or the Land; and all reservations of, commitments for, and letters covering any such capacity, whether or not the same are being currently used to the fullest extent available (collectively, the "Intangible Property").

(the Land, Improvements, Rights and Appurtenances and Intangible Property are collectively called the "Property"), subject to general real estate taxes on the Property for the current year, zoning laws, regulations and ordinances of municipal and other governmental authorities, if any, affecting the Property (to the extent affecting title to the Property) and all the encumbrances described in Exhibit B attached hereto and made a part hereof (all of the foregoing are hereinafter called the "Permitted Encumbrances").

16
c

502-17-2853

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereto in anywise belonging unto Grantee, its successors and assigns forever, and Grantor does hereby bind itself and its successors and assigns to WARRANT AND FOREVER DEFEND all and singular, the Property, unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming, or to claim the same, or any part thereof by, through or under Grantor, but not otherwise.

Current ad valorem taxes on the Property having been prorated, and Grantee hereby assumes the payment thereof.

The address of Grantee is: 1503 North Post Oak Road, Houston, Texas 77055.

IN WITNESS WHEREOF, this Special Warranty Deed is executed by Grantor this 16th day of December, 1994.

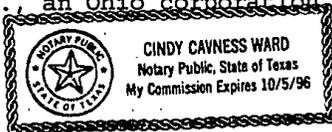
GRANTOR:

ARMCO INC.

By: John B. Corey
Name: John B. Corey
Title: Vice President

STATE OF TEXAS S
 S
COUNTY OF HARRIS S

The foregoing instrument was acknowledged before me this 16th day of December, 1994, by John B. Corey, Vice President of ARMCO INC., an Ohio corporation, on behalf of said corporation.



Cindy Cavness Ward
Notary Public

After recording, please return to:

Lee E. Herman
Hirsch & Westheimer, P.C.
700 Louisiana, 25th Floor
Houston, Texas 77002

502-17-2854

EXHIBIT "A"

LEGAL DESCRIPTION

Field notes for 39.566 acres of land as described in deed from Tex-Tube, Inc. to Detroit Steel Corporation dated May 21, 1964, recorded in Volume 5526, Page 306, Harris County Deed Records, in the James Wharton Survey, Abstract 871 and the John Reinerman Survey, Abstract 642, Harris County, Texas. D

BEGINNING at a 5/8 inch iron rod found marking the intersection of the original west line of North Post Oak Road, a 80-foot right-of-way, and the north line of a 30-foot private road easement between the herein described tract and the South Texas Equipment Co., Inc. tract; said point being the Southeast corner of the herein described tract;

THENCE N 89 deg. 53 min. 25 sec. W, following a chain link fence, along the north line of the South Texas Equipment Co., Inc. tract, 714.31 feet to a 1/2 inch iron rod found for an angle point;

THENCE S 89 deg. 12 min. 07 sec. W, following a chain link fence, along the north line of the Holland Mortgage & Investment Corp. tract, 748.24 feet to a 1/2 inch iron rod found for the Southwest corner of the herein described tract;

THENCE N 0 deg. 26 min. 34 sec. W, following a chain link fence, along the east line of Westview Terrace Section One recorded in Volume 27, Page 17, Harris County Map Records, 453.00 feet to a "X" mark set on top of a concrete headwall for an angle point;

THENCE N 0 deg. 19 min. 13 sec. E, following a chain link fence, along the east line of said Westview Terrace Section One and Westview Terrace Section Two recorded in Volume 30, Page 34, Harris County Map Records, 1169.85 feet to an old fence post found for the Northwest corner of the herein described tract;

THENCE S 89 deg. 36 min. 56 sec. E, following a chain link fence, along the south line of the P & S Rice Mills, Inc. tract, 608.00 feet to a 1/2 inch iron rod set in the southwest line of the 100-foot Southern Pacific Railroad right-of-way (also known as the H. & T.C. RR. Co.) for corner;

THENCE S 49 deg. 22 min. 25 sec. E, along the southwest line of said railroad easement, 427.67 feet to a 1/2 inch iron rod set for corner; said point being the Northwest corner of the Electro Welding Co., Inc. tract;

502-17-2855

THENCE S 0 deg. 07 min. 46 sec. W, along the west line of the Electro Welding Co., Inc. tract, 890.80 feet to a 1/2 inch iron rod set for corner; said point being the southwest corner of the Henry Reinerman Survey, Abstract 644 and an interior corner of the James Wharton Survey, Abstract 871;

THENCE S 89 deg. 18 min. 05 sec. E, following a graded private road as described in a certain 25-foot private roadway easement recorded in Volume 2752, Page 139, Harris County Deed Records, along the south line of said Electro Welding Co., Inc. tract and the Koomey Inc. tract, at 220.00 feet pass an old 1 inch pinched top iron pipe (bent) found marking the southeast corner of said Electro Welding Co., Inc. tract, in all a distance of 556.20 feet to an old 60p nail found marking the northeast corner of the James Wharton Survey, Abstract 871 and the northwest corner of the John Reinerman Survey, Abstract 642 for an angle point;

THENCE S 89 deg. 37 min. 38 sec. E, along the south line of the J. A. Lunsford tract, 192.96 feet to a 1/2 inch iron rod set in the original west line of North Post Oak Road for corner;

THENCE S 40 deg. 32 min. 46 sec. W, along the original west line of North Post Oak Road, 338.80 feet to a 3/4 inch iron pipe found for corner marking an angle point of the original west line of said road;

THENCE South, along the original west line of North Post Oak Road, 174.94 feet to the Place of Beginning and containing 39.566 acres of land.

502-17-2856

Exhibit B

An easement of undetermined width located near the northeast property line granted to Southwestern Bell Telephone Company by instrument dated January 3, 1942 recorded in Volume 1227 Page 359 of the Deed Records of Harris County, Texas and instrument dated March 4, 1942 recorded in Volume 1244 Page 100 of the Deed Records of Harris County, Texas.

An easement 30 feet wide along the south 453.00 feet of the west property line granted to Harris County Flood Control District by instrument dated September 27, 1949 recorded in Volume 2057 Page 627 of the Deed Records of Harris County, Texas (the "HCFCD Easement").

An easement 10 feet wide along the northerly 1169.85 feet of the west property line, with the right to cast excavated soil on the adjoining property, granted to Harris County Flood Control District by instrument dated October 13, 1949 recorded in Volume 2016 Page 560 of the Deed Records of Harris County, Texas.

Railroad spur track easement 17 feet wide as described in instrument dated August 31, 1953 recorded in Volume 2655 Page 283 of the Deed Records of Harris County, Texas.

Private roadway easement 15 feet wide along the most easterly north property line, being the south 15 feet of a 25-foot wide easement, as set forth in instrument dated March 24, 1954 recorded in Volume 2752 Page 139 of the Deed Records of Harris County, Texas.

Option to construct a spur track easement as set forth in instrument dated April 2, 1956 recorded in Volume 3132 Page 363 of the Deed Records of Harris County, Texas.

An easement for railroad purposes containing 0.014 acre, located across the northeast corner of the north 24.04 acres of subject property, granted to the Texas and New Orleans Railroad Company by instrument dated August 8, 1957 recorded in Volume 3396 Page 406 of the Deed Records of Harris County, Texas.

An easement 20 feet wide for railroad purposes granted to the Texas and New Orleans Railroad Company by deed dated June 8, 1960 recorded in Volume 4090 Page 433 of the Deed Records of Harris County, Texas.

502-17-2857

Notice by the City of Houston of Ordinance for improvement of North Post Oak Road, and assessing costs against abutting property, filed for record January 11, 1984 under Clerk's File No. J 317648, as amended by instrument filed for record May 31, 1984 under Clerk's File No. J 531553 of the Official Public Records of Real Property of Harris County, Texas.

The following item(s) reflected on survey prepared by Paul P. Kwan, R.P.L.S. No. 4313 dated July 9, 1986 last updated December 14, 1994 (the "Survey")

- (a) Protrusion of metal building into the HCFCO Easement.
- (b) Power poles, down guys, inlets and fences located east of the west property line, and north of the south property line.

Easement granted to Southwestern Bell Telephone Company by instrument dated January 7, 1942 recorded in Volume 1227, Page 359 of the Deed Records of Harris County, Texas.

Utility easement 10 feet wide along the south line of Tract II of the Survey, as set forth in instrument dated June 30, 1948 recorded in Volume 1790, Page 691 of the Deed Records of Harris County, Texas.

Terms, conditions and provisions contained in that certain instrument creating a private roadway easement 25 feet wide, dated March 24, 1954 recorded in Volume 2752, Page 139 of the Deed Records of Harris County, Texas.

Any encroachments or protrusions shown on the Survey.

AFTER RECORDING, PLEASE RETURN TO:

Lee E. Herman
Hirsch & Westheimer, P.C.
700 Louisiana, 25th Floor
Houston, Texas 77002-2728

Paul P. Kwan
COUNTY CLERK
HARRIS COUNTY, TEXAS

94 DEC 19 PM 4:03

FILED

502-17-2858

ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.

THE STATE OF TEXAS }
COUNTY OF HARRIS }

I hereby certify that this instrument was FILED in File Number _____ Sequence on the date and at the time stamped hereon by me; and was duly RECORDED, in the Official Public Records of Real Property of Harris County, Texas on

DEC 19 1994



Beverly B. Kaufman

COUNTY CLERK
HARRIS COUNTY, TEXAS

205-11-5921

512-86-1746

513-07-1630

NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THIS AGREEMENT, IT IS UNDERSTOOD AND AGREED THAT THE PROPERTY IS BEING SOLD AND CONVEYED HEREUNDER "AS IS" AND "WITH ALL FAULTS" WITHOUT ANY REPRESENTATION OR WARRANTY BY GRANTOR. GRANTEE HEREBY WAIVES AND RELINQUISHES ALL RIGHTS AND PRIVILEGES ARISING OUT OF OR WITH RESPECT OR IN RELATION TO, ANY REPRESENTATIONS [OTHER THAN THE OBLIGATIONS SET FORTH IN PARAGRAPH 7(B)(12) OF THE EARNEST MONEY CONTRACT], WARRANTIES OR COVENANTS, EXPRESS OR IMPLIED, WHICH MAY HAVE BEEN MADE OR GIVEN, OR WHICH MAY BE DEEMED TO HAVE BEEN MADE OR GIVEN, BY GRANTOR. GRANTEE HEREBY FURTHER ACKNOWLEDGES AND AGREES THAT WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED FROM THE TRANSACTION CONTEMPLATED HEREBY, AS ARE ANY WARRANTIES ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE, AND THAT GRANTOR HAS NOT WARRANTED, AND DOES NOT HEREBY WARRANT, THAT THE PROPERTY NOW OR IN THE FUTURE WILL MEET OR COMPLY WITH THE REQUIREMENTS OF ANY SAFETY CODE OR REGULATION OF ANY APPLICABLE GOVERNMENTAL AUTHORITY OR JURISDICTION (OTHER THAN AS PROVIDED IN THE TNRCC AGREEMENT AS MORE FULLY SET FORTH IN THE EARNEST MONEY CONTRACT). WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, GRANTEE AGREES THAT GRANTEE'S PURCHASE OF THE PROPERTY IS SUBJECT TO (BUT GRANTEE HAS NOT ASSUMED) ALL RISK AND LIABILITY (AND AGREES THAT GRANTOR SHALL NOT BE LIABLE TO GRANTEE FOR ANY SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL, OR OTHER DAMAGES) RESULTING OR ARISING FROM OR RELATING TO THE OWNERSHIP, USE, CONDITION, LOCATION, MAINTENANCE, REPAIR OR OPERATION OF THE PROPERTY. GRANTEE ACKNOWLEDGES AND AGREES THAT THE SALE PROVIDED FOR HEREIN IS MADE WITHOUT ANY WARRANTY BY GRANTOR AS TO THE NATURE OR QUALITY OF THE PROPERTY [WITH THE EXCEPTION OF GRANTOR'S DISCLOSURES OF THE PROFESSIONAL STUDIES AND REPORTS UNDER PARAGRAPH 7(B)(12) OF THE EARNEST MONEY CONTRACT]; THE DEVELOPMENT POTENTIAL OF THE PROPERTY [WITH THE EXCEPTION OF GRANTOR'S DISCLOSURES OF THE PROFESSIONAL STUDIES AND REPORTS UNDER PARAGRAPH 7(B)(12) OF THE EARNEST MONEY CONTRACT]; THE FITNESS OF THE PROPERTY FOR AND/OR THE SUBSURFACE CONDITIONS EXISTING AT THE PROPERTY FOR ANY PARTICULAR PURPOSE OR DEVELOPMENT POTENTIAL [WITH THE EXCEPTION OF GRANTOR'S DISCLOSURES OF THE PROFESSIONAL STUDIES AND REPORTS UNDER PARAGRAPH 7(B)(12) OF THE EARNEST MONEY CONTRACT]; OR THE ZONING OR OTHER LEGAL STATUS OF THE PROPERTY. EXCEPT AS SPECIFICALLY SET FORTH HEREIN AND THE EARNEST MONEY CONTRACT, NO PERSON ACTING ON BEHALF OF GRANTOR IS AUTHORIZED TO MAKE, AND BY THE EXECUTION HEREOF GRANTEE HEREBY ACKNOWLEDGES THAT NO PERSON HAS MADE, ANY REPRESENTATION, AGREEMENT, STATEMENT, WARRANTY, GUARANTY OR PROMISE REGARDING THE PROPERTY OR THE TRANSACTION CONTEMPLATED HEREIN, OR REGARDING THE ZONING, CONSTRUCTION, PHYSICAL CONDITION, OR OTHER STATUS OF THE PROPERTY, AND NO REPRESENTATION, WARRANTY, AGREEMENT, STATEMENT, GUARANTY OR PROMISE, IF ANY, MADE BY ANY PERSON ACTING ON BEHALF OF GRANTOR WHICH IS NOT CONTAINED HEREIN SHALL BE VALID AND BINDING UPON GRANTOR.

EXECUTED this the 30th day of April, A.D., 1997.


 WILLIAM B. ("BEN") ADAIR, as
 Substitute Trustee of the
 Testamentary Trust of JAMES ALVIN
 LUNSFORD, Deceased (4) 27


 FRANK E. ZUMWALT, JR., as
 Independent Executor of the Estate
 of ANNE EDWARD LUNSFORD, Deceased 27

512-86-1747

513-07-1651

THE STATE OF TEXAS
COUNTY OF HARRIS

This instrument was acknowledged before me, on this the 30 day of April, A.D., 1997 by WILLIAM B. ("BEN") ADAIR, as Substitute Trustee of the Testamentary Trust of JAMES ALVIN LUNSFORD, Deceased.



Jo Beth Forrest
NOTARY PUBLIC, STATE OF TEXAS

THE STATE OF TEXAS
COUNTY OF HARRIS

This instrument was acknowledged before me, on this the 30 day of April, A.D., 1997 by FRANK E. ZUMWALT, JR., as Independent Executor of the Estate of ANNE EDWARD LUNSFORD, Deceased.



Jo Beth Forrest
NOTARY PUBLIC, STATE OF TEXAS

GRANTEE'S MAILING ADDRESS:

RETURN AFTER RECORDING TO:

RETURN TO: EDWARD S. CUTRER
STEWART TITLE-HOUSTON
P. O. BOX 1504
HOUSTON, TEXAS 77251-1504

PREPARED IN THE LAW OFFICE OF
MORRIS, LENDAIS, HOLLRAH & SNOWDEN
1980 Post Oak Boulevard, Suite 700
Houston, Texas 77056
F:\CONV\STC\97106308.SWD.GMJ
04/30/97

512-86-1748

Exhibit "B"

Permitted Exceptions

An easement over and across the subject property, as granted to Southwestern Bell Telephone Company by instrument recorded in Volume 1227, Page 359 of the Deed Records of Harris County, Texas.

A utility easement 10 feet wide along the south property line, as reflected by recorded in Volume 1790, Page 691 of the Records of Harris County, Texas.

A private roadway easement 10 feet wide along the south property line, as reflected by instrument recorded in Volume 2752, Page 139 of the Deed Records of Harris County, Texas.

A Houston Lighting & Power Company easement 10 feet wide located north of, adjacent to and adjoining the aforementioned 10 foot wide roadway easement, together with an unobstructed aerial easement 20 feet wide from a plane 20 feet above the ground upward centered thereon, as reflected by instrument recorded in Volume 2752, Page 139 of the Deed Records of Harris County, Texas.

An easement 10 feet wide at and below ground level and upward to a plane 20 feet above the ground, and from said plane and upward 20 feet wide, as granted to Houston Lighting & Power Company by instrument recorded in Volume 7111, Page 113 of the Deed Records of Harris County, Texas, and located as shown on sketch attached thereto.

A permanent fill easement over a strip of land containing 1,218 square feet of land along the southeasterly property line, as granted to the City of Houston by instrument recorded under Clerk's File No. G-024204 of the Real Property Records of Harris County, Texas.

A temporary construction easement over a strip of land containing 1,218 square feet of land along the southeasterly property line, as granted to City of Houston by instrument recorded under Clerk's File No. G-024204 of the Real Property Records of Harris County, Texas.

Subject to metal building on south side extending into Houston Lighting & Power Company easement and service utility lines as shown on survey dated February 16, 1995, last revised March 27, 1997, prepared by Gonzalo A. Buentello, R.P.L.S. No. 3883.

Railroad spur extending over the northerly property line as shown on survey dated February 16, 1995, last revised March 27, 1997, prepared by Gonzalo A. Buentello, R.P.L.S. No. 3883.

F:\CONV\STC97106308.EXB

513-07-1652

ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW THE STATE OF TEXAS COUNTY OF HARRIS I hereby certify that this instrument was FILED in File Number Sequence on the date and at the time stamped hereon by me, and was duly RECORDED in the Official Public Records of Real Property of Harris County, Texas on:

MAY 2 1997



Beverly L. Hoffman
COUNTY CLERK
HARRIS COUNTY TEXAS

Metes And Bounds Description
Of 3.325 Acres of Land
Out Of The H. Reinerman Survey, A-644
Harris County, Texas

513-07-1653

All that certain 3.325 acres of land being the residue of 6.231 acres of land described in the deed from N. J. Smith to J.A. Lunsford recorded under Volume 2152, Page 210, H.C.D.R. out of the H. Reinerman Survey, A-644 Harris County, Texas and being more particularly described by metes and bounds as follows: (All bearings are based on the Texas State Plane Coordinate System, South Central Zone.)

BEGINNING at a 5/8" iron rod set marking the northeast corner of the herein described tract in the northwest right-of-way line of North Post Oak Road (80' R.O.W.) at its intersection with the south right-of-way line of H. & T.C. R. R. from which a 5/8" iron rod found marking the southeast corner of the North Post Oak Business Center bears S 51° 48' 39" E - 683.30';

THENCE S 38° 04' 06" W - 194.72' along the said northwest right-of-way line to a 1/2" iron rod found marking the most easterly northeast corner of the 39.566 acre tract described in the deed from Armco Inc. to TT Investment Company, recorded under Harris County Clerk File No. R197681;

THENCE S 87° 53' 42" W - 192.96' along the north line of said 39.566 acre tract to a 1/2" iron rod set marking the northwest corner of the J. Reinerman Survey, A-642;

THENCE S 88° 13' 15" W - 133.16' continuing along said north line to a 5/8" iron rod set marking the southwest corner of the herein described tract;

THENCE N 02° 18' 39" W - 532.67' along the east line of the 2.88 acre tract described in the deed from Dan Floeck, et al to Al Makhnian, et al, recorded under H.C.C. File No. G004461 to a 5/8" iron rod set marking the northwest corner of the herein described from which a 1/2" iron rod found marking the most northerly northeast corner of the aforesaid 39.566 acre tract bears N 51° 48' 39" W - 557.08';

THENCE S 51° 48' 39" E - 594.76' along said south right-of-way line to the POINT OF BEGINNING of the herein described tract and containing 3.325 acres (144,834 square feet) of land;

Compiled By:

BUENTELLO
Land Surveying

Job No. 101-11-U95

Original Issue Date:
February 15, 1997



Certification Date:
February 15, 1997

THIS LEGAL DESCRIPTION IS BASED ON THE SURVEY BY BUENTELLO LAST CERTIFIED ON
FEBRUARY 15, 1997.

513-07-1654

ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL
PROPERTY BECAUSE OF COLOR OR RACE IS VOID AND UNENFORCEABLE UNDER FEDERAL LAW
THE STATE OF TEXAS)
COUNTY OF HARRIS)
I hereby certify that this instrument was FILED in File Number
Sequence on the date and at the time stamped hereon by me, and was
duly RECORDED, in the Official Public Records of Real Property of
Harris County, Texas on:

MAY 19 1997



Beverly B. Kaufman
COUNTY CLERK
HARRIS COUNTY TEXAS

V535207

ORDER OF THE HEARING OFFICIAL
CITY OF HOUSTON
CONCERNING EMERGENCY ABATEMENT ACTION

01/14/02 300680661 V535207 \$11.00

On the 7th day of January, 2002, a hearing was held before C. Gregory Freeman, Hearing Officer for the City of Houston, pursuant to Chapter 10, City of Houston Code of Ordinances. The purpose of the hearing was to determine whether there was an immediate danger to health, life or safety of any person unless a "dangerous building, structure or condition" as defined in the City of Houston Code of Ordinances, was immediately vacated, repaired, demolished, secured, and/or abated by other actions taken to eliminate the conditions that created the immediate danger, and that such abatement was caused by the Director of the Public Works and Engineering Department.

The official records of the county in which the property is situated indicate that the following persons are owners of the property described in this Order:

V & G Enterprises, Inc.,

and that the following persons are mortgagees or lienholders on the said property:

None.

In addition, the following persons may have or claim to have an ownership interest in the property:

TLV Enterprises, Inc.; Occupant,

and the following persons may have or claim to have a lien or mortgage on the property:

None.

The following persons, although listed in the records, state that they no longer have an interest in the property:

None.

Having considered the evidence, the Hearing Officer enters the following findings of fact:

1. The following actions shall or shall have occurred with respect to building(s) located on that certain tract or parcel of land in Houston, Harris County, Texas, described as follows:

3.325 acre tract, more or less, out of the H. Reinerman Survey, Abstract Number Six Hundred Forty-four (644), of Harris County, Texas and being more particularly described by metes and bounds in instrument recorded under Clerk's File Number S456088 of the Real Property Records of Harris County, Texas. Said tract also known as Tract 1C,

and has/have the street address(es) of 1525 North Post Oak Road, #B (77055), (Project# 01108361), in Houston, Texas.

2. The above-described building, structure, or condition (whether one or more) was an immediate danger to health, life or safety necessitating the action taken by the Director of the Public Works and Engineering Department.
3. That at the time of the action the building was a dangerous building as defined in the City of Houston Code of Ordinances.

RETURN TO:

CITY OF HOUSTON
DANGEROUS BUILDINGS
P. O. BOX 19529
HOUSTON, TX 77224-9529

Partly

4. The City was required to take immediate action to demolish the structure described above, pursuant to the authority of Chapter 10, City of Houston Code of Ordinances.

5. ~~YES~~ ~~NO~~

NO
1/4

~~At the time of the Hearing there are other items that need to be completed to bring the property into compliance with the Laws, Ordinances or Codes of the City of Houston. It is therefore ORDERED by the Hearing Officer of the City of Houston, Texas, that the owner of the property take the action set out in Exhibit _____ which is attached hereto and incorporated herein.~~

ph

SIGNED, on this 7 day of Jan, 2002

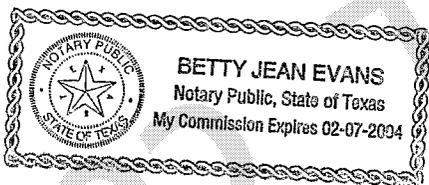
[Signature]
C. Gregory Freeman
Administrative Hearing Officer

THE STATE OF TEXAS

COUNTY OF HARRIS

Before me, the undersigned authority, on this day personally appeared C. Gregory Freeman of the City of Houston, known to me to be the person whose name is subscribed to the foregoing Order of the Hearing Officer, and acknowledged to me that he executed the same in the capacity therein stated and for the purposes and consideration therein expressed.

SWORN TO AND SUBSCRIBED BY ME on this 7th day of January, 2002.



[Signature]
Notary Public, State of Texas

I have received a copy of the Order on this date _____, 20__.

SIGNATURE

(PRINTED NAME)

ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.
THE STATE OF TEXAS
COUNTY OF HARRIS
I hereby certify that this instrument was FILED in File Number Sequence on the date and at the time stamped hereon by me; and was duly RECORDED. In the Official Public Records of Real Property of Harris County, Texas on

JAN 14 2002



[Signature]
COUNTY CLERK
HARRIS COUNTY, TEXAS

[Signature]
COUNTY CLERK
HARRIS COUNTY, TEXAS

2002 JAN 14 AM 9:39

FILED

APPENDIX B

A description of the current use and, to the extent known, the anticipated use(s) of the designated property and properties within 500 feet of the boundary of the designated property.

The proposed MSD area is approximately 24 acres of land located north of downtown Houston, Harris County, Texas. The designated property is located in a predominantly light industrial/commercial use area immediately west of North Post Oak Road, extending primarily between Hempstead Highway and Westview Drive (**Figure B1**). No non-commercial properties are located within 500-feet of the designated boundary of the MSD property. The nearest residential properties are located within approximately 800 feet west of the western boundary of the proposed MSD area. The attached property ownership list identifies individual property owner names within 500-feet of the designated boundary. The location of the designated property relative to the City of Houston corporate limits is shown on **Figure B2**.

Principle site use within the MSD area includes Tex-Tube Company (1503 North Post Oak Road), a manufacturer of specialty carbon steel pipe products, which are small in diameter and fabricated from coiled flat-rolled steel. Additional processes include pipe cutting and protection coating. The Tex-Tube Company was formerly owned and operated by AK Steel Corporation. The MSD area extends southward from this location crossing other light industrial/commercial properties, some of which are currently undergoing new development.

Parcel Number	Owner Name	Property Address	City	Zip	Land Use Code	Current Use
0451750020066	REGINA GRANT PETERSON TRUST	6104 CLARKSON LN	HOUSTON	77055	2001	Res Improved Override
0451750020060	GRANT MELVIN LEE JR	6102 CLARKSON LN	HOUSTON	77055	2001	Res Improved Override
0451750020434	GRANT MELVIN LEE	0 CLARKSON LN	HOUSTON	77055	2002	Res Vacant Override (Res. Use)
0451750020065	GRANT JAMES A	6100 CLARKSON LN	HOUSTON	77055	2003	Res Improved Override (Res. Use)
0451750020046	AUBREY CHARLENE S	6115 WESTVIEW DR	HOUSTON	77055	2003	Res Improved Override (Res. Use)
0440840000198	A&A 610 KEY & LOCK SERVICE	9995 HEMPSTEAD RD	HOUSTON	77092	3200	Commercial Imps Only Land
0440820000568	RUSSELL DOUG	9655 HEMPSTEAD RD	HOUSTON	77092	3200	Commercial Imps Only Land
0440840000207	CURRENT PROPERTY OWNER	1500 HEMPSTEAD RD	HOUSTON	77055	4300	General Commercial Vacant
0451750020075	GEN PKG EQUIP CO	6101 WESTVIEW DR	HOUSTON	77055	4300	General Commercial Vacant
0451750020012	NPO1495LP	1403 N POST OAK BLVD	HOUSTON	77055	4300	General Commercial Vacant
1312990010001	NPO1495LP	6050 WESTVIEW DR	HOUSTON	77055	4300	General Commercial Vacant
1213980010001	BEESON JOHN S TRUSTEE	1400 N POST OAK RD	HOUSTON	77055	4300	General Commercial Vacant
1310750010001	NW JCP LTD	9500 HEMPSTEAD RD	HOUSTON	77092	4341	Regional Shopping Mall
0451750020055	PETHEY THE WONDERDOG	6110 CLARKSON LN	HOUSTON	77055	4353	Office Bldgs. Low-Rise (1 to 4 Stories)
0451750020381	HERZSTEIN ALBERT H	6048 WESTVIEW DR	HOUSTON	77055	4393	Auxiliary Improvement
0440820000255	1500 N POST OAK BLVD JV	1500 N POST OAK RD	HOUSTON	77055	4394	Service Center Warehouse
0451750020414	HERZSTEIN ALBERT H	6131 WESTVIEW DR	HOUSTON	77055	4394	Service Center Warehouse
0440820030145	SECURITY CAPITAL	1296 POST OAK BLVD	HOUSTON	77055	4394	Service Center Warehouse
0451750020386	HERZSTEIN ALBERT H	6048 WESTVIEW DR	HOUSTON	77055	4397	Office - Warehouse
0451750020105	HARRIS COUNTY DEPT OF EDUCATION	6005 WESTVIEW DR	HOUSTON	77055	4398	Warehouse
0451750020023	HERZSTEIN ALBERT H	6056 WESTVIEW DR	HOUSTON	77055	4398	Warehouse
0440820000117	BEESON JOHN S TRUSTEE	1300 N POST OAK RD	HOUSTON	77055	4398	Warehouse
1020010000001	SEALY NORTHWEST HOUSTON LP	5805 WESTVIEW DR	HOUSTON	77055	4398	Warehouse
0451750020022	HERZSTEIN ALBERT H	6100 WESTVIEW DR	HOUSTON	77055	4398	Warehouse
0451750020018	HOUSTON INDUSTRIAL WHSE JV	1499 POST OAK BLVD	HOUSTON	77055	4398	Warehouse
0440820000234	SECURITY CAPITAL IND TRUST	1440 N POST OAK RD	HOUSTON	77055	4398	Warehouse
0440820000235	SECURITY CAPITAL IND TRUST	1420 N POST OAK RD	HOUSTON	77055	4398	Warehouse
0440840000005	CHIEF CONTRACTORS INC	1535 N POST OAK RD	HOUSTON	77055	4399	Warehouse-Metallic
0451750020080	MVC INVESTMENTS LTD	6119 WESTVIEW DR	HOUSTON	77055	4399	Warehouse-Metallic
0451750020115	GENERAL PACKAGING EQUIP	6101 WESTVIEW DR	HOUSTON	77055	4399	Warehouse-Metallic
0440840000001	T T INVESTMENT COMPANY	9999 HEMPSTEAD RD	HOUSTON	77055	4399	Warehouse-Metallic
0440840000010	V&G ENTERPRISES INC	1523 POST OAK BLVD	HOUSTON	77055	4399	Warehouse-Metallic
0440820000659	TT INVESTMENT CO	1503 N POST OAK RD	HOUSTON	77055	4400	Vacant Industrial Land
1020020000002	NEW PROCESS - PIER 1	5900 WESTVIEW DR	HOUSTON	77055	4421	Metal Fabricating
0451750020001	TT INVESTMENT CO	1503 N POST OAK RD	HOUSTON	77055	4424	Miscellaneous Manufacturing
0440840000200	SOUTHERN PACIFIC RAILROAD COMPANY	0 HEMPSTEAD RD	HOUSTON	77008	4760	Railroad, Vacant Land
0440670000003	SOUTHERN PACIFIC RAILROAD COMPANY	9655 HEMPSTEAD RD	HOUSTON	77092	4760	Railroad, Vacant Land
0440820000610	SOUTHERN PACIFIC RAILROAD COMPANY				4760	Railroad, Vacant Land



LEGEND

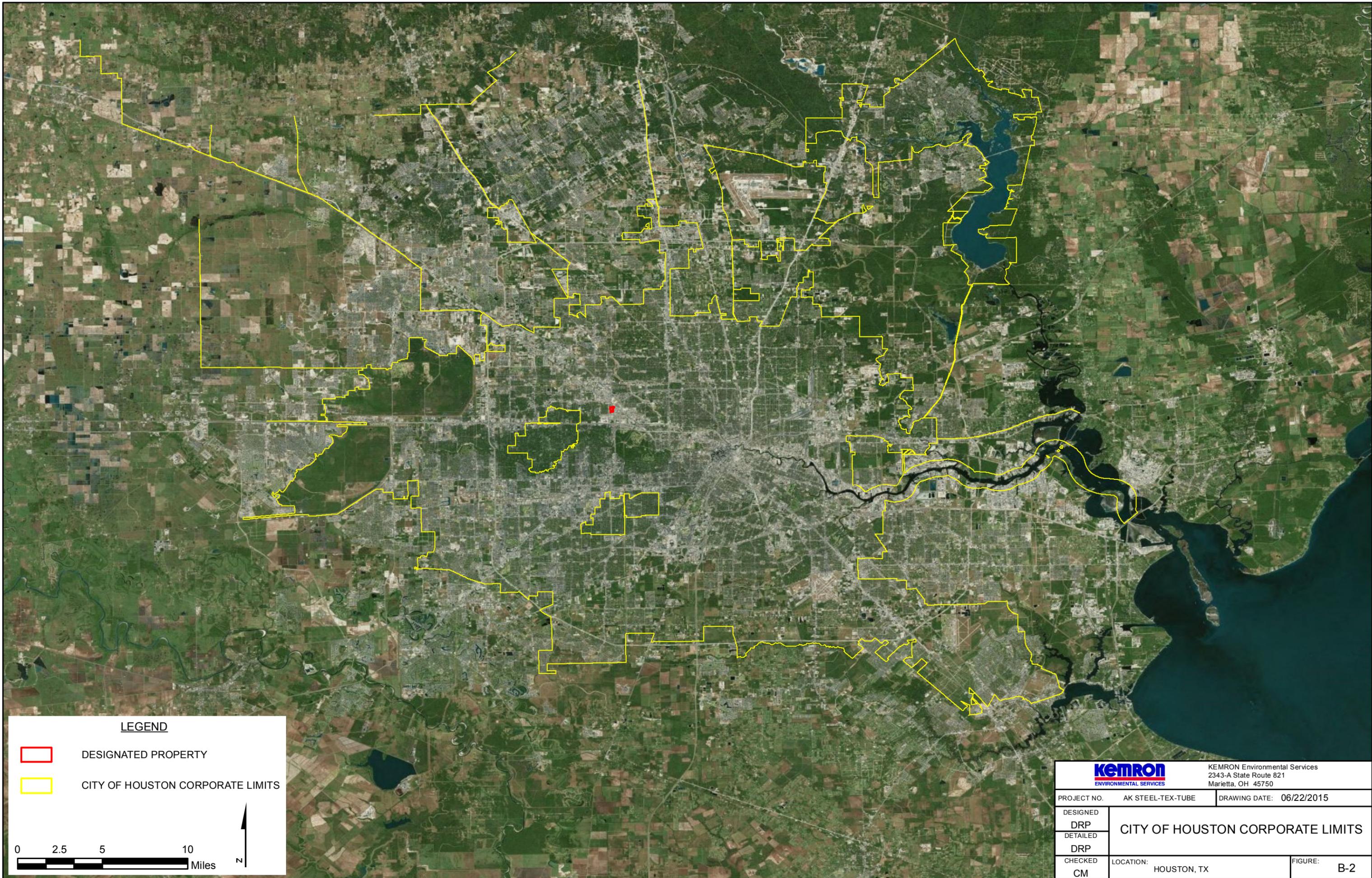
- - - PROPERTY BOUNDARY
- 500-FT RADIUS



KEMRON Environmental Services
2343-A State Route 821
Marietta, OH 45750

PROJECT NO. AK STEEL	DRAWING DATE: 08/01/2014	
DESIGNED DRP	SURROUNDING PROPERTY MAP	
DETAILED DRP		
CHECKED CM	LOCATION: HOUSTON, TEXAS	FIGURE: B1

APPENDIX B



LEGEND

-  DESIGNATED PROPERTY
-  CITY OF HOUSTON CORPORATE LIMITS



KEMRON Environmental Services
2343-A State Route 821
Marietta, OH 45750

PROJECT NO.	AK STEEL-TEX-TUBE	DRAWING DATE:	06/22/2015
DESIGNED DRP	CITY OF HOUSTON CORPORATE LIMITS		
DETAILED DRP			
CHECKED CM	LOCATION: HOUSTON, TX	FIGURE:	B-2

APPENDIX C

Provide a site map showing:

- a. The location of the designated property.
 - b. The topography of the designated property as indicated on publicly available sources, which must note the watershed including the nearest surface water body and whether the designated property is located in a floodplain or floodway, as those items are defined in Chapter 19 of the Code of Ordinances.
 - c. The detected area of groundwater contamination.
 - d. The location of soil sampling locations and all groundwater monitoring wells.
 - e. Groundwater gradients, to the extent known, and direction of groundwater flow.
 - f. The ingestion protective concentration level exceedance zone for each contaminant of concern, to the extent known.
 - g. Depth to groundwater for each affected zone.
-

The following Figures are included within Appendix C:

Figure C1 – Topographic Map/Site Location Map

Figure C2 - Floodplain and Watershed Map

Figure C3 – Facility Features Map

Figure C4a – Historical Soil Sampling Locations

Figure C4b – Groundwater Monitoring Well Network

Figure C5 – Affected Groundwater Map – Stratum II

Figure C6 - Affected Groundwater Map – Stratum IV

Figure C7 - Geologic Cross-Section A-A’

Figure C8 - Geologic Cross-Section B-B’

Figure C9 - Groundwater Potentiometric Surface Map – Stratum II (October 15, 2012)

Figure C10 - Groundwater Potentiometric Surface Map – Stratum IV (October 15, 2012)

Figure C11 Groundwater Potentiometric Surface Map – Stratum II (March 6, 2013)

Figure C12 - Groundwater Potentiometric Surface Map – Stratum IV (March 6, 2013)

Figure C13 - Groundwater Potentiometric Surface Map – Stratum II (October 29, 2013)

Figure C14 - Groundwater Potentiometric Surface Map – Stratum IV (October 29, 2013)

Figure C15 - Groundwater Potentiometric Surface Map – Stratum II (April 7, 2014)

Figure C16 - Groundwater Potentiometric Surface Map – Stratum IV (April 7, 2014)

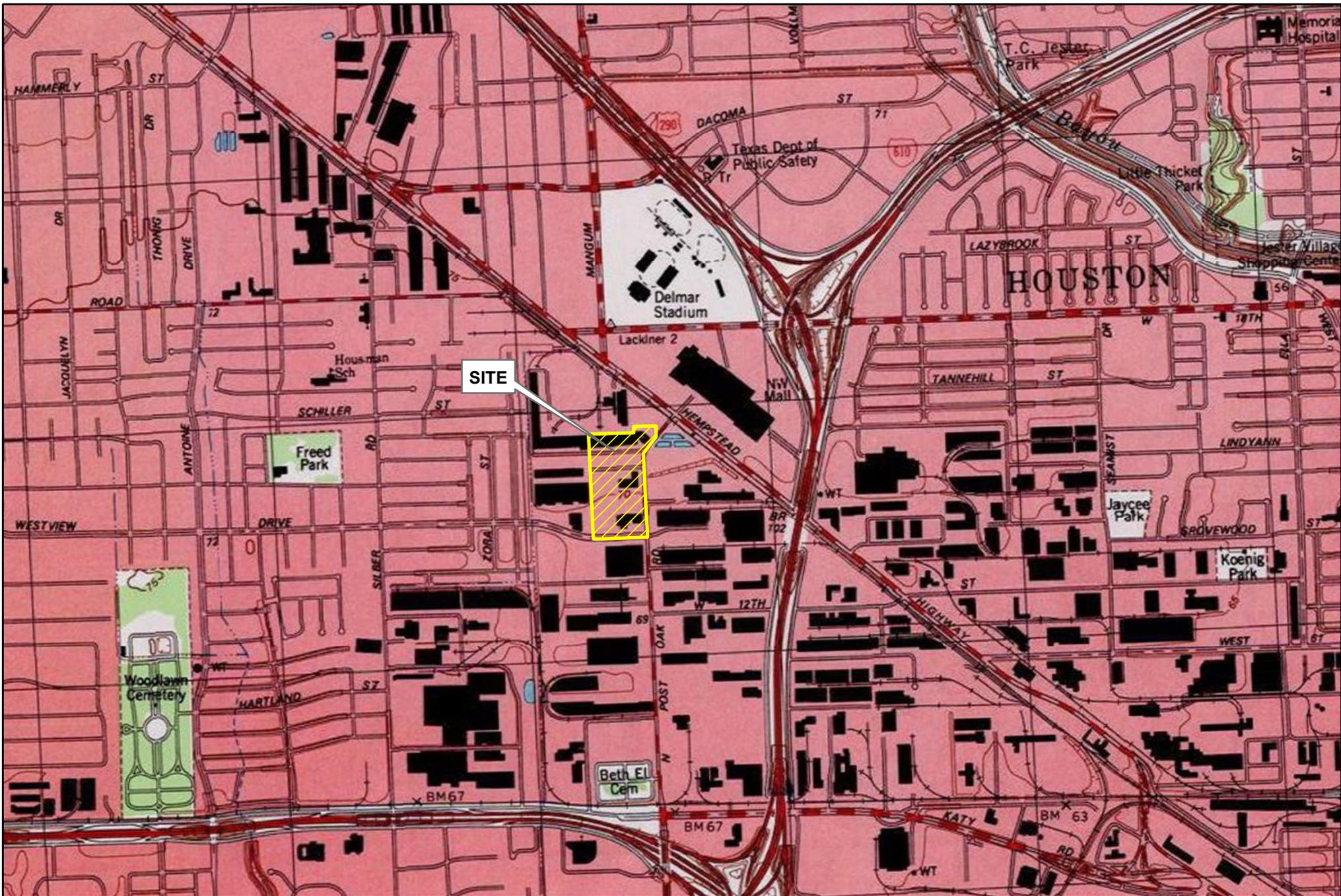
Figure C1 indicates site area topography and Figure C2 indicates surface water body information. No portions of the site area are indicated to be within the 100-year floodplain. The nearest identified surface water feature to the designated property is the Harris County Flood Control Drainage Ditch W-137 which runs north-south at the western boundary of the Tex-Tube property and other associated properties south of Tex-Tube (shown on Figure C2). The ditch conveys water during periods of rain, and is otherwise intermittently dry.

Figure C3 indicates the location of historical sampling locations and existing monitoring wells and other facility features. Figure C4A indicates historical soil boring and soil sampling locations from 1994 site investigations completed by Malcolm Pirnie, Inc. Figure C4b indicates the current and historical groundwater monitoring well network for the designated property.

Figure C5 and C6 provide ingestion protective concentration level exceedance (PCLE) zone maps for a recent April 2014 sampling event for the two monitored water bearing zones within the designated property. The two water bearing zones are identified as Stratum II, an approximate 5-foot thickness of sandy silt, located between 22 and 27 feet below ground surface (BGS), and Stratum IV, an approximate 10-foot thickness of sand and sandy-silt between 45 and 55 feet BGS. Overlying and intervening layers, identified as Stratum I, II and V consist of silty clay and clay layers which are considered to be confining. Copies of two geologic cross-sections from the APAR are presented as Figures C7 and C8.

Groundwater potentiometric surface maps are provided for the two monitored water bearing zones within the designated property for semiannual sampling events conducted from 2012 through 2014 (presented as Figures C9 through C16). The historical potentiometric maps indicate that plume boundaries have remained in the same general configuration over the period.

Additional information describing groundwater conditions in more detail is provided in subsequent appendices.

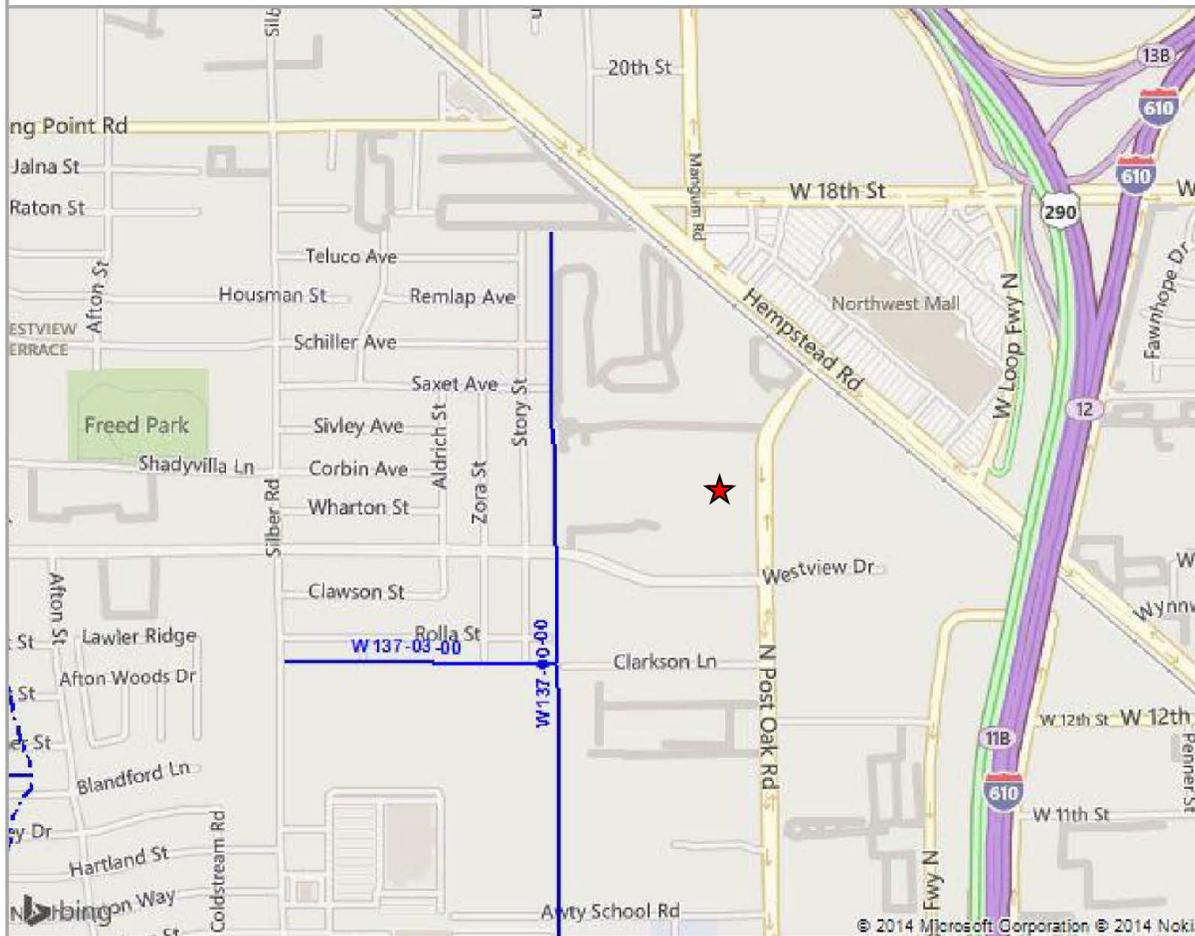


SITE

Notes:
 No area within a mile of the site is within the 100-year flood plain.
 Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

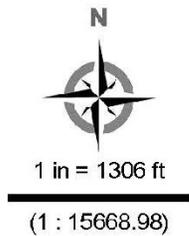
KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO:	AK STEEL	DRAWING DATE:	08/01/2014
DESIGNED	DRP	TOPOGRAPHIC MAP/SITE LOCATION MAP	
DETAILED	DRP		
CHECKED	CM	APPENDIX C	
LOCATION:		HOUSTON, TEXAS	FIGURE:
			C1

Flood Education Mapping Tool



LEGEND

- Floodway
- 1% (100-year) Floodplain
- 0.2% (500-year) Floodplain
- 1% (100-year) Coastal Floodplain
- LOMR Boundary
- Open Channels
- Enclosed Channels
- Harris County Boundary

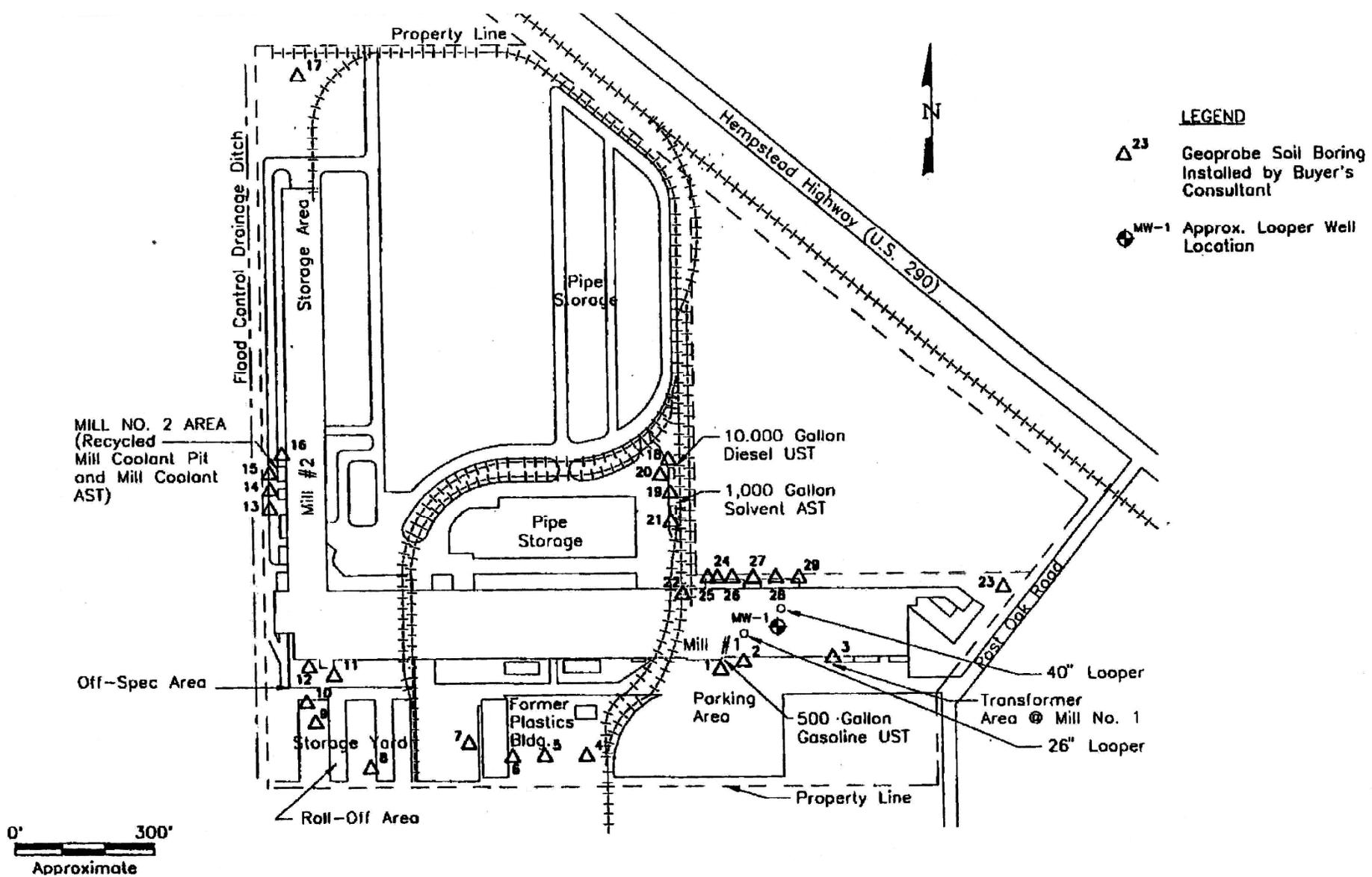


DISCLAIMER: The Harris County Flood Control District's Flood Education Mapping Tool is for general information purposes only and may not be suitable for legal, engineering or surveying purposes. The floodplains shown on this mapping tool are those delineated on the Federal Emergency Management Agency's (FEMA) effective Flood Insurance Rate Map (FIRM or floodplain map) for Harris County that was adopted in 2007, as well as updates that have been made through a Letter of Map Revision (LOMR) since 2007. This mapping tool is not an effective FIRM. The effective FIRM is produced, maintained and published by FEMA and not by the Harris County Flood Control District. Please visit FEMA's Map Service Center at www.msc.fema.gov to view the effective FIRM for Harris County. For an official floodplain determination, please contact an insurance agent or mortgage lender. This map is a representation and approximation of the relative location of geographic information, land marks and physical addresses.

LEGEND

★ SITE LOCATION

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO:	AK STEEL	DRAWING DATE:	07/28/2014
DESIGNED DRP	FLOOD PLAIN AND WATERSHED MAP		
DETAILED DRP			
CHECKED CM	LOCATION: HOUSTON, TEXAS	FIGURE:	C2



Source:
ERM-Southwest, Inc, Figure 1-2 Areas Of Investigation, 01/09/1996.

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Mareta, OH 45750	
PROJECT NO:	AK STEEL	DRAWING DATE:	11/13/2014
DESIGNED	DRP	HISTORICAL SOIL SAMPLING LOCATIONS TEX-TUBE FACILITY HOUSTON, TX	
DETAILED	DRP		
CHECKED	CM		
LOCATION:	HOUSTON, TEXAS	FIGURE:	C4a



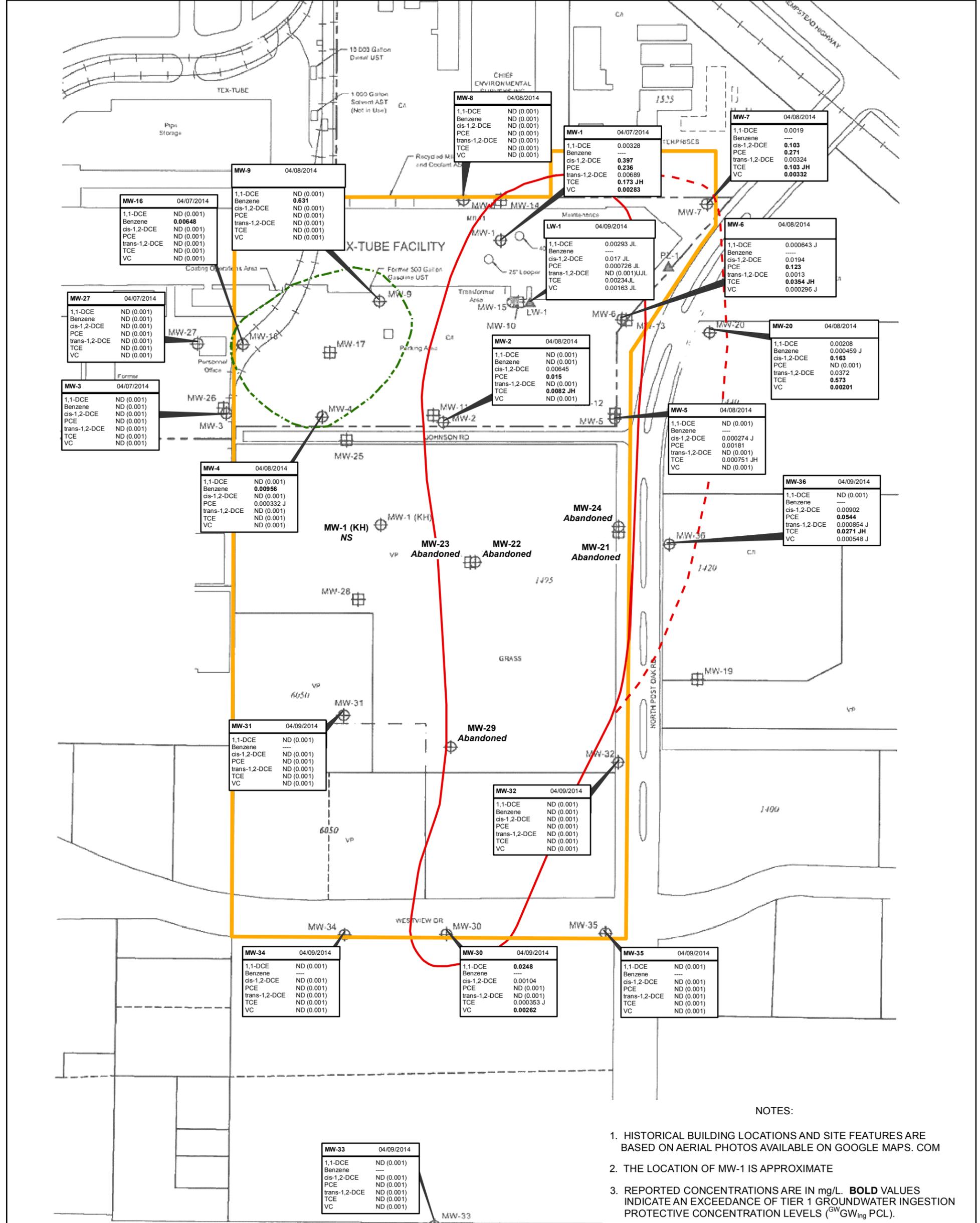
LEGEND:

-  Monitoring Well
 -  Abandoned Monitoring Well
 -  Monitoring Well Destroyed
- 0 75 150 300 450 600 Feet



KEMRON Environmental Services
2343-A State Route 821
Marietta, OH 45750

PROJECT NO.	AK STEEL	DRAWING DATE:	11/13/2014
DESIGNED DRP	GROUNDWATER MONITORING WELL NETWORK TEX-TUBE FACILITY		
DETAILED DRP			
CHECKED MKZ	LOCATION: Houston, TX	FIGURE:	C4b



NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS. COM
2. THE LOCATION OF MW-1 IS APPROXIMATE
3. REPORTED CONCENTRATIONS ARE IN mg/L. **BOLD** VALUES INDICATE AN EXCEEDANCE OF TIER 1 GROUNDWATER INGESTION PROTECTIVE CONCENTRATION LEVELS (^{GW}ing PCL).
4. NOT SAMPLED DUE TO DAMAGED MONITOR WELL
5. THE REPORTED CONCENTRATIONS OF CHLORINATED SOLVENTS AT MW-7, MW-20 AND MW-36 MAY BE ASSOCIATED WITH AN OFF-SITE PLUME MIGRATING FROM A PROPERTY NORTH OF THE TEX-TUBE FACILITY AND IS CONSIDERED TO BE COMMINGLED WITH THE CHLORINATED SOLVENT PLUME ASSOCIATED WITH THE TEX-TUBE FACILITY.
6. MONITORING WELLS ABANDONED IN MARCH 2013

LEGEND:

- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER

— PCLZ: EXTENT OF CHLORINATED SOLVENT PLUME (DASHED WHERE POTENTIALLY COMINGLED)

- - - PCLZ: EXTENT OF BENZENE PLUME

▭ MSD BOUNDARY

J REPORTED AT AN ESTIMATED CONCENTRATION BETWEEN THE METHOD QUANTITATION LIMIT AND THE SAMPLE QUANTITATION LIMIT (SQL).

--- NOT ANALYZED

JL ESTIMATED CONCENTRATION, BIASED LOW DUE TO LOW SURROGATE RECOVERIES

JH THE ASSOCIATED NUMERICAL VALUE IS THE APPROX. CONCENTRATION OF THE ANALYTE IN THE SAMPLE.

JH NOT DETECTED. MDL IS ESTIMATED.

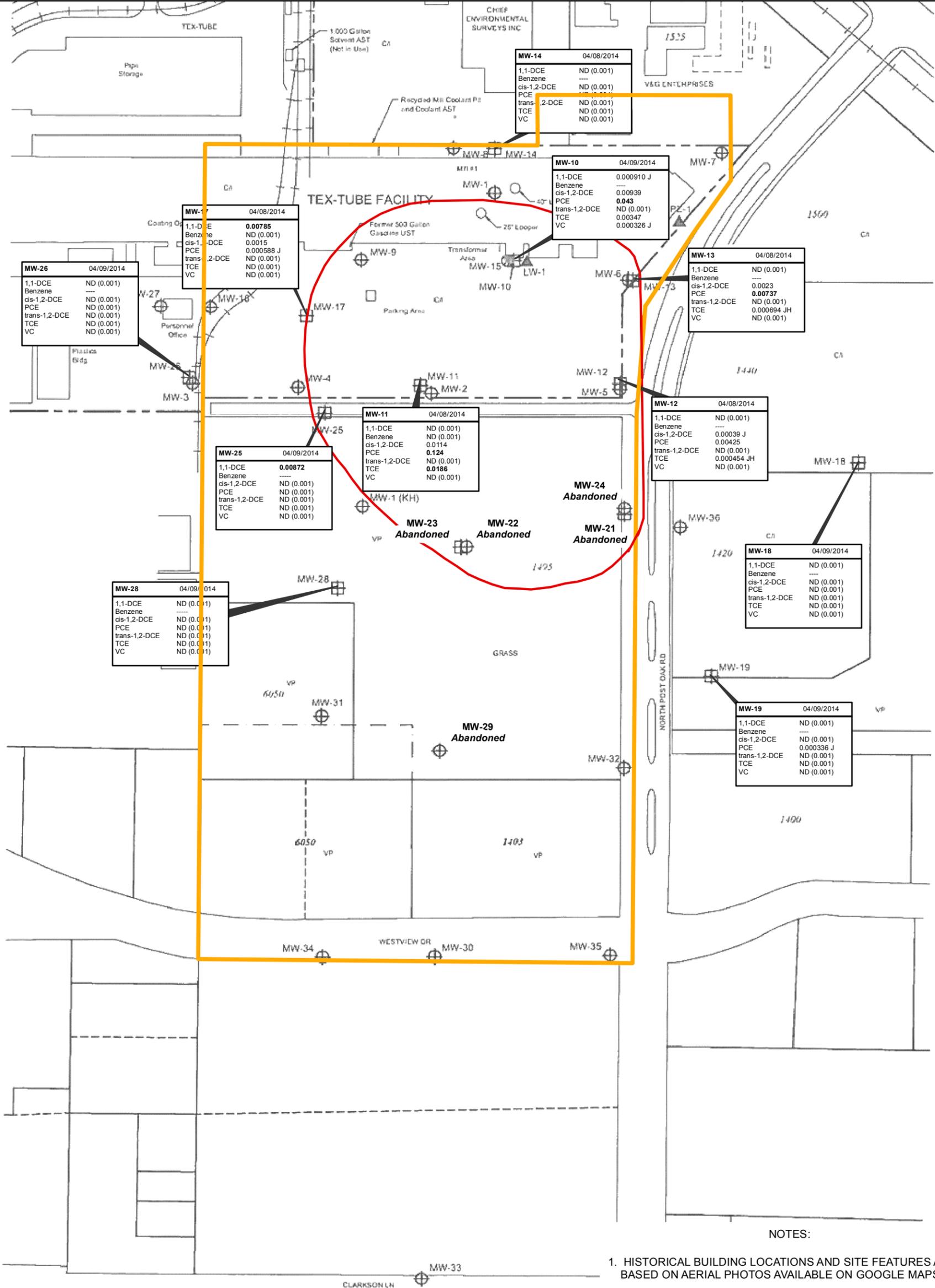
ND NOT DETECTED WITH SQL IN PARANTHESES

NS NOT SAMPLED, OBSTRUCTION OR DESTROYED

CONSTITUENT ABBREVIATIONS	
1,1-DCE	1,1-DICHLOROETHENE
cis-1,2-DCE	cis-1,2-DICHLOROETHENE
PCE	TETRACHLOROETHENE
trans-1,2-DCE	trans-1,2-DICHLOROETHENE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE



		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
		PROJECT NO. AK STEEL	DRAWING DATE: 10/09/2014
DESIGNED DRP	AFFECTED GROUNDWATER MAP STRATUM II - FIRST HALF 2014 TEX-TUBE FACILITY		
DETAILED DRP			
CHECKED CM	LOCATION: Houston, TX	FIGURE: C5	



LEGEND:

⊕ STRATUM II MONITOR WELL

⊕ STRATUM IV MONITOR WELL

▲ STRATUM II PIEZOMETER

— PCLE ZONE: EXTENT OF CHLORINATED SOLVENT PLUME

▭ MSD BOUNDARY

J REPORTED AT AN ESTIMATED CONCENTRATION BETWEEN THE METHOD QUANTITATION LIMIT AND THE SAMPLE QUANTITATION LIMIT (SQL).

JH THE ASSOCIATED NUMERICAL VALUE IS THE APPROX. CONCENTRATION OF THE ANALYTE IN THE SAMPLE.

--- NOT ANALYZED

ND NOT DETECTED WITH SQL IN PARANTHESES

CONSTITUENT ABBREVIATIONS	
1,1-DCE	1,1-DICHLOROETHENE
cis-1,2-DCE	cis-1,2-DICHLOROETHENE
PCE	TETRACHLOROETHENE
trans-1,2-DCE	trans-1,2-DICHLOROETHENE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE



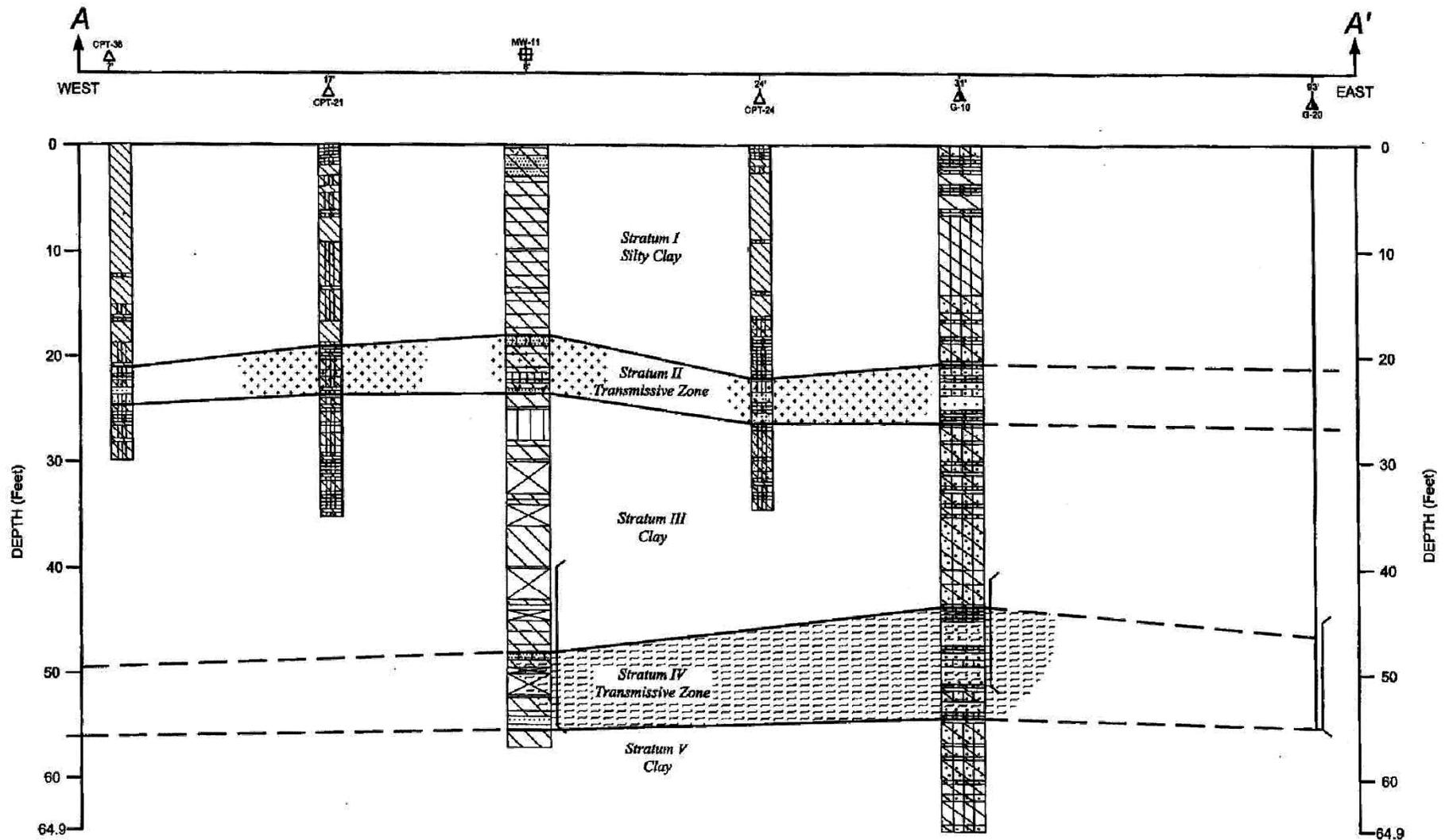
NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS. COM
2. THE LOCATION OF MW-1 IS APPROXIMATE
3. REPORTED CONCENTRATIONS ARE IN mg/L. **BOLD** VALUES INDICATE AN EXCEEDANCE OF TIER 1 GROUNDWATER INGESTION PROTECTIVE CONCENTRATION LEVELS (^{GW}GW_{ing} PCL).
4. THE REPORTED CONCENTRATIONS OF CHLORINATED SOVENTS AT MW-7, MW-20 AND MW-36 MAY BE ASSOCIATED WITH AN OFF-SITE PLUME MIGRATING FROM A PROPERTY NORTH OF THE TEX-TUBE FACILITY AND IS CONSIDERED TO BE COMMINGLED WITH THE CHLORINATED SOLVENT PLUME ASSOCIATED WITH THE TEX-TUBE FACILITY.
5. MONITORING WELLS ABANDONED MARCH 2013



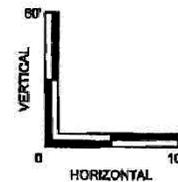
KEMRON Environmental Services
2343-A State Route 821
Marietta, OH 45750

PROJECT NO.	AK STEEL	DRAWING DATE:	10/09/2014
DESIGNED DRP	AFFECTED GROUNDWATER MAP STRATUM IV - FIRST HALF 2014 TEX-TUBE FACILITY		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C6



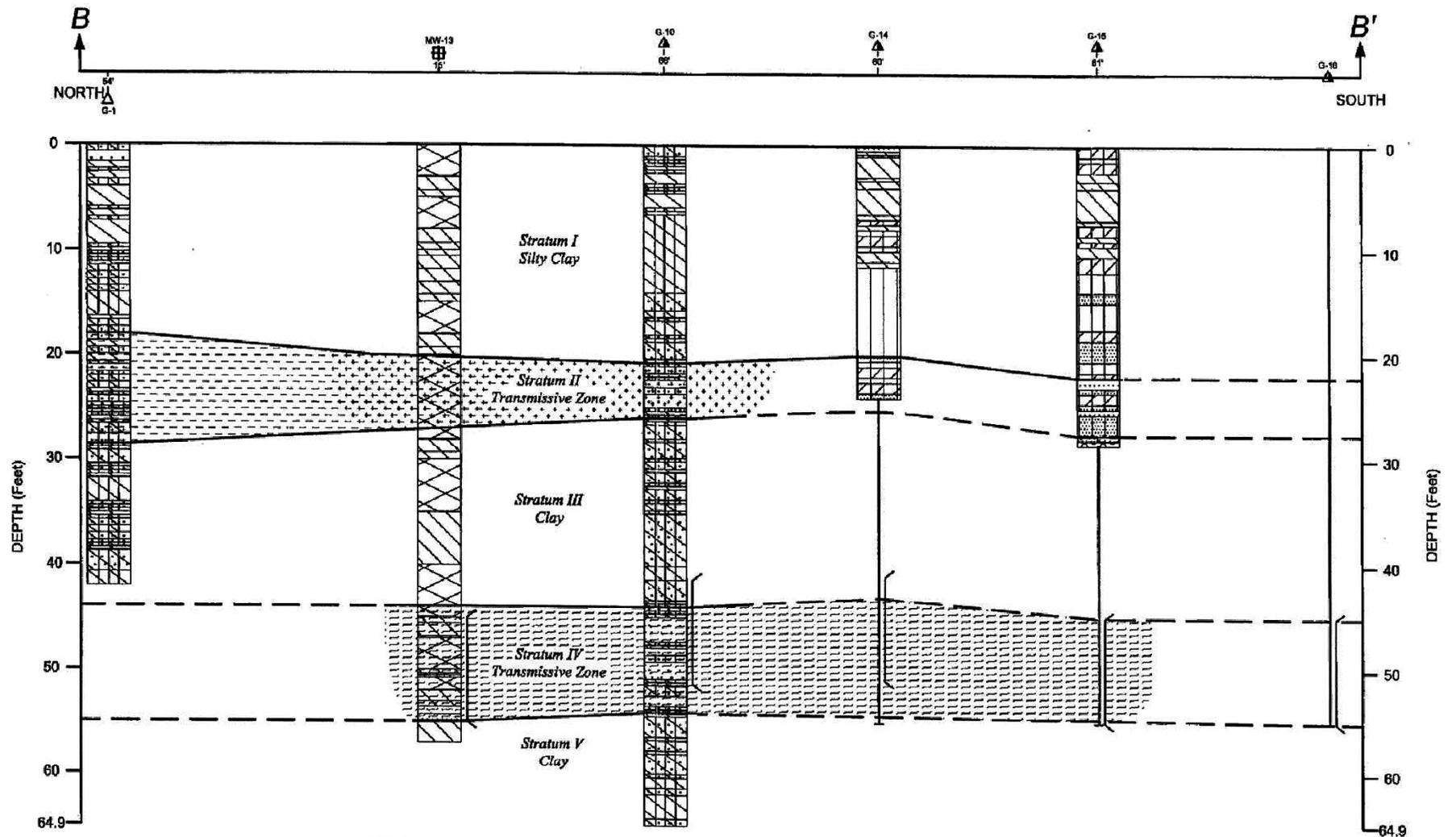
LEGEND

- | | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |



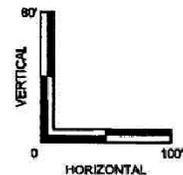
Source: ERM-Southwest, Inc., Attachment 2F-1, 2006

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO:	AK STEEL	DRAWING DATE:	10/09/2014
DESIGNED DRP	GEOLOGIC CROSS-SECTION A-A'		
DETAILED DRP	TEX-TUBE FACILITY		
CHECKED CM	LOCATION: HOUSTON, TEXAS	FIGURE:	C7



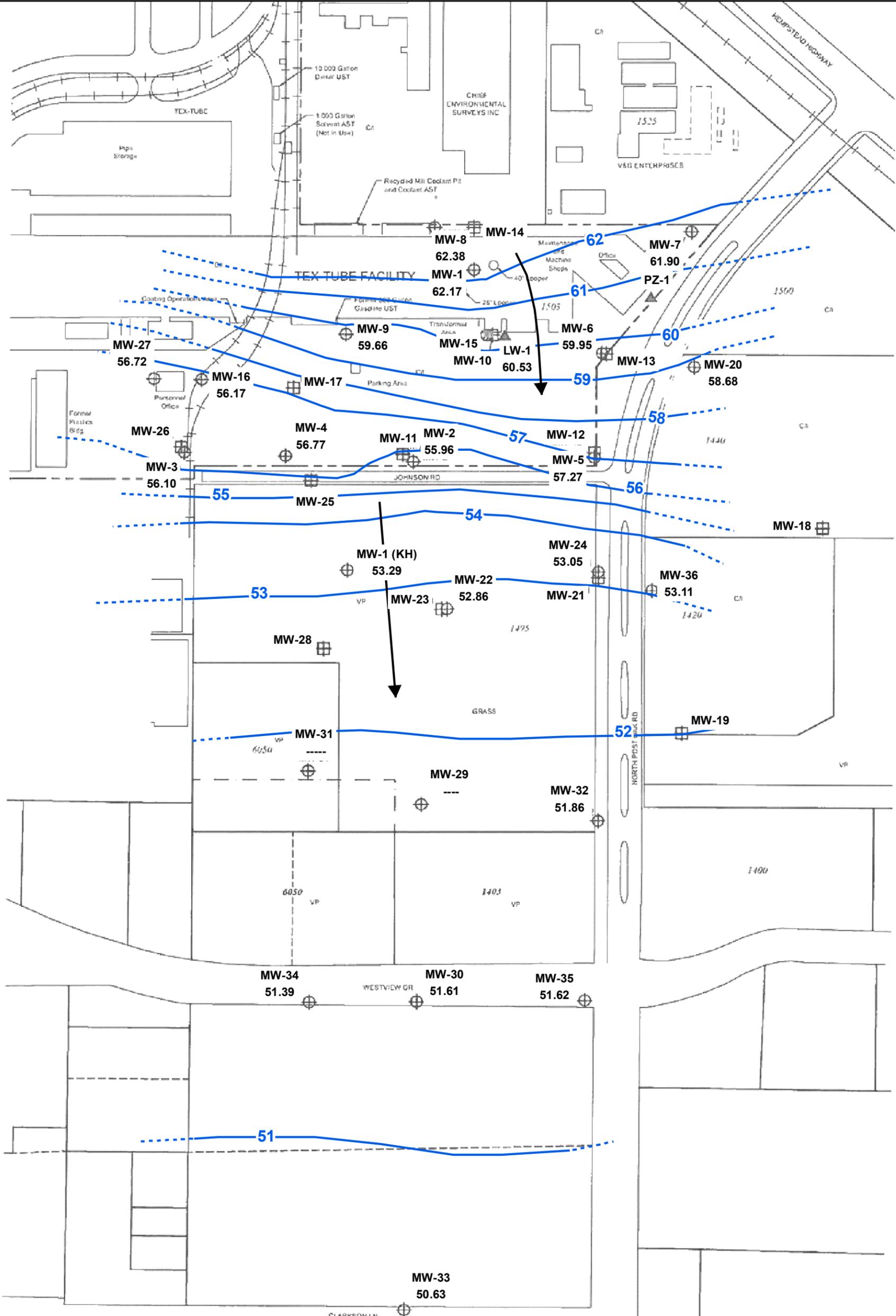
LEGEND

- | | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |



Source: ERM-Southwest, Inc., Attachment 2F-2, 2006

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO:	AK STEEL	DRAWING DATE:	10/09/2014
DESIGNED DRP	GEOLOGIC CROSS-SECTION B-B'		
DETAILED DRP	TEX-TUBE FACILITY		
CHECKED CM	LOCATION: HOUSTON, TEXAS	FIGURE:	C8



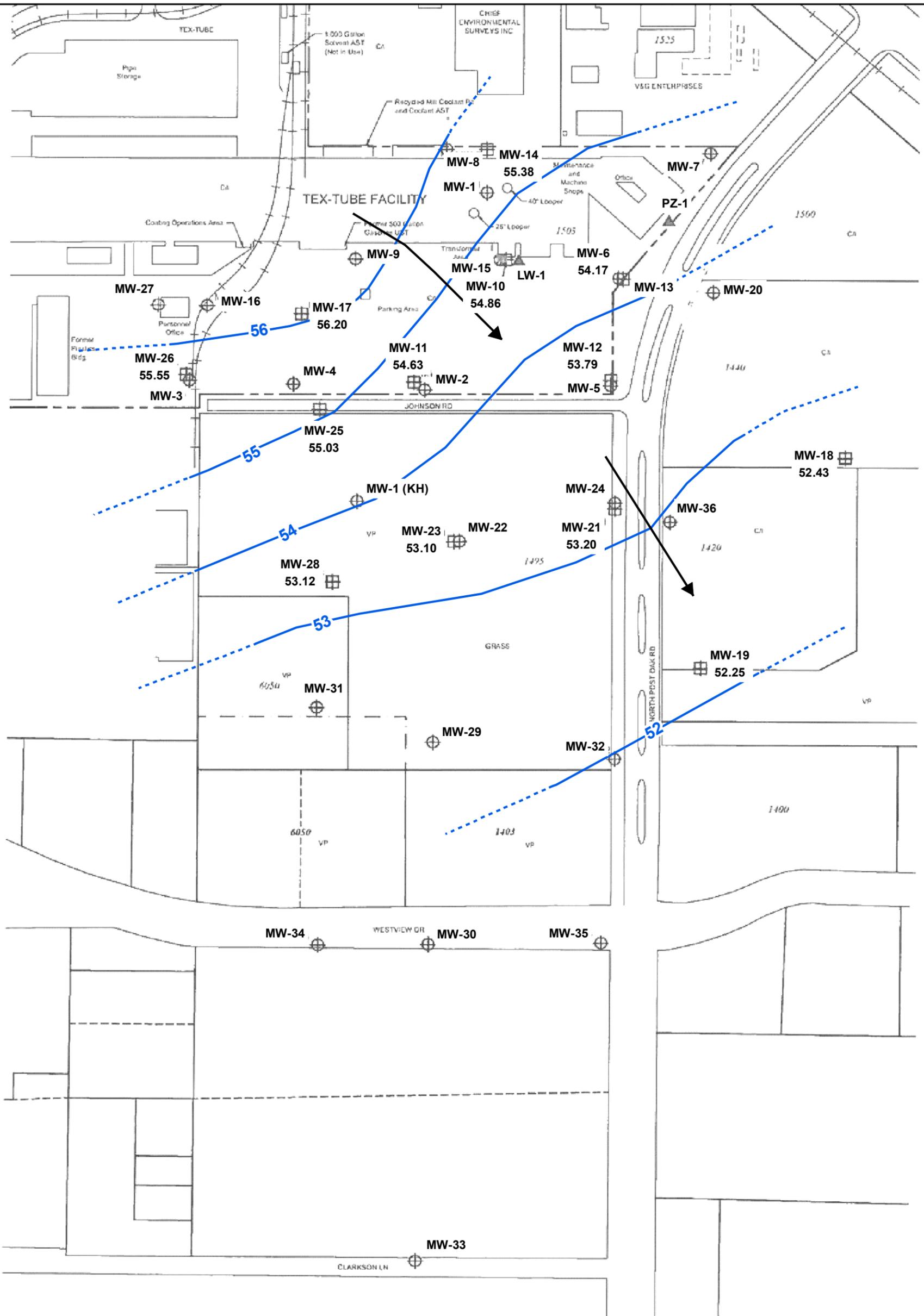
LEGEND:

- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- 1503 STREET ADDRESS
- ++++ RAILROAD TRACKS
- PROPERTY BOUNDARY
- - - - - APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION

NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS.COM
2. THE LOCATION OF MW-1 IS APPROXIMATE

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM II - OCTOBER 15, 2012		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C9



LEGEND:

- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- ++++ RAILROAD TRACKS
- PROPERTY BOUNDARY
- - - - - APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION

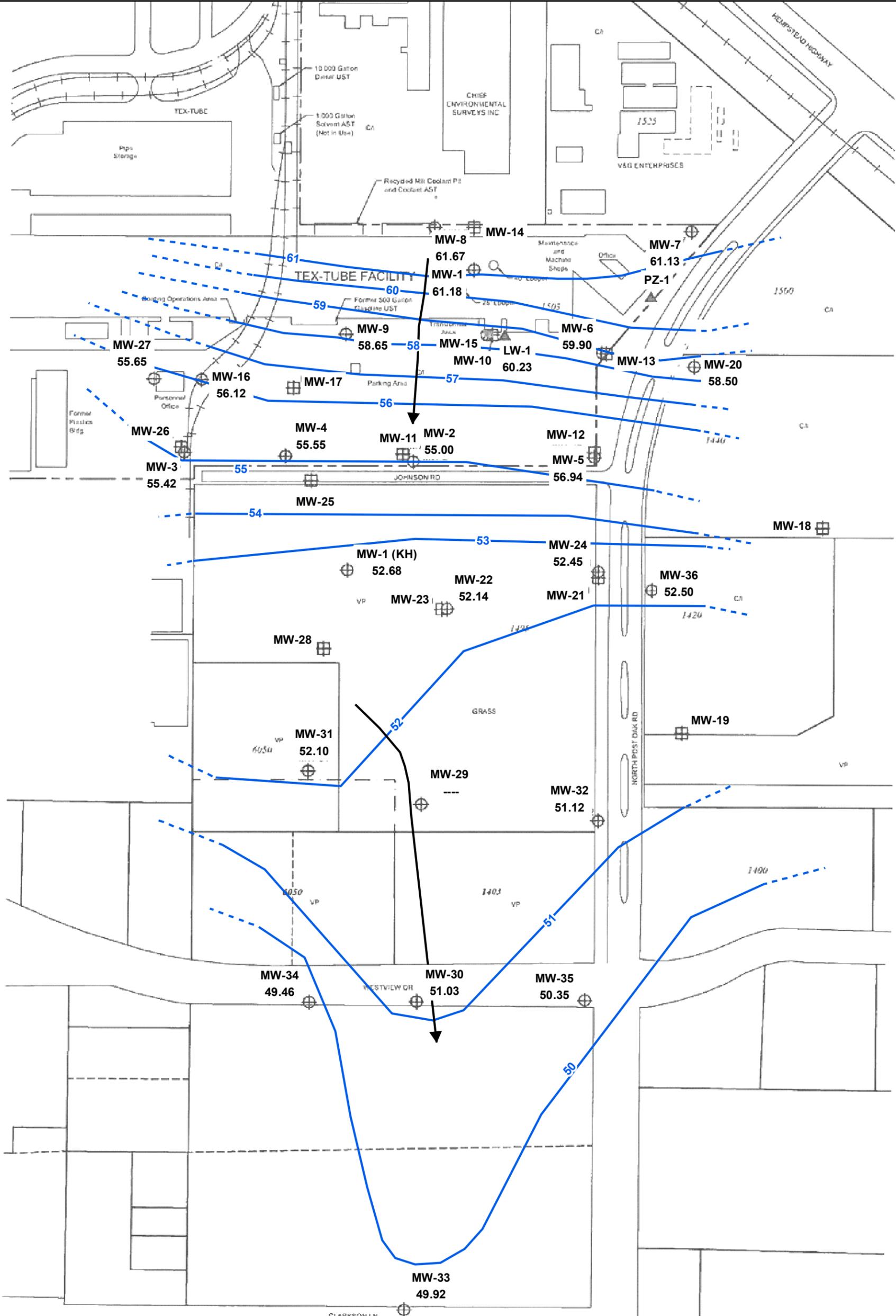
1503 STREET ADDRESS



NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS. COM
2. THE LOCATION OF MW-1 IS APPROXIMATE

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM IV - OCTOBER 15, 2012		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C10



LEGEND:

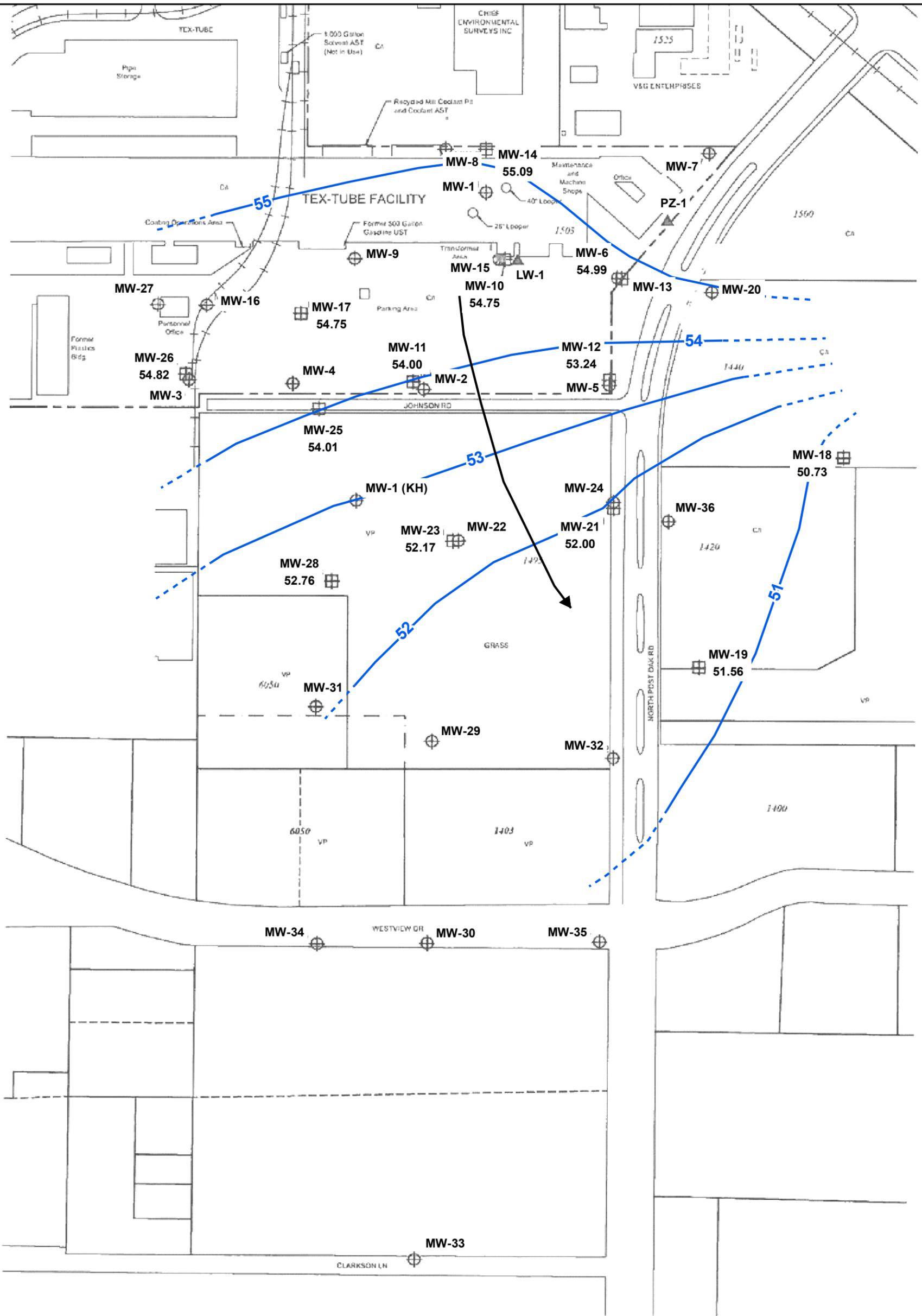
- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- 1503 STREET ADDRESS
- ⊕⊕⊕ RAILROAD TRACKS
- PROPERTY BOUNDARY
- APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION



NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS. COM
2. THE LOCATION OF MW-1 IS APPROXIMATE

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM II - MARCH 6, 2013		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C11



LEGEND:

- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- ++++ RAILROAD TRACKS
- PROPERTY BOUNDARY
- - - - - APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION

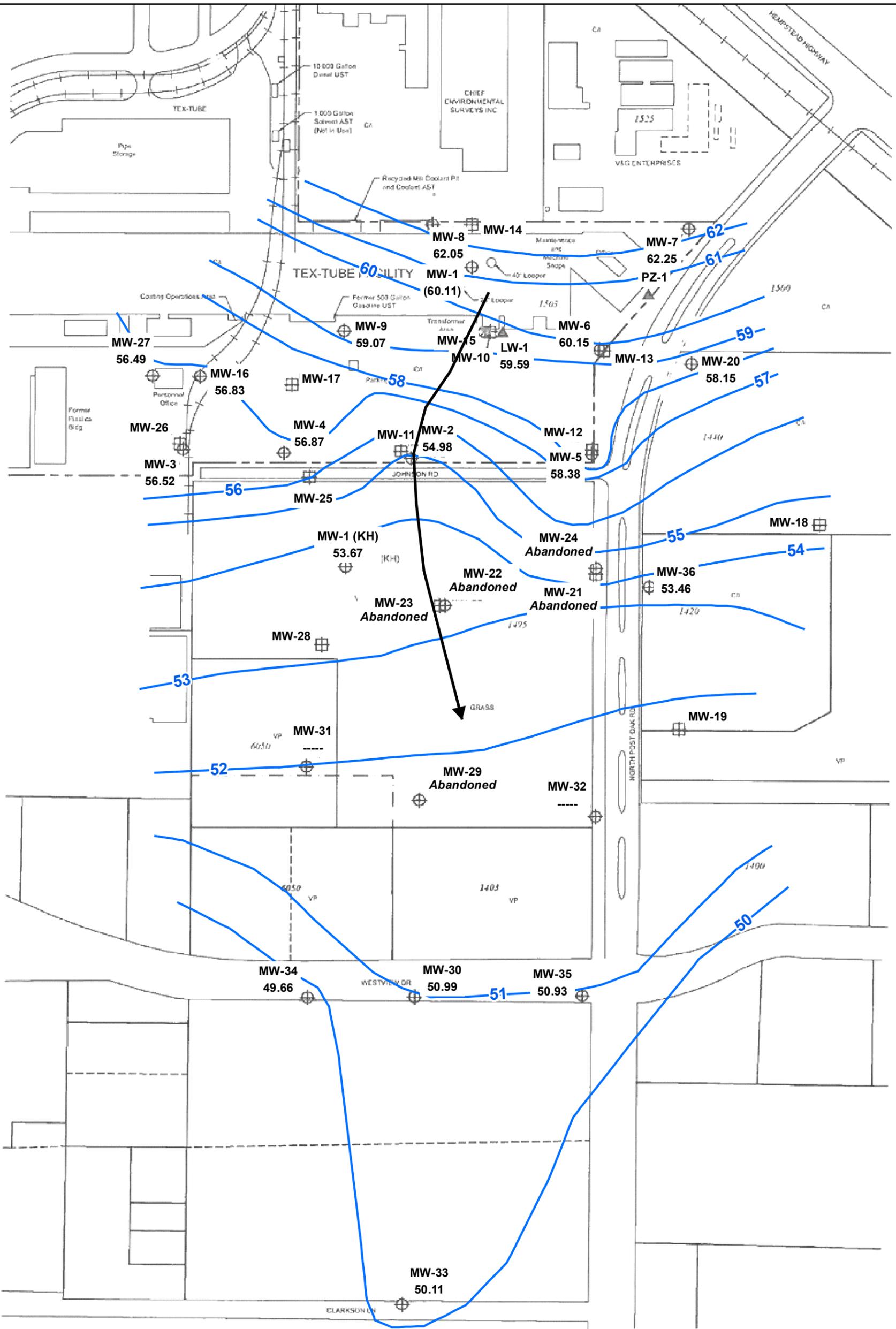
NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS. COM
2. THE LOCATION OF MW-1 IS APPROXIMATE

1503 STREET ADDRESS



KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM IV - MARCH 6, 2013		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C12



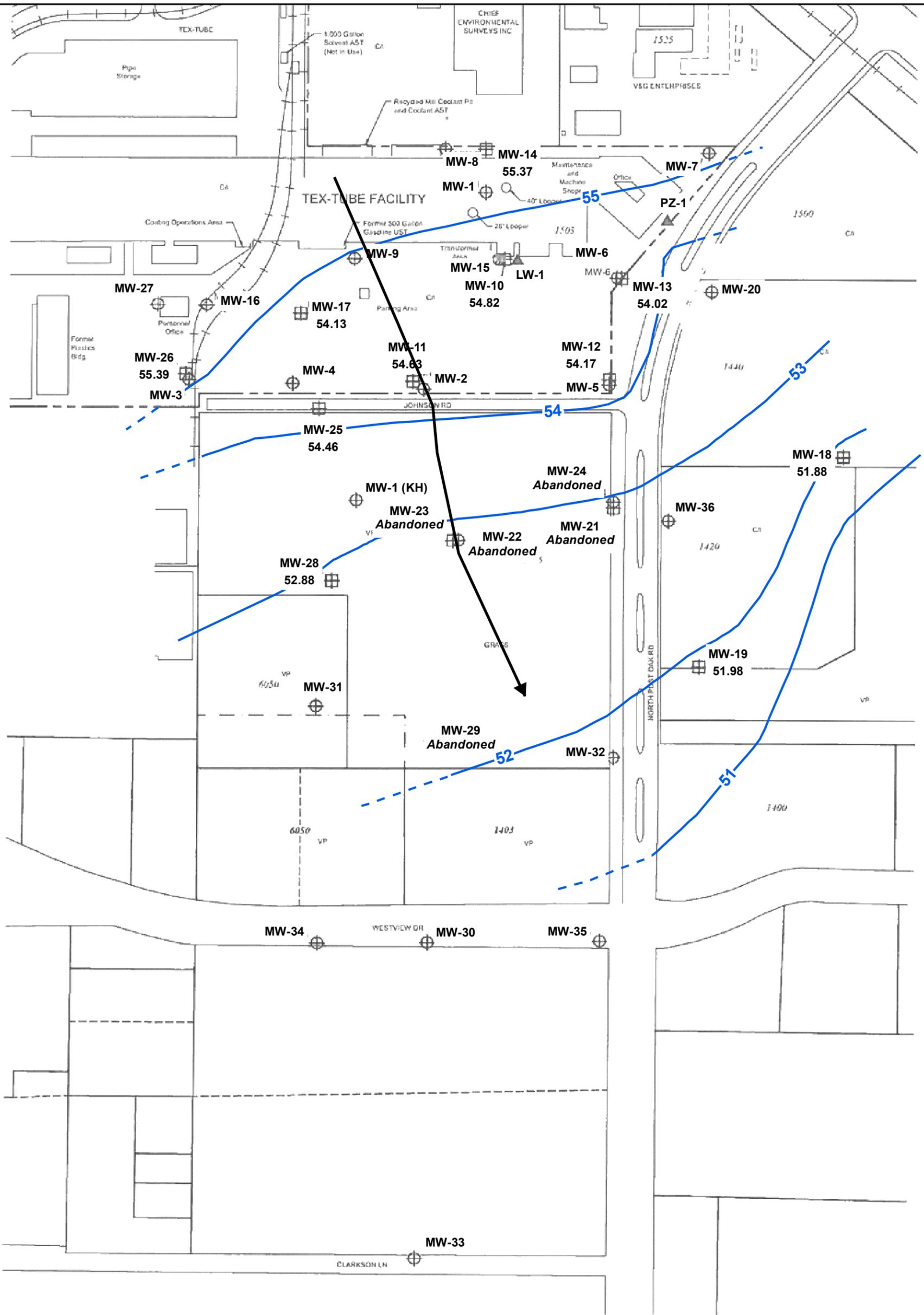
LEGEND:

- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- 1503 STREET ADDRESS
- ⊕⊕⊕ RAILROAD TRACKS
- PROPERTY BOUNDARY
- APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION

NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS.COM
2. THE LOCATION OF MW-1 IS APPROXIMATE
3. MONITORING WELLS ABANDONED IN MARCH 2013.

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM II - OCTOBER 29, 2013		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C13



LEGEND:

- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- ⊕⊕⊕ RAILROAD TRACKS
- PROPERTY BOUNDARY
- APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION

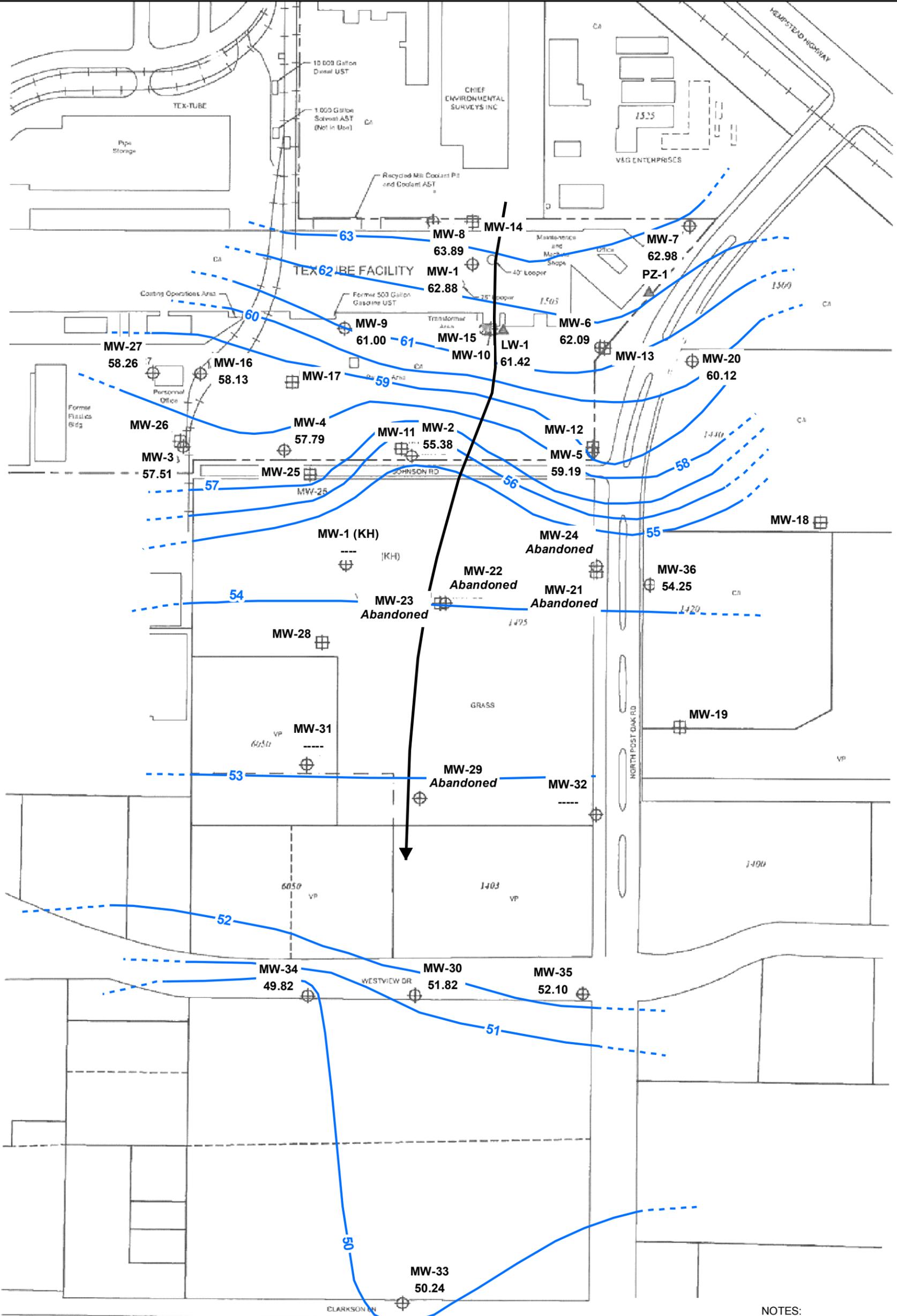
1503 STREET ADDRESS



NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS.COM
2. THE LOCATION OF MW-1 IS APPROXIMATE
3. MONITORING WELLS ABANDONED IN MARCH 2013.

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM IV - OCTOBER 29, 2013		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C14



LEGEND:

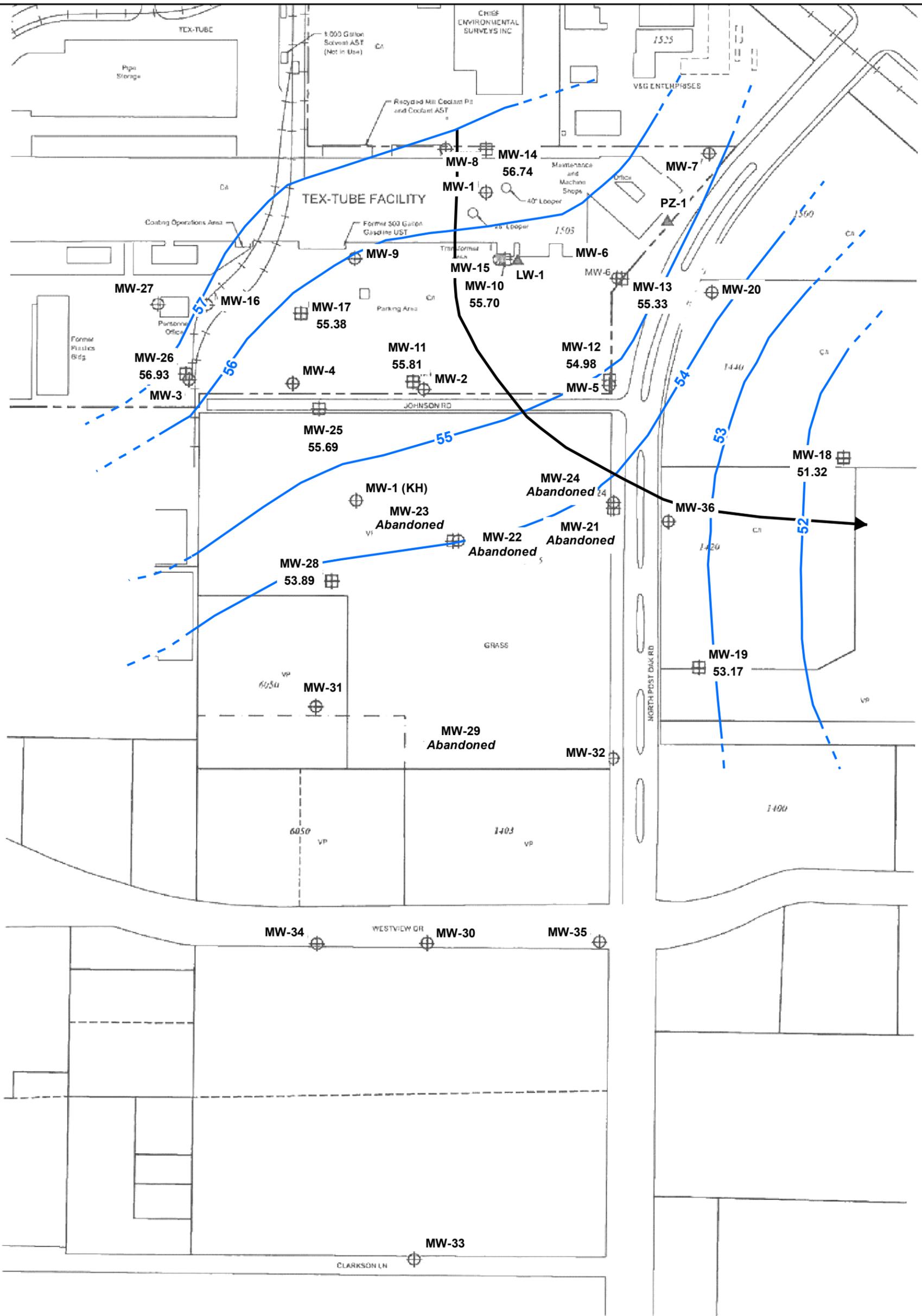
- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- 1503 STREET ADDRESS
- +++ RAILROAD TRACKS
- PROPERTY BOUNDARY
- - - - - APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION



NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS.COM
2. THE LOCATION OF MW-1 IS APPROXIMATE
3. MONITORING WELLS ABANDONED IN MARCH 2013.
4. --- WATER LEVEL NOT RECORDED.

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM II - APRIL 7, 2014		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C15



LEGEND:

- ⊕ STRATUM II MONITOR WELL
- ⊕ STRATUM IV MONITOR WELL
- ▲ STRATUM II PIEZOMETER
- VP VACANT PROPERTY
- C/I COMMERCIAL/INDUSTRIAL
- ⊕⊕⊕ RAILROAD TRACKS
- PROPERTY BOUNDARY
- APPROX. NEW PROPERTY BOUNDARY
- GROUNDWATER POTENTIOMETRIC CONTOUR
- ← FLOW DIRECTION

1503 STREET ADDRESS



NOTES:

1. HISTORICAL BUILDING LOCATIONS AND SITE FEATURES ARE BASED ON AERIAL PHOTOS AVAILABLE ON GOOGLE MAPS.COM
2. THE LOCATION OF MW-1 IS APPROXIMATE
3. MONITORING WELLS ABANDONED IN MARCH 2013.

KEMRON ENVIRONMENTAL SERVICES		KEMRON Environmental Services 2343-A State Route 821 Marietta, OH 45750	
PROJECT NO.	AK STEEL	DRAWING DATE:	04/16/2015
DESIGNED DRP	GROUNDWATER POTENTIOMETRIC SURFACE MAP STRATUM IV - APRIL 7, 2014		
DETAILED DRP			
CHECKED CM	LOCATION:	Houston, TX	FIGURE: C16

APPENDIX D

Provide for each contaminant of concern within the designated groundwater:

- a. A description of the ingestion protective concentration level exceedance zone and the non-ingestion protective concentration level exceedance zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.
- b. The level of contamination, the ingestion protective concentration level exceedance and the non-ingestion protective concentration level, all expressed as mg/L units.
- c. Its basic chemical properties (e.g. whether the contaminant of concern migrates with groundwater, floats, or is soluble in water).

a): An Affected Property Assessment Report (APAR) was completed in July 2005 by ERM consultants for AK Steel Corporation. The APAR was completed to address groundwater conditions following completion of an on-site soil investigation and remediation. The affected medium of interest at the site requiring response action is groundwater in the two uppermost water-bearing units: Stratum II (Uppermost Transmissive Zone) and Stratum IV (Second Transmissive Zone). The groundwater ingestion PCL Exceedance Zone for both Stratum II and Stratum IV groundwater is depicted in semi-annual reports submitted to TCEQ and on Figures C5 & C6. No non-ingestion PCLs are exceeded, therefore a non-ingestion PCL exceedance zone is not depicted.

Stratum II consists of a sandy-silt formation located between 22 to 27 feet below ground surface. The primary constituents of concern (COCs) within Stratum II are volatile organic compounds (VOCs), namely chlorinated organics including 1,1-dichloroethene, cis- and trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride. The Stratum II PCLE zone containing the above VOCs extends southward from the facility onto neighboring commercial/industrial and undeveloped properties in the direction of groundwater flow. A second, smaller and isolated Stratum II impacted groundwater area containing benzene also exists on facility property slightly west of the other delineated PCLE zone but is confined to a small area.

Stratum IV consists of a sand with sandy-silt formation located between 45 to 55 feet below ground surface. COCs in Stratum IV groundwater are limited primarily to tetrachloroethene and trichloroethene, with the ingestion PCLE zone extending to neighboring properties to the south, east and southeast. No drinking water wells have been identified to exist within either Stratum II or IV groundwater plume boundaries.

Groundwater samples have been analyzed for site-specific constituents of concern (COCs) agreed to by the TCEQ since completion of the APAR in 2005. The groundwater analytical results have been compared with the Texas Risk Reduction Program (TRRP) Tier 1 Residential GW-GW-Ing Protective Concentration Levels (PCLs).

In addition to the identified Stratum II and Stratum IV transmissive zones, overlying and intervening strata identified in the APAR consist of Stratum I (unsaturated soil/clay zone from ground surface to saturated Stratum II), Stratum III (clay layer between Stratum II and IV), and Stratum V (clay layer below Stratum IV). The Stratum II groundwater plume, as depicted within the most recent 2014 groundwater data report (**Figure C5**, in Appendix C), extends approximately 1,500-ft southerly from the source area at Tex-Tube Company to just south of Westview Drive, and is less than 500-ft in width. The Stratum II groundwater plume is identified as a co-mingled plume, with additional source from property to the north, along its eastern boundary. As reported within the 1st Half 2014 Groundwater Data Report (KEMRON, 2014), the groundwater gradient for Stratum II was approximately 0.012 feet/foot on site, decreasing to 0.0028 feet/foot south of the site.

The Stratum IV groundwater plume is approximately 700-ft in diameter, is more circular in shape, and centered closer to the source area (active operation areas) on facility property (**Figure C6**, in Appendix C). The groundwater gradient for Stratum IV was calculated to be approximately 0.0063 feet/foot across the site.

The 2005 APAR indicates that a neighboring property to the north of the facility (V&G Enterprises, 1525 North Post Oak Road, TCEQ VCP ID 0340 and 462) also has a documented groundwater issue with COCs similar to that of the Tex-Tube Company. Historical documents indicate that a significant portion of the affected ground water northeast of the TexTube facility property is attributable to this off-site source, presenting itself as a comingled plume along the east of the plume boundary. The area suspected as being comingled is designated by dashed line on Figure C5.

In 2010, a groundwater extraction and treatment system was installed. The system included a series of six (6) extraction wells and 14 injection wells operating within both the Stratum II and Stratum IV formations. The system became operational in November 2010 running more or less continuously, including various system adjustments, until September 2011, at which time the system was idled. During the period of continuous operation, operational information indicates that the system extracted groundwater at a total combined rate averaging 3 to 4 gallons per minute. Extracted groundwater was processed through an above-ground treatment plant which included carbon filtration and air stripping primarily. Treated groundwater was then reinjected into the subsurface. Operational information for November 2010 through September 2011 indicates that a total of 4.3 million gallons of water was extracted and treated, with a total organic mass removal calculated to be 47.8 pounds. The system was idled in 2011 and has not been operational since.

b): Monitored groundwater COCs (benzene, 1,1-dichloroethene, cis- and trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride) and their respective reported concentrations are summarized in detail in data tables presented within Appendix E. The following table summarizes the maximum concentration detected in groundwater, the Tier 1 ingestion protective concentration level exceedance level and the Tier 1 non-ingestion protective concentration level, all expressed in mg/L units.

COC (mg.L)	CAS	GW-GW-Ing	Air-GW-InhV	Max Conc
Benzene	71-43-2	0.005	85	2.4
1,1-Dichloroethene	75-35-4	0.007	1,400	0.059
cis-1,2-Dichloroethene	156-59-2	0.070	23,000	10
trans-1,2-Dichloroethene	156-60-5	0.10	14,000	0.16
Trichloroethene	79-01-6	0.005	270	1.4
Tetrachloroethene	127-18-4	0.005	840	11.6
Vinyl Chloride	75-01-4	0.002	6.1	0.35

c):Groundwater COCs for this MSD application consist of chlorinated solvents which are soluble in groundwater at low concentrations, and exhibit other characteristics such as high volatility and density, low viscosity, low absolute solubility and high relative solubility. Under extreme conditions, solvent COCs may occur as a separate phase if concentrations exceed the level of saturation for a particular COC. This does not appear to be the case for this site as no non-aqueous phase liquid (NAPL) has been indicated to be present. Industrial cleaning agents containing tetrachloroethene and trichloroethene compounds, which are often a source for groundwater contamination on industrial properties, have been shown to dechlorinate naturally through various processes over time forming subsidiary constituents including dichloroethene compounds, vinyl chloride, and ethane as a dechlorinated endpoint.

APPENDIX E

Provide a table displaying the following information for each contaminant of concern, to the extent known:

- a. The maximum concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/kg units for soils and mg/L units for groundwater.
 - b. The critical protective concentration level without the municipal setting designation, highlighting any exceedences.
-

Soil COCs:

Several VOC, SVOC, metals, TPH, and PCB were detected in subsurface soil at concentrations exceeding the TRRP Tier 1 Soil-GW-Ing PCLs. These exceedance detections are summarized in Table E-1.

Groundwater COCs:

VOCs, including benzene, 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride were detected at concentrations exceeding their respective TRRP GW-GW-Ing Tier 1 PCLs. These exceedance detections are summarized in Table E-2.

COC detections which exceed the critical PCL (GW/GW/Ing) are highlighted on the respective tables.

Table E-1. The Maximum COC Concentration in Soil at Textube

Chemical	Tot ² Soil _{Comb}			GW ² Soil _{Ing}			Air ⁴ Soil _{Inh-V}			Concentration
	Value	Tier	Source Area Size (acres)	Value	Tier	Source Area Size (acres)	Value	Tier	Source Area Size (acres)	Maximum
1,1-Dichloroethene	6400	1	0.5	0.05	1	0.5	7300	1	0.5	0.091
Tetrachloroethene	1400	1	0.5	0.05	1	0.5	1600	1	0.5	4.6
Trichloroethene	40	1	0.5	0.034	1	0.5	43	1	0.5	0.069
Methylene Chloride	12000	1	0.5	0.013	1	0.5	21000	1	0.5	0.016
Benzene	240	1	0.5	0.026	1	0.5	270	1	0.5	0.52
Arsenic	200	1	0.5	5	1	0.5	NA	1	0.5	27
Barium	120000	1	0.5	440	1	0.5	NA	1	0.5	560
Lead	1600	1	0.5	3	1	0.5	NA	1	0.5	20
TPH	3900*	1	0.5	190*	1	0.5	21000	1	0.5	6230
PCB	7.7	1	0.5	11	1	0.5	91	1	0.5	21

NA - No PCL

All results in mg/kg

* - PCL is broken down by Carbon Count, so the lowest value was selected

Max value exceeds the ^{GW}Soil_{Ing}

Table E-2. The Maximum COC Concentration in Groundwater at Textube

Chemical	Ingestion PCL		Non-Ingestion PCL		Maximum
	Value	Tier	Value	Tier	Value
1,1-Dichloroethene	0.007	1	1400	1	0.059
Benzene	0.005	1	85	1	2.4
cis-1,2-Dichloroethene	0.07	1	23000	1	10
Tetrachloroethene	0.005	1	840	1	11.6
trans-1,2-Dichloroethene	0.1	1	14000	1	0.16
Trichloroethene	0.005	1	270	1	1.4
Vinyl chloride	0.002	1	6.1	1	0.35

All Values in mg/L

 Max value exceeds the Ingestion PCL

APPENDIX F

If the plume extends beyond the limits of property owners listed in this application, list the owners of additional property beneath which the plume(s) extend(s), and a summary of interactions with those property owners about the plume(s) and this MSD application. Note: You are not required under this item to notify affected property owners, only to provide a summary of who affected property owners are, and if there have been any communications. "No contact" can be an acceptable answer.

No contact has been made with property owners other than those listed within this application.

APPENDIX G

Provide a statement as to whether the source of the plume has been removed, the plume is stable (i.e., no change) or contracting, and the plume is delineated, **with the basis for that statement.** Please include historical sampling data.

Monitoring data indicate that affected groundwater plumes are delineated and demonstrated as stable, supported by the following information:

An Affected Property Assessment Report (APAR) was completed in July 2005 for AK Steel Corporation at which time a groundwater organic contaminant plume was delineated. The specific point of origin for the existing groundwater contaminant plume is not precisely known, however, it is assumed to be from undetermined releases from underground and above ground storage tanks, the looper pit area of Building No. 1, and storage areas associated with historical facility operations. The approximate point of origin for the existing groundwater organic contaminant plume is toward the eastern side of the current Tex-Tube property, and directionally trends in a southward direction. The organic contaminant plume is considered to be stable.

A groundwater extraction and treatment system was installed and operational from November 2010 through September 2011 to remediate the larger chlorinated organic plume. The system was idled in 2011 and has allowed for monitoring of groundwater under static conditions. While in operation, a total of 4.3 million gallons of water was extracted and treated, with a total organic mass removal calculated to be 47.8 pounds.

Groundwater analytical data for volatile organic COCs within plume monitoring wells were evaluated for plume concentration trends using available online tools such as Mann-Kendall Trend Analysis. Groundwater concentration data is available for up to 24 individual sampling events in numerous wells on the site property dating as far back as 1994 (groundwater data summary tables are contained in Appendix E). Trend analyses were performed for eight (8) different monitoring wells (LW-1, MW-1, MW-2, MW-5, MW-22, MW-24, MW-30 and MW-36) within Stratum II containing COCs with consistent detections over time; including 1,1-dichloroethene (1,1-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride (VC). Trend analyses were also

performed for four (4) different monitoring wells (MW-10, MW-11, MW-19, MW-21) within Stratum IV with consistent COC detections for PCE and TCE. Lastly, benzene concentration trends within the separate impacted Stratum II area were evaluated for three (3) wells with consistent detections (MW-4, MW-9, MW-16).

Trend data for the above wells is based on approximately quarterly to semiannual calendar year sampling intervals beginning with data from the most recent sampling event (April 2014) moving back through time to approximately 2009-2010. Several of the wells have data dating back as far as 1994-1995, however, only the more recent approximately 4 years of data was utilized for the trend analysis. Complete tabulated analytical data summaries for all sampling events are provided on data summary tables contained within Appendix E. Mann-Kendall spreadsheets follow this summary within this appendix. The spreadsheets provide trend summaries on an 8-quarter grouping basis as well as a full 16-quarter (4 year) overall basis. The following summary presents the overall 4 year trend summary on a well by well basis per COC unless otherwise noted.

Stratum II Concentration Trends

Within Stratum II, concentration trends for 1,1-DCE were evaluated for wells LW-1, MW-1, MW-22 and MW-30 as these wells contained sufficient detections of this COC over the evaluation period. Over the 16 quarter (4 year) period, 1,1-DCE concentrations were evaluated as stable in wells LW-1, MW-1 and MW-30, and decreasing in MW-22.

Concentration trends for PCE were evaluated for wells LW-1, MW-1, MW-2, MW-5, MW-22, MW-24 and MW-36. For the 4 year period, a stable trend was indicated for wells LW-1, MW-1, MW-2, MW-5, MW-24 and MW-36, and a decreasing trend was indicated for MW-22. It is noted however, that although a statistically stable trend was indicated for well MW-36, that a general increase in PCE concentration trend is plotted on the graph for the last several sampling events. Wells MW-24 and MW-36 are situated close to one another along the east side boundary of the organic plume. MW-24 was abandoned in 2013 due to site area construction activities and is no longer available for sampling.

Concentration trends for TCE were evaluated for wells LW-1, MW-1, MW-2, MW-5, MW-22, MW-24 and MW-36. For the 4 year period, a stable trend was indicated for each of the wells. It is noted however, that although a statistically stable trend was indicated for wells MW-24 and MW-

36, that a general increase in TCE concentration trend was plotted for both of these wells on their respective graphed data plots. Wells MW-24 and MW-36 are situated close to one another along the east side boundary of the organic plume. MW-24 was abandoned in 2013 due to site area construction activities and is no longer available for sampling.

Concentration trends for VC were evaluated for wells LW-1, MW-1, MW-2, MW-22 and MW-30. For the 4 year period, a stable trend was indicated for wells LW-1, MW-1, MW-2 and MW-22. For well MW-30, an increasing concentration trend was indicated. VC has been detected slightly above the TCEQ Tier 1 Protective Concentration Level (PCL) of 2 ug/L in the last two semiannual sampling events. VC has been detected in four successive sampling events between October 2012 and April 2014. Prior to 2012, VC was undetectable (<0.5 ug/L) in all previous sampling events dating back to 2008. Well MW-30 is located at the southern terminus of the organic plume. The detections of VC are considered a result of natural attenuation processes involving dechlorination of 1,1-DCE and related constituents. The presence of dechlorination byproducts including vinyl chloride as a near endpoint constituent, while indicating an increasing concentration trend in MW-30 over recent sampling events, serves as an indicator of natural attenuation in effect as an ongoing process.

Stratum IV Concentration Trends

Within Stratum IV, concentration trends for PCE were evaluated for wells MW-10, MW-11, MW-19, MW-21. For the 4 year period, a stable trend was indicated for each of the wells.

Concentration trends for TCE were evaluated for wells MW-10, MW-11, MW-19, MW-21. For the 4 year period, a stable trend was indicated for each of the wells.

The Mann-Kendall trend information for both the Stratum II and Stratum IV monitoring wells provides a 4 year trend summary on a well-by-well basis per COC. When viewed on a well-by-well basis per COC, certain graphical plots appear to indicate that some individual COCs are increasing in concentration. In the case of TCE for in MW-24 and MW-36, and VC in MW-30, for example, this may imply that plume conditions are changing, where in actuality, the Mann-Kendall trend analyses demonstrate that conditions are stable.

Stratum II Concentration Trends for Separate Benzene-Affected Groundwater Area

A separate smaller and confined area of benzene-impacted groundwater is also located on the current Tex-Tube Company which encompasses three groundwater monitoring wells as a separate plume body. This area is located to the west of the principal organic contaminant plume. Concentration trends for benzene were evaluated for wells MW-4, MW-9 and MW-16. For the 4 year period, a stable trend was indicated for each of the wells.

Mann Kendall Trend Evaluation

Contaminant: Benzene - Stratum II

Monitoring Inputs

Quarter	MW-4 ug/l	MW-9 ug/l	MW-16 ug/l	ug/l	ug/l
1	69	280	3.6		
2	40	710	3		
3	240	530	2.1		
4	280	140	3.5		
5					
6	75	570	2.9		
7					
8	89	75	1.9		
9					
10	42	64	7.8		
11					
12	50	500	7.1		
13					
14	5.8	500	8.6		
15	33.6	102	6.61		
16	8.48	352	2.96		

Data Entry Cell

Mann-Kendall Results

0-9 Quarter Evaluation

MW-4	MW-9	MW-16
Stable/No Trend	Decreasing	Decreasing
0	0	0
Stable/No Trend	Stable/No Trend	Stable/No Trend

5-12 Quarter Evaluation

MW-4	MW-9	MW-16
Stable/No Trend	Stable/No Trend	Stable/No Trend
0	0	0
Stable/No Trend	Stable/No Trend	Stable/No Trend

9-16 Quarter Evaluation

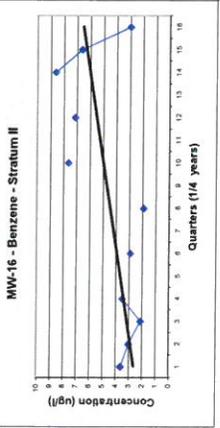
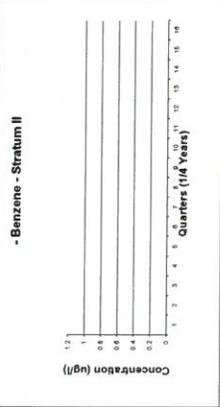
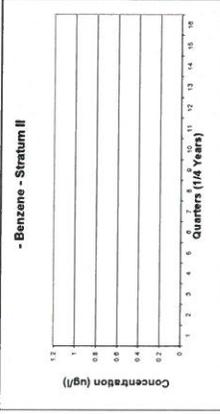
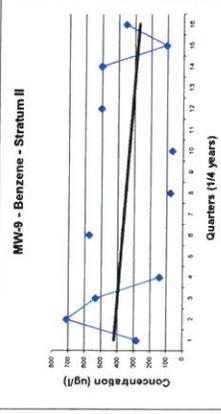
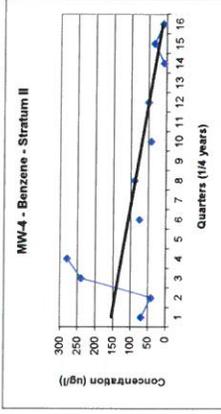
MW-4	MW-9	MW-16
Stable/No Trend	Stable/No Trend	Stable/No Trend
0	0	0
Stable/No Trend	Stable/No Trend	Stable/No Trend

12 Quarter Evaluation

MW-4	MW-9	MW-16
Stable/No Trend	Stable/No Trend	Stable/No Trend
0	0	0
Stable/No Trend	Stable/No Trend	Stable/No Trend

16 Quarter Evaluation

MW-4	MW-9	MW-16
Stable/No Trend	Stable/No Trend	Stable/No Trend
0	0	0
Stable/No Trend	Stable/No Trend	Stable/No Trend



Mann Kendall Trend Evaluation

Contaminant: **11-DCE -Stratum II**

Monitoring Inputs

Quarter	LW-1 ug/l	MW-1 ug/l	MW-22 ug/l	MW-30 ug/l
1			12	8.9
2	19	4.7	9.7	
3				8
4	16	6.4	11	
5				6.3
6	24	4.9	9.3	
7				9
8	8.4	4.6	7.7	
9				8.5
10	14.4	3	7.9	8.45
11				
12	4.95	2.4	5.3	17.2
13				
14	4.22	1.46	4.84	22.2
15				
16	2.93	3.28	4.32	24.8

□ Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Decreasing
MW-30	Stable/No Trend
	0 Stable/No Trend

5-12 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-30	Stable/No Trend
	0 Stable/No Trend

9-16 Quarter Evaluation

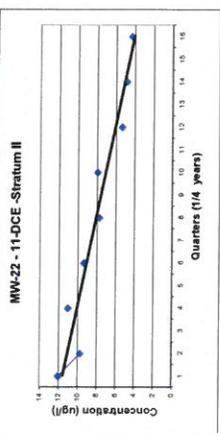
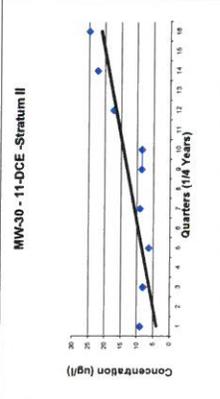
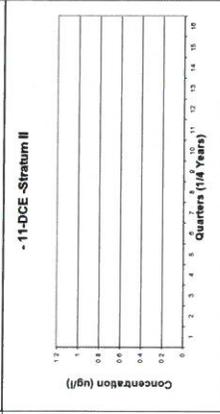
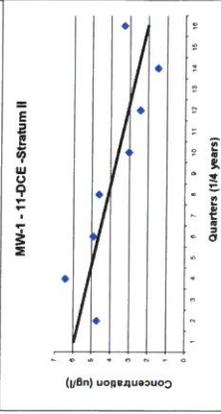
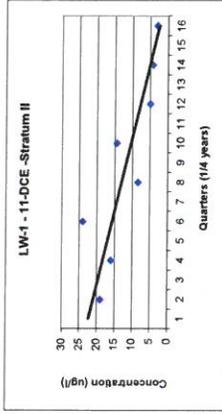
LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-30	Stable/No Trend
	0 Stable/No Trend

12 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-30	Stable/No Trend
	0 Stable/No Trend

16 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Decreasing
MW-30	Stable/No Trend
	0 Stable/No Trend



Mann Kendall Trend Evaluation

Contaminant: **PCE - Stratum II**

Monitoring Inputs

Quarter	LW-1 ug/l	MW-1 ug/l	MW-22 ug/l	MW-24 ug/l	MW-36 ug/l
1			260	26	22
2	8.3	240	240	19	9.1
3				17	
4	12	190	220	9.5	10
5				7.8	
6	1.7	190	220	12	20
7				11	
8	0.6	120	150		12
9				11	
10	2.23	131	150		24.5
11				9.7	
12	1.11	216	150		47
13				6.7	
14	0.88	235	145	18	59
15				19.4	
16	0.73	236	104	24.9	54

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Decreasing
MW-24	Decreasing
MW-36	Stable/No Trend

5-12 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-24	Stable/No Trend
MW-36	Stable/No Trend

9-16 Quarter Evaluation

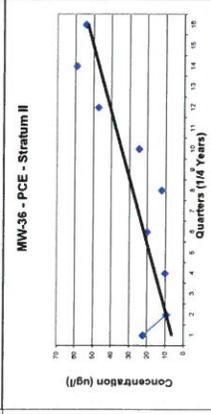
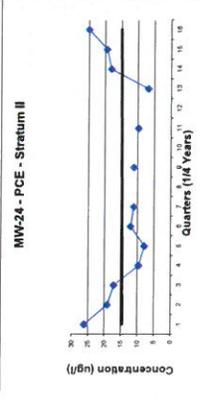
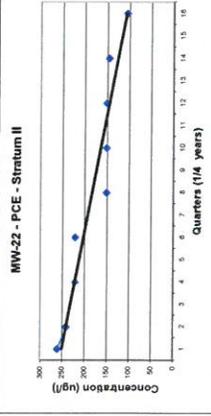
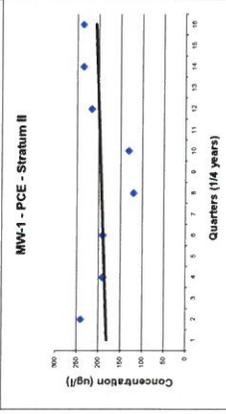
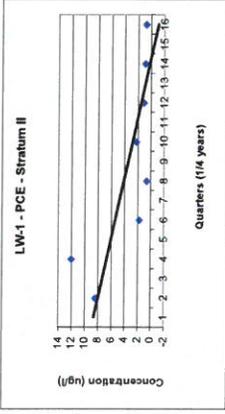
LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-24	Increasing
MW-36	Stable/No Trend

12 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Decreasing
MW-24	Decreasing
MW-36	Stable/No Trend

16 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Decreasing
MW-24	Stable/No Trend
MW-36	Stable/No Trend



Mann Kendall Trend Evaluation

Contaminant: **PCE - Stratum II**

Monitoring Inputs

Quarter	MW-2 ug/l	MW-5 ug/l	ug/l	ug/l	ug/l
1					
2	170	23			
3					
4	44	13			
5					
6	25	2.8			
7					
8	12	4.9			
9					
10	12.1	9.41			
11					
12	18.3	12.1			
13					
14	10.2	9			
15					
16	15	1.8			

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-2	Stable/No Trend
MW-5	Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend

5-12 Quarter Evaluation

MW-2	Stable/No Trend
MW-5	Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend

9-16 Quarter Evaluation

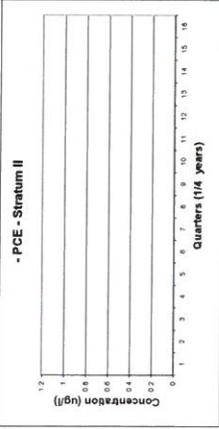
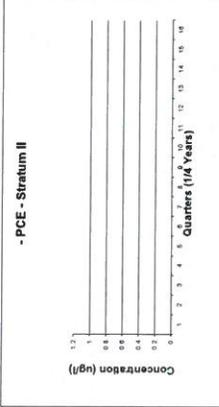
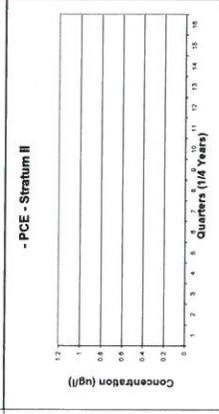
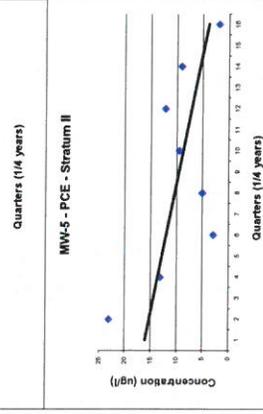
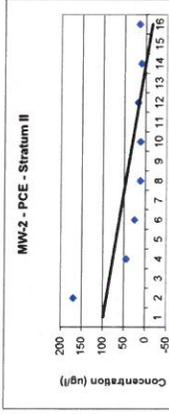
MW-2	Stable/No Trend
MW-5	Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend

12 Quarter Evaluation

MW-2	Stable/No Trend
MW-5	Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend

16 Quarter Evaluation

MW-2	Stable/No Trend
MW-5	Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend
	0 Stable/No Trend



Mann Kendall Trend Evaluation

Contaminant: **TCE - Stratum II**

Monitoring Inputs

Quarter	LW-1 ug/l	MW-1 ug/l	MW-22 ug/l	MW-24 ug/l	MW-36 ug/l
1			79	4.8	16
2	46	160	74	3.7	4.4
3					
4	11	130	80	4.8	5.2
5				5.5	
6	11	110	100	4.9	11
7					
8	3.4	76	80	5.5	8.8
9					
10	7.19	124	91	3.1	14.9
11					
12	2.98	133	86	13	22.3
13					
14	2.46	106	91	34.5	26.2
15					
16	2.34	173	55.7	57.1	27.1

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-24	Stable/No Trend
MW-36	Stable/No Trend

5-12 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-24	Stable/No Trend
MW-36	Stable/No Trend

9-16 Quarter Evaluation

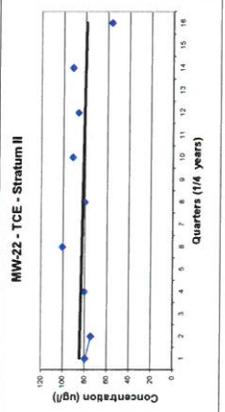
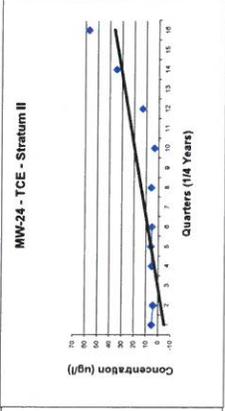
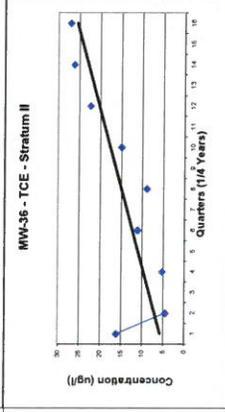
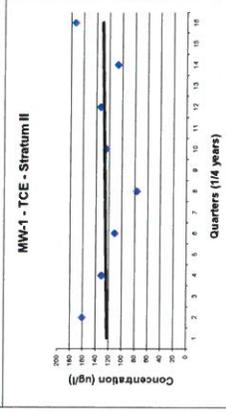
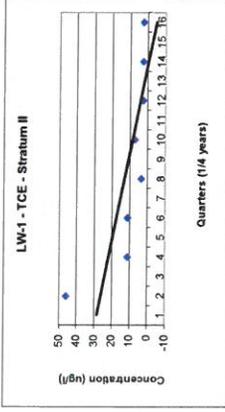
LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-24	Stable/No Trend
MW-36	Stable/No Trend

12 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-24	Stable/No Trend
MW-36	Stable/No Trend

16 Quarter Evaluation

LW-1	Stable/No Trend
MW-1	Stable/No Trend
MW-22	Stable/No Trend
MW-24	Stable/No Trend
MW-36	Stable/No Trend



Mann Kendall Trend Evaluation

Contaminant: **VC - Stratum II**

Monitoring Inputs

Quarter	MW-1 ug/l	LW-1 ug/l	MW-2 ug/l	MW-22 ug/l	MW-30 ug/l
1				0.5	
2	24	88	6.9	0.8	0.5
3				1.2	
4	4.4	27	7.4	1.1	0.5
5					
6	2.5	16	0.7	1.2	1
7					
8	2.9	16	1	1.8	1
9					
10	1.7	7.7	0.5	0.9	0.5
11	2.43	14.2	1		0.53
12	4.45	2.48	0.4	1.2	1.1
13					
14	2.18	2.48	1	0.5	2.1
15				1.32	
16	2.83	1.63	1	1	2.6

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-1	Stable/No Trend
LW-1	Stable/No Trend
MW-2	Stable/No Trend
MW-22	Stable/No Trend
MW-30	Stable/No Trend

5-12 Quarter Evaluation

MW-1	Stable/No Trend
LW-1	Stable/No Trend
MW-2	Stable/No Trend
MW-22	Stable/No Trend
MW-30	Stable/No Trend

9-16 Quarter Evaluation

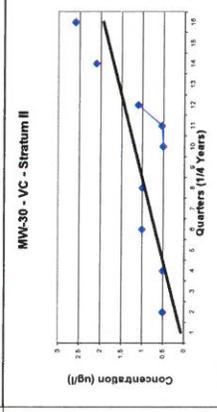
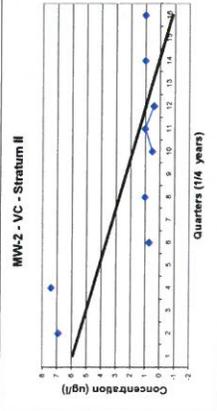
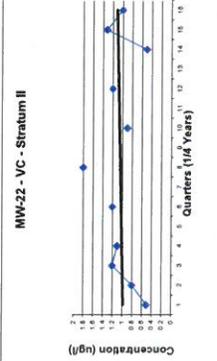
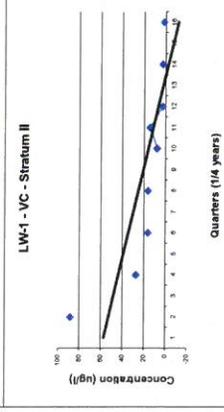
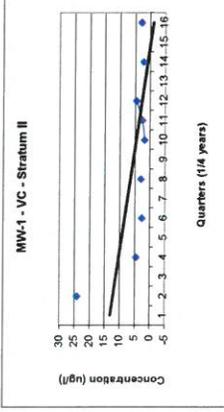
MW-1	Stable/No Trend
LW-1	Stable/No Trend
MW-2	Stable/No Trend
MW-22	Increasing
MW-30	Increasing

12 Quarter Evaluation

MW-1	Stable/No Trend
LW-1	Stable/No Trend
MW-2	Stable/No Trend
MW-22	Stable/No Trend
MW-30	Increasing

16 Quarter Evaluation

MW-1	Stable/No Trend
LW-1	Stable/No Trend
MW-2	Stable/No Trend
MW-22	Stable/No Trend
MW-30	Increasing



Mann Kendall Trend Evaluation

Contaminant: **PCE-Stratum IV**

Monitoring Inputs

Quarter	MW-10 ug/l	MW-11 ug/l	MW-19 ug/l	MW-21 ug/l
1				18
2	50	56	7.4	12
3				
4	87	65	13	24
5				
6	110	54	16	81
7				
8	62	33	0.6	56
9				
10	31.5	54.2	8.38	53
11				
12	50.2	55.9	1	67
13				
14	39.8	76.6	0.31	149
15				
16	43	124	0.33	141

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
	0 Stable/No Trend

5-12 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
	0 Stable/No Trend

9-16 Quarter Evaluation

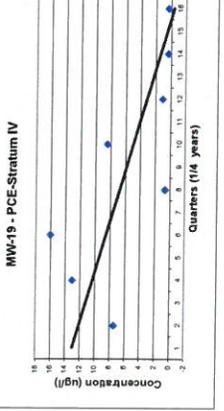
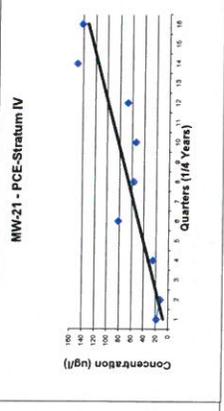
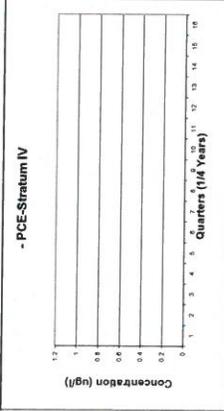
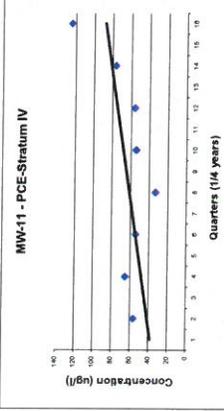
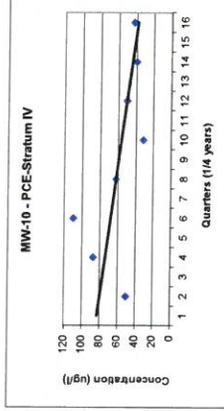
MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
	0 Stable/No Trend

12 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
	0 Stable/No Trend

16 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
	0 Stable/No Trend



Mann Kendall Trend Evaluation

Contaminant: **TCE - Stratum IV**

Monitoring Inputs

Quarter	MW-10 ug/l	MW-11 ug/l	MW-19 ug/l	MW-21 ug/l
1			1.5	5.5
2	5.4	11	0.5	5.1
3				
4	6	16	3.2	6.9
5				
6	6	12	5.7	18
7				
8	3.3	8.3	0.5	14
9				
10	1.94	10.9	3.5	10
11				
12	3.09	10.5	1	13
13				
14	3.12	13	1	27.2
15				
16	3.47	18.6	1	26.1

Data Entry Cell

Mann-Kendall Results

0-8 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
0	Stable/No Trend

5-12 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
0	Stable/No Trend

9-16 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
0	Stable/No Trend

12 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
0	Stable/No Trend

16 Quarter Evaluation

MW-10	Stable/No Trend
MW-11	Stable/No Trend
MW-19	Stable/No Trend
MW-21	Stable/No Trend
0	Stable/No Trend

