

CITY OF HOUSTON



HOUSTON PUBLIC WORKS
HOUSTON WATER DIVISION

EXECUTIVE SUMMARY

The 4.2367-acre Designated Property for which this Municipal Setting Designation (MSD) application has been submitted consists of one contiguous property comprised of two adjacent parcels. The 4.2367-acre Designated Property is owned by Tuffli Company Inc. (applicant, represented by Mr. Don Carruth) and located at 1685 and 1695 South Street in Houston, Harris County, Texas. The Designated Property is located along Buffalo Bayou Tidal and is bordered by Buffalo Bayou Tidal to the west, a railroad and parking lot to the south, vacant properties to the east, and commercial properties to the north. The property is being enrolled in the Texas Commission of Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP) and has been assigned the program ID VCP No. 3267 and regulated entity number RN101462182.

The Designated Property has been developed for commercial/industrial use since 1890. The 1.9-acre parcel, addressed 1695 South Street, was previously owned by Skypark Corporation and was acquired by Tuffli in 2022. The 2.3-acre parcel, addressed 1685 South Street, was acquired by Tuffli from Southern Pacific Railroad in 1998.

A Phase I Environmental Site Assessment (ESA) was conducted by Associated Environmental Consultants, Inc. (AEC) in October 1995 for the Site to determine the presence of recognized environmental conditions (RECs) from present and/or historical activities at the Site. The Phase I identified several RECs for which AEC conducted a subsequent Phase II ESA investigation to determine potential impacts. During the Phase II ESA, three soil borings and one monitoring well were installed and concentrations of total petroleum hydrocarbons (TPH), toluene, ethylbenzene, and xylene were found in the soil. AEC submitted an Affected Property Assessment Report (APAR) for the Site to the TCEQ in 2002 under VCP No. 1348, which was rejected due to the lack of delineation of the contaminants of concern (COCs).

An additional Phase I ESA was conducted by Arcadis for the Site in 2007. A Phase II ESA was then initiated by Malcom Pirnie which included six permanent monitoring wells, two temporary monitoring wells, and four soil borings. Concentrations of metals, TPH and volatile organic compounds (VOCs) were identified at concentrations exceeding residential assessment levels (RALs) in soil and groundwater.

Braun Intertec conducted an additional Phase II ESA of the 1.9-acre property in 2019, which included the installation of five monitoring wells and nine soil borings at the Site. Additional delineation soil borings, three temporary monitoring wells, and a permanent monitoring well were installed at the Site between December 2019 and 2022 to further assess and delineate impacts at the Site. Arsenic has been identified in groundwater at concentrations exceeding the groundwater ingestion protective concentration level

(PCL). VOCs, semivolatile organic compounds (SVOCs), metals, and TPH were identified in soil at concentrations exceeding RALs. Five groundwater monitoring events have been performed at the Site.

TGE performed a limited Phase II for the 2.3-acre parcel in 2022, in which 11 temporary monitoring wells were installed at the Site and soil and groundwater samples were analyzed for metals, VOCs, SVOCs, PCBs, pesticides, herbicides, and TPH. Metals were identified in soil at concentrations exceeding the RALs.

An APAR for VCP No. 3267 was submitted to the TCEQ on May 25, 2023, detailing the property assessment activities that have been conducted and their results.

Arsenic has been identified in groundwater underlying the property at concentrations exceeding the Texas Risk Reduction Program (TRRP) residential groundwater ingestion (^{GW}GW_{ing}) PCL. The arsenic plume has been delineated and is stable. There are no known active source areas on Site. Based on analytical results no COCs have been detected in groundwater at the Property at concentrations exceeding the non-ingestion PCLs.

Concentrations of TPH, arsenic, barium, cadmium, lead, selenium, benzene, 1,1-dichlorethane, ethylbenzene, naphthalene, toluene, 1,2,4-trimethylbenzene, benzo(b)fluoranthene, benzo(a)pyrene, fluorene, dibenz(a,h)anthracene, naphthalene, and 2-methylnaphthalene have been identified in soil underlying the property at concentrations exceeding the TRRP residential soil-to-groundwater ingestion (^{GW}Soil_{ing}) PCLs. There are no known active source areas on Site. Based on analytical results COCs have been detected in soil at the Property at concentrations exceeding the non-ingestion PCLs. A Response Action Plan (RAP) will be submitted to the TCEQ detailing the excavation activities planned for soil containing COCs at concentrations exceeding the non-ingestion PCLs.

Shallow groundwater at the Designated Property, as observed in the monitoring wells, ranges from 13 to 32 feet below ground surface (bgs). Groundwater flow direction is predominantly to the west-southwest, toward the adjacent surface water body.

The City of Houston provides drinking water to the Designated Property and all surrounding properties within 0.5-mile. The City of Houston is the only municipality with jurisdictional bounds within 0.5-mile of the Designated Property.

A Banks Water Well search identified 839 records for water supply wells and 86 records for retail public utility (RPU) wells within 5 miles of the Designated Property. Of the 86 records for RPU wells, 8 entities, including the City of Houston, Rice University, and the City of West University Place are listed as having an operational, or non-drinking water, active public water supply system (PWS) well within the 5-mile radius.

Appendix A

MUNICIPAL SETTING DESIGNATION APPLICATION

1685 & 1695 SOUTH STREET
HOUSTON, TEXAS

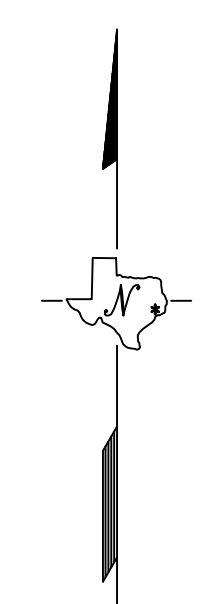
LEGAL DESCRIPTIONS AND DEEDS

The Designated Property for which this Municipal Setting Designation (MSD) application has been prepared consists of 4.2367 (as surveyed) contiguous acres of land associated with two adjoining parcels addressed at 1685 (1.9 acres) and 1695 (2.3 acres) South Street in Houston, Harris County, Texas (Site). The Designated Property is owned by Tuffli Company Inc. (Tuffli). Tuffli is the MSD applicant, represented by Mr. Don Carruth, President (Applicant). The Site is located to the south of South Street and south of the intersection of South Street and Hogan Street. The Site is bordered to the west by Buffalo Bayou Tidal, to the south by a railroad and parking lot, to the east by vacant properties, and to the north by commercial/industrial-use facilities. Legal descriptions, as listed in the Harris County Appraisal District (HCAD) database is as follows:

- 1.9-acre parcel: TR 1A ABST 1 J AUSTIN
- 2.3-acre parcel: TR R1 ABST 1 J AUSTIN

Copies of the property deeds and a sealed survey, including metes and bounds, are provided in **Appendix A**. The location, topography, and layout of the Site are depicted on **Figure 1** through **Figure 3** in **Appendix C**.

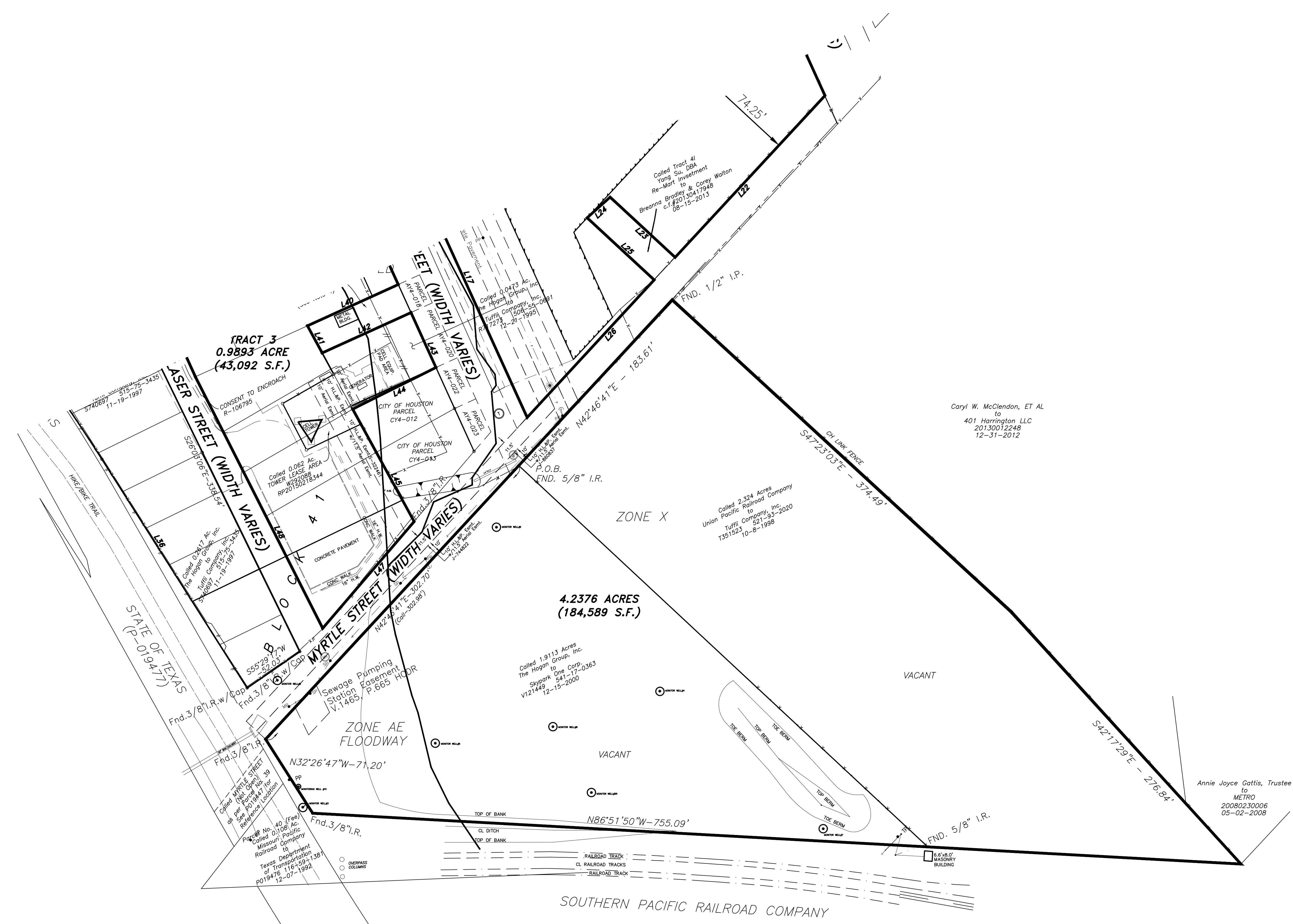
TO: FIRST AMERICAN TITLE INSURANCE COMPANY, FIRST AMERICAN TITLE INSURANCE COMPANY TDC REALTY, LLC, A TEXAS LIMITED LIABILITY COMPANY.
 This is to certify that this map or plat and the survey on which it is based were made and in accordance with the 2003 Minimum Standard Detail Requirements for Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5(a), 7(a)(1)(b), 8, 9, 10(a), 13, 14, 16, 17, 18, 19, and 20 of Table A thereof. The field work was completed on 07-11-2022.



DATE 07-11-2022 N. M. MATHIS R.P.L.S. NO. 4517

GENERAL NOTES

- ALL BEARINGS SHOWN ARE BASED ON RECORD DEED.
- A PORTION OF THE SUBJECT SITE IS LOCATED WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE MOST RECENT OFFICIAL INSURANCE RATE MAP, DATED JUNE 18, 2007 MAP #620100090N, ZONES X, X, SHADDED, AE, AND AE FLOODWAY. PROMULGATED BY THE ADMINISTRATOR OF THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT OF THE UNITED STATES. ANY REFERENCE TO THE 100 YEAR FLOOD PLAIN OR FLOOD HAZARD ZONES, ARE AN ESTIMATE BASED ON DATA PROVIDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE PROGRAM AND SHOULD NOT BE INTERPRETED AS A STUDY OR DETERMINATION OF THE FLOODING PROPENSITIES OF THIS PROPERTY.
- FUTURE REDEVELOPMENT OF SITE IS SUBJECT TO CITY OF HOUSTON ORDINANCE NO. 85-1878, DATED OCTOBER 23, 1985 BY THE CITY OF HOUSTON, A CERTIFIED COPY OF WHICH WAS FILED AUGUST 1, 1991, UNDER COUNTY CLERK FILE NO. N-253886, (SUPERSEDED BY CITY OF HOUSTON ORDINANCE NO. 1989-262), ADOPTED BY THE CITY OF HOUSTON RELATING TO RULES, AND REGULATIONS, PROCEDURES AND DESIGN STANDARDS FOR DEVELOPING AND PLATTING AND PROVIDING FOR ESTABLISHING BUILDING SETBACK LINES.
- FOR ADDITIONAL BUILDING RESTRICTION, SEE RESTRICTIVE COVENANTS.
- SEE SEPARATE LEGAL DESCRIPTION FOR ADDITIONAL NARRATIVE.
- ALL PROPERTY CORNERS ARE SET 5/8" IRON RODS WITH CAPS UNLESS OTHERWISE NOTED.



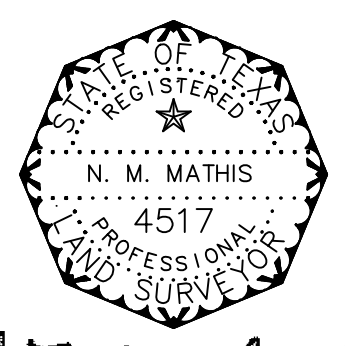
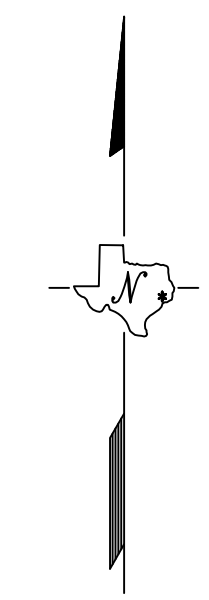
- LEGEND**
- ⊙ TRAFFIC SIGN
 - ⊙ COMMUNICATIONS MANHOLE
 - ⊙ TELEPHONE ENCLOSURE
 - ⊙ CHAIN LINK FENCE
 - ⊙ WOOD FENCE
 - ⊙ POWER POLE
 - ⊙ POWER POLE w/DOWN GUY
 - ⊙ STREET/AREA LIGHT
 - ⊙ PIPELINE MKR/VENT
 - ⊙ GAS VALVE
 - ⊙ GAS METER
 - ⊙ STORM/SAN/CHILLWATER MANHOLE
 - ⊙ ROOF OVERHANG
 - ⊙ ELEC MANHOLE
 - ⊙ OVERHEAD ELECTRIC LINE
 - ⊙ 12" RISP
 - ⊙ BURIED GAS LINE WITH SIZE
 - ⊙ BURIED WATER LINE WITH SIZE
 - ⊙ CHAIN LINK FENCE
 - ⊙ CORRUGATED METAL PIPE
 - ⊙ IRON PIPE
 - ⊙ IRON ROD
 - ⊙ CENTERLINE
 - ⊙ FINCH TOP PIPE
 - ⊙ PULL BOX
 - ⊙ NO PARKING SIGN
 - ⊙ CURB INLET
 - ⊙ SQUARE INLET
 - ⊙ TRAFFIC SIGNAL POLE
 - ⊙ FIRE HYDRANT
 - ⊙ WATER VALVE
 - ⊙ WATER METER
 - ⊙ SANITARY CLEAN OUT
 - ⊙ JUNCTION BOX
 - ⊙ GAS MANHOLE
 - ⊙ HANDICAP PARKING
 - ⊙ TELEPHONE
 - ⊙ SAMPLE WELL
 - ⊙ YD=YARD DRAIN

L42 N05°34'01"E-79.22'
 L43 S24°25'59"E-49.00'
 L44 S63°27'31"W-75.59'
 L45 S28°39'17"E-104.11'
 L47 S40°35'51"W-114.15'
 L48 N26°50'47"W-229.00'

Caryl W. McClendon, ET AL
 to
 401 Harrington LLC
 20130012248
 12-31-2012

Annie Joyce Gattis, Trustee
 to
 METRO
 20080230006
 05-02-2008

PREJEAN & COMPANY, INC. surveying / mapping FIRM# 10083000	9324 WESTVIEW DRIVE HOUSTON, TX 77055 713-467-9495
ALTA/NSPS LAND TITLE SURVEY	
4.2376 ACRES OF LAND OUT OF THE JOHN AUSTIN SURVEY, A-1 TRACT 6 HOUSTON, HARRIS COUNTY, TEXAS	
07-12-2022	1"=40'
GF NO. NCS-1115592-HOU1	FIRST AMERICAN TITLE INSURANCE COMPANY
JOB NO. 256-6-2	



05-04-2021 DATE
 N. M. MATHIS
 R.P.L.S. NO. 4517

I HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS THE ACTUAL CONDITIONS FOUND ON THE GROUND AT THE TIME OF THE SURVEY AND ALL IMPROVEMENTS LIE WHOLLY WITHIN THE PROPERTY LINES, EXCEPT AS SHOWN.

THIS PROFESSIONAL SERVICE SUBSTANTIALLY CONFORMS TO THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR CATEGORY 1A, CONDITION 2 SURVEY.

GENERAL NOTES

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- A PORTION OF THE SUBJECT SITE IS LOCATED WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE MOST RECENT OFFICIAL INSURANCE RATE MAP, DATED JUNE 18, 2007 MAP #482010690N, ZONES X, X SHADED, AE, AND AE FLOODWAY. PROMULGATED BY THE ADMINISTRATOR OF THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT OF THE UNITED STATES. ANY REFERENCE TO THE 100 YEAR FLOOD PLAIN OR FLOOD HAZARD ZONES, ARE AN ESTIMATE BASED ON DATA PROVIDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE PROGRAM AND SHOULD NOT BE INTERPRETED AS A STUDY OR DETERMINATION OF THE FLOODING PROPENSITIES OF THIS PROPERTY.
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- FOR ADDITIONAL BUILDING RESTRICTION, SEE RESTRICTIVE COVENANTS.
- SEE SEPARATE LEGAL DESCRIPTION FOR ADDITIONAL NARRATIVE.
- SURVEY PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT.

Line Table

NO.	BEARING & DISTANCE
L32	S24° 25' 59"E-90.00'
L33	N65° 34' 01"E-100.00'
L34	S24° 26' 18"E-159.94'
L35	S65° 33' 13"W-240.01'
L38	N65° 34' 01"E-181.00'

LEGEND

- TRAFFIC SIGN
- COMMUNICATIONS MANHOLE
- TELEPHONE ENCLOSURE
- CHAIN LINK FENCE
- WOOD FENCE
- POWER POLE
- POWER POLE w/DOWN GUY
- STREET/AREA LIGHT
- PIPELINE MRKR/VENT
- GAS VALVE
- GAS METER
- STORM/SAN/CHILLWATER MANHOLE
- ROOF OVERHANG
- ELEC MANHOLE
- OVERHEAD ELECTRIC LINE
- STORM SEWER WITH SIZE
- BURIED GAS LINE WITH SIZE
- BURIED WATER LINE WITH SIZE
- CHAIN LINK FENCE
- CORRUGATED METAL PIPE
- IRON PIPE
- IRON ROD
- CENTERLINE
- PINCH TOP PIPE
- PULL BOX
- NO PARKING SIGN
- CURB INLET
- SQUARE INLET
- TRAFFIC SIGNAL POLE
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- SANITARY CLEAN OUT
- JUNCTION BOX
- GAS MANHOLE
- HANDICAP PARKING
- TELEPHONE
- SAMPLE WELL
- YD=YARD DRAIN

PREJEAN & COMPANY, INC.
 surveying / mapping
 8324 WESTVIEW DRIVE
 HOUSTON, TX 77065
 713-467-MAPS

BOUNDARY EXHIBIT

0.1030 ACRE OUT OF THE

JOHN AUSTIN SURVEY, A-1

HOUSTON, HARRIS COUNTY, TEXAS

05-04-2021 1"=20' JOB NO. 256-6-2

Appendix B

MUNICIPAL SETTING DESIGNATION APPLICATION

**1685 & 1695 SOUTH STREET
HOUSTON, TEXAS**

PROPERTY USE INFORMATION

The Designated Property consists of one contiguous property addressed to 1685 and 1695 South Street, which comprises 4.2367 surveyed acres. The Designated Property is vacant and is adjoined to the west by Buffalo Bayou Tidal, to the south by a railroad and a University of Houston Downtown parking lot, to the east by a vacant property, and to the north by commercial/industrial and retail businesses, followed by residential housing.

For the purposes of the affected property assessment pursuant to this application, the Designated Property is considered residential use.

Appendix C

MUNICIPAL SETTING DESIGNATION APPLICATION

1685 & 1695 SOUTH STREET
HOUSTON, TEXAS

SITE MAPS

There are 14 maps attached in this section depicting relevant Designated Property information.

The Designated Property is located at 1685 & 1695 South Street in Houston, Texas, as presented on **Figure 1**.

Figure 2 is a Federal Emergency Management Agency (FEMA) flood map which indicates that a portion of the Designated Property is located in the FEMA Regulatory Floodway.

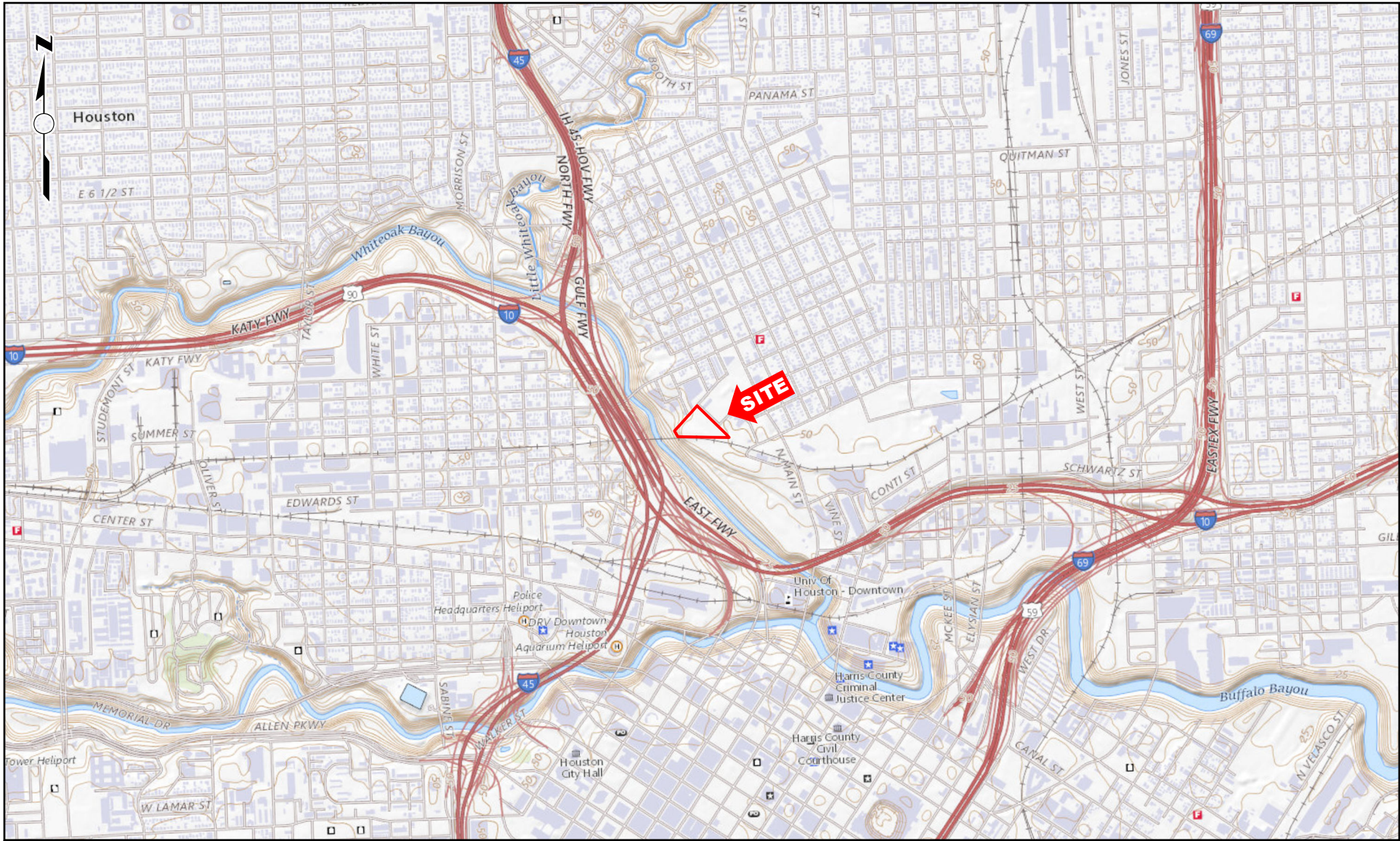
Figure 3 and **Figure 4** presents the Designated Property layout, property boundaries, and the locations of existing monitoring wells and soil sample locations associated with the Designated Property.

Figure 5 depicts the groundwater gradient and direction of groundwater flow, as determined through the most recent groundwater monitoring event conducted in June 2023.


Figure 6 through **Figure 11** illustrates the soil-to-groundwater ingestion protective concentration level exceedance zone (PCLEZs) for applicable soil chemicals of concern (COCs).

Figure 12 illustrates the groundwater ingestion PCLEZ for arsenic.

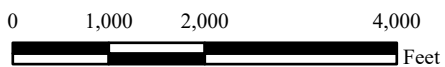
Figure 13 depicts the City of Houston Drinking Water Service Areas. As shown, the Site is located within the City of Houston Main System. **Figure 13** is provided in **Appendix O**.



Legend

 Approximate Site Boundary

Source: USGS National Map



SCALE: 1" = 2,000'

Figure 1
Site Location & Topographic Map

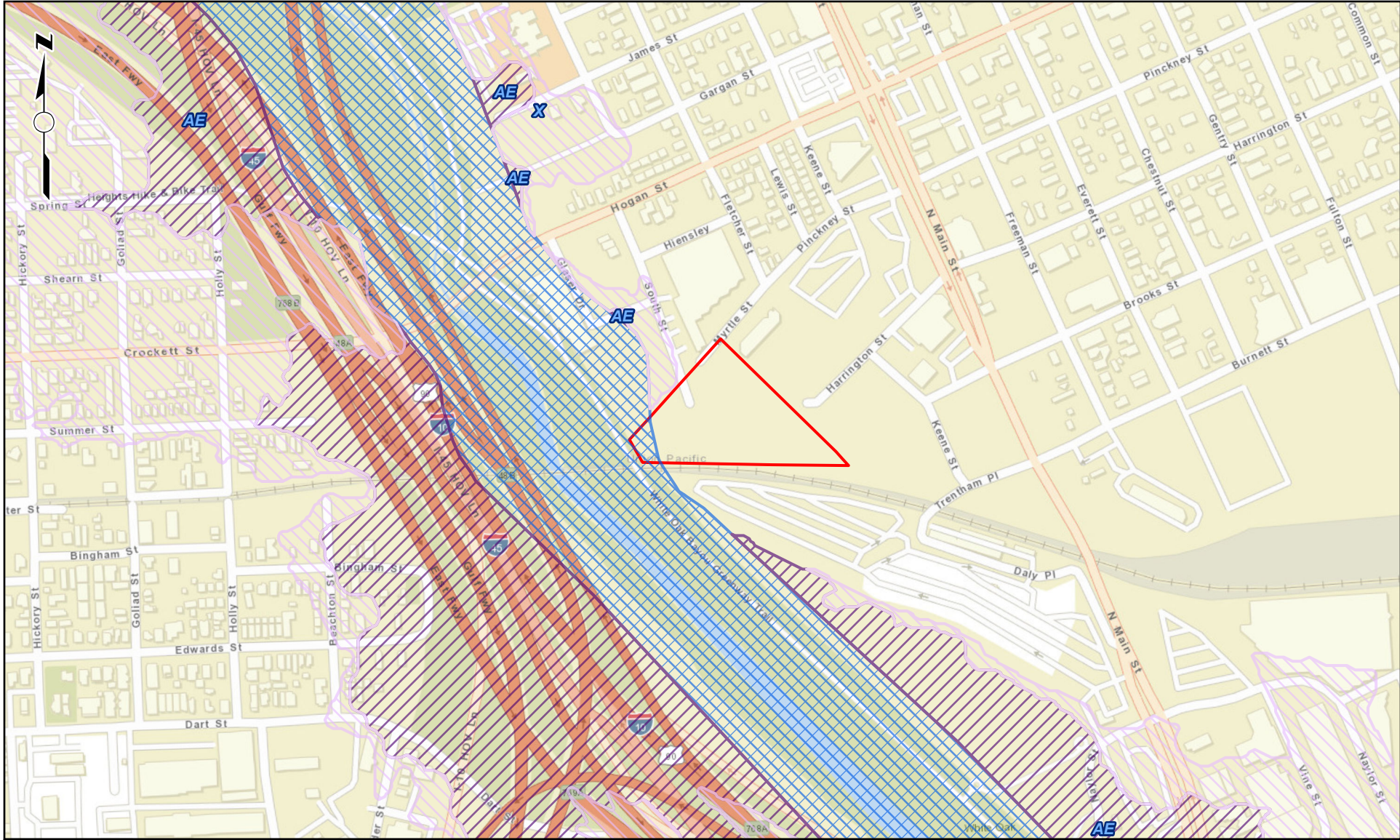
1685 and 1695 South Street
Houston, Texas







The Science You Build On.

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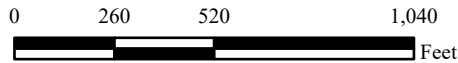
5/12/2023	Project No.: B2211351	Drawn by: SL	Checked by: AP	Revised by:
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Legend

-  Approximate Site Boundary
-  1% Annual Chance Flood Hazard
-  0.2% Annual Chance Flood Hazard
-  Regulatory Floodway

Source: FEMA, ESRI World Streets Map



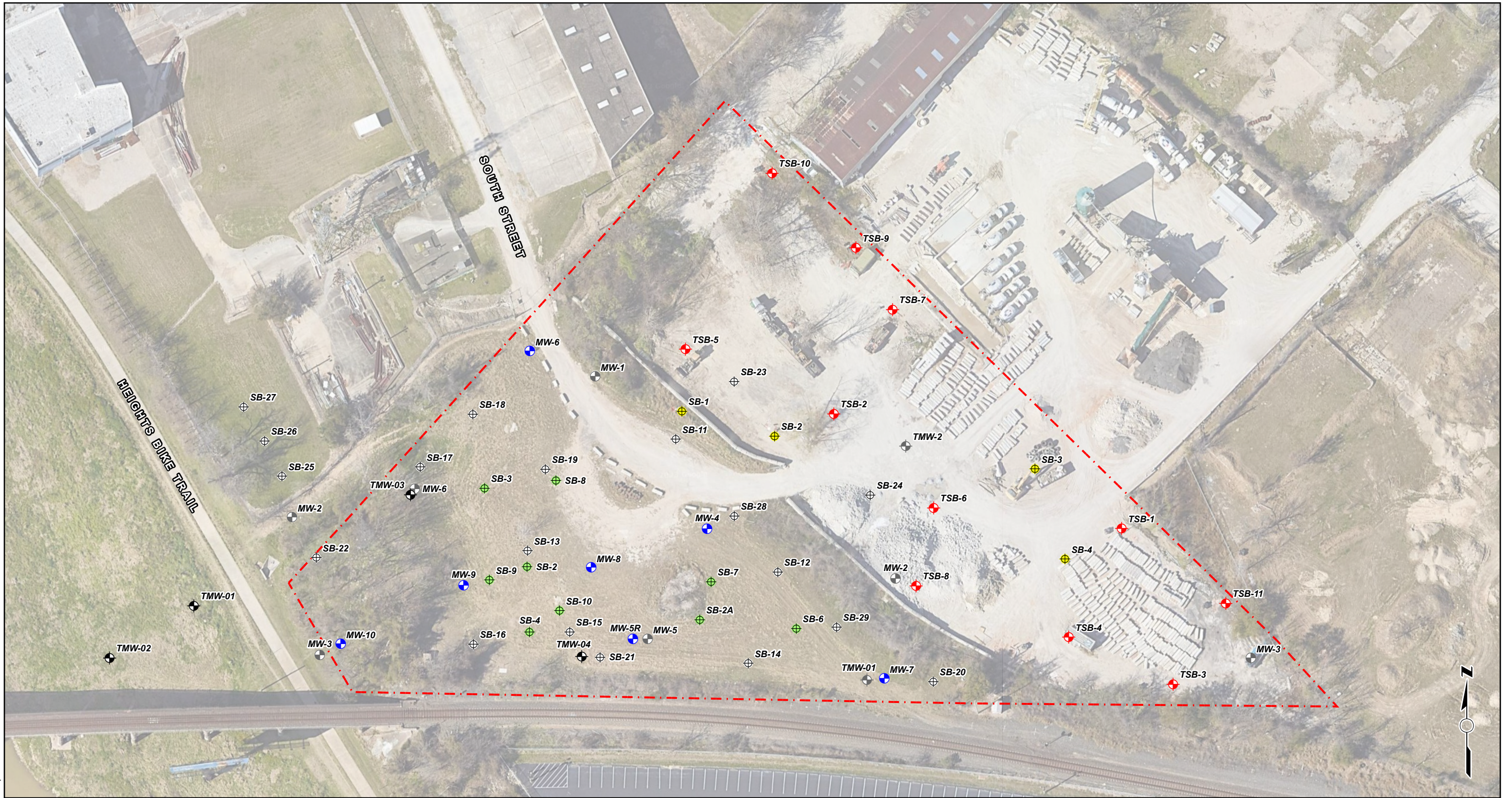
SCALE: 1" = 500'

**Figure 2
FEMA Flood Zone Map**

1685 and 1695 South Street
Houston, Texas



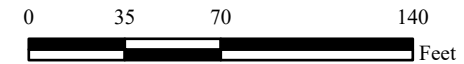
The Science You Build On.



Legend

- - - Approximate Site Boundary
- Temporary Monitoring Well
- ⊕ Monitoring Well
- ⊕ Soil Boring
- ⊕ Soil Boring (AEC, 2002)
- ⊕ Approximate Location of Soil Boring (Arcadis, 2007)
- ⊕ Approximate Location of Former Monitoring Well
- ⊕ Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
- ⊕ Approximate Location of Temporary Monitoring Well (TGE, 2022)

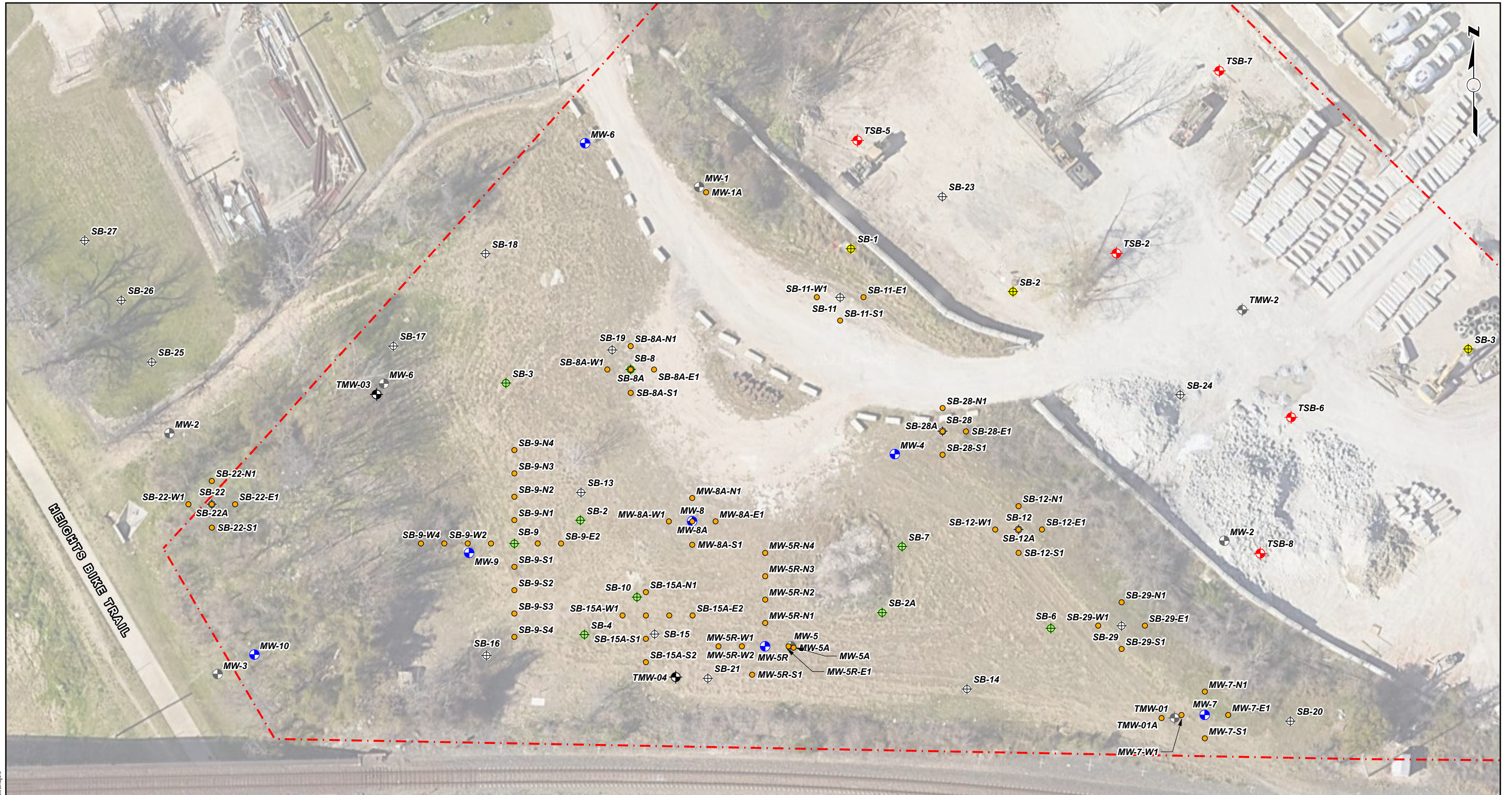
Source: Google Earth Imagery (2/2019)



SCALE: 1" = 70'

Figure 3
Site Layout Map
 1685 and 1695 South Street
 Houston, Texas

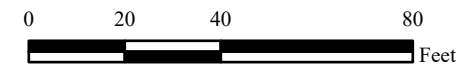




Legend

- - - Approximate Site Boundary
- ⊕ Temporary Monitoring Well
- ⊕ Monitoring Well
- ⊕ Soil Boring
- ⊕ Soil Boring (AEC, 2002)
- Delineation Boring
- ⊕ Approximate Location of Soil Boring (Arcadis, 2007)
- ⊕ Approximate Location of Former Monitoring Well
- ⊕ Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
- ⊕ Approximate Location of Temporary Monitoring Well (TGE, 2022)

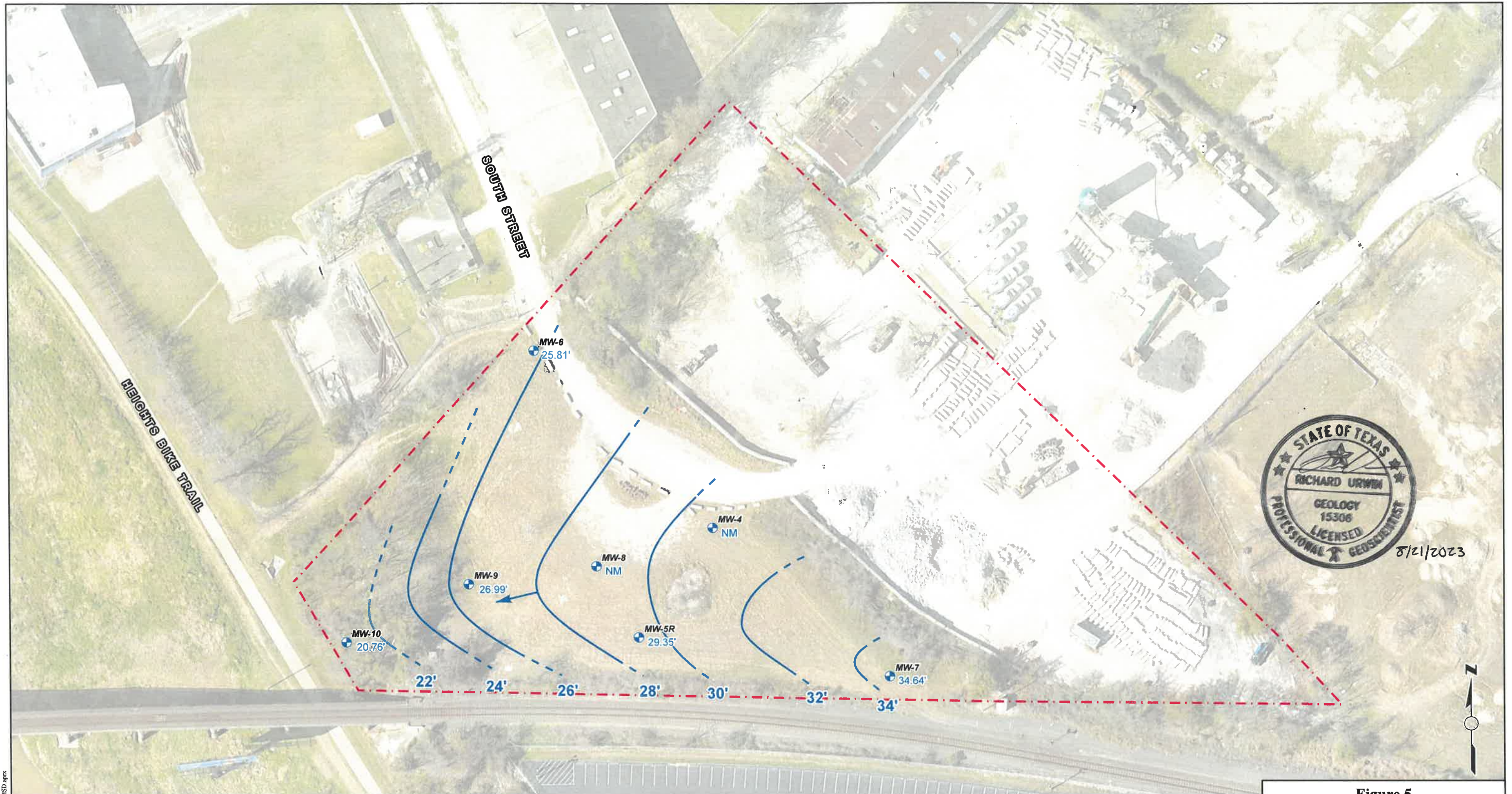
Source: Google Earth Imagery (2/2019)



SCALE: 1" = 40'

Figure 4
Site Layout Map
 1685 and 1695 South Street
 Houston, Texas





- Legend**
- - - Approximate Site Boundary
 - Monitoring Well
 - Groundwater Contour Line
 - Groundwater Flow Direction

Source: Google Earth Imagery (2/2019)



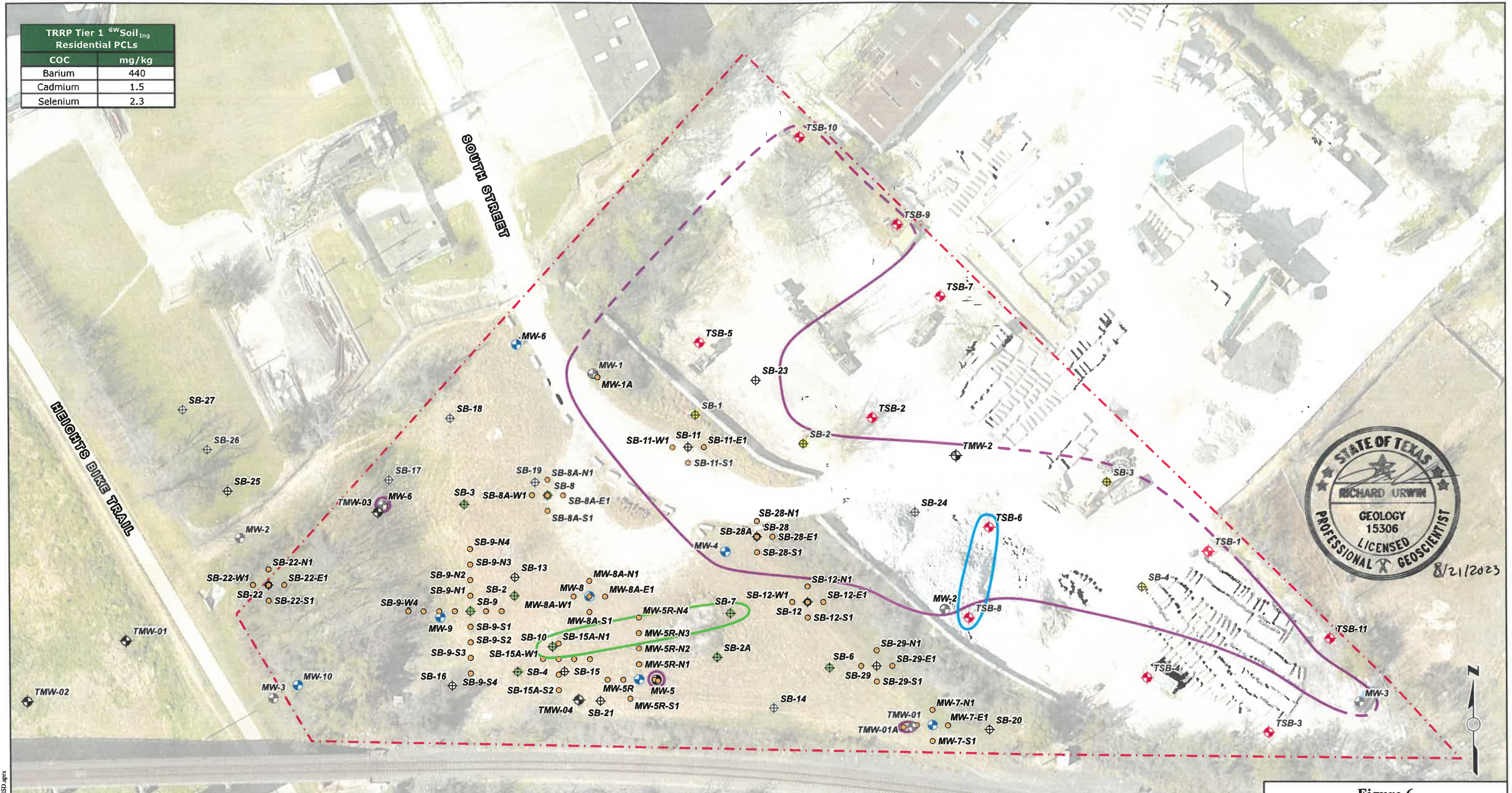
SCALE: 1" = 70'

Figure 5
Groundwater Gradient Map
June 2023
 1685 and 1695 South Street
 Houston, Texas



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TRRP Tier 1 ^{GW} Soil _{mg} Residential PCLs	
COC	mg/kg
Barium	440
Cadmium	1.5
Selenium	2.3



Legend

Approximate Site Boundary	Delineation Boring	Barium PCLEZ Exceedance Zone
Temporary Monitoring Well	Approximate Location of Soil Boring (Arcadis, 2007)	Cadmium PCLEZ Exceedance Zone
Monitoring Well	Approximate Location of Former Monitoring Well	Selenium PCLEZ Exceedance Zone
Soil Boring	Approximate Location of Temporary Monitoring Well (Arcadis, 2007)	
Soil Boring (AEC, 2002)	Approximate Location of Temporary Monitoring Well (TGE, 2022)	

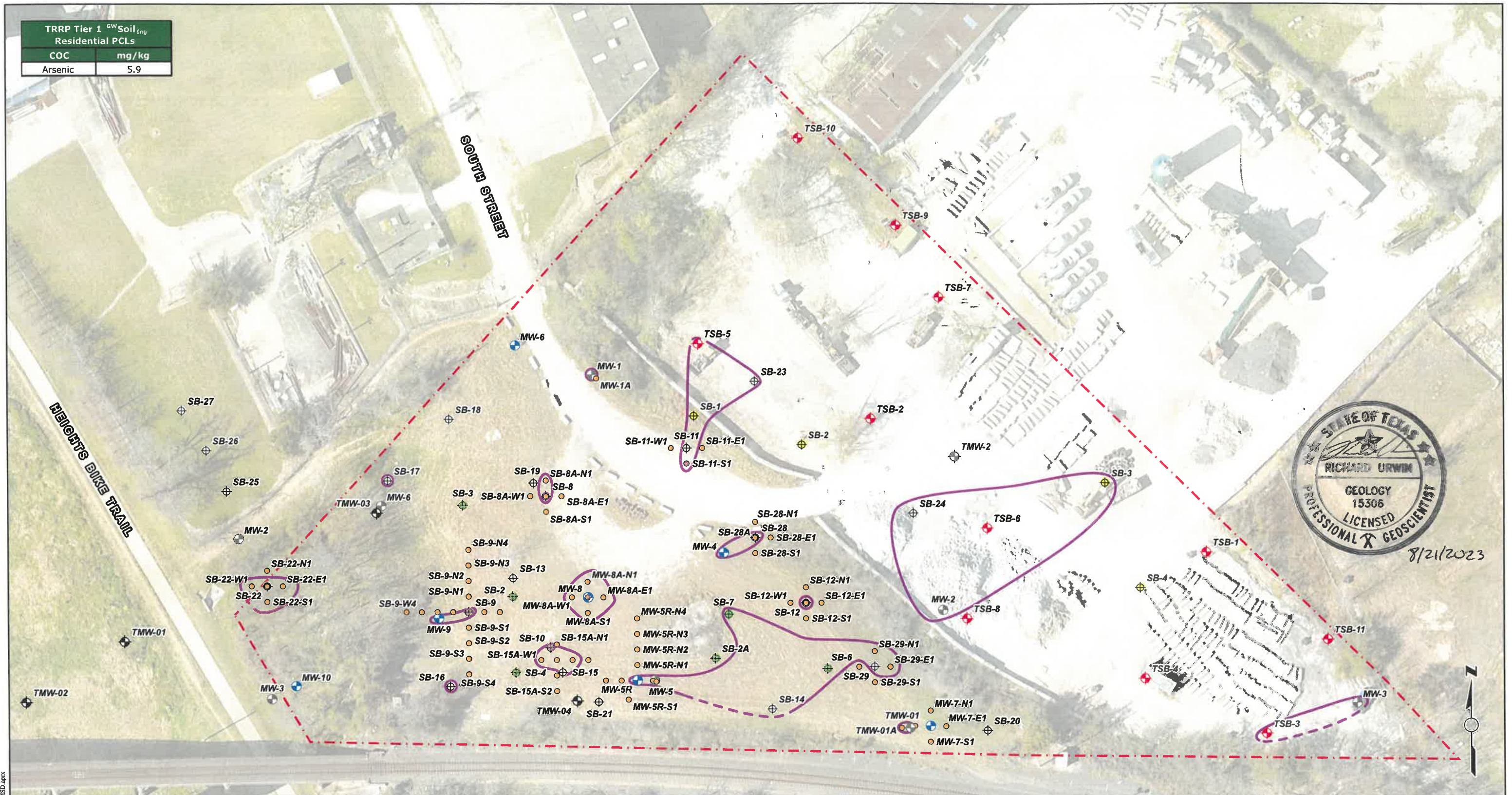
Source: Google Earth Imagery (2/2019)

SCALE: 1" = 60'

Figure 6
Cadmium, Selenium and Barium
Soil PCLEZ Map
 1685 and 1695 South Street
 Houston, Texas

Document Path: F:\2021\B211351\GIS\B211351_MSD.aprx

TRRP Tier 1 ^{GW} Soil _{ing} Residential PCLs	
COC	mg/kg
Arsenic	5.9



Legend

- Approximate Site Boundary
- Temporary Monitoring Well
- ⊕ Monitoring Well
- ⊕ Soil Boring
- ⊕ Soil Boring (AEC, 2002)
- ⊕ Delineation Boring
- ⊕ Approximate Location of Soil Boring (Arcadis, 2007)
- ⊕ Approximate Location of Former Monitoring Well
- ⊕ Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
- ⊕ Approximate Location of Temporary Monitoring Well (TGE, 2022)
- Arsenic PCLEZ

Source: Google Earth Imagery (2/2019)

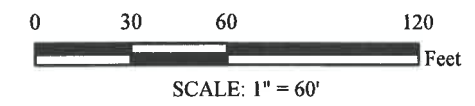
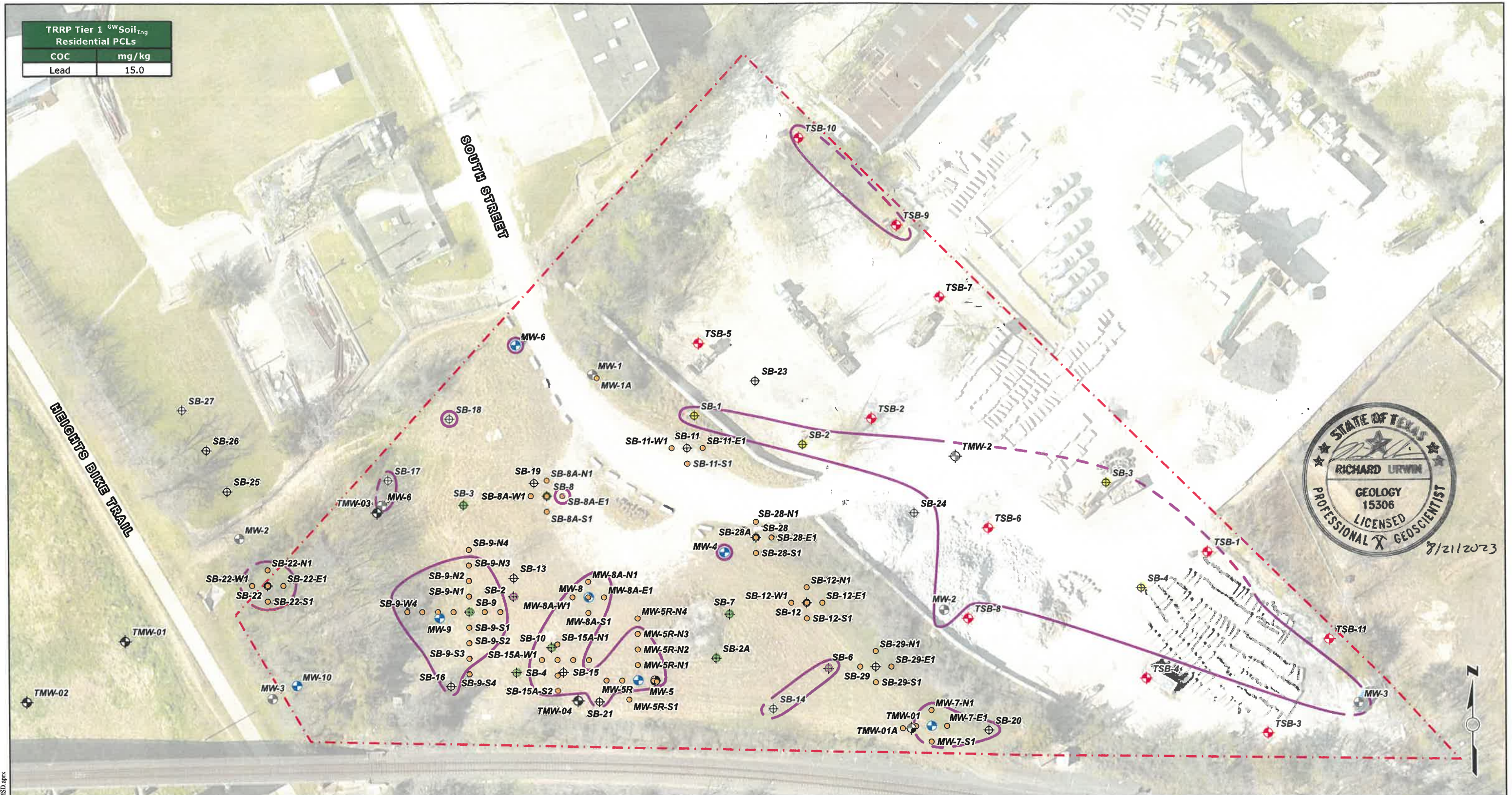


Figure 7
Arsenic Soil PCLEZ Map
1685 and 1695 South Street
Houston, Texas



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TRRP Tier 1 ^{GW} Soil _{Ing} Residential PCLs	
COC	mg/kg
Lead	15.0



Legend

- - - Approximate Site Boundary
- + Temporary Monitoring Well
- + Monitoring Well
- + Soil Boring
- + Soil Boring (AEC, 2002)
- + Delineation Boring
- + Approximate Location of Soil Boring (Arcadis, 2007)
- + Approximate Location of Former Monitoring Well
- + Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
- + Approximate Location of Temporary Monitoring Well (TGE, 2022)
- Lead PCLEZ Exceedance Zone

Source: Google Earth Imagery (2/2019)



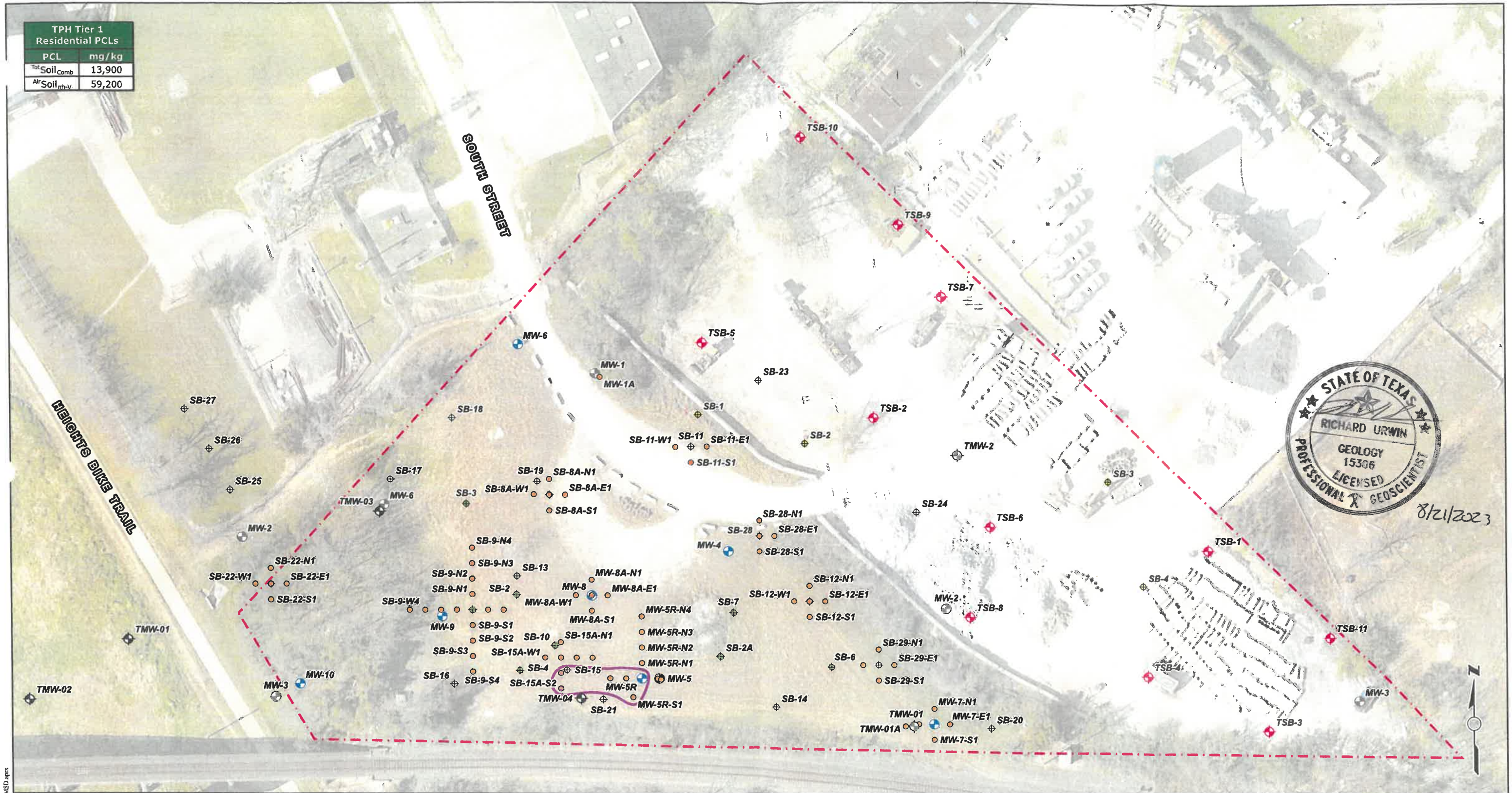
SCALE: 1" = 60'

Figure 8
Lead Soil PCLEZ Map
1685 and 1695 South Street
Houston, Texas



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TPH Tier 1 Residential PCLs	
PCL	mg/kg
Soil _{comb}	13,900
Soil _{ph-v}	59,200



8/21/2023

- Legend**
- - - Approximate Site Boundary
 - + Temporary Monitoring Well
 - + Monitoring Well
 - + Soil Boring
 - + Soil Boring (AEC, 2002)
 - + Delineation Boring
 - + Approximate Location of Soil Boring (Arcadis, 2007)
 - + Approximate Location of Former Monitoring Well
 - + Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
 - + Approximate Location of Temporary Monitoring Well (TGE, 2022)
 - TPH PCL Exceedance Zone

Source: Google Earth Imagery (2/2019)

0 30 60 120 Feet

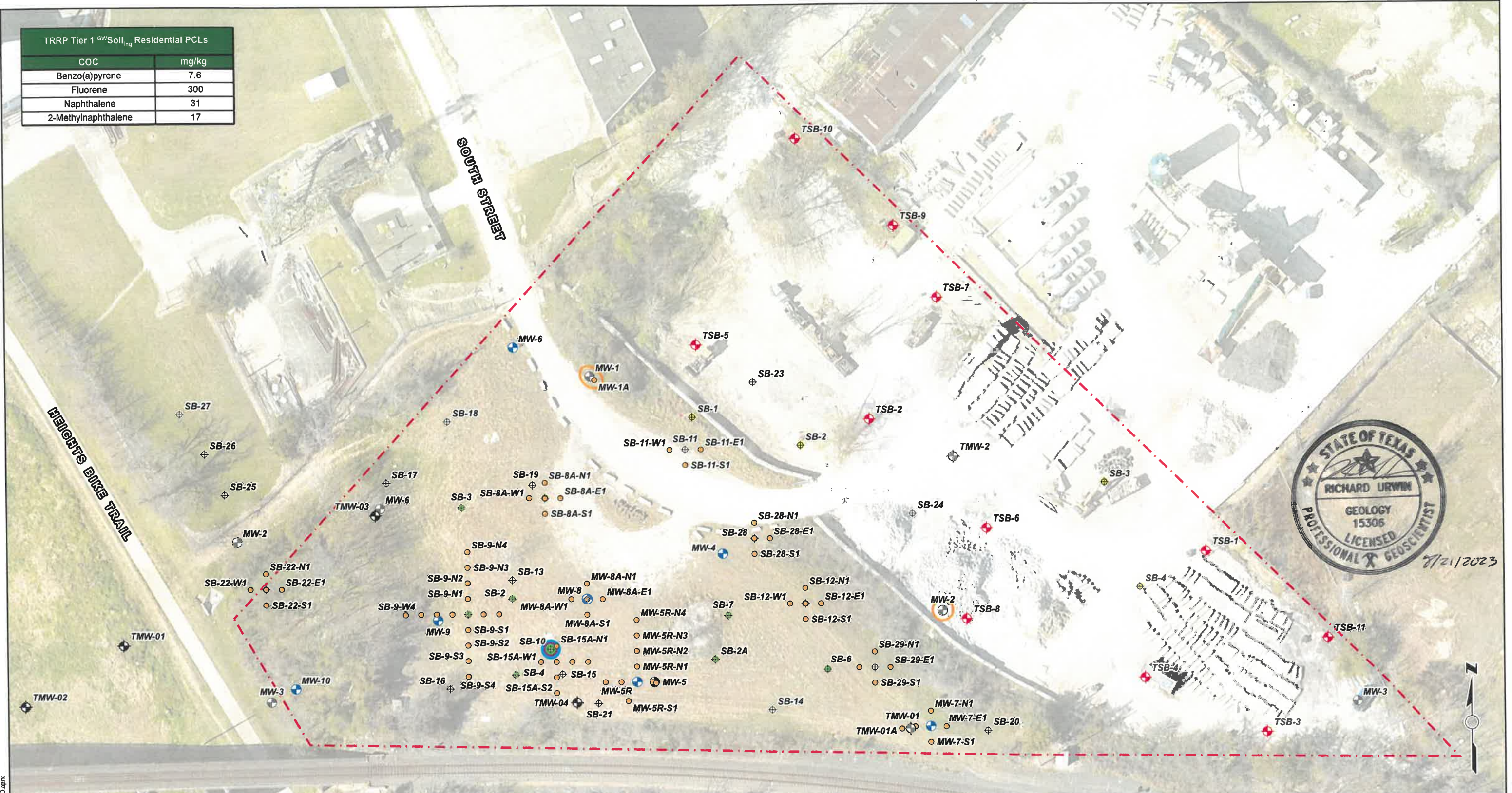
SCALE: 1" = 60'

Figure 9
TPH Soil PCLEZ Map
 1685 and 1695 South Street
 Houston, Texas



.1131\GIS\B2211351_MSD.aprx

TRRP Tier 1 ^{GW} Soil _{ing} Residential PCLs	
COC	mg/kg
Benzo(a)pyrene	7.6
Fluorene	300
Naphthalene	31
2-Methylnaphthalene	17



Legend

- - - Approximate Site Boundary
- + Temporary Monitoring Well
- + Monitoring Well
- + Soil Boring
- + Soil Boring (AEC, 2002)
- Delineation Boring
- + Approximate Location of Soil Boring (Arcadis, 2007)
- + Approximate Location of Former Monitoring Well
- + Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
- + Approximate Location of Temporary Monitoring Well (TGE, 2022)
- 2-Methylnaphthalene PCL Exceedance Zone
- Fluorene PCL Exceedance Zone
- Naphthalene PCL Exceedance Zone
- Benzo(a)pyrene PCL Exceedance Zone

Source: Google Earth Imagery (2/2019)

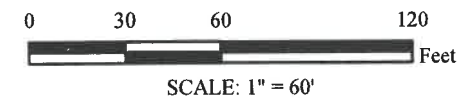
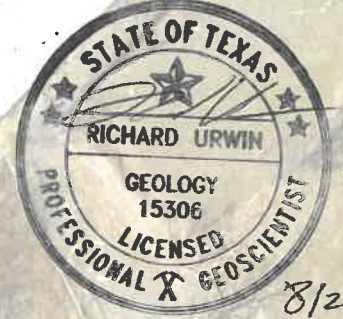
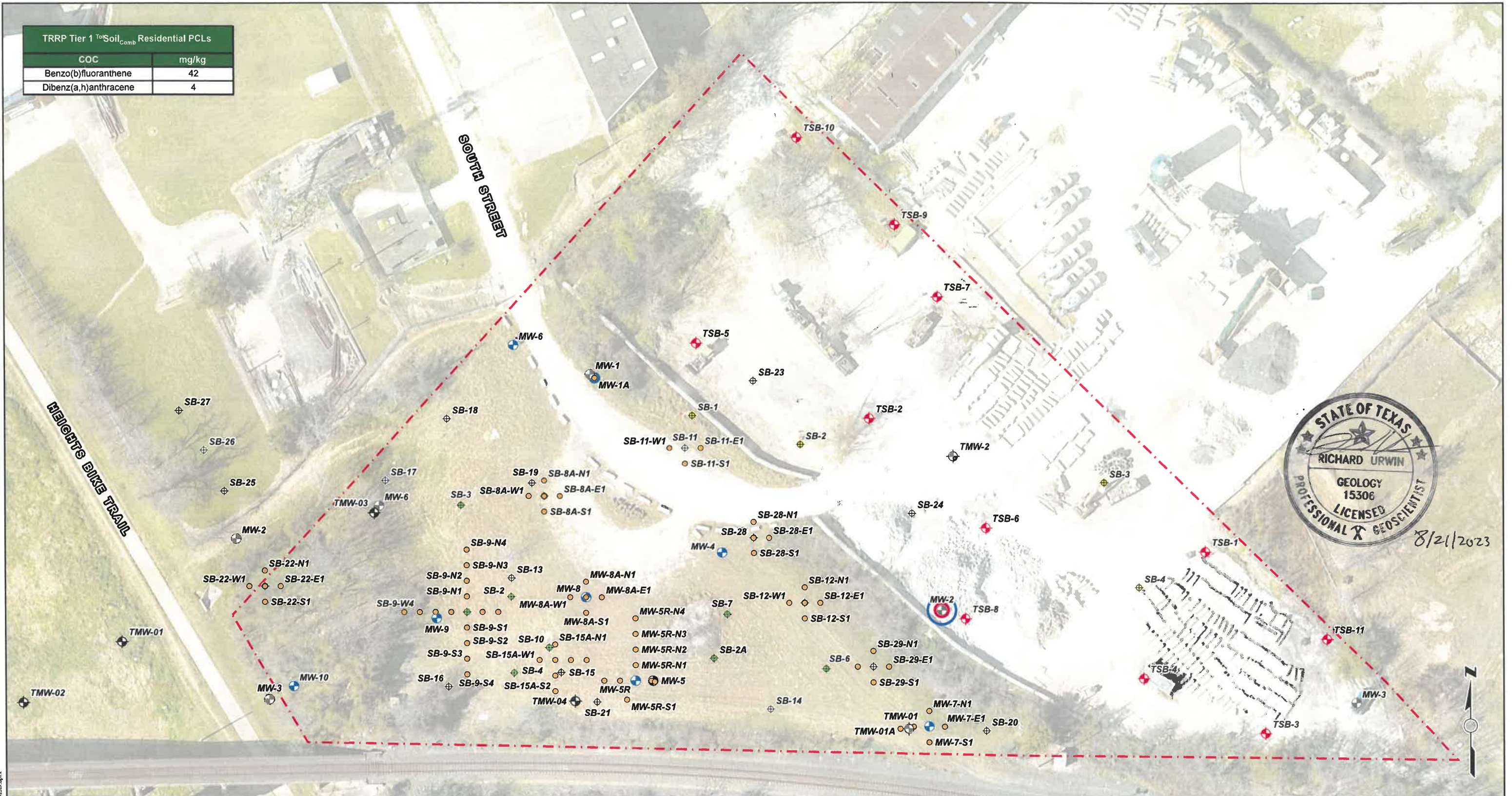


Figure 10A
Soil SVOCs ^{GW}Soil_{ing} PCLEZ Map
 1685 and 1695 South Street
 Houston, Texas



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TRRP Tier 1 ^{Tot} Soil _{Comb} Residential PCLs	
COC	mg/kg
Benzo(b)fluoranthene	42
Dibenz(a,h)anthracene	4



8/21/2023

Legend

- - - Approximate Site Boundary
- Benzo(b)fluoranthene PCL Exceedance Zone
- Dibenz(a,h)anthracene PCL Exceedance Zone
- ⊕ Temporary Monitoring Well
- ⊕ Monitoring Well
- ⊕ Soil Boring
- ⊕ Soil Boring (AEC, 2002)
- ⊕ Delineation Boring
- ⊕ Approximate Location of Soil Boring (Arcadis, 2007)
- ⊕ Approximate Location of Former Monitoring Well
- ⊕ Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
- ⊕ Approximate Location of Temporary Monitoring Well (TGE, 2022)

Source: Google Earth Imagery (2/2019)

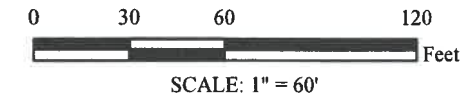
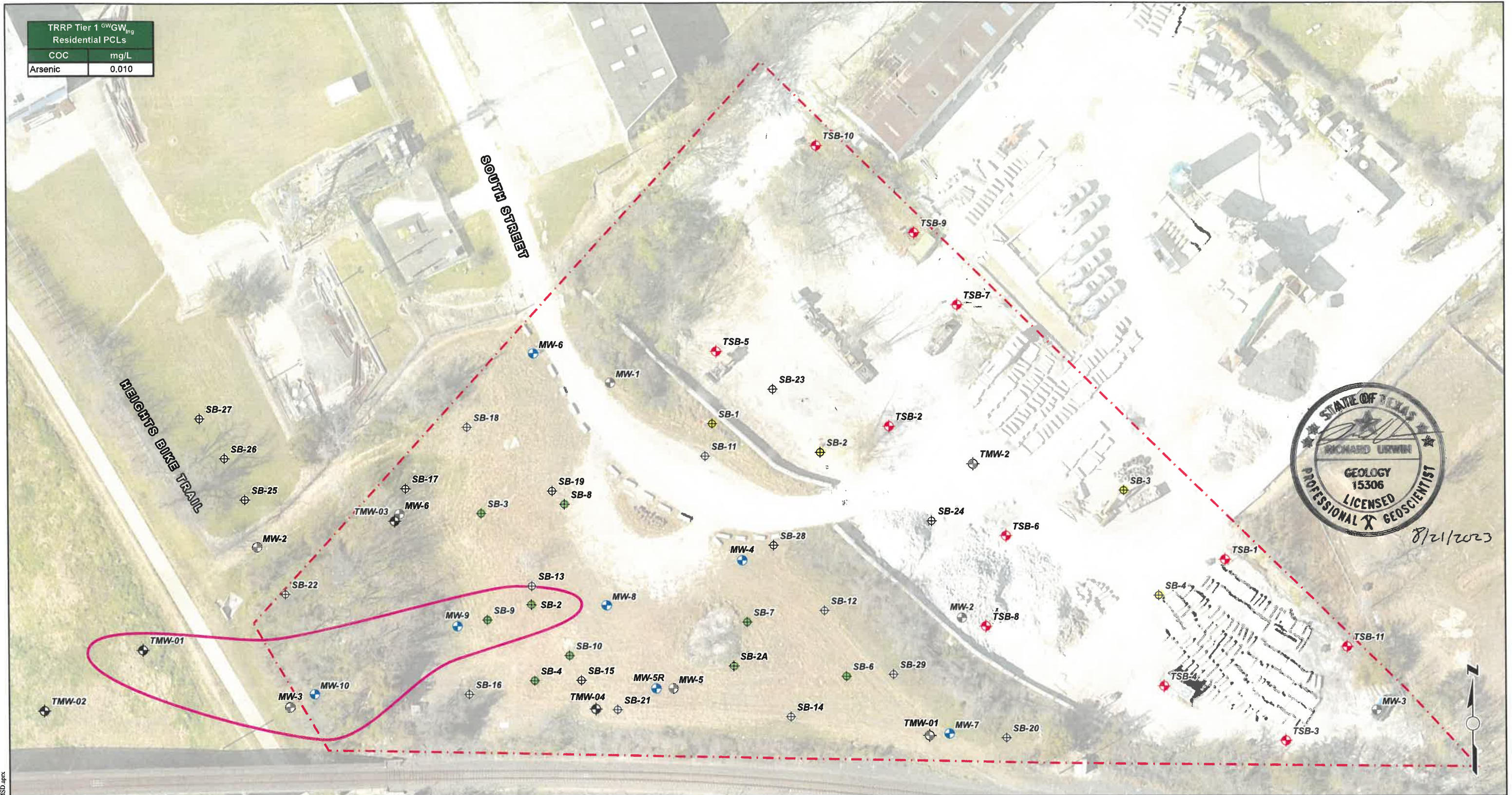


Figure 10B
Soil SVOCs ^{Tot}Soil_{Comb} PCLEZ Map
1685 and 1695 South Street
Houston, Texas



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TRRP Tier 1 ^{GW} Residential PCLs	
COC	mg/L
Arsenic	0.010



Legend			
	Approximate Site Boundary		Approximate Location of Soil Boring (Arcadis, 2007)
	Temporary Monitoring Well		Approximate Location of Former Monitoring Well
	Monitoring Well		Approximate Location of Temporary Monitoring Well (Arcadis, 2007)
	Soil Boring		Approximate Location of Temporary Monitoring Well (TGE, 2022)
	Soil Boring (AEC, 2002)		Arsenic PCLE Zone

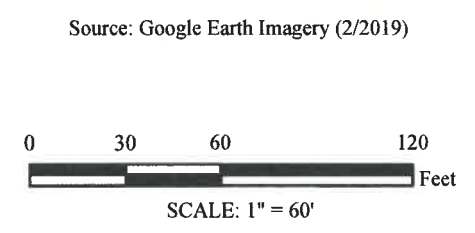


Figure 12
Groundwater PCLE Zone Map
 1685 and 1695 South Street
 Houston, Texas



Document Path: F:\2022\B2211351\GIS\B2211351_MSD.dwg

Appendix D

MUNICIPAL SETTING DESIGNATION APPLICATION

1685 & 1695 SOUTH STREET
HOUSTON, TEXAS

CHEMICALS OF CONCERN WITHIN DESIGNATED GROUNDWATER INGESTION PCL EXCEEDANCE ZONE

Based on the most recent sampling data, groundwater ingestion PCLEZs exist for the following COCs in the designated groundwater:

- Arsenic

Groundwater analytical data is provided in **Appendix E, Table 6**. Groundwater analytical data is presented as a comparison of the concentrations of each COC to their respective ingestion and non-ingestion (MSD-adjusted) PCLs.

Arsenic

Groundwater Ingestion PCL: 0.01 milligrams per liter (mg/L)

Non-Ingestion PCL (MSD-Adjusted)/ ^{Air}GW_{Inh-v} PCL: Not Established

Maximum arsenic concentration: 0.804 mg/L (MW-10; 6/14/2023)

Density: 5.727 grams per centimeter cubed (g/cm³)

Based on the most recent groundwater monitoring data, the groundwater ingestion PCLEZ for arsenic is estimated to contain an area of approximately 0.31-acre. Mobility of arsenic in groundwater is dependent on a number of factors including but not limited to arsenic species (arsenate vs. arsenite), groundwater pH, and oxidation-reduction potential (ORP). Arsenite is generally the more mobile species under typical environmental conditions; though, both arsenite and arsenate typically become more mobile as pH increases. This is due to surface charges that become increasingly negative in minerals such as iron oxides, which repels both arsenite and arsenate as it becomes increasingly negatively charged in high pH solution. Arsenic mobility can be further enhanced by reducing environments which promote the formation of the more mobile arsenite, as well as less positively charged forms of iron and other metals that may form arsenic complexes.

Mobile, dissolved, arsenic can typically be expected to migrate with groundwater flow; however, as dissolved arsenic migrates to areas of more neutral pH and less reducing conditions (higher ORP values) it can be removed from the dissolved phase through precipitation and formation of various metal complexes and/or be converted to the less mobile form arsenate.

Appendix E

MUNICIPAL SETTING DESIGNATION APPLICATION

1685 & 1695 SOUTH STREET HOUSTON, TEXAS

CHEMICALS OF CONCERN

Soil analytical data for COCs identified at the Designated Property is provided in **Tables 1** through **5**. For locations of all soil samples, refer to **Figure 3A** and **Figure 3B** in **Appendix C**.

Soil analytical data was compared to Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 residential PCLs. As defined by TRRP, surface soil (0-15 feet bgs) RALs are the lower of the soil-to-groundwater ingestion (^{GW}Soil_{ing}) and total soil combined (^{Tot}Soil_{Comb}) PCLs, and the greater of that PCL and the Texas-Specific Background Concentration (TSBC, for determination of soil metals RALs only). Subsurface soil (>15 feet bgs) RALs are the lower of the ^{GW}Soil_{ing} and soil-to-air inhalation (^{Air}Soil_{Inh-v}) PCLs. TRRP-defined RALs were used to determine ingestion and non-ingestion PCLs for surface and subsurface soil.

Soil COCs exceeding the residential ^{GW}Soil_{ing} PCL are listed in the below table:

Soil Analytical Data

Sample ID	Depth (ft.)	COC	^{GW} Soil _{ing} (Ingestion PCL)	^{Tot} Soil _{Comb} (Surface Soil Non-Ingestion PCL)	^{Air} Soil _{Inh-v} (Subsurface Soil Non-Ingestion PCL)	Max Conc.
MW-5R-W1	14-15	TPH C ₆ -C ₃₅	NA	13,900	59,200	89,100
TSB-8	29-29.5	Selenium	2.3	310	--	3.90 B
MW-7	0-2	Lead	3.0	500	--	2,370
SB-10	7-8	Cadmium	1.5	52	--	20.5
TSB-5	1-2	Barium	440	8,100	--	13,800
MW-8	5-6	Arsenic	5.0	24	--	322
SB-15A-S2	10	Benzene	0.026	120	270	0.217 J
SB-4	8-10	1,1-Dichlorethane	18	11,000	37,000	38.0
SB-4	8-10	Ethylbenzene	7.6	6,400	29,000	23.3
SB-15A- S2	10	Naphthalene	31	220	270	16,800
SB-4	8-10	Toluene	8.2	5,900	63,000	43.3
SB-15A- S2	10	1,2,4-Trimethylbenzene	33	1,600	4,000	37.0
MW-02	0-5	Benzo(b) fluoranthene	440	42	9,000	43.7
MW-02	0-5	Benzo(a) pyrene	7.6	4.1	64	42.5
SB-10	7-8	Fluorene	300	2,300	--	300
MW-02	0-5	Dibenz(a,h) anthracene	15	4.0	2,900	7.73

Appendix E

Sample ID	Depth (ft.)	COC	^{GW} Soil _{Ing} (Ingestion PCL)	^{Tot} Soil _{Comb} (Surface Soil Non-Ingestion PCL)	^{Air} Soil _{Inh-v} (Subsurface Soil Non-Ingestion PCL)	Max Conc.
SB-10	7-8	Naphthalene	31	220	270	205
SB-10	7-8	2-Methyl naphthalene	17	250	--	191.5
Bold PCL values indicate the ingestion PCL, which is the cPCL for soil without an MSD.						
Bold/Shaded PCL values indicate the non-ingestion PCLs for surface (0-15 feet) or subsurface soil (>15 feet).						
Bold/Shaded Max Concentration values indicate the analyte was detected at concentrations exceeding the non-ingestion PCL.						
All values presented in milligrams per kilogram (mg/kg).						

Groundwater elevation and analytical data for COCs identified at the Designated Property are provided in **Tables 6 and 7**. Locations of monitoring wells are depicted on **Figure 3A** in **Appendix C**.

Groundwater analytical data was compared to TCEQ TRRP Tier 1 residential PCLs for purposes of cPCL development. For the applicable COCs, ingestion PCLs for groundwater are represented by residential groundwater ingestion (^{GW}GW_{Ing}) PCLs. As the issuance of an MSD would restrict the use of Site groundwater for use as a potable water source, the TCEQ TRRP Tier 1 residential groundwater-to-air inhalation (^{Air}GW_{Inh-v}) PCLs represent the non-ingestion (MSD-adjusted) PCLs.

Groundwater COCs exceeding the residential ingestion PCL are listed in the below table:

Groundwater Analytical Data

COC	^{GW} GW _{Ing} (Ingestion PCL)	^{Air} GW _{Inh-v} (Non-Ingestion PCL)	Maximum Concentration
Arsenic	0.01	--	0.804
Bold PCL values indicate the ingestion PCL, which is the cPCL for groundwater without an MSD.			
All values presented in milligrams per liter (mg/L).			

There are no non-ingestion groundwater PCL exceedances at the Designated Property.

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Sample ID ¹	Date Collected	RCRA Metals ² (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Sampled By AEC									
SB-06 (5-6')	7/19/2002	23.0	52.9	0.22	4.70	30.4	0.036	<1.88	0.21
SB-06 (7-8')		<1.33	61.8	0.13	6.52	5.90	<0.005	<1.88	<0.15
SB-07 (4-6')		7.30	399	2.45	1.23	60.7	<0.005	<1.88	0.25
SB-07 (10-11')		3.96	30.9	0.13	8.72	8.93	<0.005	<1.88	<0.15
SB-8 (5-6')		20.5	39.5	0.16	4.80	61.0	<0.005	<1.88	<0.15
SB-8 (8-10')		40.1	22.1	<0.10	8.62	16.1	<0.005	<1.88	<0.15
SB-09 (14')		17.6	134	1.08	23.7	1,370	<0.005	<1.88	0.96
SB-09 (34-36')		<1.33	15.4	0.11	5.08	3.66	0.036	<1.88	<0.15
SB-10 (7-8')		52.7	66.3	20.5	6.38	1,050	0.028	<1.88	0.18
SB-10 (19-21')		<1.33	23.5	<0.10	4.24	7.15	0.036	<1.88	<0.15
Sampled By Arcadis									
SB-01 (0-5')	11/9/2007	6.40	5,800	0.341	26.7	115	0.1174	<0.117	0.164 J
SB-01 (10-12')		1.03	264	<0.112	5.94	4.88	<0.0112	<0.112	<0.112
SB-01 (30-32')		0.913	194	<0.114	5.91	7.90	<0.0114	<0.114	<0.114
TMW-01 (0-5')	11/8/2007	24.4	9,060	0.037	10.2	206	0.1136	0.17 J	0.375

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Sample ID ¹	Date Collected	RCRA Metals ² (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TMW-01 (8-10')	11/8/2007	4.51	3,990 D	<0.10	10.7	19.4	0.01 J	0.209 J	<0.10
TMW-01 (32-34')		2.69	761	<0.111	10.4	5.78	0.0111 J	<0.111	<0.111
MW-1 (0-5')	11/8/2007	12.4	4,470 D	0.235	4.58	62.9	0.0715	0.122 J	0.133 J
MW-1 (10-12')		0.688	1,390 D	<0.108	5.45	9.40	0.0108 J	0.172 J	<0.0108
MW-4 (0-5')	11/8/2007	14.5	2,330	<0.105	4.00	108	0.0419	<0.105	<0.105
MW-4 (10-12')		1.39	23.2	<0.114	5.29	5.62	0.0114 J	<0.114	<0.114
MW-4 (30-32')		1.10	31.9	<0.116	10.5	4.47	<0.0116	<0.116	<0.116
MW-5 (0-5')	11/8/2007	2.74	4,130 D	0.19	6.98	56.0	0.0317 J	<0.106	<0.106
MW-5 (4-6')		12.6	687	0.863	11.6	204	0.2551	0.912	0.451
MW-5 (32-34')		7.96	47.4	<0.11	11.9	7.97	0.011 J	<0.11	<0.11
MW-6 (0-5')	11/8/2007	1.73	721	0.125	6.74	27.6	0.0227 J	0.125 J	<0.114
MW-6 (18-20')		2.50	27.5	<0.119	9.55	7.00	0.0119 J	<0.119	<0.119
MW-6 (28-30')		3.14	318	0.128	7.79	12.8	0.0107 J	<0.107	<0.107
Sampled By Braun Intertec									
SB-11 (0-2')	8/19/2019	70.7	NA	<0.0763	NA	271	Not Analyzed		
SB-11 (9-10')		18.4	Not Analyzed			27.1			
SB-12 (0-2')		28.7	NA	<0.0734	NA	178	Not Analyzed		

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Sample ID ¹	Date Collected	RCRA Metals ² (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB-12 (9-10')	8/19/2019	2.36 J	Not Analyzed			10.7	Not Analyzed		
SB-14 (0-2')	8/21/2019	13.4	NA	<0.0746	NA	99.5	Not Analyzed		
SB-14 (10-11')		14.7	Not Analyzed			155			
SB-15 (19-20')		11.4	NA	0.806	NA	327	Not Analyzed		
SB-16 (5-6')		10.3	Not Analyzed			152	Not Analyzed		
SB-17 (0-2')	8/21/2019	9.47	Not Analyzed			408	Not Analyzed		
SB-17 (9-10')		6.08				438			
SB-18 (0-2')		3.04	Not Analyzed			56.8	Not Analyzed		
SB-19 (19-20')		2.06 J	Not Analyzed			8.46	Not Analyzed		
SB-20 (2-4')	12/18/2019	NA	Not Analyzed			18.6	Not Analyzed		
SB-21 (0-2')		NA	Not Analyzed			74.0	Not Analyzed		
		NA				68.3			
SB-22 (0-2')		47.1	Not Analyzed			597	Not Analyzed		
SB-22 (9-10')		0.709 J				4.16			
SB-23 (0-2')		6.40	Not Analyzed			NA	Not Analyzed		

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Sample ID ¹	Date Collected	RCRA Metals ² (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB-24 (0-2')	12/18/2019	7.16	Not Analyzed			NA	Not Analyzed		
SB-28 (0-2')	2/10/2021	10.3	Not Analyzed						
SB-28 (3')		51.8							
SB-28 (4')		35.2							
SB-29 (0-2')		50.4							
SB-29 (3')		10.5							
TMW-01A (2.5')	6/21/2022	15.4	4,570	Not Analyzed					
TMW-01A (5')		18.5	1.68						
MW-5R (14-15')	8/21/2019	17.8	NA	0.452 J	NA	2,060	Not Analyzed		
MW-5R (28-29')		11.1	Not Analyzed			226			
MW-6 (0-2')	8/19/2019	4.00	Not Analyzed			49.2	Not Analyzed		
MW-6 (29-30')		NA				7.43			
MW-7 (0-2')		22.2	Not Analyzed			2,370	Not Analyzed		
MW-7 (33-34')		1.02 J				7.38			

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Sample ID ¹	Date Collected	RCRA Metals ² (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
MW-8 (5-6')	8/20/2019	322	Not Analyzed			1,210	Not Analyzed		
MW-9 (33-34')	8/20/2019	84.8	Not Analyzed			426	Not Analyzed		
MW-10 (0-2')	12/18/2019	0.715 J	Not Analyzed			12.3	Not Analyzed		
		3.75	Not Analyzed						
Sampled By TGE									
TSB-1 (3-4')	3/16/2022	4.17	1,170	<0.0592	24.5	14.1	0.0261 J	<0.96	<0.16
TSB-1 (27-27.5')	3/17/2022	0.968 J	144	<0.0529	11.5	23.2	<0.0202	<0.859	<0.143
TSB-1 (34-35')		1.10 J	110	0.1700 J	23.3	4.84	<0.0194	<0.986	<0.164
TSB-2 (2-3')	3/18/2022	3.66	105	<0.0578	27.4	9.54	<0.0221	<0.937	<0.156
TSB-2 (16-17')	3/23/2022	0.629 J	55.1	0.0580 J	13.8	4.35	<0.021	<0.891	<0.148
TSB-2 (32-33')	3/23/2022	5.44	47.2	0.0938 J	16.7	8.89	<0.0213	<0.906	<0.151
TSB-3 (2.5-3.5')	3/14/2022	<0.636	23.8	<0.0578	3.92	10.4	<0.0221	<0.938	<0.156
TSB-3 (14-15')	3/16/2022	1.610 J	23.5	0.0660 J	13.3	5.44	<0.0209	<0.887	<0.147
TSB-3 (33.5-34.5')		5.98	39.4	0.1530 J	26.4	8.95	<0.024	<0.911	<0.151
TSB-4 (1-2')	3/14/2022	1.500 J	33.7	<0.0575	4.19	13.6	<0.022	<0.933	<0.155
TSB-4 (23-24')	3/16/2022	5.36	170	<0.0575	31.3	14.3	<0.022	<0.933	<0.155
TSB-4 (34-35')		5.68	46.9	0.1930 J	17.2	7.98	<0.0227	<0.962	<0.16

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Sample ID ¹	Date Collected	RCRA Metals ² (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TSB-4 (34-35 -DUP)	3/16/2022	4.07	16.3	<0.054	9.51	4.38	<0.0206	<0.875	<0.146
TSB-5 (1-2')	3/23/2022	10.6	13,800	<0.055	10.3	34.3	0.068	<0.893	<0.148
TSB-5 (6-7')		2.210 J	375	<0.0607	30.1	11.2	<0.0232	<0.984	<0.164
TSB-5 (30-31')		4.59	276	0.1460 J	17.9	8.21	<0.0211	<0.894	<0.149
TSB-6 (4-5')	3/24/2022	19.4	526	<0.0572	10.2	20	<0.0219	1.140 B J	<0.154
TSB-6 (29-30')		18.7	44	0.1060 J	9.46	7.61	<0.0207	3.570 B	<0.146
TSB-7 (1-2')	3/17/2022	3.05	117	<0.0617	26.3	10.4	0.0272 J	<1	<0.166
TSB-7 (30-31')	3/22/2022	1.050 J	78.1	0.0858 J	15.2	4.05	<0.0223	<0.948	<0.158
TSB-7 (32.5-33')		2.150 J	152	0.1090 J	22.2	7.89	<0.0231	<0.982	<0.163
TSB-8 (2-3')	3/24/2022	1.890 J	297	<0.0579	9.64	5.56	<0.0221	2.460 B	<0.156
TSB-8 (29-29.5')		4.4	45.7	<0.0545	10.7	4.92	<0.0208	3.90 B	<0.147
TSB-9 (0.5-1')	3/17/2022	3.88	4,440	<0.0581	33.9	21.4	<0.0222	<0.942	<0.157
TSB-9 (29-29.5')	3/18/2022	4.7	109	<0.0563	13.5	3.5	<0.215	<0.913	<0.152
TSB-9 (30.5-31')		1.710 J	399	<0.0554	12.8	3.87	<0.0212	<0.899	<0.149
TSB-10 (1-2')	3/17/2022	5.22	822	<0.0586	27.6	20.5	<0.0224	<0.951	<0.158
TSB-10 (1-2'-DUP)		4.57	1,960	<0.0617	25.7	24.2	<0.0236	<1	<0.166
TSB-10 (27-27.5')	3/18/2022	0.640 J	79.900 J3 J5 O1	<0.0536	19.9	3.31	<0.0205	1.01 J	<0.145

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Sample ID ¹	Date Collected	RCRA Metals ² (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
TSB-10 (29.5-30')	3/18/2022	3.22	2,100	<0.0553	15.3	7	<0.0211	<0.897	<0.149
TSB-11 (2.5-3.5')	3/14/2022	1.060 J	101	<0.0555	4.57	8.61	<0.0212	<0.9	<0.15
TSB-11 (33-34')	3/15/2022	1.130 J	98.3	<0.054	4.74	2.79	<0.0207	<0.877	<0.146
TSB-11 (34-35')		1.250 J	29.9	<0.0535	2.85	1.51	<0.0204	<0.868	<0.144
Residential^{GW}Soil_{Ing} PCL³		5.0	440	1.5	2,400	3.0	2.1	2.3	0.48
Residential^{Tot}Soil_{Comb} PCL⁴		24	8,100	52	33,000	500	8.30	310	97
Texas-Specific Soil Background Concentrations⁵		5.9	300	1.0	30	15.0	0.04	0.03	1.0
Residential^{Air}Soil_{Inh-V} PCL⁶		--	--	--	--	--	16.0	--	--

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS

4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Notes:

¹Samples collected in July 2002 by Associated Environmental Consultants, Inc. and analyzed by Mercury Environmental Services, Inc. in Stafford, Texas. Samples collected November 2007 by Malcolm Pirnie and analyzed by Xenco Laboratories in Houston, Texas. Samples collected in 2019-2022 by Braun Intertec and analyzed by Pace Analytical in Mount Juliet, Tennessee and Eurofins in Houston, Texas and samples collected by TGE in 2022 and analyzed by Pace Analytical in Mount Juliet, Tennessee.

²Resource Conservation Recovery Act (RCRA) 8 metals analyzed by U.S. Environmental Protection Agency (EPA) Method 6010 or 7471A (mercury).

³Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 residential soil-to-groundwater ingestion (^{GW}Soil_{ing}) protective concentration level (PCL) for a 0.5-acre source area.

⁴TCEQ TRRP Tier 1 residential total-soil-combined (^{Tot}Soil_{comb}) PCL for a 0.5-acre source area.

⁵TCEQ TRRP Texas-Specific Soil Background Concentrations (TSBC).

⁶TCEQ TRRP Tier 1 residential air-soil-inhalation (^{Air}Soil_{inh-v}) for a 0.5-acre source area.

(NA) The associated analyte was not analyzed.

(J) The identification of the analyte is acceptable; the reported value is an estimate.

(B) The same analyte is found in the associated blank.

(O1) The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

(V) The sample concentration is too high to evaluate accurate spike recoveries.

(--) The PCL is Not Established.

Bold regulatory value indicates the residential assessment level (RAL). The RAL is the lower of the ^{GW}Soil_{ing} PCL and ^{Tot}Soil_{comb} PCL and greater of that PCL and the TSBC.

Bold sample data indicates the associated analyte was detected at a concentration exceeding the residential PCL. ^{GW}Soil_{ing} PCL will not apply due to MSD application. ^{Tot}Soil_{comb} will be the RAL.

Highlighted sample data indicates the associated analyte was detected at a concentration exceeding the TRRP Tier 1 residential ^{Tot}Soil_{comb} PCL.

Italicized sample data indicates sample duplicate data.

All results reported in milligrams per kilogram (mg/kg).

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - TPH

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Date Collected	Sample Depth (feet)	Total Petroleum Hydrocarbons ² (mg/kg)				
			C ₆ -C ₁₂	C ₁₂ -C ₂₈	C ₂₈ -C ₃₅	C ₆ -C ₃₅	
Surface Soil (0 - 15' bgs)							
Sampled By AEC							
SB-6	7/19/2002	0-2	<50	<50	<50	<50	
SB-6		7-8	<50	<50	<50	<50	
SB-7		0-2	<50	<50	<50	<50	
		7-8	<50	<50	<50	<50	
		10-11	<50	<50	<50	<50	
SB-8		0-2	<50	<50	<50	<50	
		5-6	<50	<50	<50	<50	
		8-10	<50	<50	<50	<50	
SB-9			0-2	<50	<50	<50	<50
			14	<50	<50	<50	<50
SB-10		0-2	<50	<50	<50	<50	
		7-8	146	15,400	174	15,720	
Sampled by Arcadis							
TMW-01	11/8/2007	0-5	27.2	550	65.3	642.5	
		8-10	<16.2	27 J	<14.9	27 J	
TMW -02		0-2	<16.4	<20.6	<15.1	<20.6	
MW-01		0-5	<15.6	73	31.9 J	104.9	
		10-12	<15.9	<18.3	<14.7	<18.3	
MW-2		0-5	<14.9	31.3 J	<13.8	31.3	
		10-12	<16.5	<18.9	<15.2	<18.9	
MW-3		0-5	<16.7	<19.1	<15.4	<19.1	
		6-8	<16.3	<18.6	<15	<18.6	
MW-4		0-5	<15.5	<17.8	<14.4	<17.8	
	10-12	<16.1	<18.4	<14.9	<18.4		
MW-05	0-5	<15.5	36.3 J	19.6 J	55.9		
	4-6	24.8 J	521	48.7	594.5		
MW-06	0-5	<16	<18.4	<14.8	<18.4		
SB-01	11/9/2007	0-5	<17	24.8 J	<15.7	24.8 J	
		10-12	<16.9	<19.4	<15.6	<19.4	
SB-02		0-5	<15.1	<17.2	<13.9	<17.2	
		6-8	<16.4	18.9 J	<15.2	18.9 J	
		12-14	<16.4	19.3 J	<15.1	19.3 J	
SB-03		0-5	<17.7	27.8 J	<16.3	27.8 J	
SB-04		0-5	<17	<19.5	<15.7	<19.5	
Sampled by Braun Intertec							
SB-12		8/19/2019	0 - 2	<15.7 T8	<15.7 T8	<15.7 T8	<15.7 T8
SB-12		8/19/2019	0 - 2	<15.7 T8	<15.7 T8	<15.7 T8	<15.7 T8
SB-14	8/21/2019	0 - 2	<16.0	<16.0	33.1 J	33.1 J	
SB-16		5 - 6	<325	6,940	5,710	12,700	
SB-19		9 - 10	<21.4	<21.4	<21.4	<21.4	
SB-21	12/18/2019	0 - 2	<16.7	192	146	338	
SB-15A-S2	6/21/2022	10	2,700	46,000	2,350	51,100	
MW-5R	8/21/2019	14 - 15	656 J	14,800	3,330	18,800	
MW-5R-W1	2/10/2021		4,270	69,600	15,200	89,100	
MW-5R-W2			1,830	23,900	5,220	31,000	
MW-5R-E1			<18.1	444	69.8	513	
MW-5R-N1			131 J	8,120	4,610	12,900	
MW-5R-S1	6/21/2022	14 - 15	2,970	45,600	3,800	52,400	
MW-8	8/20/2019	5 - 6	<82.3	405	452	857	
MW-10	12/18/2019	0 - 2	<17.3	<17.3	<17.3	<17.3	
TMW-4	6/21/2022	8-10	1,450 J	42,800	2,610	46,900	

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - TPH

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Date Collected	Sample Depth (feet)	Total Petroleum Hydrocarbons ² (mg/kg)			
			C ₆ -C ₁₂	C ₁₂ -C ₂₈	C ₂₈ -C ₃₅	C ₆ -C ₃₅
Sampled by TGE						
TSB-1	3/16/2022	3-4	<26.2	<26.2	<26.2	<26.2
TSB-2	3/18/2022	2-3	<25.9	<25.9	<25.9	<25.9
TSB-3	3/14/2022	2.5-3.5	<24.7	<24.7	<24.7	<24.7
TSB-3	3/16/2022	14-15	<21.8	<21.8	<21.8	<21.8
TSB-4	3/14/2022	1-2	<23.5	<23.5	<23.5	<23.5
TSB-5	3/23/2022	1-2	<22.4	<22.4	<22.4	<22.4
TSB-5		6-7	<27.2	<27.2	<27.2	<27.2
TSB-6	3/24/2022	4-5	<25.9	<25.9	<25.9	<25.9
TSB-7	3/17/2022	1-2	<27.9	<27.9	<27.9	<27.9
TSB-8	3/24/2022	2-3	<25.6	<25.6	<25.6	<25.6
TSB-9	3/17/2022	0.5-1	<26.1	<26.1	<26.1	<26.1
TSB-10	3/17/2022	1-2	<27.3	<27.3	<27.3	<27.3
TSB-10 (DUP)			47.0 J	516	<29.1	563
TSB-11	3/14/2022	2.5-3.5	<21.4	<21.4	<21.4	<21.4
Subsurface Soil (>15' bgs)						
Sampled by AEC						
SB-9	7/19/2002	34-36	<50	<50	<50	<50
SB-10		19-21	<50	<50	<50	<50
Sampled by Arcadis						
TMW-01	11/8/2007	32-34	<17.1	<19.6	<15.8	<19.6
TMW-02		16-18	<16.9	<18.9	<15.2	<18.9
		30-32	<18.2	<20.8	<16.8	<20.8
MW-02		30-32	<16.2	20.7 J	<14.9	20.7 J
		30-32 (DUP)	<18.4	<21	<17	<21
MW-03		30-34	27.9 J	49.5 J	<15	77.4
MW-04		30-32	<17.5	<20.1	<16.2	<20.1
MW-05		32-34	<16.3	29.5 J	<15	29.5 J
	18-20	17.3	<19.5	<15.7	17.3 J	
MW-6	28-30	<16.3	<18.7	<15.1	<18.7	
	30-32	<15.8	20.4 J	<14.6	20.4 J	
SB-01	11/9/2007	16-18	<15.8	20.2 J	<14.6	20.2 J
SB-02		22-24	<17.2	<19.7	<15.9	<19.7
		26-28	<16.5	<19	<15.3	<19
		30-32	<16.1	<18.5	<14.9	<18.5
		22-24	<15.7	<18	<14.5	<18
SB-03		30-32	<16.5	<18.9	<15.3	<18.9
		18-20	<15.8	36.4 J	<14.6	36.4 J
SB-04		22-24	<16.4	20.5 J	<15.2	20.5 J
		26-28	<16.2	21 J	<15	21 J
		30-32	<16	20.7 J	<15.4	20.7 J
Sampled by Braun Intertec						
SB-15	8/21/2019	19 - 20	5,110	62,900	15,300	83,400
SB-15A-N1	2/9/2021	19 - 20	<17.2	<17.2	<17.2	<17.2
SB-15A-W1	2/10/2021		<36.1	2,320	1,050	3,370
SB-15A-E1			<18.0	298	59.5 J	358
SB-15A-S1			1,880	51,300	12,700	65,900
SB-15A-S2	6/21/2022	19 - 20	<43.4	952	310	1,260
SB-15A	2/9/2021	22.5	<17.7	142	33.4 J	175
MW-5R	8/21/2019	28 - 29	33.8 T8	661 T8	120 T8	814 T8

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS - TPH

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Date Collected	Sample Depth (feet)	Total Petroleum Hydrocarbons ² (mg/kg)			
			C ₆ -C ₁₂	C ₁₂ -C ₂₈	C ₂₈ -C ₃₅	C ₆ -C ₃₅
MW-9	8/20/2019	25 - 26	<388	4,420	1,810	6,230
		33 - 34	<18.3 T8	131 T8	39.3 J T8	170 T8
MW-8		39 - 40	<18.2 T8	<18.2 T8	<18.2 T8	<18.2 T8
SB-16	8/21/2019	19 - 20	<18.3 T8	168 T8	234 T8	402 T8
Sampled by TGE						
TSB-1	3/17/2022	27-27.5	<22.8	<22.8	<22.8	<22.8
TSB-1		34-35	<30.2	<30.2	<30.2	<30.2
TSB-2	3/23/2022	16-17	<22.2	<22.2	<22.2	<22.2
TSB-2	3/23/2022	32-33	<24.5	<24.5	<24.5	<24.5
TSB-3	3/16/2022	33.5-34.5	<30.7	<30.7	<30.7	<30.7
TSB-4		23-24	<27.3	<27.3	<27.3	<27.3
TSB-4		34-35	<18.9	<18.9	<18.9	<18.9
TSB-4 (DUP)		34-35	<24.9	<24.9	<24.9	<24.9
TSB-5	3/23/2022	30-31	<24.2	<24.2	<24.2	<24.2
TSB-6	3/24/2022	29-30	<26.5	<26.5	<26.5	<26.5
TSB-7	3/22/2022	30-31	<29.4	<29.4	<29.4	<29.4
		32.5-33	<26.6	<26.6	<26.6	<26.6
TSB-8	3/24/2022	29-29.5	<29.5	<29.5	<29.5	<29.5
TSB-9	3/18/2022	29-29.5	47.0 J	38.9 J	<23.1	85.9 J
		30.5-31	50 J	56 J	<27	106 J
TSB-10		27-27.5	<25.3	<25.3	<25.3	<25.3
		29.5-30	<22.4	<22.4	<22.4	<22.4
TSB-11	3/15/2022	33-34	68.7 J	72.6 J	<23.9	141.3 J
		34-35	<33.2	<33.2	<33.2	<33.2
Residential ^{GW} Soil _{ing} PCL ³			NA	NA	NA	NA
Residential ^{Tot} Soil _{comb} PCL ⁴			NA	NA	NA	13,900
Residential ^{Air} Soil _{inh-v} PCL ⁵			NA	NA	NA	59,200

Notes:

¹Samples collected by AEC (2002) and analyzed by Mercury Environmental Services, Inc in Deer Park, Texas and Envirodyne Laboratories, Inc in Houston, Texas. Samples collected by Arcadis (2007) and analyzed by Xenco Laboratories in Houston, Texas. Samples collected by Braun Intertec (August 2019 and June 2022) and analyzed by Pace Analytical in Mt. Juliet, Tennessee and Eurofins in Houston, Texas and collected by TGE (March 2022) and analyzed by Pace Analytical in Mt. Juliet, Tennessee.

²Total Petroleum Hydrocarbons (TPH) analyzed by Texas Method 1005.

³Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 residential soil-to-groundwater ingestion (^{GW}Soil_{ing}) protective concentration level (PCL) for a 0.5-acre source area.

⁴TCEQ TRRP Tier 1 residential total soil combined (^{Tot}Soil_{comb}) PCL for a 0.5-acre source area.

⁵TCEQ TRRP Tier 1 residential air-to-soil inhalation (^{Air}Soil_{inh-v}) PCL for a 0.5-acre source area.

⁶TCEQ TRRP Tier 1 commercial/industrial ^{Tot}Soil_{comb} PCL for a 0.5-acre source area.

⁷TCEQ TRRP Tier 1 commercial/industrial ^{Air}Soil_{inh-v} PCL for a 0.5-acre source area.

(J) The identification of the analyte is acceptable; the reported value is an estimate.

(T8) Samples received too close to holding time expiration.

(NA) Not applicable based upon TCEQ TRRP Tier 1 TPH PCL calculator (v 2.0 - 2/2020) for TCEQ Method 1006 data.

Bold sample result indicates the analyte exceeds the calculated Tier 1 residential ^{GW}Soil_{ing} PCL for a 0.5-acre source area.

Bold & Highlighted sample result indicates the analyte was detected at concentrations exceeding the applicable MSD-Adjusted RAL.

All results reported in milligrams per kilogram (mg/kg).

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{mg} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	MW-2	MW-3	MW-4		MW-5		SB-2A	SB-3		
				12/4/2000								11/7/1995	
Date Collected	AEC												
Sampled By	AEC												
Sample Depth (feet)													
	10	10	12	22	40	8	30	40	10-12	10-12			
Volatile Organic Compounds⁵ (mg/kg)													
Acetone	43	66,000	600,000	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	NA	NA
Benzene	0.026	120	160	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<10	<10
n-Butylbenzene	150	3,300	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
sec-Butylbenzene	85	3,300	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
tert-Butylbenzene	100	3,300	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
Chlorobenzene	1.1	520	770	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<50	<50
Chloroform	1	16	16	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<10	<10
1,2-Dichlorobenzene	18	720	800	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<10	<10
1,3-Dichlorobenzene	6.7	120	120	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<10	<10
1,4-Dichlorobenzene	2.1	250	12,000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<10	<10
1,1-Dichloroethane	18	11,000	37,000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	33.1	19.3
cis-1,2-Dichloroethene	0.25	140	920	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
Ethylbenzene	7.6	6,400	29,000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<10	<10
Isopropylbenzene	350	4,300	9,200	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
p-Isopropyltoluene	230	8,200	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	29	40,000	200,000	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NA	NA
Naphthalene	31	220	270	<0.005	<0.005	<0.005	<0.005	<0.005	4.47	0.482	<0.005	<10	<10
n-Propylbenzene	45	2,200	6,300	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
Tetrachloroethene	0.05	710	940	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
Toluene	8.2	5,900	63,000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	12.3	<10
Trichloroethene	0.034	18	31	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
Trichlorofluoromethane	130	25,000	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<10	<10
1,2,4-Trimethylbenzene	33	1,600	4,000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
1,2,3-Trimethylbenzene	21	1,600	3,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	36	1,500	3,500	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
m,p-Xylenes	110	8,900	9,400	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	<0.005	<0.005	--	--
o-Xylenes	71	48,000	68,000	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	--	--
Xylenes, Total	120	6,000	9,400	--	--	--	--	--	--	--	--	<10	<10

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{mg} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	SB-4	SB-6	SB-7	SB-8	SB-9	SB-10	TMW-01		TMW-02	
				11/7/1995	7/19/2002				11/8/2007				
Sampled By				AEC						Arcadis			
Sample Depth (feet)				8-10	5-6	4-6	5-6	14	7-8	00-05	8-10	32-34	00-05
Volatile Organic Compounds ⁵ (mg/kg)													
Acetone	43	66,000	600,000	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.115	<0.023	<0.024	<0.023
Benzene	0.026	120	160	0.092	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
n-Butylbenzene	150	3,300	--	NA	<0.005	<0.005	<0.005	<0.005	0.118	NA	NA	NA	NA
sec-Butylbenzene	85	3,300	--	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA
tert-Butylbenzene	100	3,300	--	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA
Chlorobenzene	1.1	520	770	<50	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
Chloroform	1	16	16	<10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	18	720	800	<10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	6.7	120	120	<10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	2.1	250	12,000	<10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
1,1-Dichloroethane	18	11,000	37,000	38.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.25	140	920	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
Ethylbenzene	7.6	6,400	29,000	23.3	<0.005	<0.005	<0.005	<0.005	0.055	0.007 J	<0.001	<0.001	<0.001
Isopropylbenzene	350	4,300	9,200	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
p-Isopropyltoluene	230	8,200	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	29	40,000	200,000	NA	<0.050	<0.050	<0.050	<0.050	<0.050	<0.057	<0.012	<0.012	<0.012
Naphthalene	31	220	270	<10	<0.005	<0.005	<0.005	<0.005	7.400	NA	NA	NA	NA
n-Propylbenzene	45	2,200	6,300	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA
Tetrachloroethene	0.05	710	940	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
Toluene	8.2	5,900	63,000	43.3	<0.005	<0.005	<0.005	<0.005	0.032	0.027 J	<0.001	<0.001 J	<0.001
Trichloroethene	0.034	18	31	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
Trichlorofluoromethane	130	25,000	--	<10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	33	1,600	4,000	NA	<0.005	<0.005	<0.005	<0.005	0.207	NA	NA	NA	NA
1,2,3-Trimethylbenzene	21	1,600	3,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	36	1,500	3,500	NA	<0.005	<0.005	<0.005	<0.005	0.059	NA	NA	NA	NA
m,p-Xylenes	110	8,900	9,400	--	<0.005	<0.005	<0.005	<0.005	0.086	0.022	<0.002	<0.002	<0.002
o-Xylenes	71	48,000	68,000	--	<0.005	<0.005	<0.005	<0.005	0.084	0.008	<0.001	<0.001	<0.001
Xylenes, Total	120	6,000	9,400	109	--	--	--	--	--	--	--	--	--

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{mg} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	TMW-02		MW-01		MW-02			MW-02 (DUP)	MW-03			
				11/8/2007											
				Arcadis											
				Sample Depth (feet)	16-18	30-32	00-05	10-12	0-5	10-12	30-32	30-32 (DUP)	0-5	6-8	
Volatile Organic Compounds ⁵ (mg/kg)															
Acetone	43	66,000	600,000	<0.024	<0.026	<0.022	<0.023	<0.022	<0.024	<0.023	<0.026	<0.024	<0.024		
Benzene	0.026	120	160	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
n-Butylbenzene	150	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
sec-Butylbenzene	85	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
tert-Butylbenzene	100	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chlorobenzene	1.1	520	770	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Chloroform	1	16	16	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1,2-Dichlorobenzene	18	720	800	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1,3-Dichlorobenzene	6.7	120	120	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1,4-Dichlorobenzene	2.1	250	12,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1,1-Dichloroethane	18	11,000	37,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
cis-1,2-Dichloroethene	0.25	140	920	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Ethylbenzene	7.6	6,400	29,000	<0.001	<0.001	<0.001	<0.001	<0.001 J	<0.001	<0.001	<0.001	<0.001	<0.001		
Isopropylbenzene	350	4,300	9,200	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
p-Isopropyltoluene	230	8,200	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2-Butanone (MEK)	29	40,000	200,000	<0.012	<0.013	<0.011	<0.011	<0.011	<0.012	<0.012	<0.013	<0.012	<0.012		
Naphthalene	31	220	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
n-Propylbenzene	45	2,200	6,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Tetrachloroethene	0.05	710	940	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Toluene	8.2	5,900	63,000	<0.001	<0.001	0.003 J	<0.001 J	0.003 J	<0.001	<0.001	<0.001	0.002 J	<0.001		
Trichloroethene	0.034	18	31	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Trichlorofluoromethane	130	25,000	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
1,2,4-Trimethylbenzene	33	1,600	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1,2,3-Trimethylbenzene	21	1,600	3,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1,3,5-Trimethylbenzene	36	1,500	3,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
m,p-Xylenes	110	8,900	9,400	<0.002	<0.003	<0.002	<0.002	0.004	<0.002	<0.002	<0.003	0.003	<0.002		
o-Xylenes	71	48,000	68,000	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Xylenes, Total	120	6,000	9,400	--	--	--	--	--	--	--	--	--	--		

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{mg} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	MW-03	MW-04		MW-05			MW-06			
				11/8/2007									
Date Collected	Arcadis												
Sampled By	Arcadis												
Sample Depth (feet)				30-34	0-5	10-12	30-32	0-5	4-6	32-34	0-5	18-20	28-30
Volatile Organic Compounds ⁵ (mg/kg)													
Acetone	43	66,000	600,000	<0.023	<0.022	<0.023	<0.025	<0.022	0.265 J	<0.114	<0.023	<0.025	<0.023
Benzene	0.026	120	160	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
n-Butylbenzene	150	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	85	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	100	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	520	770	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
Chloroform	1	16	16	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	18	720	800	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	6.7	120	120	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	2.1	250	12,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
1,1-Dichloroethane	18	11,000	37,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.25	140	920	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
Ethylbenzene	7.6	6,400	29,000	<0.001	<0.001	<0.001	<0.001	0.002 J	0.008 J	<0.006	<0.001	<0.001	<0.001
Isopropylbenzene	350	4,300	9,200	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
p-Isopropyltoluene	230	8,200	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	29	40,000	200,000	<0.012	<0.011	<0.012	<0.013	<0.011	0.058 J	<0.057	<0.012	<0.012	<0.012
Naphthalene	31	220	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	45	2,200	6,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	0.05	710	940	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
Toluene	8.2	5,900	63,000	<0.001	<0.001	<0.001	<0.001	0.008	0.025 J	<0.006	<0.001	<0.001	<0.001
Trichloroethene	0.034	18	31	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
Trichlorofluoromethane	130	25,000	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	33	1,600	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	21	1,600	3,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	36	1,500	3,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	110	8,900	9,400	<0.002	<0.002	<0.002	<0.003	<0.002	0.008	<0.011	<0.002	<0.002	<0.002
o-Xylenes	71	48,000	68,000	<0.001	<0.001	<0.001	<0.001	<0.001	0.019	<0.006	<0.001	<0.001	<0.001
Xylenes, Total	120	6,000	9,400	--	--	--	--	--	--	--	--	--	--

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{mg} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	SB-1			SB-2						
				11/9/2007									
				Arcadis									
				0-5	10-12	30-32	0-5	6-8	12-14	16-18	22-24	26-28	30-32
Sample Depth (feet)	Volatile Organic Compounds ⁵ (mg/kg)												
Acetone	43	66,000	600,000	<0.024	<0.024	<0.023	<0.022	<0.024	<0.023	<0.023	<0.025	<0.024	<0.023
Benzene	0.026	120	160	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene	150	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	85	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	100	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1.1	520	770	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform	1	16	16	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	18	720	800	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	6.7	120	120	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	2.1	250	12,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	18	11,000	37,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,2-Dichloroethene	0.25	140	920	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	7.6	6,400	29,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	350	4,300	9,200	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
p-Isopropyltoluene	230	8,200	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	29	40,000	200,000	<0.012	<0.012	<0.011	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012
Naphthalene	31	220	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	45	2,200	6,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	0.05	710	940	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	8.2	5,900	63,000	0.002 J	<0.001	<0.001	<0.001	0.002 J	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene	0.034	18	31	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	130	25,000	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	33	1,600	4,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	21	1,600	3,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	36	1,500	3,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylenes	110	8,900	9,400	0.003	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002
o-Xylenes	71	48,000	68,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes, Total	120	6,000	9,400	--	--	--	--	--	--	--	--	--	--

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW _{Soil} PCL ²	Residential Tot _{Soil} PCL ³	Residential Air _{Soil} PCL ⁴	SB-3			SB-4					MW-5R		
				11/9/2007										
Date Collected	Arcadis											Braun Intertec		
Sampled By														
Sample Depth (feet)				0-5	22-24	30-32	0-5	18-20	22-24	26-28	30-32	14 - 15		
Volatile Organic Compounds ⁵ (mg/kg)														
Acetone	43	66,000	600,000	0.029 J	<0.023	<0.024	<0.024	<0.023	<0.023	<0.023	<0.024	0.140	<0.0332	
Benzene	0.026	120	160	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0191	0.00685	
n-Butylbenzene	150	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	<0.00465	<0.00931	
sec-Butylbenzene	85	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	0.00501 J	<0.00614	
tert-Butylbenzene	100	3,300	--	NA	NA	NA	NA	NA	NA	NA	NA	0.0196	<0.00376	
Chlorobenzene	1.1	520	770	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0146	0.00367 J	
Chloroform	1	16	16	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000502	<0.00101	
1,2-Dichlorobenzene	18	720	800	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0141	<0.00352	
1,3-Dichlorobenzene	6.7	120	120	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00759	<0.00412	
1,4-Dichlorobenzene	2.1	250	12,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00351 J	<0.00478	
1,1-Dichloroethane	18	11,000	37,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00298 J	0.00166 J	
cis-1,2-Dichloroethene	0.25	140	920	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000835	<0.00167	
Ethylbenzene	7.6	6,400	29,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00354	<0.00129	
Isopropylbenzene	350	4,300	9,200	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00234 J	<0.00209	
p-Isopropyltoluene	230	8,200	--	NA	NA	NA	NA	NA	NA	NA	NA	0.0698	0.0148	
2-Butanone (MEK)	29	40,000	200,000	<0.013	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012	0.0538	0.0606 J	
Naphthalene	31	220	270	NA	NA	NA	NA	NA	NA	NA	NA	0.178	0.0229 J	
n-Propylbenzene	45	2,200	6,300	NA	NA	NA	NA	NA	NA	NA	NA	0.00601 J	<0.00286	
Tetrachloroethene	0.05	710	940	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0131	0.00283 J	
Toluene	8.2	5,900	63,000	0.002 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0383	0.00673 J	
Trichloroethene	0.034	18	31	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0029	<0.000970	
Trichlorofluoromethane	130	25,000	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.000605	<0.00121	
1,2,4-Trimethylbenzene	33	1,600	4,000	NA	NA	NA	NA	NA	NA	NA	NA	0.00336 J	<0.00281	
1,2,3-Trimethylbenzene	21	1,600	3,600	NA	NA	NA	NA	NA	NA	NA	NA	0.00679	<0.00279	
1,3,5-Trimethylbenzene	36	1,500	3,500	NA	NA	NA	NA	NA	NA	NA	NA	0.00207 J	<0.00262	
m,p-Xylenes	110	8,900	9,400	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	--	
o-Xylenes	71	48,000	68,000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	--	
Xylenes, Total	120	6,000	9,400	--	--	--	--	--	--	--	--	0.0168	<0.0116	

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{inh-v} PCL ⁴	MW-6	MW-7	MW-8	MW-9	TMW-04	SB-11	SB-12	SB-13	SB-14	SB-15
				8/19/2019		8/20/2019	8/20/2019	6/22/2022	8/19/2019		8/20/2019	8/21/2019	
Date Collected	Braun Intertec												
Sampled By	Braun Intertec												
Sample Depth (feet)	0 - 2		0 - 2	5 - 6	25 - 26	8-10	0 - 2	0 - 2	9 - 10	0 - 2	19 - 20		
Volatile Organic Compounds ⁵ (mg/kg)													
Acetone	43	66,000	600,000	0.0378 B	0.211 B	<0.0168	0.0263 J	--	0.0411 B	0.0260 B J	<0.0166	<0.0165	<0.0211
Benzene	0.026	120	160	<0.000420	0.0069	0.00394	0.00142	0.000619 J	<0.000420	<0.000420	0.00432	<0.000482	0.0119
n-Butylbenzene	150	3,300	--	<0.00430	<0.00402	0.00495 J	<0.00497	<0.000236	<0.00423	<0.00403	<0.00464	<0.00462	<0.00591
sec-Butylbenzene	85	3,300	--	<0.00265	0.00728 J	0.00408 J	<0.00328	0.000291 J	<0.00265	<0.00265	<0.00306	<0.00305	0.0793
tert-Butylbenzene	100	3,300	--	<0.00174	<0.00162	<0.00191	<0.00201	<0.00111	<0.00171	<0.00201	<0.00187	<0.00187	0.0704
Chlorobenzene	1.1	520	770	<0.000641	<0.000601	<0.000704	<0.000742	<0.000204	<0.000631	<0.000601	0.00106 J	<0.000690	<0.000882
Chloroform	1	16	16	0.000912 J	<0.000435	<0.000510	<0.000537	<0.000149	<0.000435	<0.000435	<0.000502	<0.000500	<0.000639
1,2-Dichlorobenzene	18	720	800	<0.000588	<0.00152	<0.00178	<0.00188	<0.000248	<0.00160	<0.00188	<0.00175	<0.00175	<0.00223
1,3-Dichlorobenzene	6.7	120	120	<0.00190	<0.00178	<0.00209	<0.00220	<0.000235	<0.00187	<0.00220	<0.00206	<0.00205	<0.00262
1,4-Dichlorobenzene	2.1	250	12,000	<0.00221	<0.00206	<0.00242	<0.00255	<0.000185	<0.00217	<0.00255	<0.00238	<0.00237	<0.00303
1,1-Dichloroethane	18	11,000	37,000	<0.000603	<0.000603	0.00142 J	0.000893 J	<0.000324	0.00109 J	<0.000603	<0.000695	<0.000692	<0.000639
cis-1,2-Dichloroethene	0.25	140	920	0.00172 J	0.00169 J	<0.000848	<0.000893	<0.000259	0.00213 J	0.00133 J	<0.000835	<0.000831	<0.000639
Ethylbenzene	7.6	6,400	29,000	<0.000556	0.00343	0.00782	0.00193 J	0.000993	<0.000556	<0.000556	0.00457	0.000817 J	0.0228
Isopropylbenzene	350	4,300	9,200	<0.000905	0.0067	0.00353	<0.00112	0.000572 J	<0.000905	<0.000905	0.00154 J	<0.00104	0.0282
p-Isopropyltoluene	230	8,200	--	<0.00261	0.00376 J	<0.00286	<0.00302	<0.000275	<0.00257	<0.00302	0.00755	0.0245	0.0204
2-Butanone (MEK)	29	40,000	200,000	0.0664	0.176	<0.0154	0.0257 B J	<0.00314	0.0815	0.0577	0.0464 B	<0.0150	<0.000882
Naphthalene	31	220	270	<0.00349 J4	0.0195 J4	0.0517	0.202	404	<0.00343 J4	<0.00327 J4	7.10	0.00538 J	0.686
n-Propylbenzene	45	2,200	6,300	<0.00124	0.00382 J	0.00930	0.00156 J	<0.000246	<0.00124	<0.00124	0.00224 J	<0.00142	<0.000882
Tetrachloroethene	0.05	710	940	<0.000784	<0.000734	0.00363	0.00512	<0.000319	<0.000771	<0.000734	0.00335	<0.000843	0.00235 J
Toluene	8.2	5,900	63,000	0.0102	0.0257	0.0265	0.0134	0.000908 J	0.00922	0.00661	0.0195	0.00579 J	0.0293
Trichloroethene	0.034	18	31	<0.000448	<0.000419	0.000554 J	0.00112 J	<0.000426	<0.000440	<0.000420	0.000513 J	<0.000482	<0.000882
Trichlorofluoromethane	130	25,000	--	0.0670	<0.000524	<0.000615	<0.000647	<0.000265	0.0647	0.0292	<0.000605	<0.000602	<0.000639
1,2,4-Trimethylbenzene	33	1,600	4,000	<0.00122	0.0299	0.0358	0.00294 J	0.00226	<0.00122	<0.00122	0.0124	<0.00140	0.0178
1,2,3-Trimethylbenzene	21	1,600	3,600	<0.00121	0.0362	0.015	0.00159 J	--	<0.00121	<0.00121	0.00965	<0.00138	0.0185
1,3,5-Trimethylbenzene	36	1,500	3,500	<0.00113	0.0175	0.0114	<0.00140	0.000542	<0.00113	<0.00113	0.00303 J	<0.00130	0.00684 J
m,p-Xylenes	110	8,900	9,400	--	--	--	--	--	--	--	--	--	--
o-Xylenes	71	48,000	68,000	--	--	--	--	--	--	--	--	--	--
Xylenes, Total	120	6,000	9,400	<0.00501	0.0538	0.067	0.0106	0.002	<0.00501	<0.00501	0.0209	<0.00575	0.042

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{inh-v} PCL ⁴	SB-15A-S2	SB-16	SB-17	SB-18	SB-19	TSB-1		TSB-2		
				6/21/2022	8/21/2019	8/21/2019			3/16/2022	3/17/2022		3/18/2022	
Sampled By	Braun Intertec					TGE Resources, Inc							
Sample Depth (feet)					10	5 - 6	0 - 2	0 - 2	9 - 10	3-4	27-27.5	34-35	2-3
Volatile Organic Compounds ⁵ (mg/kg)													
Acetone	43	66,000	600,000	--	0.0309	0.116	<0.0144	0.0307	<0.0195	<0.0773	<0.0792	<0.0746	<0.0732
Benzene	0.026	120	160	0.217 J	0.00136	0.00253	<0.000419	<0.000435	0.00118 J	<0.000989	<0.00101	<0.000955	<0.000936
n-Butylbenzene	150	3,300	--	5.41	0.0301	0.114	<0.00403	<0.00417	<0.00548	<0.0111	<0.0114	<0.0107	<0.0105
sec-Butylbenzene	85	3,300	--	0.694 J	0.00335 J	0.0136 J	<0.00265	<0.00275	<0.00361	<0.00610	<0.00625	<0.00589	<0.00577
tert-Butylbenzene	100	3,300	--	<0.365	<0.00168	0.00375 J	<0.00163	<0.00168	<0.00221	<0.00413	<0.00423	<0.00399	<0.00391
Chlorobenzene	1.1	520	770	<0.0673	<0.000621	<0.000625	<0.000601	<0.000623	<0.000818	<0.000445	<0.000456	<0.00429	<0.000421
Chloroform	1	16	16	<0.0492	<0.000450	<0.000453	<0.000435	<0.000451	<0.000592	<0.00218	<0.00224	<0.00211	<0.00207
1,2-Dichlorobenzene	18	720	800	<0.0818	<0.00157	<0.00158	<0.00152	<0.00158	<0.00207	<0.000900	<0.000922	<0.000869	<0.000852
1,3-Dichlorobenzene	6.7	120	120	<0.0775	<0.00184	<0.00185	<0.00178	<0.00185	<0.00243	<0.00127	<0.0013	<0.00123	<0.00120
1,4-Dichlorobenzene	2.1	250	12,000	<0.0610	<0.00214	<0.00215	<0.00207	<0.00214	<0.00281	<0.00148	<0.00152	<0.00143	<0.00140
1,1-Dichloroethane	18	11,000	37,000	<0.107	<0.000623	0.00142 J	<0.000603	<0.000543	<0.000820	<0.00104	<0.00107	<0.00100	<0.000985
cis-1,2-Dichloroethene	0.25	140	920	<0.0855	<0.000748	0.00213 J	<0.000724	<0.000737	<0.000985	<0.00155	<0.00159	<0.00150	<0.00147
Ethylbenzene	7.6	6,400	29,000	4.62	0.0147	0.0852	0.00123 J	0.000718 J	0.000933 J	<0.00156	<0.00160	<0.00151	<0.00148
Isopropylbenzene	350	4,300	9,200	1.58	0.00806	0.0480	<0.000905	<0.000938	<0.00123	<0.000900	<0.000922	<0.000869	<0.000852
p-Isopropyltoluene	230	8,200	--	3.40	<0.00253	0.00950	<0.00244	<0.00253	<0.00332	<0.00540	<0.00553	<0.00522	<0.00511
2-Butanone (MEK)	29	40,000	200,000	<1.04	<0.00253	0.0232 J	<0.0131	0.0219 J	0.0334 J	0.256 C5	0.163 J	0.138 J	0.145 C3 J
Naphthalene	31	220	270	16,800	0.0338	0.104	0.0121 J	0.00407 J	0.0287	<0.0103	<0.0106	<0.00998	<0.00978
n-Propylbenzene	45	2,200	6,300	1.08 J	0.0175	0.103	<0.00124	<0.00128	<0.00168	<0.00201	<0.00206	<0.00194	<0.00190
Tetrachloroethene	0.05	710	940	<0.105	<0.000759	0.00780	0.00111 J	<0.000761	<0.000999	<0.00190	<0.00194	<0.00183	<0.00180
Toluene	8.2	5,900	63,000	1.86	0.00791	0.00787	0.0134	0.00826	0.00828	<0.00275	<0.00282	<0.00266	<0.00261
Trichloroethene	0.034	18	31	<0.141	<0.000434	<0.000436	<0.000419	<0.000435	<0.000571	<0.00124	<0.00127	<0.00119	<0.00117
Trichlorofluoromethane	130	25,000	--	<0.0875	<0.000542	<0.000545	<0.000524	<0.000543	<0.000713	<0.00175	<0.00179	<0.00169	<0.00166
1,2,4-Trimethylbenzene	33	1,600	4,000	37.0	0.00362 J	0.0102	0.00163 J	<0.00126	0.00422 J	<0.00335	<0.00343	<0.00323	<0.00317
1,2,3-Trimethylbenzene	21	1,600	3,600	--	0.0175	0.0821	0.00150 J	<0.00125	0.00308 J	<0.00335	<0.00343	<0.00323	<0.00317
1,3,5-Trimethylbenzene	36	1,500	3,500	16.9	0.00144 J	<0.00118	<0.00113	<0.00117	0.00287 J	0.00424	<0.00434	<0.00409	<0.00401
m,p-Xylenes	110	8,900	9,400	--	--	--	--	--	--	--	--	--	--
o- Xylenes	71	48,000	68,000	--	--	--	--	--	--	--	--	--	--
Xylenes, Total	120	6,000	9,400	20.1	0.0102	0.0417	<0.00501	<0.00519	0.0106	<0.00186	<0.00191	<0.00180	<0.00176

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential Soil _{ing} PCL ²	Residential Soil _{comb} PCL ³	Residential Soil _{inh-v} PCL ⁴	TSB-2		TSB-3			TSB-4				TSB-5								
				3/23/2022	3/23/2022	3/14/2022	3/16/2022		3/14/2022	3/16/2022		3/23/2022									
Date Collected	TGE Resources, Inc																				
Sampled By	TGE Resources, Inc																				
Sample Depth (feet)	16-17		32-33		2.5-3.5		14-15		33.5-34.5		1-2		23-24		34-35		34-35 (DUP)		1-2		
Volatile Organic Compounds ⁵ (mg/kg)																					
Acetone	43	66,000	600,000	<0.0695	<0.0725	<0.0756	<0.0609	<0.0937	<0.0817	<0.0749	<0.0776	<0.0693	<0.0612								
Benzene	0.026	120	160	<0.000889	<0.000928	<0.000967	<0.000779	<0.00120	<0.00104	<0.000958	<0.000992	<0.000886	<0.000783								
n-Butylbenzene	150	3,300	--	<0.00999	<0.0104	<0.0109	<0.00876	<0.0135	<0.0117	<0.0108	<0.0112 C2	<0.00997 C3	<0.00880								
sec-Butylbenzene	85	3,300	--	<0.00548	<0.00572	<0.00596	<0.00481	<0.00739	<0.00644	<0.00591	<0.00612	<0.00547	<0.00483								
tert-Butylbenzene	100	3,300	--	<0.00371	<0.00388	<0.00404	<0.00325	<0.00500	<0.00436	<0.00400	<0.00414	<0.00370	<0.00327								
Chlorobenzene	1.1	520	770	<0.0004	<0.000417	<0.000435	<0.00035	<0.000539	<0.00047	<0.000431	<0.000446	<0.000399	<0.000352								
Chloroform	1	16	16	<0.00196	<0.00205	<0.00213	<0.00172	<0.00264	<0.0023	<0.00211	<0.00219	<0.00196	<0.00173								
1,2-Dichlorobenzene	18	720	800	<0.000809	<0.000845	<0.00088	<0.000709	<0.00109	<0.000951	<0.000872	<0.000903	<0.000807	<0.000712								
1,3-Dichlorobenzene	6.7	120	120	<0.00114	<0.00119	<0.00124	<0.00100	<0.00154	<0.00134	<0.00123	<0.00127	<0.00114	<0.00101								
1,4-Dichlorobenzene	2.1	250	12,000	<0.00133	<0.00139	<0.00145	<0.00117	<0.0018	<0.00157	<0.00144	<0.00149	<0.00133	<0.00117								
1,1-Dichloroethane	18	11,000	37,000	<0.000935	<0.000976	<0.00102	<0.000819	<0.00126	<0.0011	<0.00101	<0.00104	<0.000932	<0.000823								
cis-1,2-Dichloroethene	0.25	140	920	<0.00140	<0.00146	<0.00152	<0.00122	<0.00188	<0.00164	<0.00151	<0.00156	<0.00139	<0.00123								
Ethylbenzene	7.6	6,400	29,000	<0.00140	<0.00146	<0.00153	<0.00123	<0.00189	<0.00165	<0.00151	<0.00157	<0.00140	<0.00124								
Isopropylbenzene	350	4,300	9,200	<0.000809	<0.000845	<0.000880	<0.000709	<0.00109	<0.000951	<0.000872	<0.000903	<0.000807	<0.000712								
p-Isopropyltoluene	230	8,200	--	<0.00485	<0.00507	<0.00528	<0.00425	<0.00654	<0.00570	<0.00523	<0.00542	<0.00484	<0.00427								
2-Butanone (MEK)	29	40,000	200,000	<0.121 J4	<0.126 J4	0.277 C5	0.263 C5	0.207 J	0.372 C5	0.287 C5	0.172 J	0.159 J	<0.106 J4								
Naphthalene	31	220	270	<0.00929	<0.0097	<0.0101	<0.00814	<0.0125	<0.0109	<0.0100	<0.0104	<0.00926	0.210								
n-Propylbenzene	45	2,200	6,300	<0.00181	<0.00189	<0.00197	<0.00159	<0.00244 C3	<0.00213	<0.00195	<0.00202	<0.00180 C3	<0.00159								
Tetrachloroethene	0.05	710	940	<0.00171	<0.00178	<0.00185	<0.00150	<0.00230	<0.00200	<0.00184	<0.00190	<0.00170	<0.00150								
Toluene	8.2	5,900	63,000	<0.00247	<0.00258	<0.00269	<0.00217	<0.00334	<0.00291	<0.00267	<0.00276	<0.00247	<0.00218								
Trichloroethene	0.034	18	31	<0.00111	<0.00116	<0.00121	<0.000974	<0.00150	<0.00131	<0.00120	<0.00124	<0.00111	<0.000979								
Trichlorofluoromethane	130	25,000	--	<0.00157	<0.00164	<0.00171	<0.00138	<0.00212	<0.00185	<0.0017	<0.00176	<0.00157	<0.00139								
1,2,4-Trimethylbenzene	33	1,600	4,000	<0.00301	<0.00314	<0.00327	<0.00264	<0.004050	<0.00353	<0.00324	<0.00336	<0.00300 C3	<0.00265								
1,2,3-Trimethylbenzene	21	1,600	3,600	<0.00301	<0.00314	<0.00327	<0.00264	<0.004050	<0.00353	<0.00324	<0.00336	<0.00300	<0.00265								
1,3,5-Trimethylbenzene	36	1,500	3,500	<0.00381	<0.00398	<0.00414	<0.00334	<0.00513	<0.00447	<0.0041	<0.00425	<0.00380	<0.00335								
m,p-Xylenes	110	8,900	9,400	--	--	--	--	--	--	--	--	--	--								
o-Xylenes	71	48,000	68,000	--	--	--	--	--	--	--	--	--	--								
Xylenes, Total	120	6,000	9,400	<0.00168	<0.00175	<0.00182	<0.00147	<0.00226	<0.00197	<0.00181	<0.00187	<0.00167	0.00226 J								

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{comb} PCL ³	Residential Air Soil _{inh-v} PCL ⁴	TSB-5		TSB-6		TSB-7			TSB-8		TSB-9
				3/23/2022		3/24/2022		3/17/2022	3/22/2022		3/24/2022		3/17/2022
Date Collected	TGE Resources, Inc												
Sampled By													
Sample Depth (feet)	6-7		30-31	4-5	29-30	1-2	30-31	32.5-33	2-3	29-29.5	0.5-1		
Volatile Organic Compounds ⁵ (mg/kg)													
Acetone	43	66,000	600,000	<0.0876	<0.0728	<0.0778	<0.0642	<0.0826	<0.0763	<0.136	<0.0712	<0.0686	<0.0751
Benzene	0.026	120	160	<0.00112	<0.000931	<0.000996	<0.000821	<0.00106	<0.000976	<0.00174	<0.000911	<0.000877	<0.000962
n-Butylbenzene	150	3,300	--	<0.0126	<0.0105	<0.0112	<0.00923	<0.0119	<0.0110	<0.0195	<0.0102	<0.00986	<0.0108
sec-Butylbenzene	85	3,300	--	<0.00691	<0.00574	<0.00614	<0.00506	<0.00652	<0.00602	<0.0107	<0.00562	<0.00541	<0.00593
tert-Butylbenzene	100	3,300	--	<0.00468	<0.00389	<0.00416	<0.00343	<0.00441	<0.00407	<0.00725	<0.0038	<0.00366	<0.00401
Chlorobenzene	1.1	520	770	<0.000504	<0.000419	<0.000448	<0.000369	<0.000475	<0.000439	<0.000781	<0.000409	<0.000395	<0.000432
Chloroform	1	16	16	<0.00247	<0.00205	<0.00220	<0.00181	<0.00233	<0.00215	<0.00383	<0.00201	<0.00194	<0.00212
1,2-Dichlorobenzene	18	720	800	<0.00102	<0.000848	<0.000906	<0.000747	<0.000962	<0.000888	<0.00158	<0.000829	<0.000799	<0.000875
1,3-Dichlorobenzene	6.7	120	120	<0.00144	<0.00120	<0.00128	<0.00106	<0.00136	<0.00125	<0.00223	<0.00117	<0.00113	<0.00124
1,4-Dichlorobenzene	2.1	250	12,000	<0.00168	<0.00140	<0.00149	<0.00123	<0.00158	<0.00146	<0.00260	<0.00136	<0.00132	<0.00144
1,1-Dichloroethane	18	11,000	37,000	<0.00118	<0.000979	<0.00105	<0.000863	<0.00111	<0.00103	<0.00183	<0.000957	<0.000923	<0.00101
cis-1,2-Dichloroethene	0.25	140	920	<0.00176	<0.00146	<0.00157	<0.00129	<0.00166	<0.00153	<0.00273	<0.00143	<0.00138	<0.00151
Ethylbenzene	7.6	6,400	29,000	<0.00177	<0.00147	<0.00157	<0.00130	<0.00167	<0.00154	<0.00274	<0.00144	<0.00138	<0.00152
Isopropylbenzene	350	4,300	9,200	<0.00102	<0.000848	<0.000906	<0.000747	<0.000962	<0.000888	<0.00158	<0.000829	<0.000799	<0.000875
p-Isopropyltoluene	230	8,200	--	<0.00612	<0.00509	<0.00544	<0.00448	<0.00577	<0.00533	<0.00948	<0.00497	<0.00479	<0.00525
2-Butanone (MEK)	29	40,000	200,000	<0.152 J4	<0.127 J4	<0.135 J4	<0.112 J4	0.286 C5	<0.133 J4	<0.236 J4	<0.124 J4	<0.119 J4	0.298 C5
Naphthalene	31	220	270	<0.0117	<0.00973	<0.0104	<0.00858	<0.0110	<0.0102	<0.0181	<0.00952	<0.00917	<0.0100
n-Propylbenzene	45	2,200	6,300	<0.00228	<0.00189	<0.00203	<0.00167	<0.00215	<0.00198	<0.00353	<0.00185	<0.00179	<0.00196
Tetrachloroethene	0.05	710	940	<0.00215	0.00179	<0.00191	<0.00158	<0.00203	<0.00187	<0.00333	<0.00175	<0.00168	<0.00184
Toluene	8.2	5,900	63,000	<0.00312	<0.00259	<0.00277	<0.00229	<0.00294	<0.00272	<0.00483	<0.00253	<0.00244	<0.00268
Trichloroethene	0.034	18	31	<0.00140	<0.00116	<0.00125	<0.00103	<0.00132	<0.00122	<0.00217	<0.00114	<0.00110	<0.00120
Trichlorofluoromethane	130	25,000	--	<0.00199	<0.00165	<0.00176	<0.00145	<0.00187	<0.00173	<0.00307	<0.00161	<0.00155	<0.00170
1,2,4-Trimethylbenzene	33	1,600	4,000	<0.00379	<0.00315	<0.00337	<0.00278	<0.00358	<0.00330	<0.00587	<0.00308	<0.00297	0.00325
1,2,3-Trimethylbenzene	21	1,600	3,600	<0.00379	<0.00315	<0.00337	<0.00278	<0.0136	<0.00330	<0.00587	<0.00308	<0.00297	<0.00325
1,3,5-Trimethylbenzene	36	1,500	3,500	<0.00480	<0.00399	<0.00426	<0.00352	<0.00453	<0.00418	<0.00743	<0.00390	<0.00376	<0.00412
m,p-Xylenes	110	8,900	9,400	--	--	--	--	--	--	--	--	--	--
o-Xylenes	71	48,000	68,000	--	--	--	--	--	--	--	--	--	--
Xylenes, Total	120	6,000	9,400	<0.00211	<0.00176	<0.00188	<0.00155	<0.00199	<0.00184	<0.00327	<0.00172	<0.00165	<0.00181

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs**

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot _{Soil} Comb PCL ³	Residential Air _{Soil} inh-v PCL ⁴	TSB-9		TSB-10		TSB-10		TSB-11		
				3/18/2022		3/17/2022		3/18/2022		3/14/2022	3/15/2022	
Date Collected	Sampled By	Sample Depth (feet)	TGE Resources, Inc									
Sampled By			29-29.5	30.5-31	1-2	1-2 (DUP)	27-27.5	29.5-30	2.5-3.5	33-34	34-35	
Volatile Organic Compounds ⁵ (mg/kg)												
Acetone	43	66,000	600,000	<0.0966 C3	<0.0644 C3	<0.0843	<0.0816	<0.0866	<0.0724 C3	<0.0655	<0.0594	<0.0692
Benzene	0.026	120	160	<0.00124	<0.000824	<0.00108	<0.00104	<0.00113	<0.000926	<0.000838	<0.00076	<0.00885
n-Butylbenzene	150	3,300	--	0.0874	0.01660 J	<0.0121	<0.0117 C3	<0.0128	<0.0104	<0.00854	<0.00995	<0.00995
sec-Butylbenzene	85	3,300	--	0.867	0.125	<0.00665	<0.00644	<0.00699	<0.00571	<0.00517	0.126	<0.00546
tert-Butylbenzene	100	3,300	--	0.0852	0.0131	<0.00450	<0.00436	<0.00474	<0.00387	<0.00350	0.0103	<0.00370
Chlorobenzene	1.1	520	770	<0.000556	<0.00037	<0.000485	<0.000469	<0.00051	<0.000417	<0.000377	<0.000342	<0.000398
Chloroform	1	16	16	<0.00273	<0.00182	<0.00238	<0.00230	<0.00250	<0.00204	<0.00185	<0.00168	<0.00195
1,2-Dichlorobenzene	18	720	800	<0.00112	<0.00075	<0.000982	<0.000950	<0.00103	<0.000843	<0.000762	<0.000692	<0.000806
1,3-Dichlorobenzene	6.7	120	120	<0.00159	<0.00106	<0.00139	<0.00134	<0.00146	<0.00119	<0.00108	<0.000976	<0.00114
1,4-Dichlorobenzene	2.1	250	12,000	<0.00185	<0.00123	<0.00162	<0.00156	<0.00170	<0.00139	<0.00126	<0.00114	<0.00133
1,1-Dichloroethane	18	11,000	37,000	<0.00130	<0.000866	<0.00113	<0.00110	<0.00119	<0.000974	<0.000881	<0.000799	<0.000931
cis-1,2-Dichloroethene	0.25	140	920	<0.00194	<0.00129	<0.00170	<0.00164	<0.00178	<0.00146	<0.00132	<0.00119	<0.00115
Ethylbenzene	7.6	6,400	29,000	<0.00195	<0.00130	<0.00170	<0.00165	<0.00179	<0.00146	<0.00132	<0.00112	<0.00140
Isopropylbenzene	350	4,300	9,200	0.0280	0.00490	<0.000982	<0.000950	<0.00103	<0.000843	<0.000762	0.0106	<0.000806
p-Isopropyltoluene	230	8,200	--	<0.00675	<0.00450	<0.00589	<0.00570	<0.00619	<0.00506	<0.00457	<0.00415	<0.00483
2-Butanone (MEK)	29	40,000	200,000	<0.168 C3	0.440 C3	0.263 C5	0.307 C5	<0.154 C3	<0.126 C3	0.257 C5	<0.103	0.164 J
Naphthalene	31	220	270	<0.0129	<0.00861	<0.0112	<0.0109	<0.0119	<0.00968	<0.00875	<0.00794	<0.00925
n-Propylbenzene	45	2,200	6,300	0.0312	<0.00168	<0.00219	<0.00212	<0.00231	<0.00188	<0.00170	0.0103	<0.00180
Tetrachloroethene	0.05	710	940	<0.00237	<0.00158	<0.00207	<0.00200	<0.00218	<0.00178	<0.00161	<0.00146	<0.00170
Toluene	8.2	5,900	63,000	<0.00344	<0.00229	<0.00300	<0.00291	<0.00316	<0.00258	<0.00233	0.00228 J	<0.00246
Trichloroethene	0.034	18	31	<0.00155	<0.00103	<0.00135	<0.00131	<0.00142	<0.00116	<0.00105	<0.000950	<0.00111
Trichlorofluoromethane	130	25,000	--	<0.00219	<0.00146	<0.00191	<0.00185	<0.00201	<0.00164	<0.00148	<0.00135	<0.00157
1,2,4-Trimethylbenzene	33	1,600	4,000	0.0900 J	<0.00279	<0.00365	<0.00353	<0.00384	<0.00313	<0.00283	<0.00257	<0.00299
1,2,3-Trimethylbenzene	21	1,600	3,600	<0.00418	<0.00279	<0.00365	<0.00353	<0.00384	<0.00313	<0.00283	<0.00257	<0.00299
1,3,5-Trimethylbenzene	36	1,500	3,500	<0.00529	<0.00353	<0.00462	<0.00447	<0.00486	<0.00397	<0.00359	<0.00325	<0.00379
m,p-Xylenes	110	8,900	9,400	--	--	--	--	--	--	--	--	--
o-Xylenes	71	48,000	68,000	--	--	--	--	--	--	--	--	--
Xylenes, Total	120	6,000	9,400	<0.00233	<0.00155	<0.00203	<0.00197	<0.00214	<0.00175	<0.00158	<0.00143	<0.00167

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Notes:

¹Samples collected by AEC (1995-2002) and analyzed by Mercury Environmental Services, Inc in Deer Park, Texas and Envirodyne Laboratories, Inc in Houston, Texas. Samples collected by Arcadis (2007) and analyzed by Xenco Laboratories in Houston, Texas. Samples collected by Braun Intertec (August 2019 and June 2022) and analyzed by Pace Analytical in Mt. Juliet, Tennessee and Eurofins in Houston, Texas and collected by TGE (March 2022) and analyzed by Pace Analytical in Mt. Juliet, Tennessee.

²Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 residential soil-to-groundwater ingestion (^{GW}Soil_{ing}) protective concentration level (PCL) for a 0.5-acre source area.

³TCEQ TRRP Tier 1 residential total soil combined (^{Tot}Soil_{comb}) PCL for a 0.5-acre source area.

⁴Volatile organic compounds (VOCs) analyzed by U.S. Environmental Protection Agency (EPA) Method 8260.

Italicized sample results indicate sample duplicate data.

Bold regulatory value indicates the applicable residential assessment level (RAL); defined as the lower of the Tier 1 residential ^{GW}Soil_{ing} PCL and ^{Tot}Soil_{comb} PCL for a 0.5-acre source area..

Bold and highlighted sample data indicates the associated analyte was detected at a concentration exceeding the MSD adjusted RAL.

Additional VOCs were analyzed but not listed due to analyte concentrations not detected above sample detection limits.

-- The sample was only analyzed for m,p-xylenes and o-xylenes or for total, xylenes

(NA) The sample was not analyzed for the VOC.

(J) The identification of the analyte is acceptable; the reported value is an estimate.

(J3) The associated batch QC was outside the established quatilty control range for accuracy.

(C3) The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

(C5) The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

(B) The analyte was found the in associated blank.

All results are in milligrams per kilogram (mg/kg).

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{Ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-V} PCL ⁴	SB-6	SB-7	SB-8	SB-9	SB-10	TMW-01			TMW-02	
Sampled By				AEC					Arcadis				
Date Collected				7/19/2002					11/8/2007				
Sample Depth (feet)				5-6	4-6	5-6	14	7-8	0-5	8-10	32-34	0-5	16-18
Semi-Volatile Organic Compounds⁵ (mg/kg)													
Acenaphthene	240	3,000	--	<2.5	<2.5	<2.5	<2.5	138.5	0.092 J	<0.001	<0.001	<0.001	<0.001
Acenaphthylene	410	3,800	--	<2.5	<2.5	<2.5	<2.5	<2.5	0.111 J	<0.002	<0.002	<0.002	<0.002
Anthracene	6,900	18,000	--	<2.5	<2.5	<2.5	<2.5	35.0	33	<0.001	<0.001	0.009 J	<0.001
Benz(a)anthracene	130	41	5,500	<2.5	<2.5	<2.5	<2.5	30.0	0.730	<0.004	<0.004	0.034 J	<0.004
Benzo(b)fluoranthene	440	42	9,000	<2.5	<2.5	<2.5	<2.5	<2.5	0.986	<0.001	<0.001	<0.001	<0.001
Benzo(k)fluroanthene	4,500	420	220,000	<2.5	<2.5	<2.5	<2.5	<2.5	0.325 J	<0.001	<0.001	0.06	<0.001
Benzo(g,h,i)perylene	1,800	46,000	--	<2.5	<2.5	<2.5	<2.5	<2.5	0.363 J	<0.001	<0.001	0.027 J	<0.001
Benzo(a)pyrene	7.6	4.1	64.0	<2.5	<2.5	<2.5	<2.5	<2.5	0.608	0.002 J	<0.001	0.03 J	<0.001
Chrysene	11,000	4,100	870,000	<2.5	<2.5	<2.5	<2.5	56.0	2.35	<0.001	<0.001	0.032 J	<0.001
Dibenz(a,h)anthracene	15	4	2,900	<2.5	<2.5	<2.5	<2.5	<2.5	0.118 J	<0.003	<0.003	<0.003	<0.003
Fluoranthene	1,900	2,300	--	<2.5	<2.5	<2.5	<2.5	83.0	1.35	<0.001	<0.001	0.06	<0.001
Fluorene	300	2,300	--	<2.5	<2.5	<2.5	<2.5	300	2.78	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	<2.5	<2.5	<2.5	<2.5	<2.5	0.455	<0.001	<0.001	0.026 J	<0.001
Naphthalene	31	220	270	<2.5	<2.5	<2.5	<2.5	205	1.21	<0.002	<0.002	<0.002	<0.002
2-Methylnaphthalene	17	250	--	<2.5	<2.5	<2.5	<2.5	191.5	0.993	<0.001	<0.001	<0.001	<0.001
Phenanthrene	420	1,700	--	<2.5	<2.5	<2.5	<2.5	66.5	4.37	<0.001	<0.001	0.03 J	<0.001
Pyrene	1,100	1,700	--	<2.5	<2.5	<2.5	<2.5	56.5	1.26	<0.001	<0.001	0.054 J	<0.001

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCS

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{Ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-V} PCL ⁴	TMW-02	MW-01		MW-02			MW-03			
Sampled By				Arcadis									
Date Collected				11/8/2007									
Sample Depth (feet)				30-32	0-5	10-12	0-5	10-12	30-32	30-32	0-5	6-8	30-34
	Semi-Volatile Organic Compounds ⁵ (mg/kg)												
Acenaphthene	240	3,000	--	<0.001	0.241 J	<0.001	0.915 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthylene	410	3,800	--	<0.002	1.47	<0.002	<0.097	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Anthracene	6,900	18,000	--	<0.001	2.00	<0.001	1.7 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benz(a)anthracene	130	41	5,500	<0.005	9.99	<0.004	23.1	0.005 J	<0.004	<0.005	0.016 J	<0.004	<0.004
Benzo(b)fluoranthene	440	42	9,000	<0.001	18.4	<0.001	43.7	0.004 J	<0.001	<0.001	0.013 J	<0.001	<0.001
Benzo(k)fluroanthene	4,500	420	220,000	<0.001	6.33	<0.001	26.8	0.002 J	<0.001	<0.001	0.015 J	<0.001	<0.001
Benzo(g,h,i)perylene	1,800	46,000	--	<0.001	9.06	<0.001	33.9	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(a)pyrene	7.6	4.1	64.0	<0.001	12.7	0.003 J	42.5	0.003 J	<0.001	<0.001	0.018 J	0.004 J	<0.001
Chrysene	11,000	4,100	870,000	<0.001	12.2	<0.001	27.6	<0.001	<0.001	<0.001	0.018 J	<0.001	<0.001
Dibenz(a,h)anthracene	15	4	2,900	<0.003	2.34	<0.003	7.73	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Fluoranthene	1,900	2,300	--	<0.001	17.4	<0.001	24.8	<0.001	<0.001	<0.001	0.012 J	<0.001	<0.001
Fluorene	300	2,300	--	<0.001	0.307	<0.001	0.466	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	<0.001	12.7	<0.001	31.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Naphthalene	31	220	270	<0.003	0.085	<0.002	0.968 J	<0.002	<0.002	<0.003	0.016 J	<0.002	<0.002
2-Methylnaphthalene	17	250	--	<0.001	0.007 J	<0.001	<0.027 J	<0.001	<0.001	<0.001	0.039 J	<0.001	<0.001
Phenanthrene	420	1,700	--	<0.001	6.06	<0.001	6.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Pyrene	1,100	1,700	--	<0.001	17.4	<0.001	21.8	<0.001	<0.001	<0.001	0.032 J	<0.001	<0.001

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCS

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{Ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	MW-04			MW-05			MW-06			SB-01
Sampled By				Arcadis									
Date Collected				11/8/2007									11/9/2007
Sample Depth (feet)				0-5	10-12	30-32	0-5	4-6	32-34	0-5	18-20	28-30	0-5
	Semi-Volatile Organic Compounds⁵ (mg/kg)												
Acenaphthene	240	3,000	--	0.041 J	<0.001	<0.001	<0.007	0.308 J	<0.001	<0.007	<0.001	<0.001	<0.007
Acenaphthylene	410	3,800	--	0.037 J	<0.002	<0.002	0.033 J	0.417	<0.002	<0.021	<0.002	<0.002	0.02 J
Anthracene	6,900	18,000	--	0.133 J	<0.001	<0.001	0.048 J	174	<0.001	<0.007	<0.001	<0.001	0.049 J
Benz(a)anthracene	130	41	5,500	1.54	<0.004	<0.004	0.107 J	2.57	<0.004	0.08 J	<0.004	<0.004	0.207 J
Benzo(b)fluoranthene	440	42	9,000	3.45	<0.001	<0.001	0.114 J	3.02	<0.001	0.057 J	<0.001	<0.001	0.281 J
Benzo(k)fluroanthene	4,500	420	220,000	1.34	<0.001	<0.001	0.044 J	1.2	<0.001	0.034 J	<0.001	<0.001	0.098 J
Benzo(g,h,i)perylene	1,800	46,000	--	2.16	<0.001	<0.001	0.085 j	0.981	<0.001	<0.007	<0.001	<0.001	0.142 J
Benzo(a)pyrene	7.6	4.1	64.0	2.75	<0.001	0.005 J	0.088 J	1.69	<0.001	0.042 J	<0.001	<0.001	0.191 J
Chrysene	11,000	4,100	870,000	1.87	<0.001	<0.001	0.066 J	14.2	<0.001	0.046 J	<0.001	<0.001	0.175 J
Dibenz(a,h)anthracene	15	4	2,900	0.37	<0.003	<0.003	<0.027	0.342 J	<0.003	<0.028	<0.003	<0.003	<0.03
Fluoranthene	1,900	2,300	--	1.95	<0.001	<0.001	0.129 J	5.02	<0.001	0.076 J	<0.001	<0.001	0.346 J
Fluorene	300	2,300	--	0.026 J	<0.001	<0.001	<0.004	23.6	<0.001	<0.005	<0.001	<0.001	<0.005
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	2.24	<0.001	<0.001	0.074 J	1.39	<0.001	<0.008	<0.001	<0.001	0.146 J
Naphthalene	31	220	270	0.033 J	<0.002	<0.003	0.041 J	8.34	<0.002	<0.023	<0.002	<0.002	<0.024
2-Methylnaphthalene	17	250	--	0.003 J	<0.001	<0.001	0.055 J	9.04	<0.001	<0.006	<0.001	<0.001	<0.006
Phenanthrene	420	1,700	--	0.528	<0.001	<0.001	0.081 J	30.1	<0.001	0.038 J	<0.001	<0.001	0.118 J
Pyrene	1,100	1,700	--	1.89	<0.001	<0.001	0.125 J	3.65	<0.001	0.07	<0.001	<0.001	0.338 J

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCS

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{Ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-V} PCL ⁴	SB-01		SB-02				SB-02	SB-03		
Sampled By				Arcadis									
Date Collected				11/9/2007									
Sample Depth (feet)				10-12	30-32	0-5	6-8	12-14	16-18	22-24	26-28	30-32	0-5
Semi-Volatile Organic Compounds⁵ (mg/kg)													
Acenaphthene	240	3,000	--	<0.001	<0.001	<0.003	<0.004	<0.001	<0.001	<0.004	<0.001	<0.003	<0.08
Acenaphthylene	410	3,800	--	<0.002	<0.002	<0.001	<0.011	<0.002	<0.002	<0.011	<0.002	<0.01	<0.0023
Anthracene	6,900	18,000	--	<0.001	<0.001	0.058 J	<0.003	<0.001	<0.001	<0.004	<0.001	<0.003	<0.007
Benz(a)anthracene	130	41	5,500	<0.004	0.019 J	0.114 J	<0.021	<0.004	<0.004	<0.022	<0.004	<0.02	0.118 J
Benzo(b)fluoranthene	440	42	9,000	<0.001	0.029 J	0.105 J	<0.003	<0.001	<0.001	<0.003	<0.001	<0.003	0.088 J
Benzo(k)fluroanthene	4,500	420	220,000	<0.001	0.017 J	0.114 J	<0.004	<0.001	<0.001	<0.005	<0.001	<0.004	0.097 J
Benzo(g,h,i)perylene	1,800	46,000	--	<0.001	<0.001	0.099 J	<0.004	<0.001	<0.001	<0.005	<0.001	<0.003	<0.008
Benzo(a)pyrene	7.6	4.1	64.0	<0.001	0.018 J	0.09 J	<0.002	0.006 J	<0.001	<0.002	<0.001	<0.002	0.046 J
Chrysene	11,000	4,100	870,000	<0.001	0.026 J	0.108 J	<0.015	<0.001	<0.001	<0.005	<0.001	<0.005	0.118 J
Dibenz(a,h)anthracene	15	4	2,900	<0.003	<0.003	<0.013	<0.003	<0.003	<0.003	<0.015	<0.003	<0.014	<0.031
Fluoranthene	1,900	2,300	--	<0.001	0.05	0.23	<0.003	<0.001	<0.001	<0.003	<0.001	<0.003	0.101 J
Fluorene	300	2,300	--	<0.001	<0.001	<0.002	<0.002	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	<0.001	<0.001	0.088 J	<0.004	<0.001	<0.001	<0.005	<0.001	<0.004	<0.009
Naphthalene	31	220	270	<0.002	<0.002	<0.011	<0.012	<0.002	<0.002	<0.012	<0.002	<0.012	<0.025
2-Methylnaphthalene	17	250	--	<0.001	<0.001	<0.003	<0.003	<0.001	<0.001	<0.003	<0.001	<0.003	<0.006
Phenanthrene	420	1,700	--	<0.001	0.032 J	0.132 J	<0.003	<0.001	<0.001	<0.004	<0.001	<0.003	0.042 J
Pyrene	1,100	1,700	--	<0.001	0.056 J	0.175 J	<0.003	<0.001	<0.001	<0.003	<0.001	<0.003	0.101 J

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{Ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	SB-03		SB-04			MW-5R	MW-06	MW-07		
Sampled By				Arcadis						Braun Intertec			
Date Collected				11/9/2007						8/21/2019	8/19/2019		
Sample Depth (feet)				22-24	30-32	0-5	18-20	22-24	26-28	30-32	14 - 15	0 - 2	0 - 2
Semi-Volatile Organic Compounds⁵ (mg/kg)													
Acenaphthene	240	3,000	--	<0.001	<0.014	1.99	<0.001	<0.001	<0.001	<0.002 J	<0.0777	<0.00719	<0.0336
Acenaphthylene	410	3,800	--	<0.002	<0.043	0.162	<0.002	<0.002	<0.002	<0.002	<0.0812	<0.00751	<0.0352
Anthracene	6,900	18,000	--	<0.001	<0.014	1.54	<0.001	<0.003	<0.002	0.004 J	0.171 J	0.0110 J	0.0488 J
Benz(a)anthracene	130	41	5,500	<0.004	<0.083	0.493	<0.004	0.019 J	0.006 J	0.005 J	0.0819 J	0.0305 J	0.0881 J
Benzo(b)fluoranthene	440	42	9,000	<0.001	<0.012	0.481	<0.001	0.034 J	0.007 J	0.002 J	0.126 J	0.0487	0.194
Benzo(k)fluroanthene	4,500	420	220,000	<0.001	<0.017	0.198 J	<0.001	0.015 J	0.003 J	<0.001	<0.0704	0.0165 J	0.0550 J
Benzo(g,h,i)perylene	1,800	46,000	--	<0.001	<0.014	0.226 J	<0.001	0.02 J	0.004 J	<0.001	<0.0873	0.0275 J	0.0888 J
Benzo(a)pyrene	7.6	4.1	64.0	<0.001	<0.009	0.315 J	<0.001	0.02 J	0.003 J	<0.001	0.0839 J	0.0340 J	0.106 J
Chrysene	11,000	4,100	870,000	<0.001	<0.02	0.501	<0.001	0.021 J	0.003 J	<0.001	0.173 J	0.0375	0.149 J
Dibenz(a,h)anthracene	15	4	2,900	<0.003	<0.058	0.049 J	<0.003	0.005 J	<0.003	<0.003	<0.0994	<0.00919	<0.0430
Fluoranthene	1,900	2,300	--	<0.001	<0.012	4.53	<0.001	0.049	0.005 J	0.008 J	0.144 J	0.0550	0.183
Fluorene	300	2,300	--	<0.001	<0.009	1.87	<0.001	<0.001	<0.001	0.002 J	<0.0825	<0.00764	<0.0357
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	<0.001	<0.017	0.243 J	<0.001	0.021 J	<0.001	<0.001	0.114 J	0.0292 J	0.0898 J
Naphthalene	31	220	270	<0.002	<0.047	0.837	<0.002	<0.002	<0.002	<0.002	<0.108	<0.00995	<0.0466
2-Methylnaphthalene	17	250	--	<0.001	<0.012	0.299 J	<0.001	<0.001	<0.001	<0.001	<0.104	<0.00964	0.0630 J
Phenanthrene	420	1,700	--	<0.001	<0.013	8.50	<0.001	0.016 J	0.006 J	0.012 J	0.139 J	0.0235 J	0.154 J
Pyrene	1,100	1,700	--	<0.001	<0.012	2.81	<0.001	0.04 J	0.004 J	0.006 J	0.200 J	0.0511	0.167 J

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	MW-8	MW-9	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16	SB-17	SB-18
Sampled By				Braun Intertec									
Date Collected				8/20/2019		8/19/2019		8/20/2019		8/21/2019			
Sample Depth (feet)				5 - 6	25 - 26	0 - 2		9 - 10	0 - 2	19 - 20	5 - 6	0 - 2	0 - 2
Semi-Volatile Organic Compounds ⁵ (mg/kg)													
Acenaphthene	240	3,000	--	<0.0705	0.176 J	<0.0350	<0.0337	0.509 J	<0.0342	13.0	0.133 J	0.00964 J	0.309
Acenaphthylene	410	3,800	--	0.123 J	0.161 J	<0.0366	<0.0352	1.21 J	<0.0357	<0.207	<0.0753	0.0124	0.0160 J
Anthracene	6,900	18,000	--	0.238 J	6.23	<0.0344	0.0440 J	197	<0.0337	4.39	0.361 J	0.0446	0.363
Benz(a)anthracene	130	41	5,500	0.255 J	1.27	0.0385 J	0.474	6.1	0.162 J	1.16	0.220 J	0.173	0.965
Benzo(b)fluoranthene	440	42	9,000	0.407	1.19	0.0561 J	0.904	10.1	0.227	0.540 J	0.229 J	0.233	1.15
Benzo(k)fluroanthene	4,500	420	220,000	0.125 J	0.364 J	<0.0317	0.282	3.76	0.0805 J	0.294 J	0.0870 J	0.0802	0.374
Benzo(g,h,i)perylene	1,800	46,000	--	0.419	0.574	<0.0393	0.495	4.16	0.110 J	<0.222	0.138 J	0.121	0.393
Benzo(a)pyrene	7.6	4.1	64.0	0.232 J	0.829	0.0365 J	0.692	2.9	0.144 J	0.412 J	0.172 J	0.163	0.749
Chrysene	11,000	4,100	870,000	0.383	1.51	0.0567 J	0.498	37.1	0.186	1.85	0.145 J	0.188	1.02
Dibenz(a,h)anthracene	15	4	2,900	<0.0901	0.154 J	<0.0447	0.120 J	1.04 J	<0.0437	<0.253	<0.0890	0.0279 J	0.115
Fluoranthene	1,900	2,300	--	0.389	3.79	0.0760 J	0.521	9.28	0.213	8.05	0.545	0.278	2.95
Fluorene	300	2,300	--	<0.0749	0.452	<0.0372	<0.0358	6.95	<0.0363	2.25	0.0862 J	0.00859 J	0.272
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	0.286 J	0.521	<0.0421	0.531	3.91	0.124 J	<0.238	0.154 J	0.129	0.498
Naphthalene	31	220	270	0.285 J	0.214 J	<0.0485	<0.0466	2.58	<0.0474	<0.274	<0.0964	0.00977 J	0.164
2-Methylnaphthalene	17	250	--	0.224 J	0.175 J	0.122 J	<0.0452	2.08	<0.0459	<0.265	<0.0933	0.00917 J	0.0948
Phenanthrene	420	1,700	--	0.262 J	0.752	0.0892 J	0.153 J	10.2	0.0423 J	1.65	0.478	0.139	3.05
Pyrene	1,100	1,700	--	0.392	4.29	0.0686 J	0.508	9.06	0.243	7.19	0.685	0.295	2.33

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	SB-19	MW-1A		TMW-01A		MW-5A	TSB-1		TSB-2	
Sampled By				Braun Intertec						TGE Resources, Inc			
Date Collected				8/21/2019	6/21/2022				3/16/2022	3/17/2022		3/18/2022	
Sample Depth (feet)				9 - 10	2.5	5	2.5	5	4-6	3-4	27-27.5	34-35	2-3
Semi-Volatile Organic Compounds⁵ (mg/kg)													
Acenaphthene	240	3,000	--	<0.00916	0.403 J	<0.0176	<0.157	<0.172	<0.159	<0.000678	<0.00606	<0.00695	<0.00661
Acenaphthylene	410	3,800	--	<0.00957	2.13	<0.0168	<0.149	<0.164	<0.152	<0.0059	<0.00527	<0.00605	<0.00575
Anthracene	6,900	18,000	--	0.0238 J	3.05	<0.0157	<0.140	<0.153	<0.142	<0.00745	<0.00667	<0.00765	<0.00727
Benz(a)anthracene	130	41	5,500	0.0347 J	13.3	<0.0160	<0.142	<0.156	0.163 J	<0.00738	<0.0066	<0.00757	0.0098 J
Benzo(b)fluoranthene	440	42	9,000	0.0664	24.1	<0.0143	<0.127	<0.140	0.188 J	<0.00781	<0.00698	<0.00801	<0.00762
Benzo(k)fluroanthene	4,500	420	220,000	0.0188 J	9.22	<0.0220	<0.196	<0.215	<0.199	<0.00744	<0.00666	<0.00764	<0.00726
Benzo(g,h,i)perylene	1,800	46,000	--	0.0243 J	16.8	<0.0174	<0.155	<0.170	<0.158	<0.00766	<0.00685	<0.00786	<0.00747
Benzo(a)pyrene	7.6	4.1	64.0	0.0330 J	18.6	<0.0195	<0.174	<0.191	<0.177	<0.00778	<0.00696	<0.00799	<0.00759
Chrysene	11,000	4,100	870,000	0.0823	16.1	<0.0188	<0.167	<0.183	<0.170	<0.00832	<0.00744	<0.00854	0.00886 J
Dibenz(a,h)anthracene	15	4	2,900	<0.0117	4.98	<0.0144	<0.128	<0.141	<0.130	<0.0116	<0.00744	<0.0119	<0.0113
Fluoranthene	1,900	2,300	--	0.118	20.3	<0.0167	<0.148	<0.163	0.278 J	0.00971 J	<0.0104	<0.00775	0.01660 J
Fluorene	300	2,300	--	<0.00973	0.477 J	<0.0157	<0.140	<0.154	<0.142	<0.00681	<0.00676	<0.00699	<0.00665
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	0.0248 J	13.3	<0.0153	<0.136	<0.149	0.151 J	<0.0118	<0.0106	<0.0121	<0.0115
Naphthalene	31	220	270	<0.0127	<0.159	0.0305 J	<0.158	<0.173	<0.161	<0.0105	<0.0094	<0.0108	<0.0103
2-Methylnaphthalene	17	250	--	0.0766	<0.460	0.0574 J	<0.457	<0.502	<0.464	NA	NA	NA	NA
Phenanthrene	420	1,700	--	0.218	8.63	<0.0188	<0.168	<0.184	0.174 J	<0.00831	<0.00743	<0.00853	0.02120 J
Pyrene	1,100	1,700	--	0.110	23.1	<0.0190	<0.148	<0.162	0.242 J	<0.00815	<0.00728	<0.00836	0.01560 J

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	TSB-2		TSB-3		TSB-4			TSB-5		
Sampled By				TGE Resources, Inc									
Date Collected				3/23/2022	3/23/2022	3/14/2022	3/16/2022		3/14/2022	3/16/2022		3/23/2022	
Sample Depth (feet)				16-17	32-33	2.5-3.5	14-15	33.5-34.5	1-2	23-24	34-35	34-35 (DUP)	1-2
Semi-Volatile Organic Compounds⁵ (mg/kg)													
Acenaphthene	240	3,000	--	<0.00629	<0.00639	<0.00662	<0.00625	<0.0072	<0.00658	<0.00658	<0.00679	<0.00618	0.0673
Acenaphthylene	410	3,800	--	<0.00547	<0.00556	<0.00544	<0.00544	<0.00626	<0.00573	<0.00572	<0.00591	<0.00537	0.472
Anthracene	6,900	18,000	--	<0.00692	<0.00703	<0.00728	<0.00688	<0.00792	<0.00724	<0.00724	<0.00747	<0.00679	0.235
Benz(a)anthracene	130	41	5,500	<0.00685	<0.00696	<0.00721	<0.00681	<0.00784	<0.00717	<0.00717	<0.00739	<0.00673	1.71
Benzo(b)fluoranthene	440	42	9,000	<0.00724	<0.00736	<0.00763	<0.00721	<0.00829	<0.00759	<0.00758	<0.00782	<0.00711	2.65
Benzo(k)fluroanthene	4,500	420	220,000	<0.0069	<0.00702	<0.00727	<0.00687	<0.00791	<0.00723	<0.00723	<0.00746	<0.00678	1.04
Benzo(g,h,i)perylene	1,800	46,000	--	<0.0071	<0.00722	<0.00748	<0.00707	<0.00813	<0.00744	<0.00743	<0.00767	<0.00698	1.36
Benzo(a)pyrene	7.6	4.1	64.0	<0.00722	<0.00734	<0.0076	<0.00718	<0.00827	<0.00756	<0.00756	<0.0078	<0.00709	1.57
Chrysene	11,000	4,100	870,000	<0.00772	<0.00785	<0.00813	<0.00768	<0.00884	<0.00809	<0.00808	<0.00834	<0.00758	2.27
Dibenz(a,h)anthracene	15	4	2,900	<0.0108	<0.0109	<0.0113	<0.0107	<0.0123	<0.0113	<0.0113	<0.0116	<0.0106	0.365
Fluoranthene	1,900	2,300	--	<0.00701	<0.00713	<0.00738	<0.00697	<0.00803	<0.00734	<0.00734	<0.00757	<0.00689	2.05
Fluorene	300	2,300	--	<0.00632	<0.00643	<0.00666	<0.00629	<0.00724	<0.00662	<0.00662	<0.00683	<0.00621	0.02470 J
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	<0.011	<0.0112	<0.0116	<0.0109	<0.0126	<0.0115	<0.0115	<0.0119	<0.0108	1.47
Naphthalene	31	220	270	<0.00975	<0.00991	<0.0103	<0.0097	<0.0112	<0.0102	<0.0102	<0.0105	<0.00958	0.03140 J
2-Methylnaphthalene	17	250	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	420	1,700	--	<0.00771	<0.00784	<0.00812	<0.00767	<0.00883	<0.00807	<0.00807	<0.00833	<0.00757	0.141
Pyrene	1,100	1,700	--	<0.00756	<0.00768	<0.00796	<0.00752	<0.00865	<0.00792	<0.00791	<0.00816	<0.00742	2.55

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	TSB-5		TSB-6		TSB-7			TSB-8		TSB-9
Sampled By				TGE Resources, LLC									
Date Collected				3/23/2022		3/24/2022		3/17/2022	3/22/2022		3/24/2022		3/17/2022
Sample Depth (feet)				6-7	30-31	4-5	29-30	1-2	30-31	32.5-33	2-3	29-29.5	0.5-1
Semi-Volatile Organic Compounds ⁵ (mg/kg)													
Acenaphthene	240	3,000	--	<0.00694	<0.0063	<0.00654	<0.00619	<0.00706	<0.00669	<0.00693	<0.00663	<0.00623	<0.00665
Acenaphthylene	410	3,800	--	<0.00604	<0.00549	<0.00569	<0.00539	<0.00615	<0.00582	<0.00603	<0.00577	<0.00542	0.01250 J
Anthracene	6,900	18,000	--	<0.00764	<0.00694	<0.0072	<0.00681	<0.00777	<0.00736	<0.00762	0.00899 J	<0.00686	0.02070 J
Benz(a)anthracene	130	41	5,500	<0.00756	<0.00687	0.01060 J	<0.00675	<0.00769	<0.00728	<0.00754	0.03930 J	<0.00679	0.149
Benzo(b)fluoranthene	440	42	9,000	<0.008	<0.00726	0.01430 J	<0.00714	<0.00814	<0.0077	<0.00798	0.0482	<0.00718	0.2
Benzo(k)fluroanthene	4,500	420	220,000	<0.00762	<0.00692	<0.00719	<0.0068	<0.00776	<0.00734	<0.00761	0.01700 J	<0.00684	0.0608
Benzo(g,h,i)perylene	1,800	46,000	--	<0.00784	<0.00712	0.01020 J	<0.007	<0.00798	<0.00755	<0.00783	0.03500 J	<0.00704	0.0954
Benzo(a)pyrene	7.6	4.1	64.0	<0.00797	<0.00724	0.00931 J	<0.00711	<0.00811	<0.00768	<0.00796	0.03800 J	<0.00716	0.134
Chrysene	11,000	4,100	870,000	<0.00853	<0.00774	0.00996 J	<0.00761	<0.00868	<0.00821	<0.00851	0.03600 J	<0.00765	0.17
Dibenz(a,h)anthracene	15	4	2,900	<0.0119	<0.0108	<0.0112	<0.0106	<0.0121	<0.0114	<0.0119	<0.0113	<0.0107	0.0252 J
Fluoranthene	1,900	2,300	--	<0.00774	<0.00703	0.0159 J	<0.00691	0.00839 J	<0.00746	<0.00772	0.0729	<0.00695	0.278
Fluorene	300	2,300	--	<0.00698	<0.00634	<0.00658	<0.00623	<0.0071	<0.00672	<0.00697	<0.00666	<0.00627	<0.00669
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	<0.0121	<0.011	<0.0114	<0.0108	<0.0123	<0.0117	<0.0121	0.0283 J	<0.0109	0.107
Naphthalene	31	220	270	<0.0108	<0.00978	<0.0102	<0.00961	<0.011	<0.0104	<0.0107	<0.0103	<0.00967	<0.0103
2-Methylnaphthalene	17	250	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	420	1,700	--	<0.00851	<0.00773	0.01260 J	<0.0076	<0.00866	<0.0085	<0.0085	0.0418	<0.00764	0.11
Pyrene	1,100	1,700	--	<0.00835	<0.00758	0.01530 J	<0.00745	<0.00849	<0.00833	<0.00833	0.0626	<0.00759	0.236

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Residential GW Soil _{ing} PCL ²	Residential Tot Soil _{Comb} PCL ³	Residential Air Soil _{Inh-v} PCL ⁴	TSB-9		TSB-10		TSB-10		TSB-11		
Sampled By				TGE Resources, Inc								
Date Collected				3/18/2022		3/17/2022		3/18/2022		3/14/2022	3/15/2022	
Sample Depth (feet)				29-29.5	30.5-31	1-2	1-2 (DUP)	27-27.5	29.5-30	2.5-3.5	33-34	34-35
Semi-Volatile Organic Compounds⁵ (mg/kg)												
Acenaphthene	240	3,000	--	<0.00644	<0.00634	0.01160 J	<0.00706	<0.00614	<0.00633	<0.00635	<0.00618	<0.00612
Acenaphthylene	410	3,800	--	<0.00561	<0.00552	0.01150 J	0.01530 J	<0.00534	<0.00551	<0.00553	<0.00538	<0.00533
Anthracene	6,900	18,000	--	<0.00709	<0.00697	0.02730 J	0.01850 J	<0.00675	<0.00696	<0.00699	<0.0068	<0.00673
Benz(a)anthracene	130	41	5,500	<0.00702	<0.0069	0.136	0.185	<0.00669	<0.00669	<0.00692	<0.00674	<0.00667
Benzo(b)fluoranthene	440	42	9,000	<0.00742	<0.0073	0.167	0.161	<0.00707	<0.00729	<0.00732	<0.00713	<0.00705
Benzo(k)fluroanthene	4,500	420	220,000	<0.00706	<0.00696	0.0592	0.241	<0.00674	<0.00695	<0.00698	<0.00679	<0.00672
Benzo(g,h,i)perylene	1,800	46,000	--	<0.00728	<0.00716	0.0791	0.116	<0.00694	<0.00715	<0.00718	<0.00699	<0.00692
Benzo(a)pyrene	7.6	4.1	64.0	<0.0074	<0.00728	0.118	0.846	<0.00705	<0.00727	<0.0073	<0.0071	<0.00703
Chrysene	11,000	4,100	870,000	<0.00791	<0.00779	0.153	0.214	<0.00754	<0.00777	<0.0078	<0.0076	<0.00752
Dibenz(a,h)anthracene	15	4	2,900	<0.011	<0.0109	0.203 J	0.0276 J	<0.0105	<0.0108	<0.0109	<0.0106	<0.0105
Fluoranthene	1,900	2,300	--	<0.00718	<0.00707	0.302	0.348	<0.00685	<0.00685	<0.00708	<0.0069	<0.00682
Fluorene	300	2,300	--	<0.00648	<0.00637	0.01190 J	<0.0071	<0.00617	<0.00617	<0.00639	<0.00622	<0.00615
Indeno(1,2,3-cd)pyrene	1,300	42	37,000	<0.0112	<0.0111	0.881	0.131	<0.0107	<0.0107	<0.0111	<0.0108	<0.0107
Naphthalene	31	220	270	<0.00999	<0.00983	<0.0104	<0.0011	<0.00952	<0.00952	<0.00982	<0.00959	<0.00949
2-Methylnaphthalene	17	250	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	420	1,700	--	<0.0079	<0.00777	0.212	0.119	<0.00753	<0.00753	<0.00776	<0.00758	<0.00751
Pyrene	1,100	1,700	--	<0.00775	<0.00762	0.263	0.309	<0.00738	<0.00738	<0.00761	<0.00744	<0.00736

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS -SVOCs

4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Notes:

¹Samples collected by AEC (1995-2002) and analyzed by Mercury Environmental Services, Inc in Deer Park, Texas and Envirodyne Laboratories, Inc in Houston, Texas. Samples collected by Arcadis (2007) and analyzed by Xenco Laboratories in Houston, Texas. Samples collected by Braun Intertec (August 2019 and June 2022) and analyzed by Pace Analytical in Mt. Juliet, Tennessee and Eurofins in Houston, Texas and collected by TGE (March 2022) and analyzed by Pace Analytical in Mt. Juliet, Tennessee.

²Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 residential soil-to-groundwater ingestion (^{GW}Soil_{Ing}) protective concentration level (PCL) for a 0.5-acre source area.

³TCEQ TRRP Tier 1 residential total soil combined (^{Tot}Soil_{Comb}) PCL for a 0.5-acre source area.

⁴TCEQ TRRP Tier 1 residential air-soil-inhalation (^{Air}Soil_{Inh-v}) PCL for a 0.5-acre source area.

⁴Semi-volatile organic compounds (SVOCs) analyzed by U.S. Environmental Protection Agency (EPA) Method 8270.

Bold regulatory value indicates the applicable residential assessment level (RAL), defined as the lower of the Tier 1 residential ^{GW}Soil_{Ing} PCL and ^{Tot}Soil_{Comb} PCL for a 0.5-acre source area.

Bold and highlighted sample data indicates the associated analyte was detected at a concentration exceeding the MSD adjusted RAL.

Additional SVOCs were analyzed but not listed due to analyte concentrations not detected above sample detection limits.

(J) The identification of the analyte is acceptable; the reported value is an estimate.

All results are in milligrams per kilogram (mg/kg).

**TABLE 5
SUMMARY OF SOIL DELINEATION ANALYTICAL DATA**

**4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Parent Soil Boring ID	Sample ID ¹	Depth (feet)	Date Collected	Metals ² (mg/kg)		Total Petroleum Hydrocarbons ³ (mg/kg)			
				Arsenic	Lead	C ₆ -C ₁₂	C ₁₂ -C ₂₈	C ₂₈ -C ₃₅	C ₆ -C ₃₅
SB-8	SB-8A-E1	8 - 10	2/9/2021	1.62 J	--	--	--	--	--
	SB-8A-N1			20.70	--	--	--	--	--
	SB-8A-W1			4.28	--	--	--	--	--
	SB-8A-S1			3.50	--	--	--	--	--
	SB-8A	11		4.99	--	--	--	--	--
SB-9	SB-9-S1	14 - 15	2/10/2021	--	5,530 O1 V	--	--	--	--
	SB-9-S2			--	1,350	--	--	--	--
	SB-9-S3		6/21/2022	--	266	--	--	--	--
	SB-9-E1		2/10/2021	--	1,490	--	--	--	--
	SB-9-E2			--	437	--	--	--	--
	SB-9-N1			--	3,980	--	--	--	--
	SB-9-N2			--	664	--	--	--	--
	SB-9-N3		6/22/2022	--	31.7	--	--	--	--
	SB-9-W1		2/10/2021	--	4,160	--	--	--	--
	SB-9-W2			--	690	--	--	--	--
	SB-9-W3		6/22/2022	--	615	--	--	--	--
	SB-9-W4			--	233	--	--	--	--
SB-10 / SB-15	SB-15A-N1	7 - 8	2/10/2021	3.50	49.9	--	--	--	--
	SB-15A-W1			21.4	198	--	--	--	--
	SB-15A-E1			33.8	201	--	--	--	--
	SB-15A-E2			2.53	--	--	--	--	--
	SB-15A-S1		169	7,550	--	--	--	--	
	SB-15A-S2	6/21/2022	<0.405	290	--	--	--	--	
	SB-15A	9		935	1,900	--	--	--	--
	SB-15A	10	2/9/2021	1,190	1,500	--	--	--	--
SB-15A	12 - 15		203	2,800	--	--	--	--	
SB-11	SB-11-E1	0 - 2	6/21/2022	2.24	--	--	--	--	--
	SB-11-S1			16.0	--	--	--	--	--
	SB-11-W1			2.56	--	--	--	--	--
SB-12	SB-12-N1	0 - 2	6/21/2022	0.766 J	--	--	--	--	--
	SB-12-S1			2.93	--	--	--	--	--
	SB-12-W1			1.44	--	--	--	--	--
	SB-12-E1			1.58	--	--	--	--	--
	SB-12A	4 - 5		11.7	--	--	--	--	
SB-15	SB-15A-N1	19 - 20	2/9/2021	--	--	<17.2	<17.2	<17.2	<17.2
	SB-15A-W1			--	--	<36.1	2,320	1,050	3,370
	SB-15A-E1		2/10/2021	--	--	<18.0	298	59.5 J	358
	SB-15A-S1		--	--	1,880	51,300	12,700	65,900	
	SB-15A-S2	10	6/22/2022	--	--	2,700	46,000	2,350	51,100
	SB-15A	19 - 20		--	--	<43.4	952	310	1,260
SB-15A	22.5	2/10/2022	--	--	<17.7	142	33.4 J	175	
SB-22	SB-22A	4 - 5	6/22/2022	14.0	389	--	--	--	--
	SB-22-W1	0 - 2		6.46	376	--	--	--	--
	SB-22-S1			17.4	502	--	--	--	--
	SB-22-N1			<0.452	81.0	--	--	--	--
	SB-22-E1			14.6	150	--	--	--	--
SB-28	SB-28-N1	0 - 2	6/21/2022	1.15	--	--	--	--	--
	SB-28-S1			1.13	--	--	--	--	--
	SB-28-E1			0.450 J	--	--	--	--	--
	SB-28A	5 - 6		1.99	--	--	--	--	--
SB-29	SB-29-N1	0 - 2	6/21/2022	38.9	--	--	--	--	--
	SB-29-S1			<0.392	--	--	--	--	--
	SB-29-E1			23.5	--	--	--	--	--
	SB-29-W1			<0.400	--	--	--	--	--

**TABLE 5
SUMMARY OF SOIL DELINEATION ANALYTICAL DATA**

**4.2367-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Parent Soil Boring ID	Sample ID ¹	Depth (feet)	Date Collected	Metals ² (mg/kg)		Total Petroleum Hydrocarbons ³ (mg/kg)			
				Arsenic	Lead	C ₆ -C ₁₂	C ₁₂ -C ₂₈	C ₂₈ -C ₃₅	C ₆ -C ₃₅
MW-5 / MW-5R	MW-5R-W1	14 - 15	2/10/2021	--	3,150	4,270	69,600	15,200	89,100
	MW-5R-W2			--	440	1,830	23,900	5,220	31,000
	MW-5R-E1			--	10.0	<18.1	444	69.8	513
	MW-5R-N1			--	1,170	131 J	8,120	4,610	12,900
	MW-5R-N2		6/21/2022	--	2,180	--	--	--	--
	MW-5R-N3			--	568	--	--	--	--
	MW-5R-N4			--	1.38 J	--	--	--	--
	MW-5R-S1			--	--	2,970	45,600	3,800	52,400
MW-7	MW-7-S1	0 - 2	6/21/2022	--	125	--	--	--	--
	MW-7-N1			--	260	--	--	--	--
	MW-7-W1			--	56.9	--	--	--	--
	MW-7-E1			--	187	--	--	--	--
MW-8	MW-8A-E1	5 - 6	2/9/2021	10.6	301	--	--	--	--
	MW-8A-N1			18.3	486	--	--	--	--
	MW-8A-W1			8.30	281	--	--	--	--
	MW-8A-S1			7.63	164	--	--	--	--
	MW-8A	7	3.43	70.9					
Residential ^{GW} Soil _{Ing} PCL ⁴				5.0	3.0	Not Applicable			
Residential ^{Tot} Soil _{Comb} PCL ⁵				24	500	Not Applicable			13,900
Texas-Specific Soil Background ⁶				5.9	15	Not Applicable			
Residential ^{Air} Soil _{Inh-V} PCL ⁵				NE	NE	Not Applicable			59,200

Notes:

¹Samples collected by Braun Intertec and analyzed by Pace Analytical in Mount Juliet, Tennessee and Eurofins in Houston, Texas.

²Arsenic and lead analyzed by U.S. Environmental Protection Agency (EPA) Method 6010.

³Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 residential soil-to-groundwater ingestion (^{GW}Soil_{Ing}) protective concentration level (PCL) for a 0.5-acre source area.

⁴TCEQ TRRP Tier 1 residential total-soil-combined (^{Tot}Soil_{Comb}) PCL for a 0.5-acre source area.

⁵TCEQ TRRP Texas-Specific Soil Background Concentrations (TSBC).

⁶TCEQ TRRP Tier 1 commercial/industrial ^{GW}Soil_{Ing} PCL for a 0.5-acre source area.

⁷TCEQ TRRP Tier 1 commercial/industrial ^{Tot}Soil_{Comb} PCL for a 0.5-acre source area.

(O1) The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

(V) The sample concentration is too high to evaluate accurate spike recoveries.

Bold regulatory value indicates the residential assessment level (RAL). The RAL is the lower of the ^{GW}Soil_{Ing} PCL and ^{Tot}Soil_{Comb} PCL and greater of that PCL and the TSBC.

Bold sample data indicates the associated analyte was detected at a concentration exceeding the RAL.

Bold and highlighted sample data indicates the associated analyte was detected at a concentration exceeding the TRRP Tier 1 residential ^{Tot}Soil_{Comb} PCL.

All results reported in milligrams per kilogram (mg/kg).

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - METALS

*4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas*

Sample ID ¹	Date Collected	RCRA Metals ² (mg/L)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
AEC Monitoring Wells									
MW-5	7/19/2002	<0.005	0.323	<0.004	0.028	0.036	<0.005	<0.005	<0.006
METRO Monitoring Wells									
MW-1*	11/12/2007	0.004	0.095	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
MW-2*		0.003	0.182	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
MW-3*		0.022	3.53	<0.001	0.123	0.094	0.0001 JB	<0.001	<0.001
MW-5*		0.003	0.039	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
MW-6*		0.005	0.06	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
TMW-1	11/9/2007	0.002	0.066	<0.001	<0.001	<0.001	0.0001 JB	<0.001	<0.001
TMW-2		0.005	0.083	<0.001	0.003	<0.001	<0.0001	<0.001	<0.001
		<i>0.002</i>	<i>0.057</i>	<i><0.001</i>	<i>0.003</i>	<i><0.001</i>	<i><0.0001</i>	<i><0.001</i>	<i><0.001</i>
MW-4	11/12/2007	0.005	0.076	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001
	8/23/2019	<0.00650	0.0165	<0.000700	<0.00140	<0.00190	<0.0000490	<0.00740	<0.00280
	12/20/2019	0.000685 B J	Not Analyzed						
	6/22/2022	<0.00550	Not Analyzed						
	2/16/2023	<0.00440	Not Analyzed						

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - METALS**

*4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas*

Sample ID ¹	Date Collected	RCRA Metals ² (mg/L)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
MW-4	6/14/2023	Not Analyzed- Well not Accessable							
TGE Monitoring Wells									
TSB-1	3/22/2022	<0.0044	0.0612	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-2	3/25/2022	<0.0044	0.104	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-3	3/17/2022	0.0045 J	0.0397	0.00302	0.0031 J	<0.00299	<0.0001	<0.00735	<0.00154
TSB-4	3/17/2022	<0.0044	0.056	<0.000479	<0.0014	<0.00299	<0.0001	0.00858 J	<0.00154
		<0.0044	0.0532	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-5	3/25/2022	<0.0044	0.0955	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-6		<0.0044	0.0525	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-7		<0.0044	0.0763	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-8		<0.0044	0.0579	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-9		<0.0044	0.159	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-10	3/22/2016	<0.0044	0.0723	<0.000479	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154
TSB-11	3/16/2022	<0.0044	0.0779	0.000592 J	<0.0014	<0.00299	<0.0001	<0.00735	<0.00154

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - METALS**

*4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas*

Sample ID ¹	Date Collected	RCRA Metals ² (mg/L)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Braun Intertec Monitoring Wells									
MW-5R	8/23/2019	0.00726 J	0.103	<0.000700	0.00198 J	<0.00190	<0.0000490	<0.00740	<0.00280
MW-5R	12/20/2019	0.0240	Not Analyzed						
		0.0245	Not Analyzed						
	6/22/2022	0.0256	Not Analyzed						
	2/16/2023	<0.00440	Not Analyzed						
		<0.00440	Not Analyzed						
	6/14/2023	<0.00440	Not Analyzed						
<0.00440		Not Analyzed							
MW-6	8/23/2019	<0.00650	0.0363	<0.000700	<0.00140	<0.00190	<0.0000490	<0.00740	<0.00280
	12/20/2019	0.000827 B J	Not Analyzed						
	6/22/2022	0.00565 J	Not Analyzed						
	2/16/2023	<0.00440	Not Analyzed						
	6/14/2023	<0.00440	Not Analyzed						
MW-7	8/23/2019	<0.00650	0.0940	<0.000700	<0.00140	<0.00190	<0.0000490	<0.00740	<0.00280

**TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - METALS**

*4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas*

Sample ID ¹	Date Collected	RCRA Metals ² (mg/L)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
MW-7	12/20/2019	0.00113 B J	Not Analyzed						
	6/22/2022	0.0129	Not Analyzed						
	2/16/2023	<0.00440	Not Analyzed						
	6/14/2023	0.00680 J							
MW-8	8/23/2019	0.00774 J	0.0720	<0.000700	0.00265 J	<0.00190	<0.0000490	<0.00740	<0.00280
	12/20/2019	0.00208	Not Analyzed						
	6/22/2022	0.00791 J	Not Analyzed						
	2/16/2023	0.00879 J	Not Analyzed						
	6/14/2023	Not Analyzed- Well not Accessable							
MW-9	8/23/2019	0.0355	0.0396	<0.000700	<0.00140	0.00404 J	<0.0000490	<0.00740	<0.00280
	12/20/2019	0.0923	Not Analyzed						
	6/22/2022	0.0527	Not Analyzed						
	2/16/2023	0.0335	Not Analyzed						
	6/14/2023	0.0115	Not Analyzed						
MW-10	12/20/2019	0.246	Not Analyzed						

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - METALS

4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas

Sample ID ¹	Date Collected	RCRA Metals ² (mg/L)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
MW-10	6/22/2022	0.204	Not Analyzed						
	2/16/2023	0.449	Not Analyzed						
	6/14/2023	0.804	Not Analyzed						
TMW-01	5/5/2020	0.226	Not Analyzed						
TMW-02		<0.00440	Not Analyzed						
Residential^{GW}GW_{Ing} PCL³		0.01	2.0	0.005	0.1	0.015	0.002	0.05	0.37
Residential^{Air}GW_{Inh-V}⁴		---	---	---	---	---	10	---	---

Notes:

¹Samples collected in 2007 by Malcolm Pirnie and analyzed by Xenco Laboratories in Houston, Texas. Samples collected in 2019-2023 by Braun Intertec and analyzed by Pace Analytical in Mount Juliet, Tennessee or Eurofins in Houston, Texas.

²Resource Conservation Recovery Act (RCRA) 8 metals analyzed by U.S. Environmental Protection Agency (EPA) Method 6010 or 7470A (mercury).

³Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 residential groundwater ingestion (^{GW}GW_{Ing}) protective concentration level (PCL) for a 0.5-acre source area, Class 1 or Class 2 groundwater.

⁴TCEQ TRRP Tier 1 residential air groundwater inhalation (^{Air}GW_{Inh-V}) PCL for a 0.5-acre source area, Class 1 or Class 2 groundwater.

Bold sample data indicates the associated analyte exceeds the residential ^{GW}GW_{Ing} PCL.

Italicized analytical results indicate sample duplicate data.

(*) Monitoring well MW-5 was plugged and abandoned on 8/22/2019. Monitoring wells MW-1 and MW-6 installed in 2007 were destroyed and could not be located.

(J) The identification of the analyte is acceptable; the reported value is an estimate.

(B) The same analyte is found in the associated blank.

All values reported in milligrams per liter (mg/L).

**TABLE 7
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS**

**4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas**

Well ID	Date	Screened Interval BTOC (feet)	TOC Elevation (feet)	Depth to Water (feet)	Corrected Elevation (feet)	Depth to LNAPL (feet)
MW-4	8/23/2019	20 - 39	47.55	25.22	22.33	--
	12/20/2019			22.30	25.25	--
	6/22/2022			27.68	19.87	--
	2/16/2023			16.05	31.50	
	6/14/2023			Not Measured - Well Inaccessible		
MW-5R	8/23/2019	12.5 - 40	48.73	29.44	19.29	--
	12/20/2019			26.24	22.49	--
	6/22/2022			30.54	18.19	--
	2/16/2023			20.53	28.20	--
	6/14/2023			19.38	29.35	--
MW-6	8/23/2019	15 - 35	42.29	21.75	20.54	--
	12/20/2019			19.85	22.44	--
	6/22/2022			22.43	19.86	--
	2/16/2023			16.39	25.90	--
	6/14/2023			16.48	25.81	--
MW-7	8/23/2019	20 - 40	46.82	25.18	21.64	--
	12/20/2019			20.47	26.35	--
	6/22/2022			26.57	20.25	--
	2/16/2023			14.20	32.62	--
	6/14/2023			12.18	34.64	--
MW-8	8/23/2019	25 - 45	48.94	28.55	20.39	--
	12/20/2019			25.69	23.25	--
	6/22/2022			30.17	18.77	--
	2/16/2023			21.37	27.57	--
	6/14/2023			Not Measured - Well Inaccessible		

**TABLE 7
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS**

*4.2376-Acre South Street Parcel
1685 and 1695 South Street
Houston, Texas*

Well ID	Date	Screened Interval BTOC (feet)	TOC Elevation (feet)	Depth to Water (feet)	Corrected Elevation (feet)	Depth to LNAPL (feet)
MW-9	8/23/2019	20 - 40	47.90	29.44	18.46	--
	12/20/2019			22.25	25.65	--
	6/22/2022			23.72	24.18	--
	2/16/2023			21.51	26.39	--
	6/14/2023			20.91	26.99	--
MW-10	12/20/2019	5-15	25.92	7.56	18.36	--
	6/22/2022			12.65	13.27	--
	2/16/2023			4.74	21.18	--
	6/14/2023			5.16	20.76	--

Notes:

(MW) Monitoring well.

(TOC) Top-of-casing.

(LNAPL) Light non-aqueous phase liquid.

(--) Not detected.

Appendix F

MUNICIPAL SETTING DESIGNATION APPLICATION

1685 & 1695 SOUTH STREET
HOUSTON, TEXAS

STATEMENT ON GROUNDWATER PLUME EXTENDING OFF-SITE

The following off-Site properties/owners (as listed in HCAD records) are potentially within the footprint of the groundwater plume:

Union Pacific Railroad Company

HCAD ID: 0400150000004

Location: West-adjacent to Site

Status: This property is owned by Southern Pacific Railroad Company and Union Pacific Railroad Company; the owner mailing address is 1400 Douglas Street Stop 1640 Omaha, Nebraska 68179. The MSD Applicant has not contacted this property owner.

Appendix G

MUNICIPAL SETTING DESIGNATION APPLICATION

1685 & 1695 SOUTH STREET
HOUSTON, TEXAS

STATEMENT REGARDING PLUME STABILITY

Based on the investigations completed to date, concentrations of arsenic in groundwater appear to be stable. This statement is based on the evaluation of collected groundwater analytical data, that began in 2019 by Braun Intertec, and the absence of an active source at the Site. Evidence of delineation is provided by direct collection and analysis of groundwater samples.

The arsenic plume is delineated in all directions to the ingestion PCL. Historic concentrations of arsenic have been detected above the ingestion PCL in monitoring wells MW-03, MW-5R, MW-7, MW-9, MW-10, and TMW-01. Arsenic concentrations exceeding the ingestion PCLs in these monitoring wells have ranged from 0.0129 mg/L in MW-7 to 0.804 mg/L in MW-10. Only the samples collected from monitoring wells MW-9 and MW-10 had arsenic concentrations above the ingestion PCL during the most recent sampling event in June 2023. Mann-Kendall trend analysis for the mean arsenic concentration collected from monitoring wells MW-9 and MW-10 indicates concentrations of arsenic across the Site are stable. A copy of the Mann-Kendall trend analysis is provided in **Appendix G**.

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.17/11/2023 9:25:39 AM								
4	From File			WorkSheet_a.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	MW-9											
10												
11	General Statistics											
12	Number or Reported Events Not Used			0								
13	Number of Generated Events			5								
14	Number Values Reported (n)			6								
15	Number Values Missing			1								
16	Number Values Used			5								
17	Minimum			0.0115								
18	Maximum			0.0923								
19	Mean			0.0451								
20	Geometric Mean			0.0367								
21	Median			0.0355								
22	Standard Deviation			0.0302								
23	Coefficient of Variation			0.669								
24												
25	Mann-Kendall Test											
26	M-K Test Value (S)			-6								
27	Tabulated p-value			0.117								
28	Standard Deviation of S			4.082								
29	Standardized Value of S			-1.225								
30	Approximate p-value			0.11								
31												
32	Insufficient evidence to identify a significant											
33	trend at the specified level of significance.											

	A	B	C	D	E	F	G	H	I	J	K	L
1				Mann-Kendall Trend Test Analysis								
2	User Selected Options											
3	Date/Time of Computation			ProUCL 5.17/11/2023 9:27:21 AM								
4	From File			WorkSheet_a.xls								
5	Full Precision			OFF								
6	Confidence Coefficient			0.95								
7	Level of Significance			0.05								
8												
9	MW-10 Arsenic											
10												
11	General Statistics											
12	Number or Reported Events Not Used			0								
13	Number of Generated Events			4								
14	Number Values Reported (n)			4								
15	Minimum			0.204								
16	Maximum			0.804								
17	Mean			0.426								
18	Geometric Mean			0.367								
19	Median			0.348								
20	Standard Deviation			0.274								
21	Coefficient of Variation			0.643								
22												
23	Mann-Kendall Test											
24	M-K Test Value (S)			4								
25	Tabulated p-value			0.167								
26	Standard Deviation of S			2.944								
27	Standardized Value of S			1.019								
28	Approximate p-value			0.154								
29												
30	Insufficient evidence to identify a significant											
31	trend at the specified level of significance.											

Appendix H

MUNICIPAL SETTING DESIGNATION APPLICATION

1685 & 1695 SOUTH STREET
HOUSTON, TEXAS

STATEMENT REGARDING EXCEEDANCE OF RESIDENTIAL ASSESSMENT LEVEL WITHOUT MSD

Concentrations of previously identified COCs in soil on the Designated Property will exceed a residential assessment level as defined in the Texas Risk Reduction Program without an MSD.

Concentrations of previously identified COCs in groundwater on the Designated Property and off-site will exceed a residential assessment level as defined in the Texas Risk Reduction Program without an MSD.