



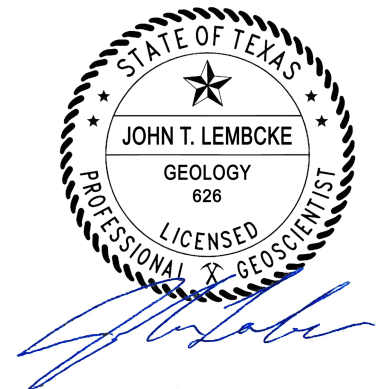
Phase II Environmental Site Assessment
Yellow Cab – Tract II
1400 and 1500 Block of Hays Street
Houston, Harris County, Texas

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ABBREVIATIONS

ASTM	American Society for Testing and Materials
bgs	below ground surface
COC	Chemical of Concern
DPT	Direct-Push Technology
ESA	Environmental Site Assessment
ESE	ESE Partners, LLC
GWBU	Groundwater Bearing Unit
mg/kg	Milligrams per Kilogram. A measure of soil COC concentration. Could also be expressed as parts per million (ppm)
mg/L	Milligrams per Liter. A measure of groundwater COC concentration. Could also be expressed as parts per million (ppm)
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
PPL Metals	Priority Pollutant Metals
PVC	Polyvinyl Chloride – a type of plastic
PCL	Protective Concentration Level
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SVOC	Semi-Volatile Organic Compound
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TMW	Temporary Monitor Well
TPH	Total Petroleum Hydrocarbon
TRRP	Texas Risk Reduction Program
TSBC	Texas-Specific Soil Background Concentration
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

Environmental Science and Engineering Partners, LLC (ESE Partners, ESE) has conducted a Phase II Environmental Site Assessment (Phase II ESA) on behalf of Houston Land Bank (the Client), for the property located at 3201 Hardy Street in Houston, Harris County, Texas. The property is currently operated by Yellow Cab and includes three (3) separate tracts of land. This report summarizes the findings of the Phase II ESA activities conducted on the center tract which is referenced as Yellow Cab - Tract II (the Site). This Phase II ESA was completed in response to the findings of ESE's Phase I ESA (ESE Document No. REP-20-0506-001 Rev 1), dated August 25, 2020, which identified recognized environmental conditions (RECs) in connection with the Site.

RECs identified in the Phase I ESA further contain references to current and past operations not only associated with Yellow Cab Tract II, but also Yellow Cab Tracts I and III which are located to the north and south of Tract II. The purpose of this Phase II ESA was to collect representative soil, soil gas, and groundwater samples on Tract II to confirm or deny the presence of certain chemicals of concern (COCs), including RCRA 8 metals, volatile organic compounds (VOCs), and total petroleum hydrocarbons (TPH) associated with RECs identified within the Phase I ESA. Subsurface investigations completed on Yellow Cab Tracts I and III are presented under separate cover. This Phase II ESA was performed in general accordance with the ASTM E1903-19 guidance document titled *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

Findings

Assessment activities were conducted on September 25th, 28th and October 1st, 2020 and included the installation of ten (10) temporary monitor wells (T-2 TMW-01 through T-2 TMW-10) to a depth of approximately 25 feet below ground surface (bgs), two (2) soil borings (T-2 SB-01 and T-2 SB-02) to a depth of approximately 25 feet bgs and six (6) soil vapor borings (T-2 SGS-01 to T-2 SGS-06) to a depth of approximately 5 feet bgs. Representative soil and groundwater samples were collected at each temporary monitor well location. Soil gas samples were collected from soil gas borings SGS-01 through SGS-06. Additionally, groundwater samples were collected from two (2) existing monitor wells (MWs) at the Site. Supplemental mobilizations occurred at the Site on November 20th to install three (3) typical 2-inch monitor wells (MW-6, MW-7 and MW-8) and on November 23rd to collect groundwater samples from these monitor wells in an effort to further characterize the Site.

Soil and groundwater COC concentrations were compared to Texas-Specific Soil Background Concentrations (TSBCs), Petroleum Storage Tank (PST) Action Levels (ALs), and/or Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs; residential assessment levels). The U.S. Environmental Protection Agency (EPA) Vapor Intrusion Screening Level (VISL) Calculator (U.S.

EPA, Online Version) was used to evaluate reported soil gas results.

Reported COC concentrations in soil samples did not exceed sample detection limits (SDLs), TSBCs, TCEQ TRRP Tier 1 Residential PCLs, and/or PST ALs with the exception of the following:

- Trichloroethylene (TCE) was detected above TCEQ TRRP Tier 1 PCLs (0.005 mg/L) in the groundwater sample collected from T-2 TMW-07 at a reported concentration of 0.0125 mg/L. Monitor well MW-8 was installed adjacent to T-2 TMW-07 and a groundwater sample was collected to confirm or deny the presence of TCE in the groundwater at this location. The groundwater sample collected from MW-8 had a reported concentration of 0.00743 mg/L which is still above the TCEQ TRRP Tier 1 PCL for TCE.
- Benzene and MTBE, constituents associated with automotive fuels, were detected above the PST ALs (0.12 mg/kg and 2.56 mg/kg) in the soil sample collected from T-2 SB-2 (8'-10') at reported concentrations of 7.94 mg/kg and 4.20 mg/kg respectively. TPH was also detected in T-2 SB-2 (8'-10') but did not exceed PST Screen Levels for same. SB-2 was installed near the former gasoline underground storage tanks (USTs) which had a previously documented release and, as a result, was registered with the TCEQ as a Leaking Petroleum Storage Tank (LPST) facility (LPST ID No. 107917) in 1994. This LPST site further received regulatory closure in July 1994. The benzene, MTBE and TPH detections present in this soil sample are similar in value to the soil samples collected in proximity to the tank hold during the removal of the USTs in 1994. Since the petroleum hydrocarbon contamination associated with the UST removal has previously been address (under LPST ID No. 107917), which has obtained TCEQ regulatory closure, these detections do not appear to be indicative of a new or previously unreported hydrocarbon release.
- TPH was detected above TCEQ PST TPH Screen Levels in the soil samples collected from T-2 TMW-02 (2'-4'), possibly located adjacent to an unregistered "ghost UST" or former tank hold discovered while installing monitor well MW-7, and T-2 TMW-04 (12'-14'), located immediately downgradient of the three existing USTs at the Site. Both samples were further analyzed for Polycyclic Aromatic Hydrocarbons (PAH), as allowed by PST rule. PAH constituents exhibited concentrations below the TCEQ PST ALs.
- TPH was detected above TCEQ PST TPH Screen Levels in the groundwater sample collected from T-2 TMW-04 located immediately downgradient of the three existing USTs. The sample was further analyzed for PAHs, as allowed by PST rule. PAH constituents exhibited concentrations below the TCEQ PST ALs.
- TPH was detected above TCEQ TRRP Tier 1 PCLs in the soil samples collected from T-2 TMW-05 (2'-4') and T-2 TMW-08 (8'-10'). Based upon location, these detections do not appear to be attributable to the USTs. Since it appears that these concentrations of TPH were potentially attributable to separate sources, both of the samples were further fractionated via TCEQ TX-Method 1006 (TPH fractionation analysis), as allowed by rule.

Analytical results from TPH TX-1006 analysis were used in combination with the TCEQ TRRP Tier 1 TPH Mixture Specific PCL Calculator (per TCEQ regulatory guidance) to determine a Tier 1 TPH_{Mix} PCL (TPH mixture specific PCL) for both of the sample locations. Concentrations of TPH in each of the afore-referenced locations was not found to exceed the applicable Tier 1 TPH_{Mix} PCL. The TPH PCL Calculator worksheets used are included in **Appendix C**.

- TPH was detected above the TCEQ PST Screen Levels in the groundwater samples collected from T-2 TMW-01 and T-2 TMW-02. These sampling points are in close proximity to the possible “ghost USTs” or former tank hold that was discovered while installing monitor well MW-7, therefore the TPH detected is assumed to be directly associated with a UST. Since these sample points were located adjacent to each other, the higher of the two TPH results was further analyzed for Polycyclic Aromatic Hydrocarbons (PAH), as allowed by PST rule. PAH constituents exhibited concentrations below the TCEQ PST ALs.
- Arsenic was detected above the TCEQ TRRP Tier 1 PCLs (0.010 mg/L) in the groundwater sample collected from T-2 MW-1 at a reported concentration of 0.0162 mg/L. T-2 MW-1 is located directly downgradient of the former petroleum release associated with the former USTs (registered LPST facility) which has received regulatory closure. Well documented technical literature has demonstrated that the presence of petroleum hydrocarbons in soil causes mobilization of naturally occurring arsenic. The groundwater sample collected from T-2 MW-1 was the only groundwater sample at the Site that exhibited a noticeable petroleum hydrocarbon presence (benzene concentration of 0.00491 mg/L) and an elevated arsenic concentration. Based upon arsenic’s colocation with the historically documented hydrocarbon release, the detection of arsenic does not appear to be indicative of an unreported material release, but rather is associated with naturally occurring arsenic which has been mobilized by the presence of petroleum hydrocarbons which have previously been reported and received regulatory closure from the TCEQ. The document titled *Arsenic at Petroleum Impacted Sites* published by the Battelle Memorial Institute is included in **Appendix D**.
- Arsenic was detected above the default TSBC (5.9 mg/kg) in the soil sample collected from T-2 TMW-01 (2’-4’) at a reported concentration of 8.75 mg/kg. This sample was further analyzed by Synthetic Precipitation Leaching Procedure (SPLP), a method used to determine transportation or leaching potential of COCs to groundwater. The SPLP result did not exceed the TRRP Tier 1 Residential PCL and, as such, can be considered protective of groundwater.
- Lead was detected above the default TSBC (15 mg/kg) in the soil sample collected from T-2 TMW-02 (2’-4’) at a reported concentration of 28.0 mg/kg. This sample was further analyzed by SPLP, a method used to determine transportation or leaching potential of COCs to groundwater. The SPLP result did not exceed the TRRP Tier 1 Residential PCL

and, as such, can be considered protective of groundwater.

Reported soil gas concentrations were compared to applicable Residential Target Sub-Slab and Near-Source Gas Concentrations that were calculated using the U.S. EPA Vapor Intrusion Screening Level (VISL) Calculator (U.S. EPA, Online Version). Reported COC concentrations in the soil gas samples collected did not exceed sample detection limits (SDLs) or U.S. EPA Residential Target Sub-Slab and Near-Source Gas Concentrations except for the following:

- Benzene was detected above the Residential VISL of 120 ug/m³ in the soil gas sample collected from SGS-03 at a reported concentration of 66,100 ug/m³.

Soil and soil gas boring locations are depicted in **Figure 2**. A detailed description of observed lithology and field screening results are recorded on the Soil Boring Logs provided in **Appendix A**. Analytical data are presented in **Table 1A** through **Table 1F**, **Table 2A** through **Table 2F** and **Table 3**.

Conclusions

Based on the results of this investigation, reported COC concentrations in soil and groundwater samples were below SDLs, TSBCs and TCEQ TRRP Tier 1 Residential PCLs, and in soil gas samples were below SDLs or U.S. EPA Residential Target Sub-Slab and Near-Source Gas Concentrations except as follows:

- Trichloroethylene (TCE) was detected in the groundwater sample collected from T-2 TMW-07. ESE returned to the Site and installed a permanent (typical) monitor well (MW-8) adjacent to T-2 TMW-07 in an attempt to confirm or deny the presence of TCE in the groundwater at this location. The groundwater sample collected from MW-8 had a reported concentration of 0.00743 mg/L which is still above the TCEQ TRRP Tier 1 PCL for TCE. ESE believes that enrolling the Site into a State sponsored remedial action program such as the Corrective Action Program or Voluntary Cleanup Program (VCP) would be required to address the reported chlorinated solvent PCL exceedances present in groundwater in accordance with TRRP (30 TAC §350).
- TPH was detected in groundwater samples collected from T-2 TMW-01 and T-2 TMW-02 above their applicable TCEQ PST Screen Levels. Permanent (typical) monitor wells MW-6 and MW-7 were installed adjacent to these two sampling points in an effort to confirm or deny the presence of TPH in the groundwater at these locations. The groundwater samples collected from MW-6 and MW-7 exhibited TPH concentration below the laboratory detection limits.
- Benzene, TPH, and/or MTBE were detected in soil and groundwater at sample locations T-2 SB-2 (8'-10'), T-2 TMW-04 (12'-14'), and T-2 TMW-04. The detections of petroleum hydrocarbons in these locations are either associated with a previously documented hydrocarbon release which has received regulatory closure (LPST ID 107917) or the

detections do not appear to be indicative of newly reportable hydrocarbon release (in locations where UST remain in use at the Site), based upon PAH analysis, which did not exceed PST ALs for same.

- Benzene was detected in the soil gas sample collected from SGS-03 at a reported concentration above the Residential VISL. The benzene in soil gas appears to be associated with the use of USTs at the Site. ESE recommends that the proposed residential structures be constructed/completed with a passive vapor mitigation system (PSVMS) or a similar engineered system due to the detection of benzene in the subsurface above the VISL.
- TPH in soil, unrelated to releases from USTs, was detected above TCEQ TRRP Tier 1 TPH Screening PCLs in the soil samples collected from T-2 TMW-05 (2'-4') and T-2 TMW-08 (8'-10'). TPH soil concentrations in these areas were not found to exceed TPH mixture specific PCLs. Although the TPH concentrations in soil were not found to exceed regulatory screen criteria in the sampled locations, soil management, potentially including removal and disposal at a permitted landfill (development related costs), of TPH impacted soil should, be taken into account in these areas, as well as, past or current UST tank hold locations prior to future residential redevelopment for aesthetic reasons (odor and/or appearance).
- Arsenic was detected above the TCEQ TRRP Tier 1 PCL (0.010 mg/L) in the groundwater sample collected from T-2 MW-1 at a reported concentration of 0.0162 mg/L. T-2 MW-1 is located directly downgradient of the historically documented petroleum release associated with the former USTs, also a documented LSPT facility, which has received regulatory closure. Based upon arsenic's colocation with the historic hydrocarbon release, the detection of arsenic does not appear to be indicative of an unreported material release, but rather is associated with naturally occurring arsenic which has been mobilized by the presence of petroleum hydrocarbons which have previously been reported and received regulatory closure from the TCEQ.
- Arsenic and lead were detected in soil in select sample locations above the default TSBCs, but were further analyzed by SPLP, as allowed by rule, and were demonstrated to be protective of groundwater (applicable PCL).
- During the Phase II, evidence of unregistered USTs (ghost tanks) or a former tank hold was identified during the installation monitor well MW-7. Based upon the sampling, it does not appear that a reportable release has occurred proximate to the location of MW-7. If unregistered or previously unknown USTs are identified during site development, they should be removed in accordance with federal, state, and local regulations. Additionally, the USTs that are in place and currently registered to the Site should be removed in accordance with federal, state, and local regulations when they are no longer needed.

1 INTRODUCTION

Mr. Ivan Zapata with Houston Land Bank requested assistance from ESE with the continued environmental assessment of the Site through the performance of a Phase II ESA. The scope of work for this Phase II ESA was detailed in ESE's proposal (ESE Document No. PROP-20-0506-002 Rev 0, dated August 28, 2020).

1.1 Purpose

The purpose of the Phase II ESA was to confirm or deny the presence of COCs in certain environmental media at the Site associated with the areas of concern identified in ESE's Phase I ESA (ESE Document No. REP-20-0506-001 Rev 1) dated August 25, 2020.

1.2 Limitations of Investigation

This report has been prepared in general accordance with accepted environmental methodologies referred to in ASTM E1903-19 and contains all the limitations inherent in these methodologies. No other warranties, expressed or implied, are made as to the professional services provided under the terms of our contract and included in this report.

1.3 User Reliance

This Phase II Environmental Site Assessment Report was prepared for the sole use of Houston Land Bank and their respective affiliates, investors, and attorneys. No other party should rely on the information contained herein without prior written consent of ESE and Houston Land Bank.

2 BACKGROUND

This Phase II ESA was completed in response to the findings of ESE's Phase I ESA (ESE Document No. REP-20-0506-001 Rev 1), dated August 25, 2020, which identified recognized environmental conditions (RECs) in connection with the Site.

RECs identified in the Phase I ESA further contain references to current and past operations not only associated with Yellow Cab Tract II, but also Yellow Cab Tracts I and III which are located to the north and south of the Site respectively. The purpose of this Phase II ESA was to collect representative soil, soil gas, and groundwater samples on Tract II to confirm or deny the presence of certain chemicals of concern (COCs), including RCRA 8 metals, volatile organic compounds (VOCs), and total petroleum hydrocarbons (TPH) at the Site associated with RECs identified within the Phase I ESA. Subsurface investigations completed on Yellow Cab Tracts I and III are presented under separate cover. the abovementioned areas of concern. This Phase II ESA was performed in general accordance with the ASTM E1903-19 guidance document titled Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

2.1 General Site Setting

The Site is currently operated by Yellow Cab Houston and is comprised of one of three tracts of land known as Tract II. In total, the three tracts total approximately 6.23 acres of land under the address of 3201 Hardy Street in Houston, Harris County, Texas. Tract II consists of approximately 2.87 acres and is addressed as the 1400 and 1500 Blocks of Hays Street. This report is specific to the central tract of the three tracts and is referred to as Yellow Cab – Tract II. The Site location is depicted in *Figure 2*.

2.2 Historical Use of the Site

According to historical information reviewed, Tract II was undeveloped land from 1938 until it was developed for single-family residential and commercial use in approximately 1944. These structures appear to have been razed prior to 1966 and redeveloped prior to 1979 for various automotive and support services in association with taxi operations and maintenance.

3 PHASE II ESA FIELD ACTIVITIES

Based upon areas of concern identified in ESE’s Phase I ESA (ESE Document No. REP-20-0506-001 Rev 1), ESE initiated a Phase II ESA to confirm or deny the presence of COCs in soil, soil gas and groundwater at the Site. Details of the field methodologies and laboratory analytical results are provided in the following sections.

3.1 Field Methodologies

Soil

On September 25th, 28th, and October 1, 2020 ESE installed twelve (12) soil borings in accordance with the locations of RECs identified in ESE’s Phase I ESA Report (ESE Document No. REP-20-0506-001 Rev 1). Soil borings TMW-01 through TMW-10 and SB-1 and SB-2 were advanced to depths of approximately 25 feet bgs using direct push technology (DPT). Soil samples collected from the borings were visually inspected for signs of impact, field-screened with a photo-ionization detector (PID), and the lithology was logged. Temporary monitor well and soil boring locations are depicted in **Figure 2**. Observed lithology and field screening results are recorded on the Soil Boring Logs provided in **Appendix B**.

Soil samples were initially collected and analyzed from the depth interval which exhibited elevated PID readings and/or visual indications of potential impacts observed during soil screening activities. In the absence of PID readings or visual/olfactory evidence of affected media, the sample obtained from the near surface interval was submitted for laboratory analysis. Additional soil samples were collected, dependent on field observations, from the deepest non-saturated interval above the groundwater bearing unit and placed on hold pending the initial laboratory analysis.

Soil samples were selectively submitted for laboratory analysis of RCRA 8 metals by EPA Methods 6010/7471, VOCs by EPA Method 8260, and TPH by TCEQ Method 1005, and were placed on hold for PAHs by EPA Method 8270 or TPH by TCEQ Method 1006 pending initial TPH results. Soil samples submitted for laboratory analysis are summarized in **Table 3.1.1** below:

Table 3.1.1
Summary of Soil Sample Analysis

Soil Boring Location	Sample Depth Interval (ft bgs)	PID Concentration	Laboratory Analysis
TMW-01	2-4	0.1	RCRA 8 Metals, VOC, TPH 1005
TMW-02	2-4	1.0	RCRA 8 Metals, VOC, TPH 1005, TPH 1006, PAH
TMW-03	2-4	0.1	RCRA 8 Metals, VOC, TPH 1005
TMW-04	12-14	0.0	RCRA 8 Metals, VOC, TPH 1005, PAH
TMW-05	2-4	0.0	RCRA 8 Metals, VOC, TPH 1005, TPH 1006
TMW-06	2-4	0.8	RCRA 8 Metals, VOC, TPH 1005

TMW-07	2-4	0.0	RCRA 8 Metals, VOC, TPH 1005
TMW-08	2-4	320	RCRA 8 Metals, VOC, TPH 1005, TPH 1006
TMW-09	2-4	0.0	RCRA 8 Metals, VOC, TPH 1005
TMW-10	2-4	1.5	RCRA 8 Metals, VOC, TPH 1005
SB-01	2-4	0.1	RCRA 8 Metals, VOC, TPH 1005
SB-02	8-10	487	RCRA 8 Metals, VOC, TPH 1005

Groundwater

Soil borings TMW-01 through TMW-10 were converted into TMWs for the collection of groundwater. TMWs were constructed with 1-inch diameter Schedule 40 PVC riser and slotted screen. All TMWs were screened across the shallow GWBU, initially encountered at 15 to 19-foot bgs, and were terminated at a depth of approximately 25 feet bgs. TMW construction details are depicted on the Soil Boring Logs provided in **Appendix B**.

Following completion, the TMWs were purged through a mechanical withdrawal of water to improve the communication between the well and the shallow GWBU. This process serves to remove sand, silt, and/or clay particles that may have been introduced into the well bore during installation activities. After development, the TMWs and MWs were sampled with a peristaltic pump using modified low-flow methods and disposable tubing. All non-disposable equipment was decontaminated between sampling locations with an Alconox® and distilled water solution followed by a final rinse with distilled water. Following completion of groundwater sampling, temporary well screen and casing were removed, and the soil borings were plugged in accordance with appropriate regulatory guidance.

Groundwater samples were selectively submitted for laboratory analysis for RCRA 8 metals by EPA Methods 6010/7471, VOCs by EPA Method 8260, TPH by TCEQ Method 1005, and placed on hold for PAHs by EPA Method 8270 or TPH by TCEQ Method 1006 pending initial analytical results.

Groundwater samples submitted for laboratory analysis are summarized in **Table 3.1.2** below:

**Table 3.1.3
 Summary of Groundwater Sample Analysis**

Soil Boring Location	Laboratory Analysis
TMW-01	RCRA 8 Metals, VOC, TPH
TMW-02	RCRA 8 Metals, VOC, TPH 1005, TPH 1006, PAH
TMW-03	RCRA 8 Metals, VOC, TPH
TMW-04	RCRA 8 Metals, VOC, TPH, PAH
TMW-05	RCRA 8 Metals, VOC, TPH
TMW-06	RCRA 8 Metals, VOC, TPH
TMW-07	RCRA 8 Metals, VOC, TPH
TMW-08	RCRA 8 Metals, VOC, TPH
TMW-09	RCRA 8 Metals, VOC, TPH
TMW-10	RCRA 8 Metals, VOC, TPH

MW-1	RCRA 8 Metals, VOC, TPH
MW-3	RCRA 8 Metals, VOC, TPH

Soil Gas

Six (6) soil borings were advanced to approximately five (5) feet bgs utilizing GeoProbe’s Post-Run Tubing (PRT) System for the collection of soil gas samples. Soil vapor borings were installed within the footprint of proposed residential structures. Soil gas samples were collected in 1-liter Summa canisters (evacuated stainless steel containers) attached with 200-milliliter per minute flow regulators. Upon completion of soil gas sampling, all borings were properly plugged and patched with asphalt/concrete, as applicable. Soil gas boring locations are depicted in **Figure 2**.

Soil gas samples were submitted for laboratory analysis of Volatile Organic Compounds (VOCs) in Air by U.S. EPA Compendium Method TO-15. The list of VOCs was truncated for twelve (12) common automotive fuel compounds as well as chlorinated solvents and related degreasers.

Soil gas samples submitted for laboratory analysis are summarized in **Table 3.1.2** below:

**Table 3.1.2
 Summary of Soil Gas Sample Analysis**

Soil Boring Location	Sample Depth Interval (ft bgs)	PID Concentration	Laboratory Analysis
SGS-01	4-5	N/A	Volatile Organics in Air
SGS-02	4-5	N/A	Volatile Organics in Air
SGS-03	4-5	N/A	Volatile Organics in Air
SGS-04	4-5	N/A	Volatile Organics in Air
SGS-05	4-5	N/A	Volatile Organics in Air
SGS-06	4-5	N/A	Volatile Organics in Air

Samples collected from environmental media were placed in clean, laboratory-supplied containers, labeled, and placed in an ice-filled cooler pending transportation to Xenco Laboratories. Proper chain-of-custody documentation was maintained for all transported samples.

3.2 Investigation Results

According to reported analytical results, COC concentrations in samples collected from environmental media did not exceed TSBCs or TCEQ TRRP Tier 1 Residential PCLs with the exception of the following:

- Trichloroethylene (TCE) was detected above TCEQ TRRP Tier 1 PCLs (0.005 mg/L) in the groundwater sample collected from T-2 TMW-07 at a reported concentration of 0.0125 mg/L.
- Benzene and MTBE, constituents associated with automotive fuels, were detected above the PST ALs (0.12 mg/kg and 2.56 mg/kg) in the soil sample collected from T-2 SB-2 (8’-

10') at reported concentrations of 7.94 mg/kg and 4.20 mg/kg respectively. TPH was also detected in T-2 SB-2 (8'-10') but did not exceed PST Screen Levels for same. SB-2 was installed near the former gasoline underground storage tanks (USTs) which had a previously documented release and, as the result, were registered with the TCEQ as a Leaking Petroleum Storage Tank (LPST) facility (LPST ID No. 107917) in 1994. This LPST site further received regulatory closure in July 1994. The benzene, MTBE and TPH detections present in this soil sample are similar in value to the soil samples collected in proximity to the tank hold during the removal of the USTs in 1994. Since the petroleum hydrocarbon contamination associated with the UST removal has previously been address (under LPST ID No. 107917), which has obtained TCEQ regulatory closure, these detections do not appear to be indicative of a new or previously unreported hydrocarbon release.

- TPH was detected above TCEQ PST TPH Screen Levels in the soil sample collected from T-2 TMW-04 (12'-14') located immediately downgradient of the three existing USTs at the Site. The sample was further analyzed for Polycyclic Aromatic Hydrocarbons (PAH), as allowed by PST rule. PAH constituents did not exhibit concentrations at or above TCEQ PST ALs.
- TPH was detected above TCEQ PST TPH Screen Levels in the groundwater sample collected from T-2 TMW-04 located immediately downgradient of the three existing USTs. The sample was further analyzed for PAHs, as allowed by PST rule. PAH constituents exhibited concentrations below the TCEQ PST ALs.
- TPH was detected above TCEQ TRRP Tier 1 PCLs in the soil samples collected from T-2 TMW-02 (2'-4'), T-2 TMW-05 (2'-4') and T-2 TMW-08 (8'-10'). Based upon location, these detections do not appear to be attributable USTs. Since it appears that these concentrations of TPH were potentially attributable to separate sources, each of the three (3) samples were further fractionated via TCEQ TX-Method 1006 (TPH fractionation analysis), as allowed by rule. Analytical results from TPH TX-1006 analysis were used in combination with the TCEQ TRRP Tier 1 TPH Mixture Specific PCL Calculator (per TCEQ regulatory guidance) to determine a Tier 1 TPH_{Mix} PCL (TPH mixture specific PCL) for each of the three sample locations. Concentrations of TPH in each of the afore-referenced locations was not found to exceed the applicable Tier 1 TPH_{Mix} PCL. The TPH PCL Calculator worksheets used are included in **Appendix C**.
- TPH was detected the TRRP T1 PCLs in the groundwater samples collected from T-2 TMW-01 and T-2 TMW-02. The detection of TPH in these locations are not known to be directly associated with a UST. Since these sample points were located adjacent to each other, the higher of the two TPH results was submitted for supplemental analysis by TCEQ Method TX-1006. Analytical results from TPH TX-1006 analysis were used in combination with the TCEQ TRRP Tier 1 TPH Mixture Specific PCL Calculator to determine a Tier 1 TPH_{Mix} PCL for the TPH source area of 2.77 mg/L. Comparison of the TPH documented in

the groundwater was found to exceed the applicable mixture specific TPH PCL of 2.77 mg/L. The TPH PCL Calculator worksheets used are included in **Appendix C**.

- Arsenic was detected above the TCEQ TRRP Tier 1 PCLs (0.010 mg/L) in the groundwater sample collected from T-2 MW-1 at a reported concentration of 0.0162 mg/L. T-2 MW-1 is located directly downgradient of the former petroleum release associated with the former USTs (registered LSPT facility) which has received regulatory closure. Well documented technical literature has demonstrated that the presence of petroleum hydrocarbons in soil causes mobilization of naturally occurring arsenic. The groundwater sample collected from T-2 MW-1 was the only groundwater sample at the Site that exhibited a noticeable petroleum hydrocarbon presence (benzene concentration of 0.00491 mg/L) and an elevated arsenic concentration. Based upon arsenic's colocation with the historically documented hydrocarbon release, the detection of arsenic does not appear to be indicative of an unreported material release, but rather is associated with naturally occurring arsenic which has been mobilized by the presence of petroleum hydrocarbons which have previously been reported and received regulatory closure from the TCEQ. The document titled, *Arsenic at Petroleum Impacted Sites* published by the Battelle Memorial Institute is included in **Appendix D**.
- Arsenic was detected above the default TSBC (5.9 mg/kg) in the soil sample collected from T-2 TMW-01 (2'-4') at a reported concentration of 8.75 mg/kg. This sample was further analyzed by Synthetic Precipitation Leaching Procedure (SPLP), a method used to determine transportation or leaching potential of COCs to groundwater. The SPLP result did not exceed the TRRP Tier 1 Residential PCL and, as such, can be considered protective of groundwater.
- Lead was detected above the default TSBC (15 mg/kg) in the soil sample collected from T-2 TMW-02 (2'-4') at a reported concentration of 28.0 mg/kg. This sample was further analyzed by SPLP, a method used to determine transportation or leaching potential of COCs to groundwater. The SPLP result did not exceed the TRRP Tier 1 Residential PCL and, as such, can be considered protective of groundwater.
- Benzene was detected above the Residential VISL of 120 ug/m³ in the soil gas sample collected from SGS-03 at a reported concentration of 66,100 ug/m³.

A summary of all soil analytical data is presented in **Table 1A** through **Table 1F**. A summary of all groundwater analytical data is presented in **Table 2A** and **Table 2F**. A summary of all soil gas analytical data is presented in **Table 3**. Copies of laboratory analytical reports are included in **Appendix B**.

3.3 Investigation Derived Waste

No investigation derived waste was generated during this Phase II ESA.

4 FINDINGS AND CONCLUSIONS

Environmental Science and Engineering Partners, LLC (ESE Partners, ESE) has conducted a Phase II Environmental Site Assessment (Phase II ESA) on behalf of Houston Land Bank (the Client), for the property located at 3201 Hardy Street in Houston, Harris County, Texas. The property is currently operated by Yellow Cab and includes three (3) separate tracts of land. This report summarizes the findings of the Phase II ESA activities conducted on the center tract which is referenced as Yellow Cab - Tract II (the Site). This Phase II ESA was completed in response to the findings of ESE's Phase I ESA (ESE Document No. REP-20-0506-001 Rev 1), dated August 25, 2020, which identified recognized environmental conditions (RECs) in connection with the Site.

RECs identified in the Phase I ESA further contain references to current and past operations not only associated with Yellow Cab Tract II, but also Yellow Cab Tracts I and III which are located to the north and south of Tract II. The purpose of this Phase II ESA was to collect representative soil, soil gas, and groundwater samples on Tract II to confirm or deny the presence of certain chemicals of concern (COCs), including RCRA 8 metals, volatile organic compounds (VOCs), and total petroleum hydrocarbons (TPH) associated with RECs identified within the Phase I ESA. Subsurface investigations completed on Yellow Cab Tracts I and III are presented under separate cover. This Phase II ESA was performed in general accordance with the ASTM E1903-19 guidance document titled *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

4.1 Findings

Assessment activities were conducted on September 25th, 28th and October 1st, 2020 and included the installation of ten (10) temporary monitor wells (T-2 TMW-01 through T-2 TMW-10) to a depth of approximately 25 feet below ground surface (bgs), two (2) soil borings (T-2 SB-01 and T-2 SB-02) to a depth of approximately 25 feet bgs and six (6) soil vapor borings (T-2 SGS-01 to T-2 SGS-06) to a depth of approximately 5 feet bgs. Representative soil and groundwater samples were collected at each temporary monitor well location. Soil gas samples were collected from soil gas borings SGS-01 through SGS-06. Additionally, groundwater samples were collected from two (2) existing monitor wells (MWs) at the Site. Supplemental mobilizations occurred at the Site on November 20th to install three (3) typical 2-inch monitor wells (MW-6, MW-7 and MW-8) and on November 23rd to collect groundwater samples from these monitor wells in an effort to further characterize the Site.

Soil and groundwater COC concentrations were compared to Texas-Specific Soil Background Concentrations (TSBCs), Petroleum Storage Tank (PST) Action Levels (ALs), and/or Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 Residential Protective Concentration Levels (PCLs; residential assessment levels). The U.S. Environmental Protection Agency (EPA) Vapor Intrusion Screening Level (VISL) Calculator (U.S.

EPA, Online Version) was used to evaluate reported soil gas results.

Reported COC concentrations in soil samples did not exceed sample detection limits (SDLs), TSBCs, TCEQ TRRP Tier 1 Residential PCLs, and/or PST ALs with the exception of the following:

- Trichloroethylene (TCE) was detected above TCEQ TRRP Tier 1 PCLs (0.005 mg/L) in the groundwater sample collected from T-2 TMW-07 at a reported concentration of 0.0125 mg/L. Monitor well MW-8 was installed adjacent to T-2 TMW-07 and a groundwater sample was collected to confirm or deny the presence of TCE in the groundwater at this location. The groundwater sample collected from MW-8 had a reported concentration of 0.00743 mg/L which is still above the TCEQ TRRP Tier 1 PCL for TCE.
- Benzene and MTBE, constituents associated with automotive fuels, were detected above the PST ALs (0.12 mg/kg and 2.56 mg/kg) in the soil sample collected from T-2 SB-2 (8'-10') at reported concentrations of 7.94 mg/kg and 4.20 mg/kg respectively. TPH was also detected in T-2 SB-2 (8'-10') but did not exceed PST Screen Levels for same. SB-2 was installed near the former gasoline underground storage tanks (USTs) which had a previously documented release and, as a result, was registered with the TCEQ as a Leaking Petroleum Storage Tank (LPST) facility (LPST ID No. 107917) in 1994. This LPST site further received regulatory closure in July 1994. The benzene, MTBE and TPH detections present in this soil sample are similar in value to the soil samples collected in proximity to the tank hold during the removal of the USTs in 1994. Since the petroleum hydrocarbon contamination associated with the UST removal has previously been address (under LPST ID No. 107917), which has obtained TCEQ regulatory closure, these detections do not appear to be indicative of a new or previously unreported hydrocarbon release.
- TPH was detected above TCEQ PST TPH Screen Levels in the soil samples collected from T-2 TMW-02 (2'-4'), possibly located adjacent to an unregistered "ghost UST" or former tank hold discovered while installing monitor well MW-7, and T-2 TMW-04 (12'-14'), located immediately downgradient of the three existing USTs at the Site. Both samples were further analyzed for Polycyclic Aromatic Hydrocarbons (PAH), as allowed by PST rule. PAH constituents exhibited concentrations below the TCEQ PST ALs.
- TPH was detected above TCEQ PST TPH Screen Levels in the groundwater sample collected from T-2 TMW-04 located immediately downgradient of the three existing USTs. The sample was further analyzed for PAHs, as allowed by PST rule. PAH constituents exhibited concentrations below the TCEQ PST ALs.
- TPH was detected above TCEQ TRRP Tier 1 PCLs in the soil samples collected from T-2 TMW-05 (2'-4') and T-2 TMW-08 (8'-10'). Based upon location, these detections do not appear to be attributable to the USTs. Since it appears that these concentrations of TPH were potentially attributable to separate sources, both of the samples were further fractionated via TCEQ TX-Method 1006 (TPH fractionation analysis), as allowed by rule.

Analytical results from TPH TX-1006 analysis were used in combination with the TCEQ TRRP Tier 1 TPH Mixture Specific PCL Calculator (per TCEQ regulatory guidance) to determine a Tier 1 TPH_{Mix} PCL (TPH mixture specific PCL) for both of the sample locations. Concentrations of TPH in each of the afore-referenced locations was not found to exceed the applicable Tier 1 TPH_{Mix} PCL. The TPH PCL Calculator worksheets used are included in **Appendix C**.

- TPH was detected above the TCEQ PST Screen Levels in the groundwater samples collected from T-2 TMW-01 and T-2 TMW-02. These sampling points are in close proximity to the possible “ghost USTs” or former tank hold that was discovered while installing monitor well MW-7, therefore the TPH detected is assumed to be directly associated with a UST. Since these sample points were located adjacent to each other, the higher of the two TPH results was further analyzed for Polycyclic Aromatic Hydrocarbons (PAH), as allowed by PST rule. PAH constituents exhibited concentrations below the TCEQ PST ALs.
- Arsenic was detected above the TCEQ TRRP Tier 1 PCLs (0.010 mg/L) in the groundwater sample collected from T-2 MW-1 at a reported concentration of 0.0162 mg/L. T-2 MW-1 is located directly downgradient of the former petroleum release associated with the former USTs (registered LPST facility) which has received regulatory closure. Well documented technical literature has demonstrated that the presence of petroleum hydrocarbons in soil causes mobilization of naturally occurring arsenic. The groundwater sample collected from T-2 MW-1 was the only groundwater sample at the Site that exhibited a noticeable petroleum hydrocarbon presence (benzene concentration of 0.00491 mg/L) and an elevated arsenic concentration. Based upon arsenic’s colocation with the historically documented hydrocarbon release, the detection of arsenic does not appear to be indicative of an unreported material release, but rather is associated with naturally occurring arsenic which has been mobilized by the presence of petroleum hydrocarbons which have previously been reported and received regulatory closure from the TCEQ. The document titled *Arsenic at Petroleum Impacted Sites* published by the Battelle Memorial Institute is included in **Appendix D**.
- Arsenic was detected above the default TSBC (5.9 mg/kg) in the soil sample collected from T-2 TMW-01 (2’-4’) at a reported concentration of 8.75 mg/kg. This sample was further analyzed by Synthetic Precipitation Leaching Procedure (SPLP), a method used to determine transportation or leaching potential of COCs to groundwater. The SPLP result did not exceed the TRRP Tier 1 Residential PCL and, as such, can be considered protective of groundwater.
- Lead was detected above the default TSBC (15 mg/kg) in the soil sample collected from T-2 TMW-02 (2’-4’) at a reported concentration of 28.0 mg/kg. This sample was further analyzed by SPLP, a method used to determine transportation or leaching potential of COCs to groundwater. The SPLP result did not exceed the TRRP Tier 1 Residential PCL

and, as such, can be considered protective of groundwater.

Reported soil gas concentrations were compared to applicable Residential Target Sub-Slab and Near-Source Gas Concentrations that were calculated using the U.S. EPA Vapor Intrusion Screening Level (VISL) Calculator (U.S. EPA, Online Version). Reported COC concentrations in the soil gas samples collected did not exceed sample detection limits (SDLs) or U.S. EPA Residential Target Sub-Slab and Near-Source Gas Concentrations except for the following:

- Benzene was detected above the Residential VISL of 120 ug/m³ in the soil gas sample collected from SGS-03 at a reported concentration of 66,100 ug/m³.

Soil and soil gas boring locations are depicted in **Figure 2**. A detailed description of observed lithology and field screening results are recorded on the Soil Boring Logs provided in **Appendix A**. Analytical data are presented in **Table 1A** through **Table 1F**, **Table 2A** through **Table 2F** and **Table 3**.

4.2 Conclusions

Based on the results of this investigation, reported COC concentrations in soil and groundwater samples were below SDLs, TSBCs and TCEQ TRRP Tier 1 Residential PCLs, and in soil gas samples were below SDLs or U.S. EPA Residential Target Sub-Slab and Near-Source Gas Concentrations except as follows:

- Trichloroethylene (TCE) was detected in the groundwater sample collected from T-2 TMW-07. ESE returned to the Site and installed a permanent (typical) monitor well (MW-8) adjacent to T-2 TMW-07 in an attempt to confirm or deny the presence of TCE in the groundwater at this location. The groundwater sample collected from MW-8 had a reported concentration of 0.00743 mg/L which is still above the TCEQ TRRP Tier 1 PCL for TCE. ESE believes that enrolling the Site into a State sponsored remedial action program such as the Corrective Action Program or Voluntary Cleanup Program (VCP) would be required to address the reported chlorinated solvent PCL exceedances present in groundwater in accordance with TRRP (30 TAC §350).
- TPH was detected in groundwater samples collected from T-2 TMW-01 and T-2 TMW-02 above their applicable TCEQ PST Screen Levels. Permanent (typical) monitor wells MW-6 and MW-7 were installed adjacent to these two sampling points in an effort to confirm or deny the presence of TPH in the groundwater at these locations. The groundwater samples collected from MW-6 and MW-7 exhibited TPH concentration below the laboratory detection limits.
- Benzene, TPH, and/or MTBE were detected in soil and groundwater at sample locations T-2 SB-2 (8'-10'), T-2 TMW-04 (12'-14'), and T-2 TMW-04. The detections of petroleum hydrocarbons in these locations are either associated with a previously documented hydrocarbon release which has received regulatory closure (LPST ID 107917) or the

detections do not appear to be indicative of newly reportable hydrocarbon release (in locations where UST remain in use at the Site), based upon PAH analysis, which did not exceed PST ALs for same.

- Benzene was detected in the soil gas sample collected from SGS-03 at a reported concentration above the Residential VISL. The benzene in soil gas appears to be associated with the use of USTs at the Site. ESE recommends that the proposed residential structures be constructed/completed with a passive vapor mitigation system (PSVMS) or a similar engineered system due to the detection of benzene in the subsurface above the VISL.
- TPH in soil, unrelated to releases from USTs, was detected above TCEQ TRRP Tier 1 TPH Screening PCLs in the soil samples collected from T-2 TMW-05 (2'-4') and T-2 TMW-08 (8'-10'). TPH soil concentrations in these areas were not found to exceed TPH mixture specific PCLs. Although the TPH concentrations in soil were not found to exceed regulatory screen criteria in the sampled locations, soil management, potentially including removal and disposal at a permitted landfill (development related costs), of TPH impacted soil should, be taken into account in these areas, as well as, past or current UST tank hold locations prior to future residential redevelopment for aesthetic reasons (odor and/or appearance).
- Arsenic was detected above the TCEQ TRRP Tier 1 PCL (0.010 mg/L) in the groundwater sample collected from T-2 MW-1 at a reported concentration of 0.0162 mg/L. T-2 MW-1 is located directly downgradient of the historically documented petroleum release associated with the former USTs, also a documented LSPT facility, which has received regulatory closure. Based upon arsenic's colocation with the historic hydrocarbon release, the detection of arsenic does not appear to be indicative of an unreported material release, but rather is associated with naturally occurring arsenic which has been mobilized by the presence of petroleum hydrocarbons which have previously been reported and received regulatory closure from the TCEQ.
- Arsenic and lead were detected in soil in select sample locations above the default TSBCs, but were further analyzed by SPLP, as allowed by rule, and were demonstrated to be protective of groundwater (applicable PCL).
- During the Phase II, evidence of unregistered USTs (ghost tanks) or a former tank hold was identified during the installation monitor well MW-7. Based upon the sampling it does not appear that a reportable release has occurred proximate to the location of MW-7. If unregistered or previously unknown USTs are identified during site development, they should be removed in accordance with federal, state, and local regulations. Additionally, the USTs that are in place and currently registered to the Site should be removed in accordance with federal, state, and local regulations when they are no longer needed.

5 REFERENCES

ESE does not warrant the data of regulatory agencies or other third parties supplying information used in the preparation of this report. Documents and commercial information services used in the preparation of this report, as listed below, are all current as most recently published.

DOCUMENTS

American Society for Testing and Materials, ASTM E1903-19, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

ESE Partners, LLC. *Phase I Environmental Site Assessment. 3201 Hardy Street, Houston, Harris County, Texas.* ESE Document No. LET-20-0506-001 Rev 1. August 25, 2020.

30 TAC 350, Texas Risk Reduction Program.

30 TAC 334, Petroleum Storage Tank Rules

6 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

PHASE II ENVIRONMENTAL SITE ASSESSMENT

YELLOW CAB – TRACT II

1400 AND 1500 BLOCK OF HAYS STREET

HOUSTON, HARRIS COUNTY, TEXAS

DECEMBER 2, 2020




John Lembcke, P.G.
Senior Geologist

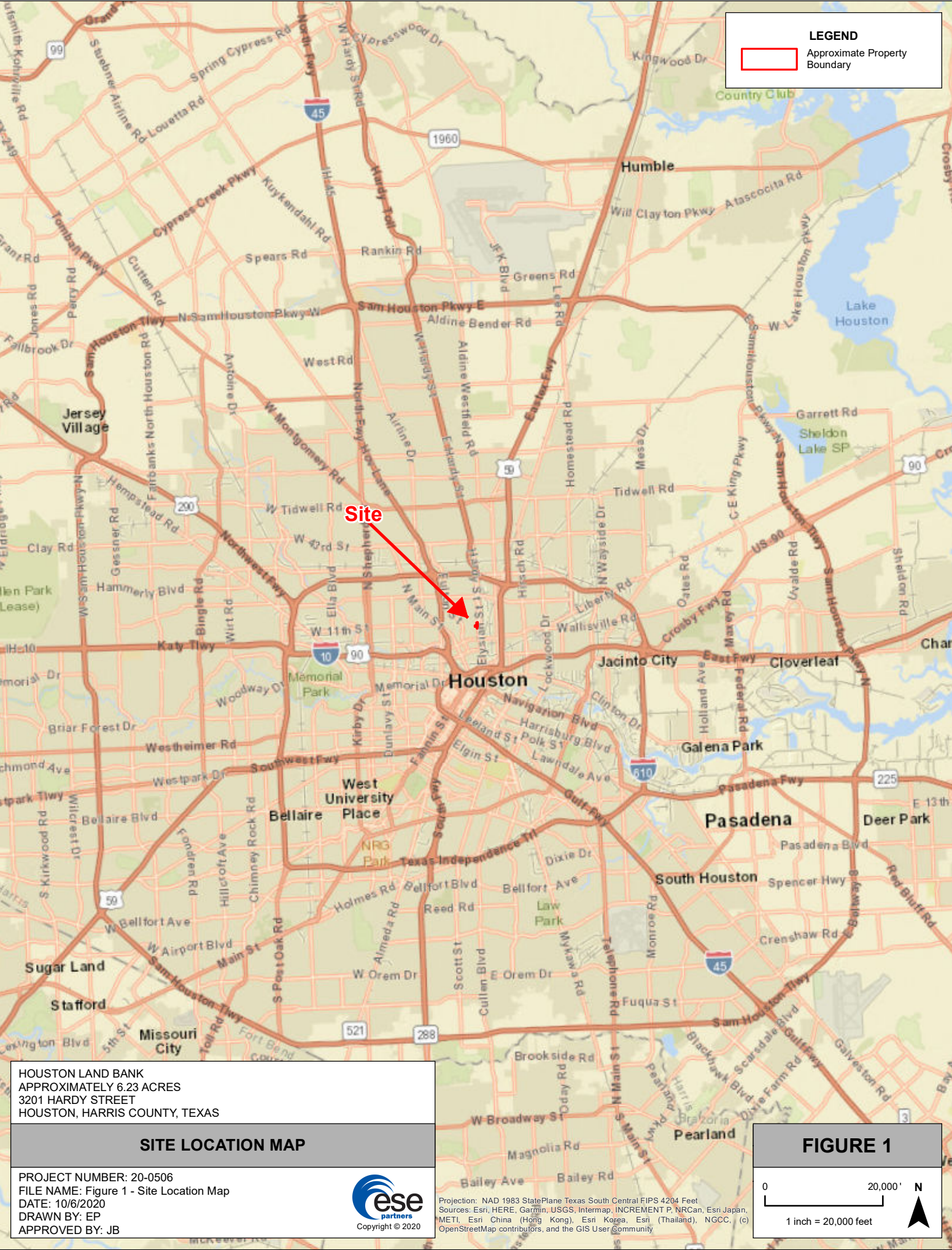


Jason Binford
Principal Consultant

FIGURES

LEGEND

 Approximate Property Boundary



HOUSTON LAND BANK
 APPROXIMATELY 6.23 ACRES
 3201 HARDY STREET
 HOUSTON, HARRIS COUNTY, TEXAS

SITE LOCATION MAP

PROJECT NUMBER: 20-0506
 FILE NAME: Figure 1 - Site Location Map
 DATE: 10/6/2020
 DRAWN BY: EP
 APPROVED BY: JB



Projection: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
 Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User community

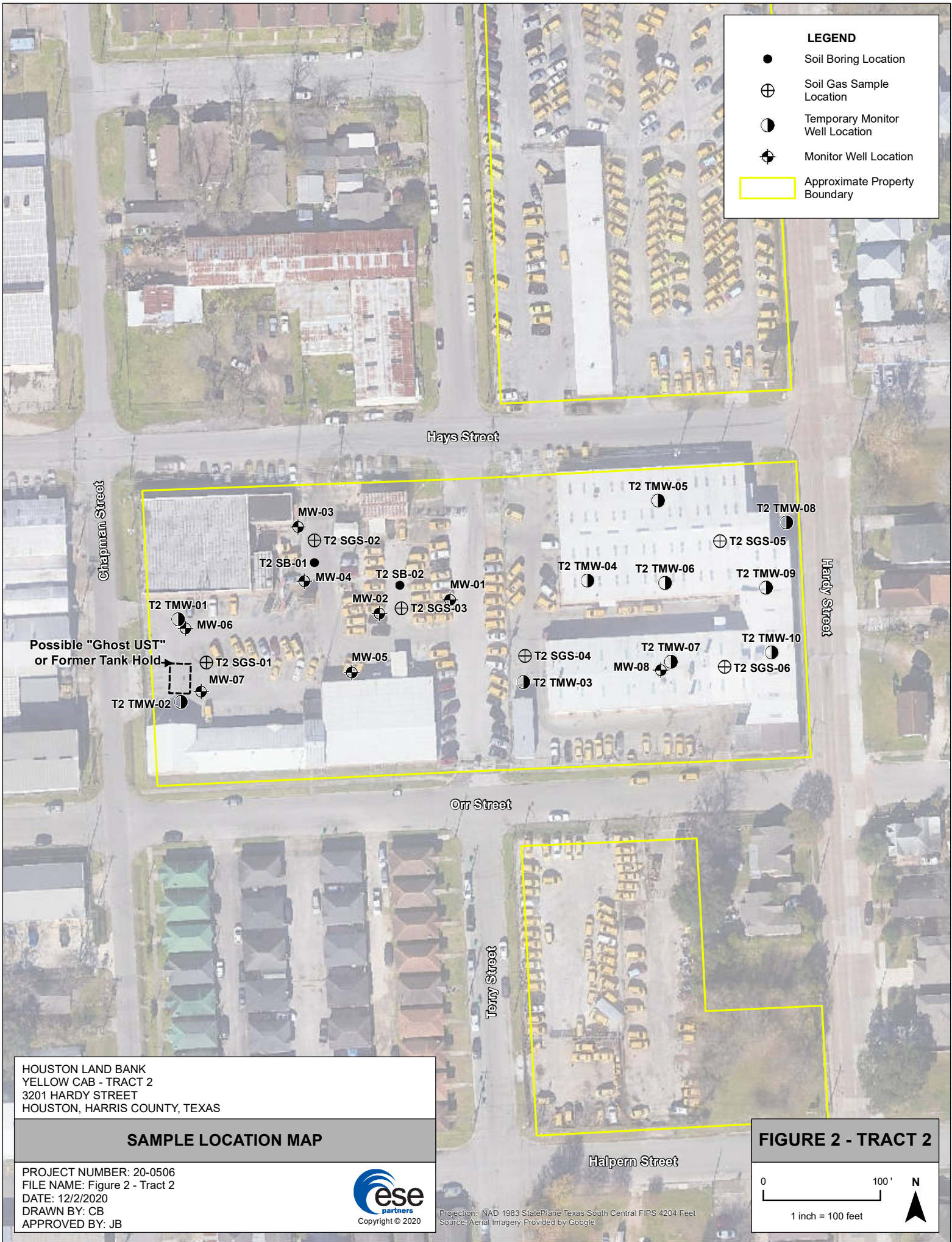
FIGURE 1

0 20,000' N

1 inch = 20,000 feet

LEGEND

- Soil Boring Location
- ⊕ Soil Gas Sample Location
- ◐ Temporary Monitor Well Location
- ⊕ Monitor Well Location
- Approximate Property Boundary



HOUSTON LAND BANK
 YELLOW CAB - TRACT 2
 3201 HARDY STREET
 HOUSTON, HARRIS COUNTY, TEXAS

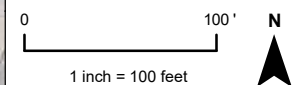
SAMPLE LOCATION MAP

PROJECT NUMBER: 20-0506
 FILE NAME: Figure 2 - Tract 2
 DATE: 12/2/2020
 DRAWN BY: CB
 APPROVED BY: JB



Projection: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet
 Source: Aerial Imagery Provided by Google

FIGURE 2 - TRACT 2



TABLES

**TABLE 1A
SOIL METALS DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	TSBC	Tier 1 Residential PCLs		Tier 1 Commercial/Industrial PCLs		RAL	T-2 TMW-01	T-2 TMW-02	T-2 TMW-03	T-2 SB-1	T-2 SB-2	T-2 TMW-04	T-2 TMW-05	T-2 TMW-06	T-2 TMW-07	T-2 TMW-08	T-2 TMW-09	T-2 TMW-10
			Sample Depth Interval (ft-bgs):	TotSoilComb	GWSoilIng	TotSoilComb		GWSoilIng	2-4	2-4	2-4	2-4	8-10	12-14	2-4	2-4	2-4	8-10	2-4
Sample Collection Date:								9/25/2020	9/25/2020	9/25/2020	9/25/2020	9/25/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020
RCRA 8 Metals by EPA Method 6010B/7471A		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)
Arsenic	7440-38-2	5.9	24	5	200	5	5.9	8.75	4.42	2.14 J	4.88	1.36 J	2.12 J	2.54 J	1.23 J	2.00 J	1.28 J	2.67 J	1.50 J
Barium	7440-39-3	300	8100	440	120000	440	440	82.7	99.6	76.6	203	58.4	101	64.5	23.1	38.7	200	42.3	72.4
Cadmium	7440-43-9	—	52	1.5	810	1.5	1.5	<0.137	0.204 J	<0.131	<0.139	<0.135	<0.135	<0.130	<0.130	<0.125	0.282 J	<0.129	<0.113
Chromium	7440-47-3	30	33000	2400	120000	2400	2400	14.6	7.52	9.89	19.1	6.69	9.62	19.0	9.75	9.05	5.76	13.5	6.85
Lead	7439-92-1	15	500	3	1600	3	15	14.9	28.0	9.56	11.4	6.86	5.90	14.8	10.2	7.77	2.69	7.93	11.8
Selenium	7782-49-2	0.3	310	2.3	4900	2.3	2.3	1.11 J	<0.547	0.730 J	0.891 J	<0.580	<0.576	0.691 J	<0.556	0.840 J	<0.506	0.688 J	0.494 J
Silver	7440-22-4	—	97	0.48	2300	1.4	0.48	<0.188	<0.175	<0.180	<0.190	<0.186	<0.184	<0.178	<0.178	<0.171	<0.162	<0.177	<0.155
Mercury	7439-97-6	0.04	3.6	2.3*	6.2	2.3*	2.3	0.0196	0.0197 J	0.0309	<0.00363	0.0214	0.0363	0.0317	0.0258	0.0153 J	<0.00423	0.0204 J	0.00587 J
pH	12408-02-5	—	—	—	—	—	—	—	—	—	8.11	—	—	—	—	—	—	—	—

Notes:

* Based on site-specific pH of 6.8 or above

ft-bgs - feet below ground surface

TSBC - Texas-Specific Soil Background Concentration

TotSoilComb PCL - TRRP Tier 1 PCL for COC exposure through a combination of soil ingestion, dermal contact, inhalation, and vegetation consumption

GWSoilIng PCL - TRRP Tier 1 PCL for a soil COC leaching into groundwater that could be ingested

Site-specific Modified Action Levels were calculated by Terracon within their Environmental Site Investigation Report dated December 18, 2009.

RAL - Residential assessment level (critical PCL)

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

Bold Highlighted Text Indicates Screening PCL Exceedance But Not SPLP

**TABLE 1C
SOIL TPH 1005 DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	Tier 1 Residential PCLs		Tier 1 Commercial/Industrial PCLs		RAL	T-2 TMW-01	T-2 TMW-02	T-2 TMW-03	T-2 SB-1	T-2 SB-2	T-2 TMW-04	T-2 TMW-05	T-2 TMW-06	T-2 TMW-07	T-2 TMW-08	T-2 TMW-09	T-2 TMW-10	
		TotSoil _{Comb}	GWSoil _{ing}	TotSoil _{Comb}	GWSoil _{ing}		2-4	2-4	2-4	2-4	8-10	12-14	2-4	2-4	2-4	2-4	8-10	2-4	2-4
		mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Depth Interval (ft-bgs):							9/25/2020	9/25/2020	9/25/2020	9/25/2020	9/25/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	
Lab Sample ID:							Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)	
Sample Collection Date:																			
Total Petroleum Hydrocarbons (TPH) by TCEQ Method 1005																			
TPH (C6-C12)	TPH-1005-1	1600	65	3900	190	65	<18.7	29.9 J	<19.2	<18.7	156	<21.6	23.9 J	<23.3	<19.1	346	<19.5	<17.9	
TPH (>C12-C28)	TPH-1005-2	2300	200	12000	590	200	<18.7	206	<19.2	<18.7	260	4940	256	<19.1	30.3 J	<19.5	<17.9		
TPH (>C28-C35)	TPH-1005-4	2300	200	12000	590	200	<18.7	72.1	<19.2	<18.7	<20.0	60.0	1520	83.7	<19.1	<21.9	<19.5	<17.9	
TPH (C6-C35)							<18.7	308	<19.2	<18.7	156	320	6480	340	<19.1	376	<19.5	<17.9	

TotSoil_{Comb} PCL - TRRP Tier 1 PCL for COC exposure through a combination of soil ingestion, dermal contact, inhalation, and vegetation consumption

GWSoil_{ing} PCL - TRRP Tier 1 PCL for a soil COC leaching into groundwater that could be ingested

RAL - Residential assessment level (critical PCL)

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

*Calculated 0.5-acre PCLs utilizing the TCEQ TRRP Tier 1 TPH PCL Calculator (v 2.0 - 12/2016) for TCEQ Method 1006 Data

Bold Highlighted Text Indicates Screening PCL or PST Screening Exceedance But Not Mixture or PAH Specific Values

**TABLE 1D
SOIL TPH 1006 DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	Tier 1 Residential PCLs		Tier 1 Commercial/Industrial PCLs		T-2 TMW-02	T-2 TMW-05	T-2 TMW-08
		TotSoil _{Comb}	GWSoil _{Ing}	TotSoil _{Comb}	GWSoil _{Ing}	2-4	2-4	8-10
Sample Depth Interval (ft-bgs):								
Sample Collection Date:						9/25/2020	9/28/2020	9/28/2020
Total Petroleum Hydrocarbons (TPH) by TCEQ Method 1006		mg/kg	mg/kg	mg/kg	mg/kg	Results (mg/kg)	Results (mg/kg)	Results (mg/kg)
C6 Aliphatics	ALI-C6-GT53	3300	170	12000	510	<6.90	<8.77	<7.57
>C6-C8 Aliphatics	ALI-C6-8-GT53	3300	420	12000	1300	<15.3	<19.4	<16.7
>C8-C10 Aliphatics	ALI-C8-10	4000	3600	9700	11000	3.22 J	<3.07	125
>C10-C12 Aliphatics	ALI-C10-12	3600	25000	9300	76000	<2.26	<2.87	66.7
>C12-C16 Aliphatics	ALI-C12-16	4300	490000	14000	1000000	7.94	<6.07	8.52
>C16-C21 Aliphatics	ALI-C16-21	130000	1000000	1000000	1000000	<4.81	826	<5.28
>C21-C35 Aliphatics	ALI-C21-35	130000	1000000	1000000	1000000	211	6980	<22.3
Sum Aliphatic Fraction	—	—	—	—	—	251.43	7,846.18	252.07
>C7-C8 Aromatics	ARO-C7-8	6400	20	29000	60	<3.07	<3.14	<2.71
>C8-C10 Aromatics	ARO-C8-10	1600	65	3900	190	<3.01	<3.07	10.2
>C10-C12 Aromatics	ARO-C10-12	1900	100	6900	300	<6.89	<7.04	126
>C12-C16 Aromatics	ARO-C12-16	2300	200	12000	590	<3.95	<4.04	30.3
>C16-C21 Aromatics	ARO-C16-21	2000	470	20000	1400	<6.89	73.3	<6.07
>C21-C35 Aromatics	ARO-C21-35	2000	3700	20000	11000	171	772	<18.3
Sum Aromatic Fraction	—	—	—	—	—	194.81	862.59	193.58
TPH C6-C35	—	See Calculated TPH _{Mix} PCLs Below				446.24	8,708.77	445.65
Residential Tier I PCLs (mg/kg) ^a	TotSoil _{Comb} TPH _{Mix}					4,600	22400*	5,530
	GWSoil _{Ing} TPH _{Mix}					NA	NA	NA
Commercial/Industrial Tier I PCLs (mg/kg) ^a	TotSoil _{Comb} TPH _{Mix}					52,200	226,000	24,400
	GWSoil _{Ing} TPH _{Mix}					NA	NA	NA

Notes:

* TCEQ guidance states that the calculated PCL can not be greater than 10,000 mg/kg

ft-bgs - feet below ground surface

TotSoil_{Comb} PCL - TRRP Tier 1 PCL for COC exposure through a combination of soil ingestion, dermal contact, inhalation, and vegetation consumption

GWSoil_{Ing} PCL - TRRP Tier 1 PCL for a soil COC leaching into groundwater that could be ingested

RAL - Residential assessment level (critical PCL)

^aCalculated 0.5-acre PCLs utilizing the TCEQ TRRP Tier 1 TPH PCL Calculator (v 2.0 - 12/2016) for TCEQ Method 1006 Data

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

Bold Highlighted Text Indicates PCL Exceedance (Note TCEQ Policy Limits TPH Maximums to 10,000 mg/kg)

**TABLE 1E
SOIL PAH DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification: Sample Depth Interval (ft-bgs): Lab Sample ID: Sample Collection Date: Polycyclic Aromatic Hydrocarbons (PAH) by EPA Method 8270C	CAS Number	Tier 1 Residential PCLs		Tier 1 Commercial/Industrial PCLs		PST ALs	T-2 TMW-02	T-2 TMW-04
							2-4	12-14
		TotSoil _{Comb}	GWSoil _{Ing}	TotSoil _{Comb}	GWSoil _{Ing}			
							9/25/2020	9/25/2020
		mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg
Acenaphthene	83-32-9	3000	240	37000	710	34.1	<0.00427	<0.00283
Acenaphthylene	208-96-8	3800	410	37000	1200	2.04	0.00658	<0.00319
Anthracene	120-12-7	18000	6900	190000	21000	54.7	0.00955	<0.00390
Benzo(a)anthracene	56-55-3	41	130	170	290	0.877	0.0276	<0.00388
Benzo(a)pyrene	50-32-8	4.1	7.6	17	7.6	0.0877	0.0289	<0.00436
Benzo(b)fluoranthene	205-99-2	42	440	170	980	0.877	0.0424	<0.00409
Benzo(g,h,i)perylene	191-24-2	1800	46000	19000	140000	0.824	0.0233	<0.00517
Benzo(k)fluoranthene	207-08-9	420	4500	1700	10000	1.35	0.0128	<0.00355
Chrysene	218-01-9	4100	11000	17000	25000	1.24	0.0386	0.0207
Dibenz(a,h)anthracene	53-70-3	4	15	17	160	0.0877	<0.00490	<0.00491
Fluoranthene	206-44-0	2300	1900	25000	5700	25.5	0.0665	0.00638
Fluorene	86-73-7	2300	300	25000	890	30.2	0.00479 J	0.00706
Indeno(1,2,3-cd)pyrene	193-39-5	42	1300	170	2800	0.877	0.0169	<0.00473
Naphthalene	91-20-3	220	31	360	93	99.7	0.0149 J	0.00417 J
Phenanthrene	85-01-8	1700	420	19000	1200	28.2	0.0468	0.00824
Pyrene	129-00-0	1700	1100	19000	3300	10.3	0.0619	0.00658

Notes:

ft-bgs - feet below ground surface

TotSoil_{Comb} PCL - TRRP Tier 1 PCL for COC exposure through a combination of soil ingestion, dermal contact, inhalation, and vegetation consumption

GWSoil_{Ing} PCL - TRRP Tier 1 PCL for a soil COC leaching into groundwater that could be ingested

RAL - Residential assessment level (critical PCL)

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

Bold Highlighted Text Indicates Critical PST AL Exceedance

TABLE 1F SOIL SPLP DATA TRACT 2 - YELLOW CAB HOUSTON, TEXAS

Sample Identification:	CAS Number	Tier I Residential ^{GW} GW _{Ing} PCL	Tier I Commercial/ Industrial ^{GW} GW _{Ing} PCL	<i>Critical PCL</i>	T-2 TMW-01	T-2 TMW-02	
Sample Depth Interval (ft-bgs):					2-4	2-4	
Sample Collection Date:					9/25/2020	9/25/2020	
SPLP Metals by EPA Method 1312			mg/L	mg/L	mg/L		Result mg/L
Arsenic		7440-38-2	0.01	0.01	0.01	0.00899 J	<0.00336
Lead	7439-92-1	0.015	0.015	0.015	0.00911 J	<0.00183	

Notes:

NE - Not Established

<: Analyte not detected above sample detection limit

J - Analyte detected above sample quantitation limit but below method quantitation limit

^{GW}GW_{Ing} PCL: TRRP Tier 1 PCL for ingestion of COCs in Class 1 or 2 groundwater sources

Bold Highlighted Text Indicates Critical PCL Exceedance

**TABLE 2A
GROUNDWATER METALS DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	Tier 1 Residential PCLs		Tier 1 Commercial/Industrial PCLs		RAL	T-2 TMW-01	T-2 TMW-02	T-2 TMW-03	T-2 TMW-04	T-2 TMW-05	T-2 TMW-06	T-2 TMW-07	T-2 TMW-08	T-2 TMW-09	T-2 TMW-10	T-2 MW-1	T-2 MW-3
		GW _{ing}	Air GW _{Inh-V}	GW _{ing}	Air GW _{Inh-V}													
Sample Collection Date:							09/25/2020	09/25/2020	09/25/2020	09/28/2020	09/28/2020	09/28/2020	09/28/2020	09/28/2020	09/28/2020	09/28/2020	10/1/2020	10/1/2020
RCRA 8 Metals by EPA Method 6020		mg/L	mg/L	mg/L	mg/L	mg/L	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)
Arsenic	7440-38-2	0.01	—	0.01	—	0.01	0.00105 J	0.00274 J	0.00271 J	0.00651	0.000874 J	0.00130 J	0.00176 J	0.00290 J	0.00309 J	0.000605 J	0.0162	0.00112 J
Barium	7440-39-3	2	—	2	—	2	0.115	0.433	0.208	0.680	0.0791	0.0602	0.0699	0.302	0.172	0.119	0.225	0.121
Cadmium	7440-43-9	0.005	—	0.005	—	0.005	<0.000147	0.00173 J	<0.000147	0.000174 J	<0.000147	<0.000147	<0.000147	<0.000147	<0.000147	<0.000147	<0.000147	<0.000147
Chromium	7440-47-3	0.1	—	0.1	—	0.1	0.00243 J	0.00400 J	0.0146	0.00779	0.00111 J	0.000631 J	0.000891 J	0.00512	0.0262	<0.000525	<0.000525	0.000759 J
Chromium, Hexavalent	18540-29-9	0.1	—	0.1	—	0.1	<0.00239	<0.00239	—	—	—	—	—	—	—	—	—	—
Lead	7439-92-1	0.015	—	0.015	—	0.015	0.000739 J	0.0110	0.00633	0.00688	0.000369 J	0.000294 J	<0.000152	0.00554	0.0118	<0.000152	0.000374 J	0.00146 J
Selenium	7782-49-2	0.05	—	0.05	—	0.05	<0.000454	<0.000454	0.000489 J	0.00142 J	<0.000454	<0.000454	<0.000454	<0.000454	0.000600 J	<0.000454	<0.000454	<0.000454
Silver	7440-22-4	0.12	—	0.37	—	0.12	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251	<0.000251
Mercury	7439-97-6	0.002	7.3	0.002	10	0.002	0.000104 J	0.000295	<0.0000263	0.000240 J	<0.0000263	0.0000920 J	0.0000580 J	0.0000550 J	0.0000660 J	0.0000290 J	<0.0000263	0.0000320 J

Notes:

RAL - Residential assessment level (critical PCL)

Air GW_{Inh-V} PCL - TRRP Tier 1 PCL for inhalation of volatile COCs from Class 1, 2, or 3 groundwater sources

GW_{ing} PCL - TRRP Tier 1 PCL for ingestion of COCs in Class 1 or 2 groundwater sources

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

Bold Highlighted Text Indicates PCL Exceedance

**TABLE 2C
GROUNDWATER TPH 1005 DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	Tier 1 Residential PCLs		Tier 1 Commercial/Industrial PCLs		RAL	T-2 TMW-01	T-2 TMW-02	T-2 TMW-03	T-2 TMW-04	T-2 TMW-05	T-2 TMW-06	T-2 TMW-07	T-2 TMW-08	T-2 TMW-09	T-2 TMW-10	T2-MW-1	T2-MW-3	MW-06	MW-07
		GW _{ing}	Air _{inh-v}	GW _{ing}	Air _{inh-v}		9/25/2020	9/25/2020	9/25/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	10/1/2020	10/1/2020	11/23/2020
Sample Collection Date:							9/25/2020	9/25/2020	9/25/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	10/1/2020	10/1/2020	11/23/2020	11/23/2020
Hydrocarbons (TPH) by TCEQ Method 1005		mg/L	mg/L	mg/L	mg/L	mg/L	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)	Results (mg/L)
TPH (C6-C12)	TPH-1005-1	0.98	1800	2.9	2500	0.98	<0.849	<0.842	<0.881	1.41 J	<0.848	<0.880	<0.829	<0.827	<0.846	<0.851	0.962 J	<0.840	<0.22	<0.22
TPH (>C12-C28)	TPH-1005-2	0.98	7500	2.9	10000	0.98	2.19 J	23.3	<0.860	167	<0.827	<0.858	<0.808	<0.807	<0.825	<0.830	<0.813	<0.819	<0.24	<0.24
TPH (>C28-C35)	TPH-1005-4	0.98	7500	2.9	10000	0.98	1.36 J	14.3	<0.860	39.2	<0.827	<0.858	<0.808	<0.807	<0.825	<0.830	<0.813	<0.819	0.14	<0.12
TPH (C6-C35)	-	-	-	-	-	-	3.55 J	37.6	<0.860	208	<0.827	<0.858	<0.808	<0.807	<0.825	<0.830	0.962 J	<0.819	0.14	<0.12

Notes:

RAL - Residential assessment level (critical PCL)

Air_{inh-v} PCL - TRRP Tier 1 PCL for inhalation of volatile COCs from Class 1, 2, or 3 groundwater sources

GW_{ing} PCL - TRRP Tier 1 PCL for ingestion of COCs in Class 1 or 2 groundwater sources

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

Bold Highlighted Text Indicates PCL Exceedance Via 1006 Fractionation

Bold Text Indicates Screening PCL or PST Screening Exceedance But Not Mixture or PAH Specific Values

**TABLE 2D
GROUNDWATER TPH 1006 DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	Tier I Residential		Tier 1 Commercial/Industrial		Boiling Point Fraction	T-2 TMW-02	
		^{GW} GW _{Ing} PCL	^{Air} GW _{Inh-V} PCL	^{GW} GW _{Ing} PCL	^{Air} GW _{Inh-V} PCL		6/12/2019	
Sample Collection Date:							Results (mg/L)	
Total Petroleum Hydrocarbons (TPH) by TCEQ Method 1006		mg/L	mg/L	mg/L	mg/L	mg/L		
C6 Aliphatics	ALI-C6-GT53	1.5	110	4.4	150	1.5	<0.238	
>C6-C8 Aliphatics	ALI-C6-8-GT53	1.5	71	4.4	99	1.5	<0.238	
>C8-C10 Aliphatics	ALI-C8-10	2.4	33	7.3	46	2.4	<0.261	
>C10-C12 Aliphatics	ALI-C10-12	2.4	22	7.3	31	2.4	<0.249	
>C12-C16 Aliphatics	ALI-C12-16	2.4	5.1	7.3	7.1	2.4	<0.311	
>C16-C21 Aliphatics	ALI-C16-21	49	—	150	—	49	2.22	
>C21-C35 Aliphatics	ALI-C21-35	49	—	150	—	49	39.8	
Sum Aliphatic Fraction	—	—	—	—	—	0	43.32	
>C7-C8 Aromatics	ARO-C7-8	2.4	29000	7.3	41000	2.4	<0.238	
>C8-C10 Aromatics	ARO-C8-10	0.98	1800	2.9	2500	0.98	<0.261	
>C10-C12 Aromatics	ARO-C10-12	0.98	4300	2.9	6000	0.98	<0.249	
>C12-C16 Aromatics	ARO-C12-16	0.98	7500	2.9	10000	0.98	<0.311	
>C16-C21 Aromatics	ARO-C16-21	0.73	—	2.2	—	0.73	1.32	
>C21-C35 Aromatics	ARO-C21-35	0.73	—	2.2	—	0.73	15.5	
Sum Aromatic Fraction	—	—	—	—	—	0	17.88	
TPH C6-C35	—	See Calculated TPH _{Mix} PCLs Below						58.84
Residential Tier I PCLs (mg/L)^a	^{GW} GW _{Ing} TPH _{Mix}							2.77
Commercial/Industrial Tier I PCLs (mg/L)^a	^{GW} GW _{Ing} TPH _{Mix}							8.69

Notes:

RAL - Residential assessment level (critical PCL)

^{Air}GW_{Inh-V} PCL - TRRP Tier 1 PCL for inhalation of volatile COCs from Class 1, 2, or 3 groundwater sources

^{GW}GW_{Ing} PCL - TRRP Tier 1 PCL for ingestion of COCs in Class 1 or 2 groundwater sources

^aCalculated 0.5-acre PCLs utilizing the TCEQ TRRP Tier 1 TPH PCL Calculator (v 2.0 - 12/2016) for TCEQ Method 1006 Data

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

Bold Highlighted Text Indicates Critical PCL Exceedance

**TABLE 2E
GROUNDWATER PAH DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	Tier 1 Residential PCLs		Tier 1 Commercial/Industrial PCLs		PST ALs	T-2 TMW-02	T-2 TMW-04
		^{GW} GW _{Ing}	^{Air} GW _{Inh-V}	^{GW} GW _{Ing}	^{Air} GW _{Inh-V}			
		mg/L	mg/L	mg/L	mg/L		9/25/2020	9/28/2020
Polycyclic Aromatic Hydrocarbons (PAH) by EPA Method 8270C							Results (mg/L)	
Acenaphthene	83-32-9	1.5	—	4.4	—	2.19	0.000130 J	<0.000109
Acenaphthylene	208-96-8	1.5	—	4.4	—	2.19	0.0000886 J	<0.0000920
Anthracene	120-12-7	7.3	—	22	—	11	0.000115 J	<0.0000947
Benzo(a)anthracene	56-55-3	0.0091	3000	0.02	5000	0.000852	0.000272	<0.000147
Benzo(a)pyrene	50-32-8	0.0002	29	0.0002	41	0.002	0.000139 J	<0.0000624
Benzo(b)fluoranthene	205-99-2	0.0091	2400	0.02	4000	0.000852	0.000168	<0.0000777
Benzo(g,h,i)perylene	191-24-2	0.73	—	2.2	—	1.1	0.000116 J	0.000132 J
Benzo(k)fluoranthene	207-08-9	0.091	140000	0.2	240000	0.00852	<0.000102	<0.000127
Chrysene	218-01-9	0.91	860000	2	1000000	0.0852	0.000349	<0.000171
Dibenz(a,h)anthracene	53-70-3	0.0002	1500	0.002	2600	0.0002	<0.0000668	<0.0000831
Fluoranthene	206-44-0	0.98	—	2.9	—	1.46	0.000645	0.000172 J
Fluorene	86-73-7	0.98	—	2.9	—	1.46	0.000292	0.000238
Indeno(1,2,3-cd)pyrene	193-39-5	0.0091	14000	0.02	23000	0.000852	<0.0000803	<0.0000998
Naphthalene	91-20-3	0.49	320	1.5	440	0.73	0.000638	0.00125
Phenanthrene	85-01-8	0.73	—	2.2	—	1.1	0.00102	<0.0000930
Pyrene	129-00-0	0.73	—	2.2	—	1.1	0.000667	0.000337

Notes:

RAL - Residential assessment level (critical PCL)

^{Air}GW_{Inh-V} PCL - TRRP Tier 1 PCL for inhalation of volatile COCs from Class 1, 2, or 3 groundwater sources

^{GW}GW_{Ing} PCL - TRRP Tier 1 PCL for ingestion of COCs in Class 1 or 2 groundwater sources

< - Analyte concentration reported below sample detection limit (non-detect)

J - Analyte concentration reported above sample detection limit but below method quantitation limit (estimate)

Bold Highlighted Text Indicates Critical PCL or AL Exceedance

**TABLE 3
SOIL GAS DATA
TRACT 2 - YELLOW CAB
HOUSTON, TEXAS**

Sample Identification:	CAS Number	Target Sub-Slab and Near-Source Gas Concentration*		T-2 SGS-01	T-2 SGS-02	T-2 SGS-03	T-2 SGS-04	T-2 SGS-05	T-2 SGS-06
Sample Depth (ft-bgs):				4-5	4-5	4-5	4-5	4-5	4-5
Sample Collection Date:		Residential	Commercial	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020	9/28/2020
Volatile Organic Compounds by Method TO-15		ug/m ³	ug/m ³	Results (ug/m ³)	Results (ug/m ³)	Results (ug/m ³)	Results (ug/m ³)	Results (ug/m ³)	Results (ug/m ³)
Benzene	71-43-2	120	524	33.4	63.1	66100	21.7	30.1	41.8
1,1-Dichloroethene	75-35-4	6,950	29,200	<0.991	<0.991	<0.991	<0.991	<0.991	<0.991
cis-1,2-Dichloroethene	156-59-2	NE	NE	<0.991	<0.991	<0.991	<0.991	<0.991	4.99
trans-1,2-Dichloroethene	156-60-5	NE	NE	<0.991	<0.991	<0.991	<0.991	<0.991	<0.991
Ethylbenzene	100-41-4	374	1,640	10.6	9.98	30700	9.90	10.9	9.12
MTBE	1634-04-4	3,600	15,700	<0.899	<0.899	85300	<0.899	<0.899	<0.899
Naphthalene	91-20-3	28	120	1.57 J	1.52 J	3.77 J	1.89 J	12.9	<1.31
Tetrachloroethylene	127-18-4	1,390	5,840	<1.69	<1.69	<1.69	<1.69	<1.69	7.59
Toluene	108-88-3	174,000	730,000	62.8	103	357	110	49.9	79.6
Trichloroethylene	79-01-6	70	292	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34
Vinyl Chloride	75-01-4	56	929	<0.639	2.15 J	6.41	<0.639	1.05 J	4.73
m&p-Xylene	179601-23-1	3,480	14,600	13.4	13.8	445	10.2	15.9	11.3
o-Xylene	95-47-6	3,480	14,600	9.64	9.55	206	7.42	14.5	7.99

Notes:

NE - Not Established

ft-bgs: feet below ground surface

Bold Highlighted Text Indicates Target Concentration Exceedance

*Calculated at a Target Risk of 1.00E-5 using Vapor Intrusion Screening Level (VISL) Calculator

APPENDIX A
SOIL BORING LOGS



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 SB-01

BORING LOCATION: LATITUDE: **29.789583** LONGITUDE: **-95.353518**

DATE INITIATED:
09/24/2020

DATE COMPLETED:
09/24/2020

DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

TOTAL DEPTH (ft): **25**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER:
 STATIC: **N/A**
 INITIAL: **10**

CASING/SCREEN TYPE: **N/A** SCREEN SLOT SIZE: **N/A**

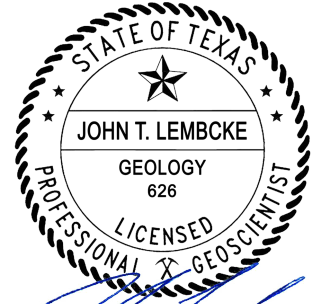
CASING INTERVAL (ft): **N/A** SCREEN INTERVAL (ft): **N/A**

BORING DIAMETER:
2.25"

APPROVED BY: **John Lembcke**

LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **N/A**



DEPTH (feet)	SAMPLES			PID Reading	SURFACE COMPLETION: None	DRUMS (SO/GW): 0/0	GROUND SURFACE ELEVATION (ft): N/A	TOC ELEVATION (ft):	WELL INSTALLATION DETAILS	GWL
	Sample No.	Sample	Rec. (%)							
0										
0.1					Asphalt					
2					SANDY CLAY (CL): Brown sandy clay, medium plasticity					
4	T-2 SB-01 (2-4)		80		CLAY (CH): Black clay, high plasticity, lighten with depth					
6										
8										
10					CLAY (CH): Orange/gray clay, high plasticity, rocks at 7'-7.5' bgs, moist at 10'					▽
12										
14										
16										
18					SANDY CLAY (CL): Gray sandy clay, medium plasticity, moist at 17'-19' bgs					
20										
22					CLAY (CH): Red/gray clay, high plasticity					
24	T-2 SB-01 (23-25)									
26										

Legends/Notes:

Boring terminated at 25 feet bgs.

Soil Stratigraphy

- Asphalt
- Sandy Clay
- Clay

Depth to Water (GWL)

- Static
- Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 SB-02

BORING LOCATION: LATITUDE: **29.789448** LONGITUDE: **-95.353259**

DATE INITIATED:
09/24/2020

DATE COMPLETED:
09/24/2020

DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

TOTAL DEPTH (ft): **25**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: STATIC: **N/A**
INITIAL: **13**

CASING/SCREEN TYPE: **N/A** SCREEN SLOT SIZE: **N/A**

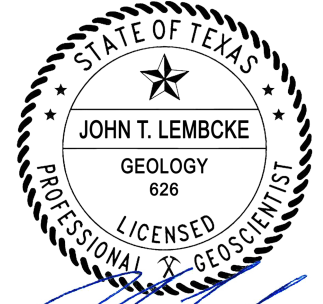
CASING INTERVAL (ft): **N/A** SCREEN INTERVAL (ft): **N/A**

BORING DIAMETER:
2.25"

APPROVED BY: **John Lembcke**

LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **N/A**



DEPTH (feet)	SAMPLES			PID Reading	SURFACE COMPLETION: None	DRUMS (SO/GW): 0/0	GROUND SURFACE ELEVATION (ft): N/A	TOC ELEVATION (ft): N/A	WELL INSTALLATION DETAILS	GWL
	Sample No.	Sample Rec. (%)	DESCRIPTION							
0			Asphalt							
2			SANDY CLAY (CL): Black sandy clay, medium plasticity, odor	30.0					N/A	N/A
4			CLAY (CH): Black clay, high plasticity, odor, white sand at 3'-3.5' bgs	11.0						
6				11.0						
8				1.0						
10	T-2 SB-02 (8-10)		CLAY (CH): Orange/gray clay, high plasticity, calcareous inclusions at 7'-9' bgs, moist at 13'-14' bgs, odor	487.0						
12				72.0						
14				38.0						▽
16				38.0						
18				50.0						
20			CLAY (CH): Red/gray clay, high plasticity, calcareous inclusions at 17'-21' bgs	17.0						
22				8.0						
24	T-2 SB-02 (23-25)			6.0						
26				2.0						

Legends/Notes:

Boring terminated at 25 feet bgs.

Soil Stratigraphy

- Asphalt
- Sandy Clay
- Clay

Depth to Water (GWL)

- Static
- Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-01

BORING LOCATION: LATITUDE: **29.78937** LONGITUDE: **-95.35391**

DATE INITIATED:
09/25/2020

DATE COMPLETED:
09/25/2020

DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

TOTAL DEPTH (ft): **25**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft)
 STATIC: **N/A**
 INITIAL: **14.5**

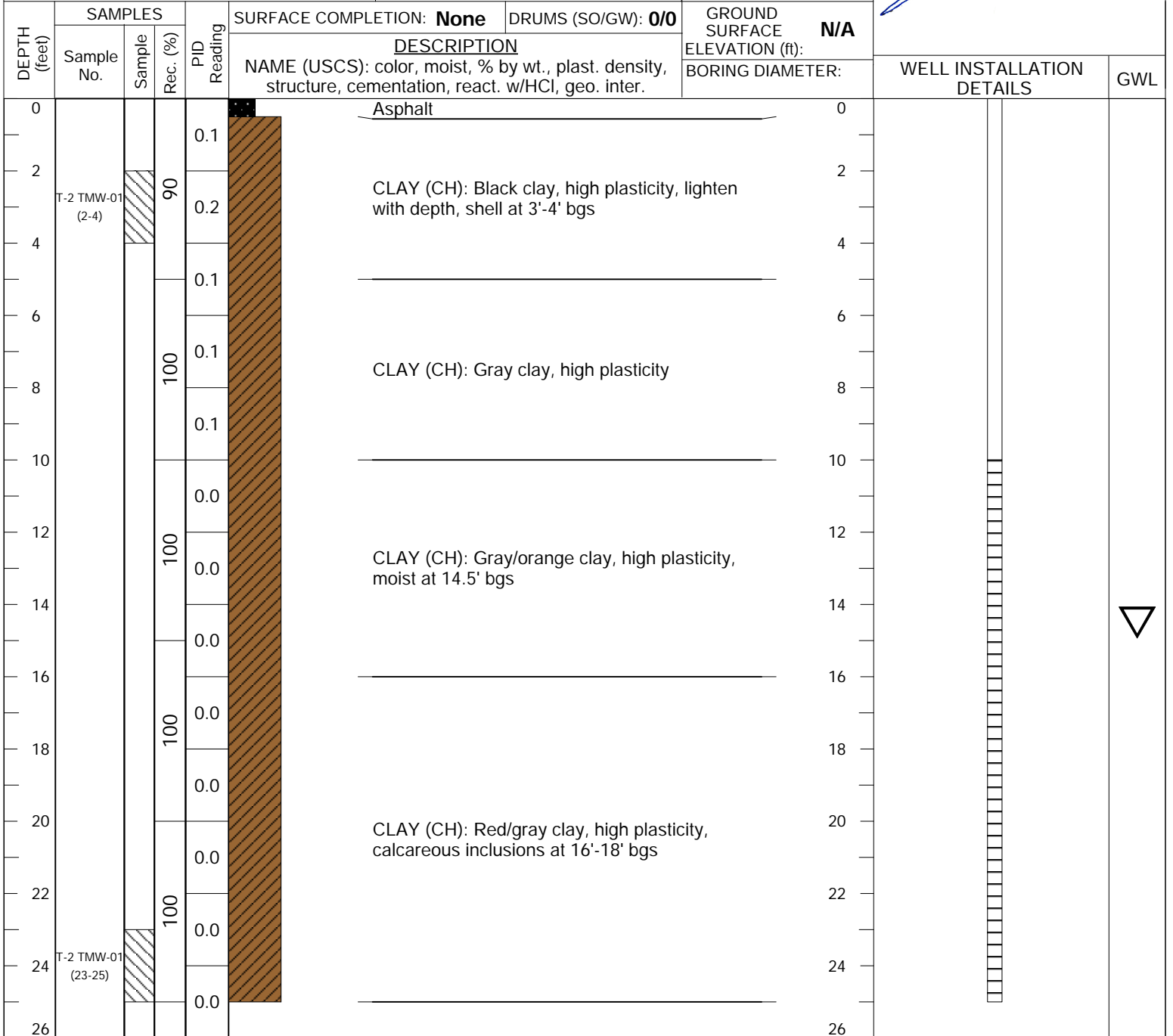
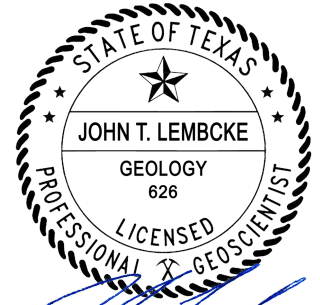
CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

TOC ELEVATION (ft):
N/A

CASING INTERVAL (ft): **0-10** SCREEN INTERVAL (ft): **10-25**

APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **1.00"**



Legends/Notes:
Boring terminated at 25 feet bgs.

Soil Stratigraphy

- Asphalt
- Clay

Well Construction Details

- Casing
- Screen

Depth to Water (GWL)

- Static
- Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-02

BORING LOCATION: LATITUDE: **29.78924** LONGITUDE: **-95.35389**

DATE INITIATED:
09/25/2020

DATE COMPLETED:
09/25/2020

DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

TOTAL DEPTH (ft): **25**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft)
 STATIC: **N/A**
 INITIAL: **14**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

CASING INTERVAL (ft): **0-10** SCREEN INTERVAL (ft): **10-25**

TOC ELEVATION (ft):
N/A

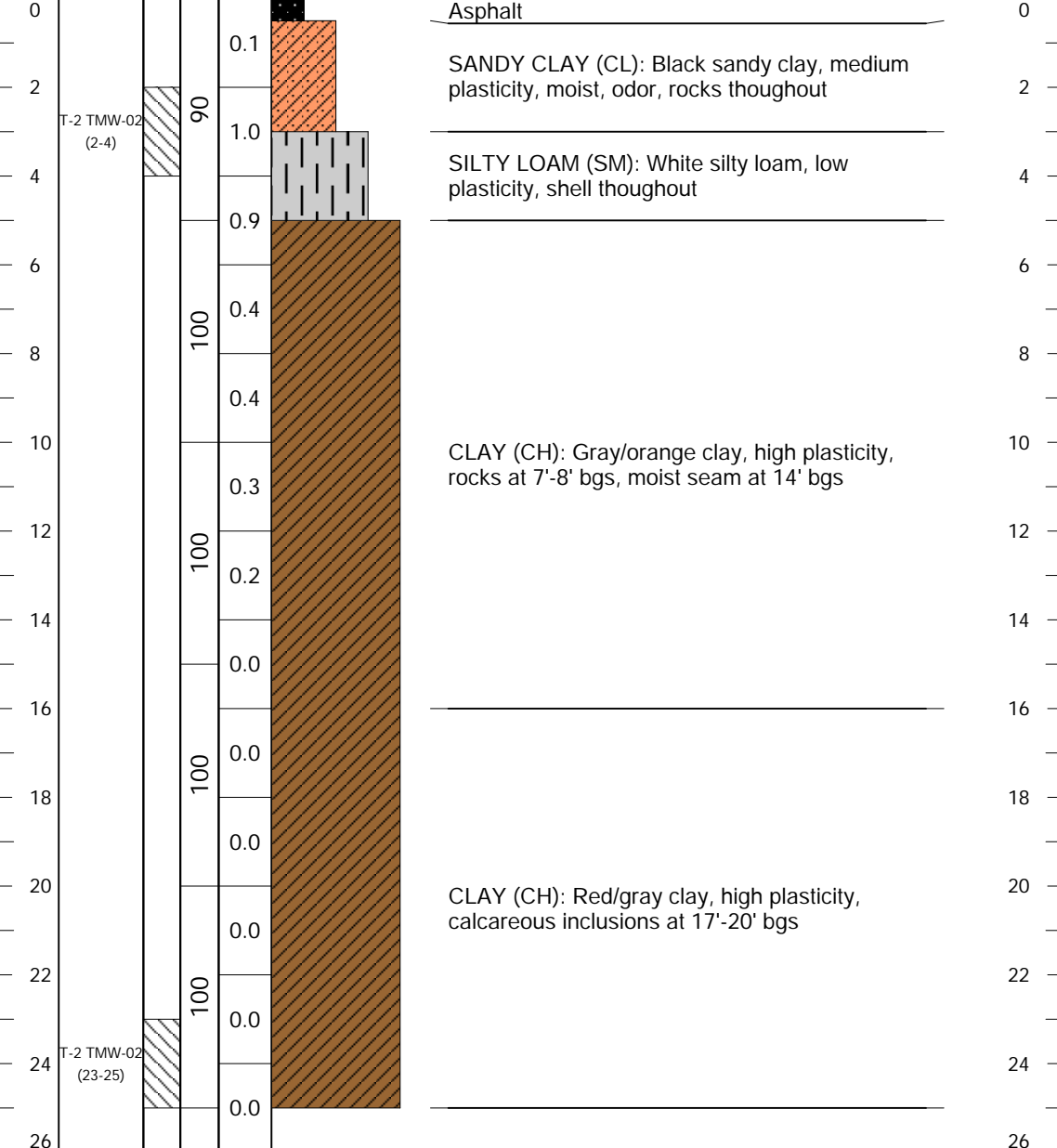
APPROVED BY: **John Lembcke**

LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **1.00"**



SAMPLES: SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0**
 GROUND SURFACE ELEVATION (ft): **N/A**
 BORING DIAMETER:



WELL INSTALLATION DETAILS



Legends/Notes:

Boring terminated at 25 feet bgs.

Soil Stratigraphy

- Asphalt
- Silty Loam
- Clay
- Sandy Clay

Well Construction Details

- Casing
- Screen

Depth to Water (GWL)

- Static
- Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-03

BORING LOCATION: LATITUDE: **29.78926** LONGITUDE: **-95.35293**

DATE INITIATED:
09/25/2020

DATE COMPLETED:
09/25/2020

DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

TOTAL DEPTH (ft): **25**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft)
 STATIC: **N/A**
 INITIAL: **18**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

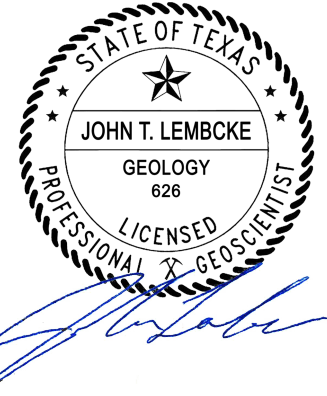
CASING INTERVAL (ft): **0-10** SCREEN INTERVAL (ft): **10-25**

TOC ELEVATION (ft):
N/A

APPROVED BY: **John Lembcke**

LOGGED BY: **Colton Beall**

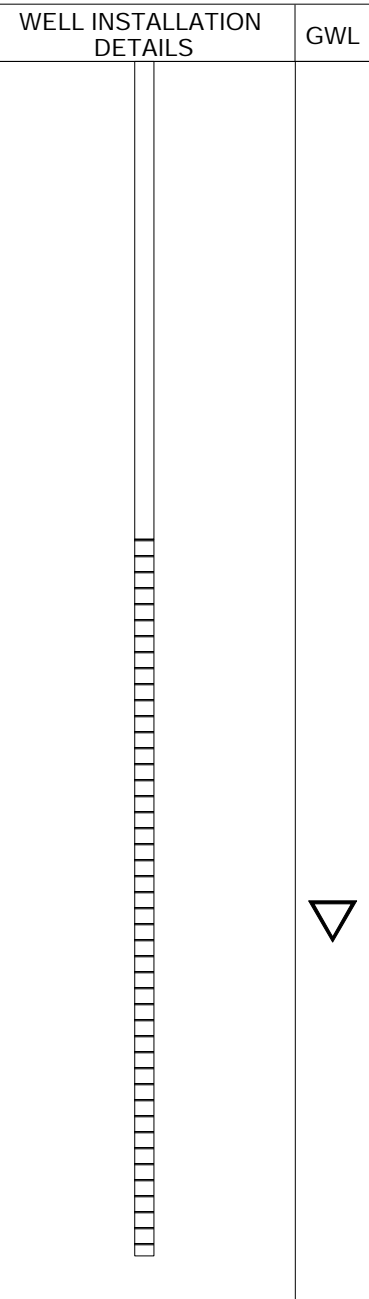
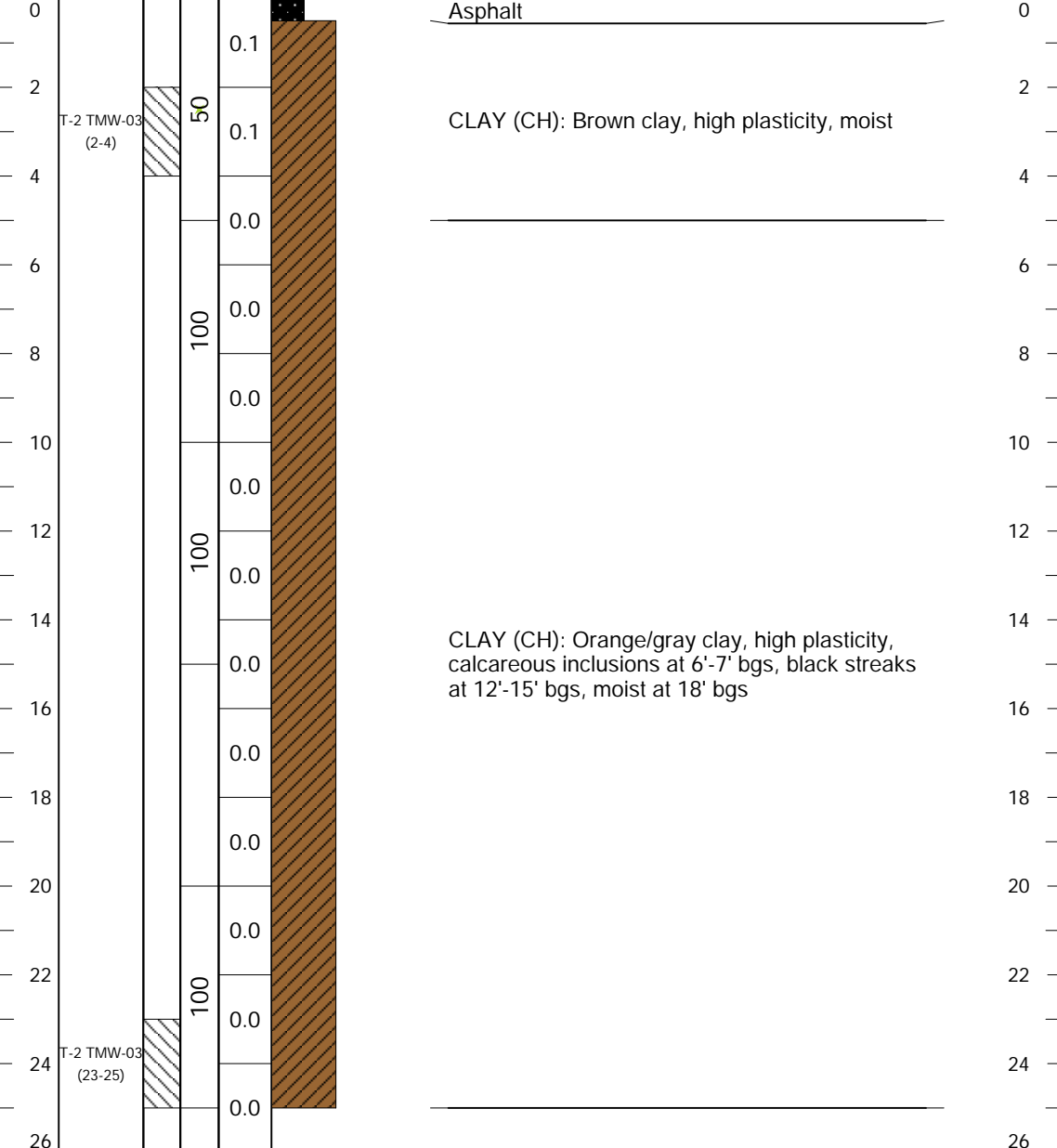
SCREEN/CASING DIAMETER: **1.00"**



SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0**

GROUND SURFACE ELEVATION (ft): **N/A**

BORING DIAMETER:



Legends/Notes:
 Boring terminated at 25 feet bgs.

Soil Stratigraphy
 Asphalt
 Clay

Well Construction Details
 Casing
 Screen

Depth to Water (GWL)
 Static
 Initial

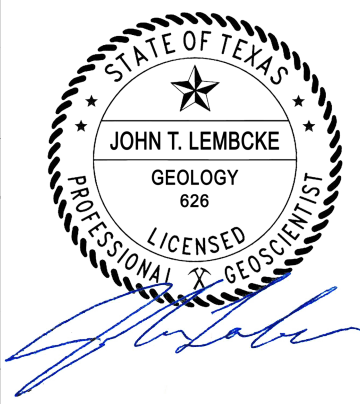


PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-04

BORING LOCATION: LATITUDE: **29.78945** LONGITUDE: **-95.35275**

DATE INITIATED: **09/28/2020**
 DATE COMPLETED: **09/28/2020**
 TOTAL DEPTH (ft): **24**



DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft) STATIC: **N/A**
 INITIAL: **13.5**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

CASING INTERVAL (ft): **0-9** SCREEN INTERVAL (ft): **9-24**

TOC ELEVATION (ft): **N/A**

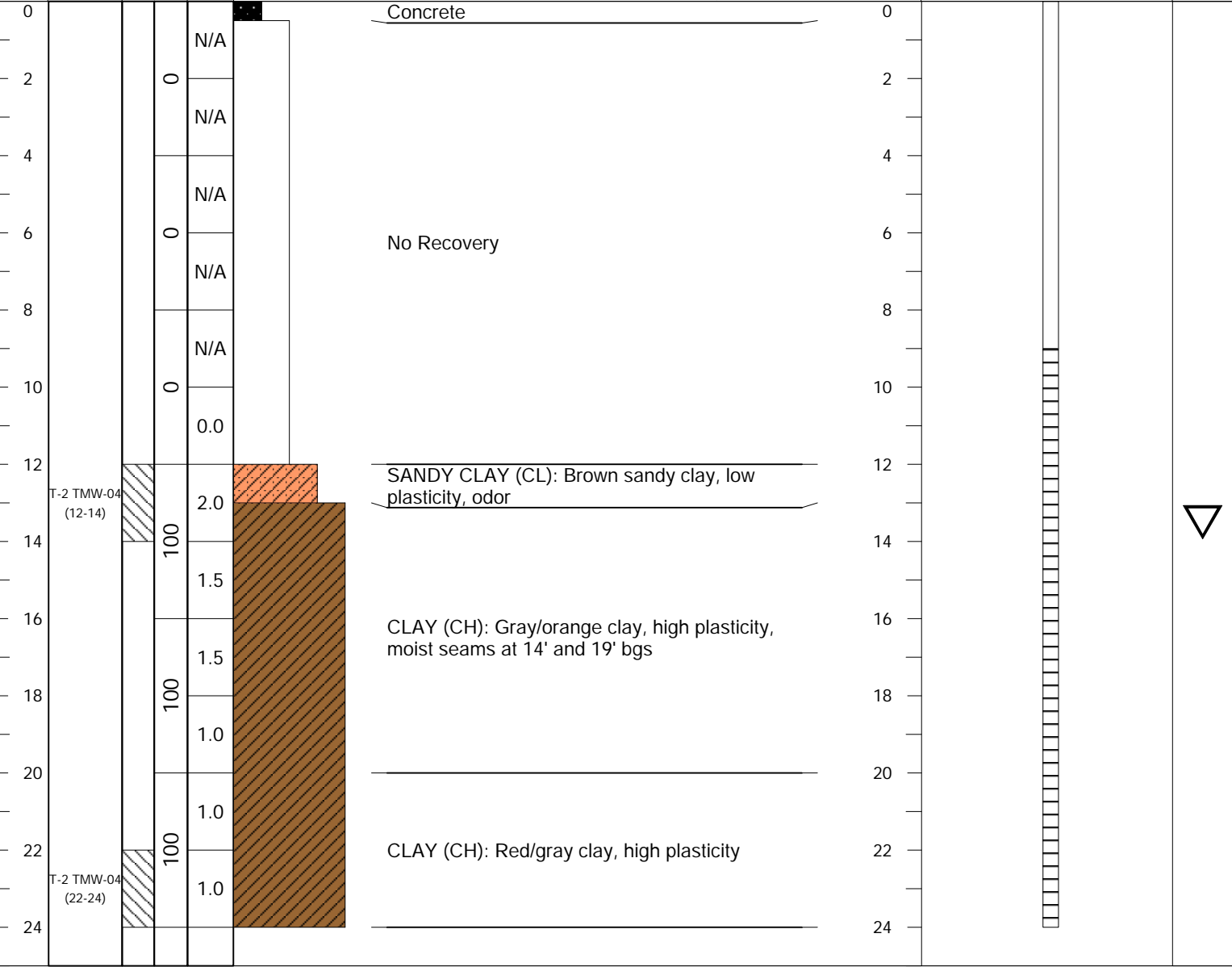
APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **1.00"**

SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0**
 DESCRIPTION
 NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.

GROUND SURFACE ELEVATION (ft): **N/A**
 BORING DIAMETER:

WELL INSTALLATION DETAILS



Legends/Notes:

Soil Stratigraphy

- Concrete
- Sandy Clay
- Clay

Well Construction Details

- Casing
- Screen

Depth to Water (GWL)

- Static
- Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-05

BORING LOCATION: LATITUDE: **29.78965** LONGITUDE: **-95.35254**

DATE INITIATED: **09/28/2020**
 DATE COMPLETED: **09/28/2020**
 TOTAL DEPTH (ft): **24**



DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER (ft):
 STATIC: **N/A**
 INITIAL: **18**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

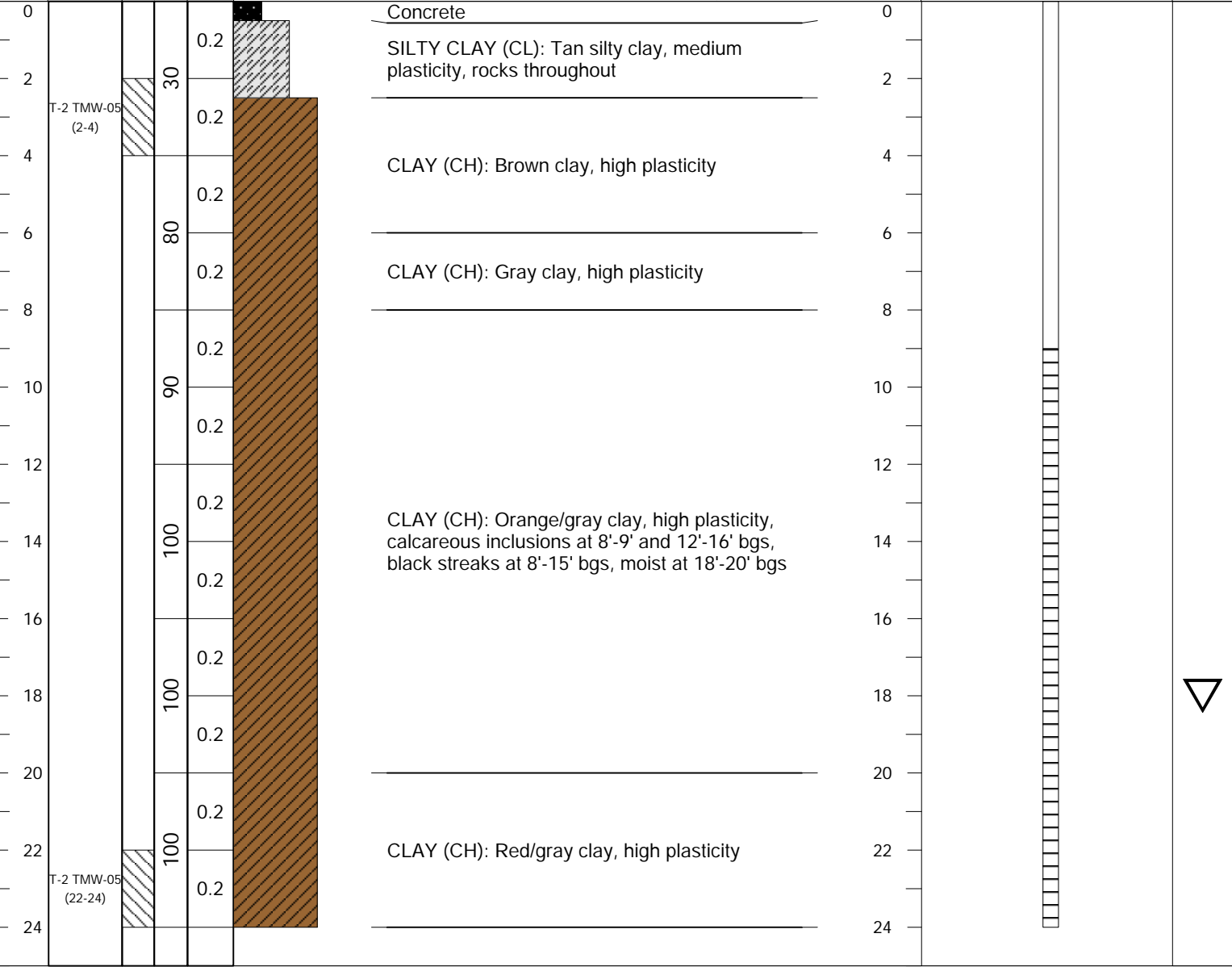
CASING INTERVAL (ft): **0-9** SCREEN INTERVAL (ft): **9-24**

TOC ELEVATION (ft): **N/A**

APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **1.00"**

SAMPLES: SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0**
 GROUND SURFACE ELEVATION (ft): **N/A**
 BORING DIAMETER: **N/A**



Legends/Notes:

Boring terminated at 24 feet bgs.	Concrete	Silty Clay	Casing	Static
	Clay		Screen	Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-06

BORING LOCATION: LATITUDE: **29.78946** LONGITUDE: **-95.35254**

DATE INITIATED: **09/28/2020**
 DATE COMPLETED: **09/28/2020**
 TOTAL DEPTH (ft): **24**



DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft) STATIC: **N/A**
 INITIAL: **18**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

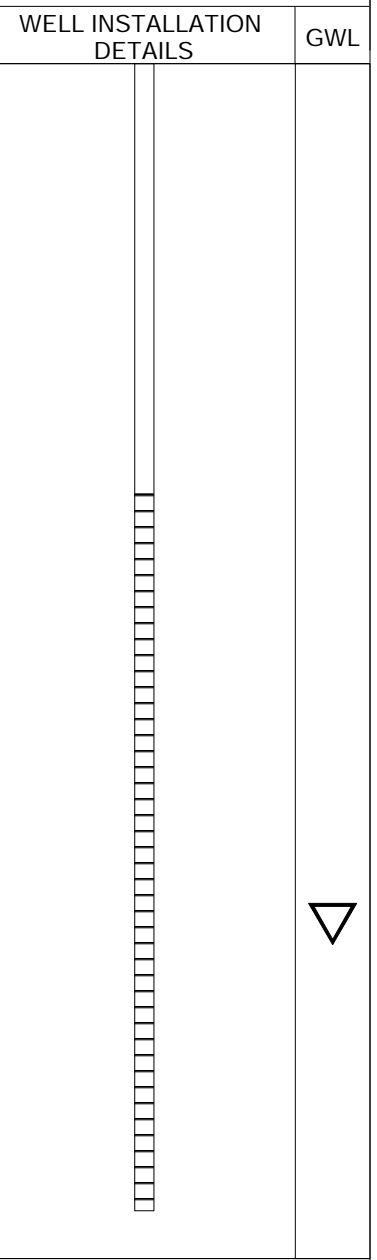
CASING INTERVAL (ft): **0-9** SCREEN INTERVAL (ft): **9-24**

TOC ELEVATION (ft): **N/A**
 SCREEN/CASING DIAMETER: **1.00"**

APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0** GROUND SURFACE ELEVATION (ft): **N/A**
 BORING DIAMETER: **N/A**

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
	Sample No.	Sample Rec. (%)		
0				Concrete
0.6				SILTY CLAY (CL): Tan silty clay, medium plasticity, rocks throughout
2		20		CLAY (CH): Brown clay, high plasticity
4				
6		40		CLAY (CH): Gray clay, high plasticity
8				
10		90		
12				
14		100		CLAY (CH): Orange/gray clay, high plasticity, calcareous inclusions at 14'-16' bgs, black streaks at 12'-14' bgs, moist at 18'-19' bgs
16				
18		100		
20				
22		100		CLAY (CH): Red/gray clay, high plasticity, moist at 21'-22' bgs
24				



Legends/Notes:

Boring terminated at 24 feet bgs.	Concrete	Silty Clay	Casing	Static
	Clay		Screen	Initial

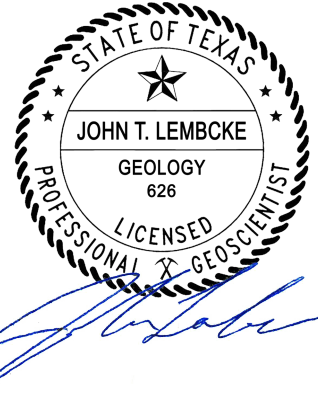


PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-07

BORING LOCATION: LATITUDE: **29.78929** LONGITUDE: **-95.35253**

DATE INITIATED: **09/28/2020**
 DATE COMPLETED: **09/28/2020**
 TOTAL DEPTH (ft): **24**



DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft) STATIC: **N/A**
 INITIAL: **17**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

CASING INTERVAL (ft): **0-9** SCREEN INTERVAL (ft): **9-24**

TOC ELEVATION (ft): **N/A**
 SCREEN/CASING DIAMETER: **1.00"**

APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

GROUND SURFACE ELEVATION (ft): **N/A**
 BORING DIAMETER:

DEPTH (feet)	SAMPLES		PID Reading	SURFACE COMPLETION: None	DRUMS (SO/GW): 0/0	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	GROUND SURFACE ELEVATION (ft): N/A	WELL INSTALLATION DETAILS	GWL
	Sample No.	Sample Rec. (%)							
0						Concrete			
2		50	0.1			CLAY (CH): Black clay, high plasticity, moist			
4			0.1						
6		100	0.1						
8			0.1						
10		100	0.1						
12			0.1			CLAY (CH): Orange/gray clay, high plasticity, black streaks at 12'-14' bgs, moist at 17'-21' bgs			
14		100	0.1						
16			0.1						
18		100	0.1						
20			0.1						
22		100	0.1			CLAY (CH): Red/gray clay, high plasticity			
24			0.1						

Legends/Notes: Boring terminated at 24 feet bgs.

Concrete	Casing	Static
Clay	Screen	Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-08

BORING LOCATION: LATITUDE: **29.78957** LONGITUDE: **-95.35221**

DATE INITIATED: **09/28/2020**
 DATE COMPLETED: **09/28/2020**
 TOTAL DEPTH (ft): **24**



DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft) STATIC: **N/A**
 INITIAL: **17**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

TOC ELEVATION (ft): **N/A**

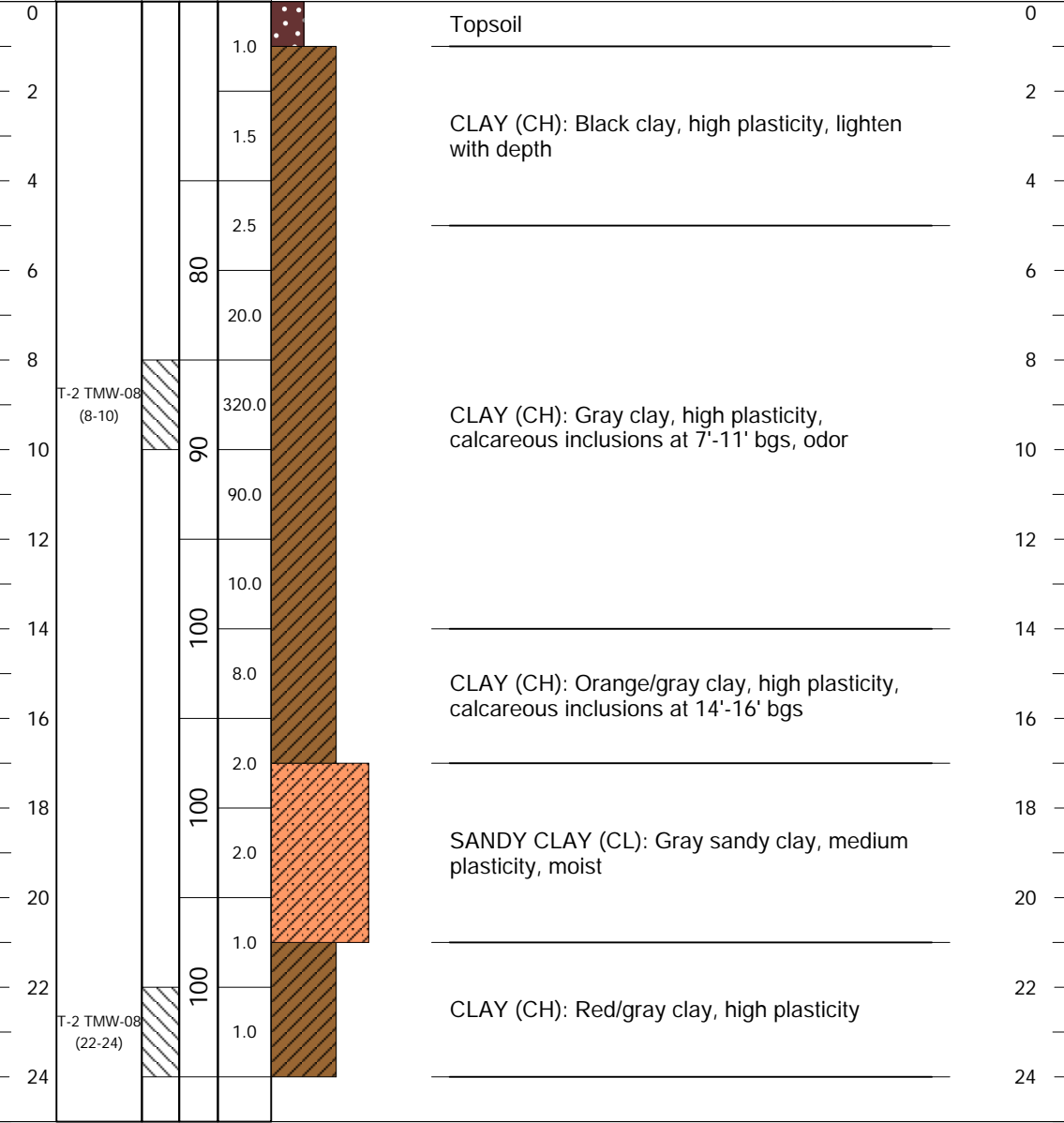
CASING INTERVAL (ft): **0-9** SCREEN INTERVAL (ft): **9-24**

SCREEN/CASING DIAMETER: **1.00"**

APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

GROUND SURFACE ELEVATION (ft): **N/A**

SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0**
 DESCRIPTION
 NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.



WELL INSTALLATION DETAILS

GWL

Legends/Notes:

Boring terminated at 24 feet bgs.
Soil Stratigraphy
 Topsoil (dotted pattern) Sandy Clay (diagonal lines) Clay (solid brown)

Well Construction Details

Casing (white box) Screen (hatched box)

Depth to Water (GWL)

Static (solid triangle) Initial (hollow triangle)

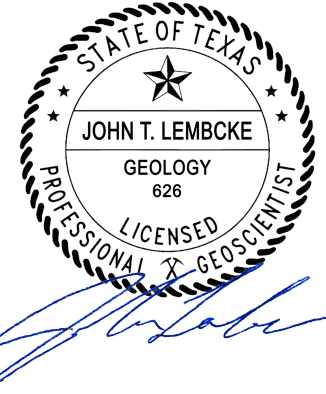


PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. **T-2 TMW-09**

BORING LOCATION: LATITUDE: **29.78941** LONGITUDE: **-95.35228**

DATE INITIATED: **09/28/2020**
 DATE COMPLETED: **09/28/2020**
 TOTAL DEPTH (ft): **24**



DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft) STATIC: **N/A**
 INITIAL: **18**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

CASING INTERVAL (ft): **0-9** SCREEN INTERVAL (ft): **9-24**

TOC ELEVATION (ft): **N/A**

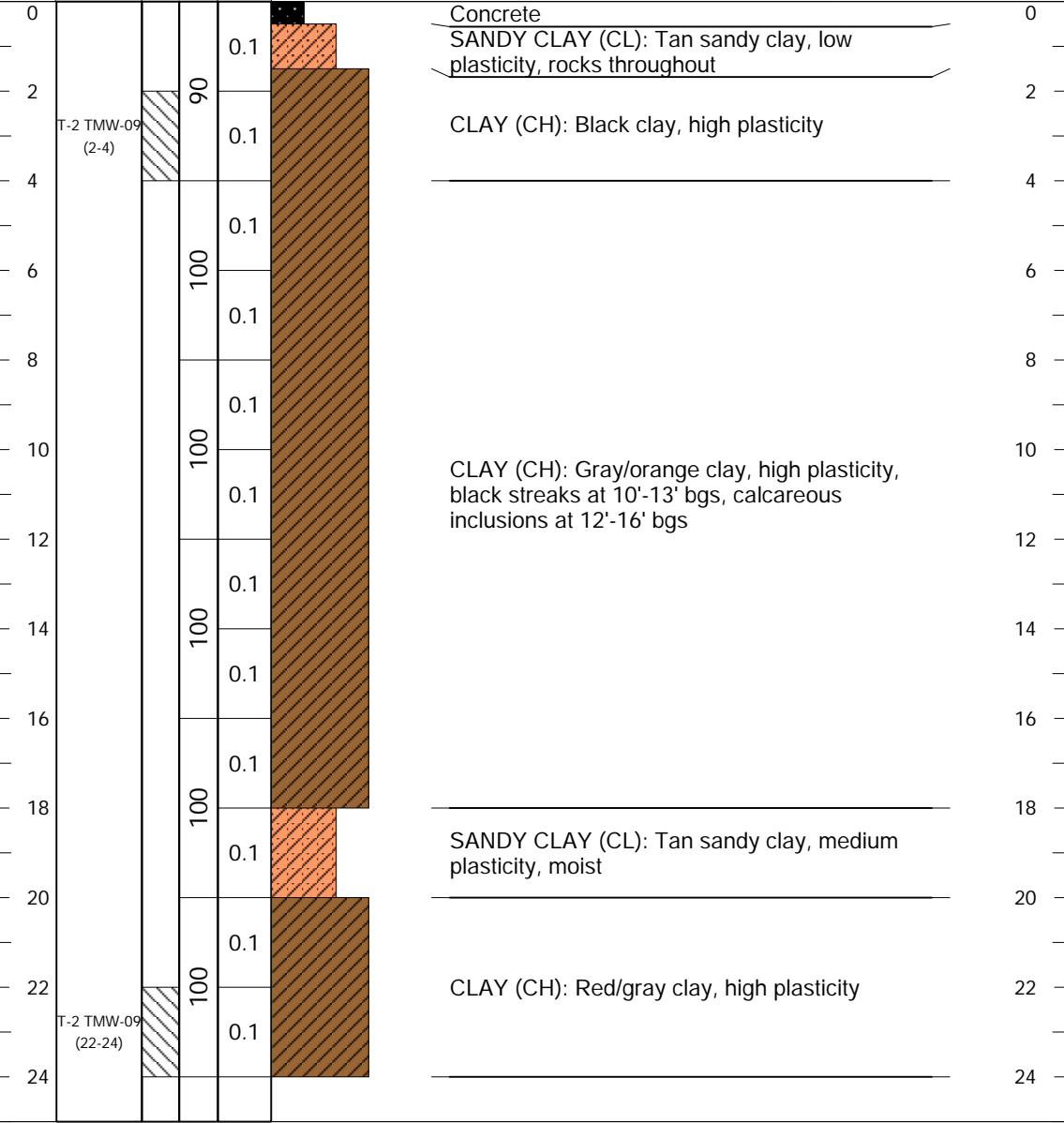
APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **1.00"**

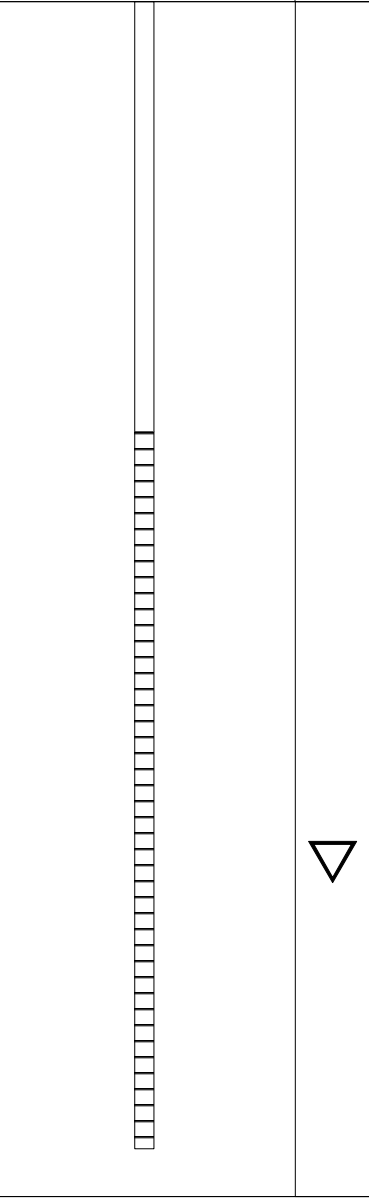
SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0**

GROUND SURFACE ELEVATION (ft): **N/A**

DEPTH (feet) SAMPLES: Sample No., Sample Rec. (%), PID Reading, DESCRIPTION: NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.



WELL INSTALLATION DETAILS



Legends/Notes:

Boring terminated at 24 feet bgs.

Soil Stratigraphy

- Concrete
- Sandy Clay
- Clay

Well Construction Details

- Casing
- Screen

Depth to Water (GWL)

- Static
- Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. T-2 TMW-10

BORING LOCATION: LATITUDE: **29.78924** LONGITUDE: **-95.35228**

DATE INITIATED: **09/28/2020**
 DATE COMPLETED: **09/28/2020**
 TOTAL DEPTH (ft): **24**



DRILLING CONTRACTOR: **Mathers Environmental Drilling, Inc**

DRILLING METHOD: **Direct-push technology**

DEPTH TO WATER: (ft) STATIC: **N/A**
 INITIAL: **18**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

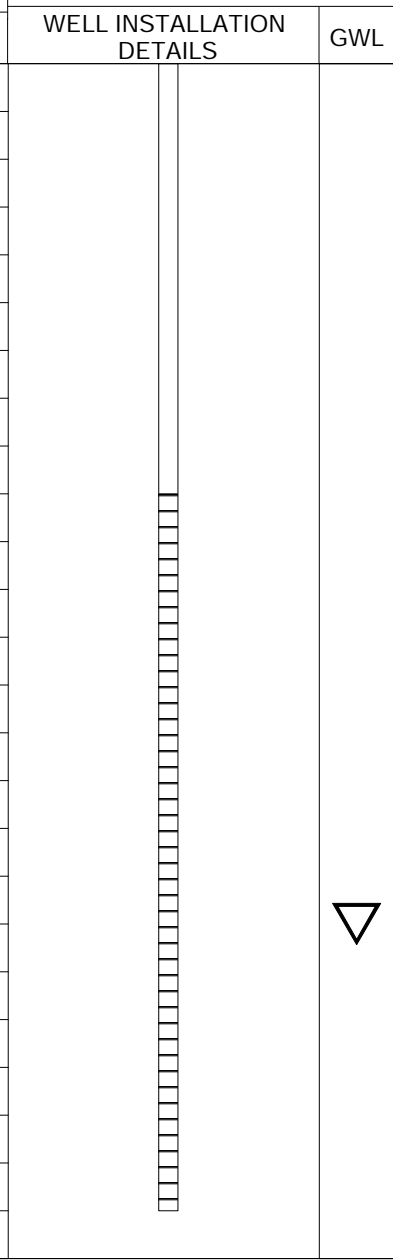
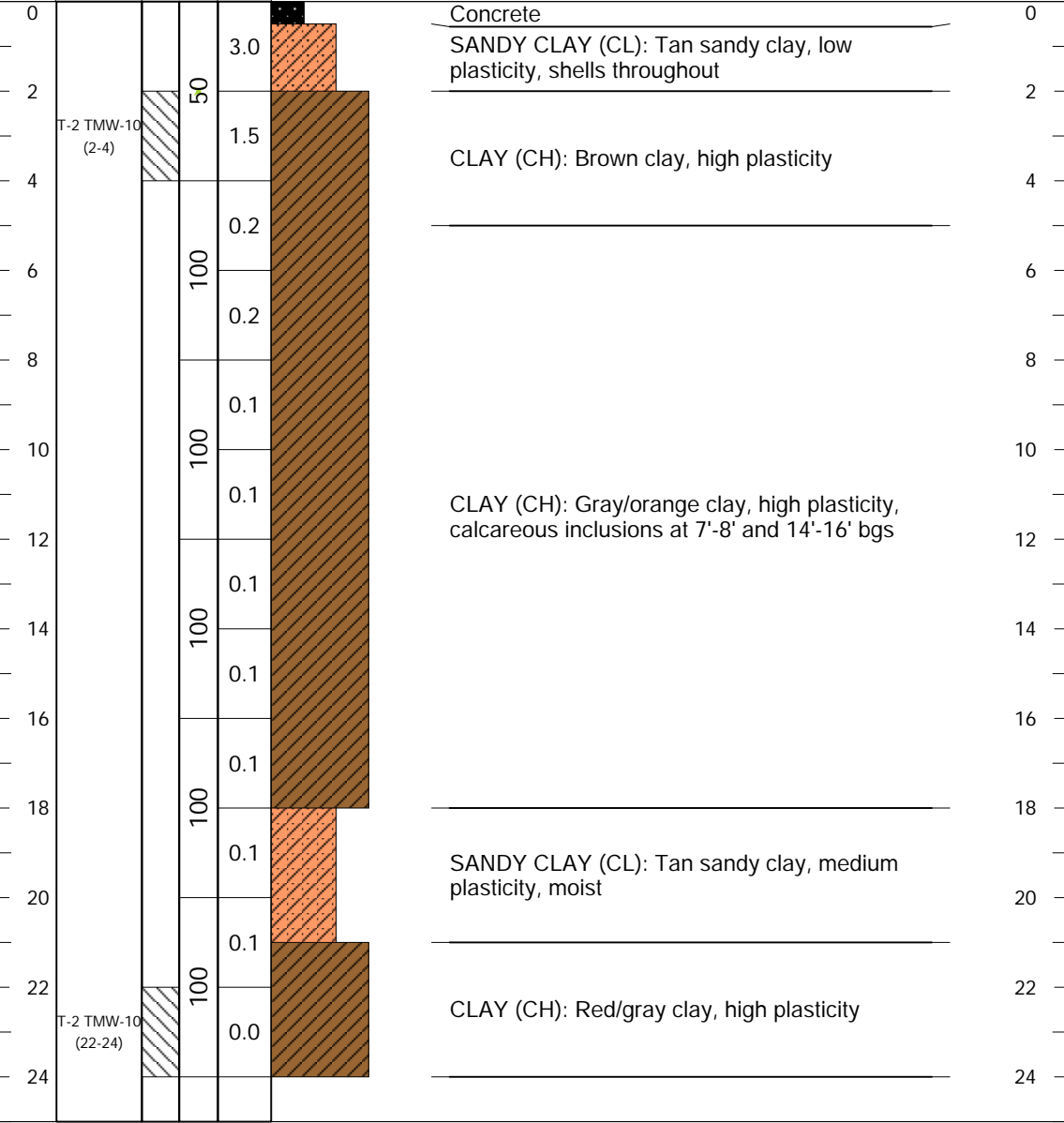
CASING INTERVAL (ft): **0-9** SCREEN INTERVAL (ft): **9-24**

TOC ELEVATION (ft): **N/A**

APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **1.00"**

SURFACE COMPLETION: **None** DRUMS (SO/GW): **0/0**
 GROUND SURFACE ELEVATION (ft): **N/A**
 BORING DIAMETER: **N/A**



Legends/Notes:

Soil Stratigraphy: Concrete (black square), Sandy Clay (orange hatched square), Clay (brown hatched square)

Well Construction Details: Casing (white square), Screen (hatched square)

Depth to Water (GWL): Static (black triangle), Initial (white triangle)

Boring terminated at 24 feet bgs.



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. MW-06

BORING LOCATION: LATITUDE: **29.789373** LONGITUDE: **-95.353909**

DATE INITIATED:
11/13/2020

DATE COMPLETED:
11/13/2020

DRILLING CONTRACTOR: **Best Drilling**

TOTAL DEPTH (ft): **20**

DRILLING METHOD: **Hollow Stem Auger**

DEPTH TO WATER (ft):
 STATIC: **4.25**
 INITIAL: **14.5**

CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

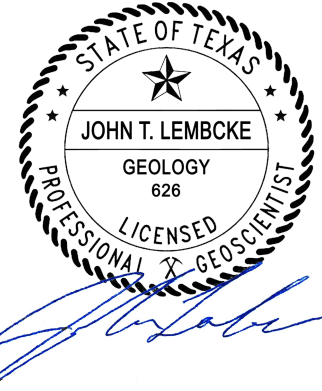
BORING DIAMETER:
4"

CASING INTERVAL (ft): **0-5** SCREEN INTERVAL (ft): **5-20**

SCREEN/CASING DIAMETER:
2.00"

APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

GROUND SURFACE ELEVATION (ft): **N/A**
 TOC ELEVATION (ft):



SURFACE COMPLETION: **Flush** DRUMS (SO/GW): **2/1**

DEPTH (feet) | SURFACE COMPLETION: **Flush** | DRUMS (SO/GW): **2/1**
 DESCRIPTION
 NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.

Asphalt

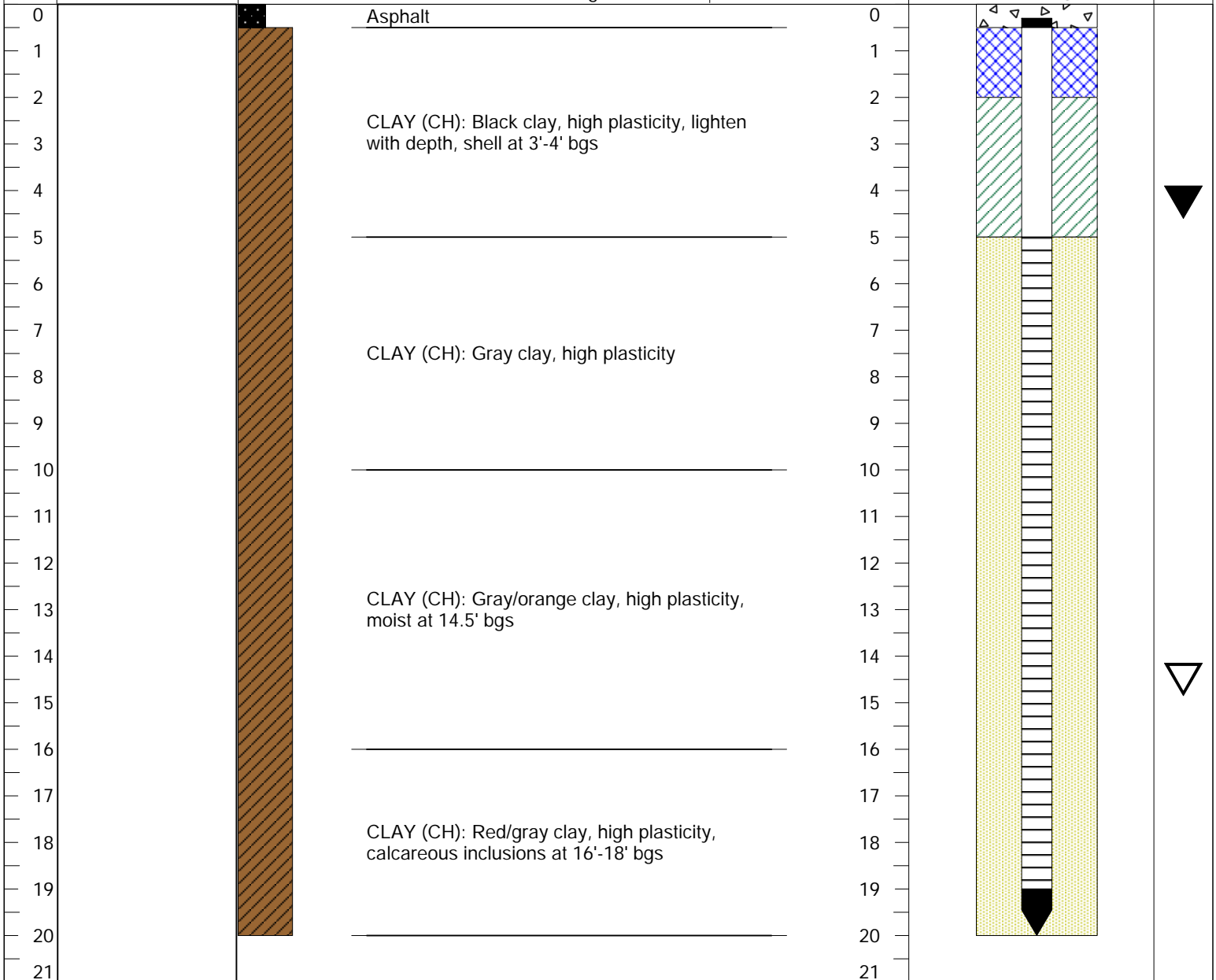
CLAY (CH): Black clay, high plasticity, lighten with depth, shell at 3'-4' bgs

CLAY (CH): Gray clay, high plasticity

CLAY (CH): Gray/orange clay, high plasticity, moist at 14.5' bgs

CLAY (CH): Red/gray clay, high plasticity, calcareous inclusions at 16'-18' bgs

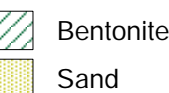
WELL INSTALLATION DETAILS | GWL



Legends/Notes: **Soil Stratigraphy**



Fill



Bentonite

Sand



Cover

Casing



Screen

End Cap

Depth to Water (GWL)



Static

Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. MW-07

BORING LOCATION: LATITUDE: **29.789236** LONGITUDE: **-95.353891**

DATE INITIATED:
11/13/2020

DATE COMPLETED:
11/13/2020

DRILLING CONTRACTOR: **Best Drilling**

TOTAL DEPTH (ft): **20**

DRILLING METHOD: **Hollow Stem Auger**

DEPTH TO WATER (ft):
 STATIC: **4.7**
 INITIAL: **14**

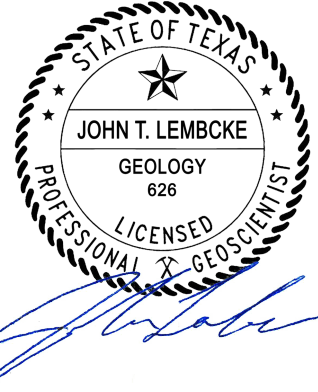
CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

CASING INTERVAL (ft): **0-5** SCREEN INTERVAL (ft): **5-20**

BORING DIAMETER:
4"

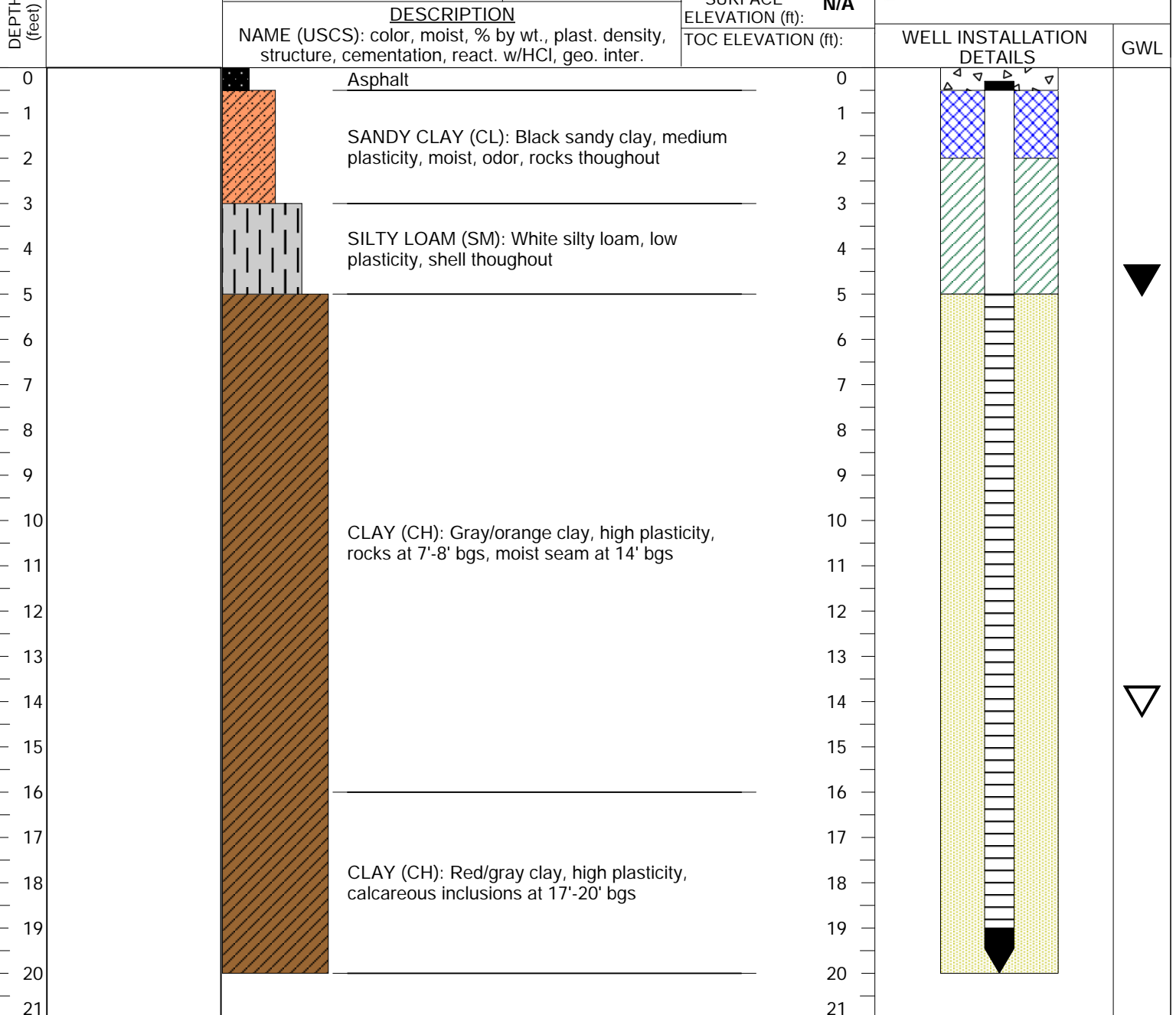
APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **2.00"**



SURFACE COMPLETION: **Flush** DRUMS (SO/GW): **2/1**

GROUND SURFACE ELEVATION (ft): **N/A**
 TOC ELEVATION (ft):



Soil Stratigraphy				Well Construction Details				Depth to Water (GWL)			
	Asphalt		Clay		Fill		Bentonite		Cover		Static
	Silty Loam		Sandy Clay		Cement		Sand		Casing		End Cap
									Screen		Initial



PROJECT: **Yellow Cab Tract 2**
Houston, Harris County, Texas

Log of Well No. MW-08

BORING LOCATION: LATITUDE: **29.789287** LONGITUDE: **-95.352532**

DATE INITIATED:
11/13/2020

DATE COMPLETED:
11/13/2020

DRILLING CONTRACTOR: **Best Drilling**

TOTAL DEPTH (ft): **20**

DRILLING METHOD: **Hollow Stem Auger**

DEPTH TO WATER: (ft)
 STATIC: **8.08**
 INITIAL: **17**

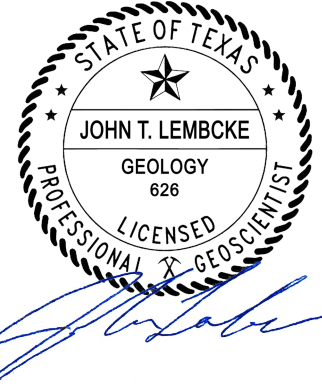
CASING/SCREEN TYPE: **SCH 40 PVC** SCREEN SLOT SIZE: **0.01"**

CASING INTERVAL (ft): **0-5** SCREEN INTERVAL (ft): **5-20**

BORING DIAMETER:
4"

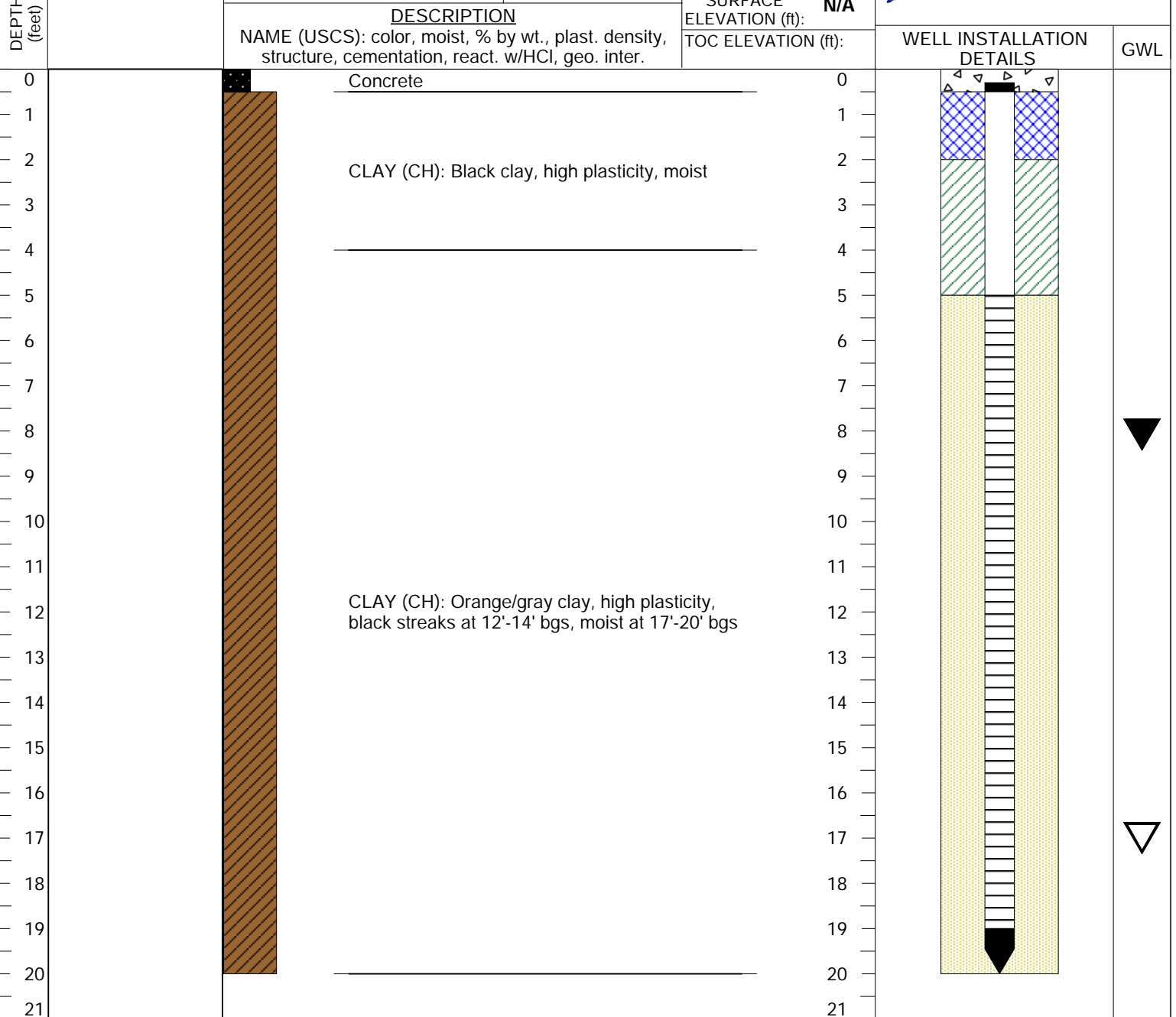
APPROVED BY: **John Lembcke** LOGGED BY: **Colton Beall**

SCREEN/CASING DIAMETER: **2.00"**



SURFACE COMPLETION: **Flush** DRUMS (SO/GW): **2/1**

GROUND SURFACE ELEVATION (ft): **N/A**
 TOC ELEVATION (ft):



Legends/Notes: Soil Stratigraphy



Concrete



Clay



Fill

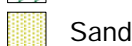


Cement

Well Construction Details



Bentonite



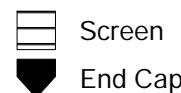
Sand



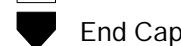
Cover



Casing



Screen



End Cap

Depth to Water (GWL)

▼ Static

▽ Initial

APPENDIX B
LABORATORY ANALYTICAL REPORTS

Laboratory Analysis Report

Total Number of Pages: 19

Job ID : 20111575



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
20-0506 / Yellow Cab Tract II

Report To : Client Name: ESE Partners, LLC P.O.#.:
Attn: Jason Binford Sample Collected By: Colton Beall
Client Address: 2002 West Grand Parkway North, Suite 140 Date Collected: 11/23/20
City, State, Zip: Katy, TX, 77449

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
MW-06	Water	20111575.01
MW-07	Water	20111575.02
MW-08	Water	20111575.03
Trip Blank	Water	20111575.04

Shantall Carpenter

Released By: Shantall Carpenter
Title: Senior Project Manager
Date: 11/24/2020



This Laboratory is NELAP (T104704213-20-23) accredited. Effective: 04/01/2020; Expires: 3/31/2021

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 11/23/2020 14:44



LABORATORY TEST RESULTS

Client Sample ID: MW-06
 A&B Job Sample ID: 20111575.01

Date: 11/24/2020

Client Name: ESE Partners, LLC
 Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: **Total Petroleum Hydrocarbons**

Sample Matrix: Water

Analytical Method: TX 1005

Date Collected: 11/23/2020 13:37

QC Batch ID: Qb20112405

Date Received: 11/23/2020 14:44

Prep Method: TX 1005

Date Prepared: 11/23/2020 16:00

Prepared By: AKumar

Prep Batch ID: PB20112402

Analyst Initial: AK

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12	<0.22	U	0.22	1.38	0.35	2.15	86	mg/L	0.64	11/24/20 01:50
TPH-1005-2	>C12-C28	<0.24	U	0.24	1.38	0.37	2.15	86	mg/L	0.64	11/24/20 01:50
TPH-1005-4	>C28-C35	0.14	J	0.12	1.38	0.18	2.15	86	mg/L	0.64	11/24/20 01:50
	Total C6-C35	0.14		0.12		0.18	----	----	mg/L	0.64	11/24/20 01:50
111-85-3	1-Chlorooctane(surr)	105					70	125	%	0.64	11/24/20 01:50
3386-33-2	Chlorooctadecane(surr)	124					70	125	%	0.64	11/24/20 01:50

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: MW-07
 A&B Job Sample ID: 20111575.02

Date: 11/24/2020

Client Name: ESE Partners, LLC
 Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: **Total Petroleum Hydrocarbons**

Sample Matrix: Water

Analytical Method: TX 1005

Date Collected: 11/23/2020 13:09

QC Batch ID: Qb20112405

Date Received: 11/23/2020 14:44

Prep Method: TX 1005

Date Prepared: 11/23/2020 16:00

Prepared By: AKumar

Prep Batch ID: PB20112402

Analyst Initial: AK

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
TPH-1005-1	C6-C12	<0.22	U	0.22	1.38	0.35	2.15	86	mg/L	0.64	11/24/20 02:18
TPH-1005-2	>C12-C28	<0.24	U	0.24	1.38	0.37	2.15	86	mg/L	0.64	11/24/20 02:18
TPH-1005-4	>C28-C35	<0.12	U	0.12	1.38	0.18	2.15	86	mg/L	0.64	11/24/20 02:18
	Total C6-C35	< 0.12	U	0.12		0.18	----	----	mg/L	0.64	11/24/20 02:18
111-85-3	1-Chlorooctane(surr)	99.6					70	125	%	0.64	11/24/20 02:18
3386-33-2	Chlorooctadecane(surr)	108					70	125	%	0.64	11/24/20 02:18

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: MW-08
A&B Job Sample ID: 20111575.03

Date: 11/24/2020

Client Name: ESE Partners, LLC
Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: Volatile Organic Compounds

Sample Matrix: Water

Analytical Method: SW-846 8260C

Date Collected: 11/23/2020 14:04

QC Batch ID: Qb20112481

Date Received: 11/23/2020 14:44

Prep Method: SW-846 5035A

Date Prepared: 11/24/2020 10:00

Prepared By: Rajeev

Prep Batch ID: PB20112448

Analyst Initial: RT

% Moisture

Table with 12 columns: CAS Number, Parameter, Result, Flag, SDL, SQL, MDL, MQL, UQL, Units, DF, Date/Time. Contains 40 rows of chemical analysis data.

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: MW-08
 A&B Job Sample ID: 20111575.03

Date: 11/24/2020

Client Name: ESE Partners, LLC
 Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: **Volatile Organic Compounds**

Sample Matrix: Water

Analytical Method: SW-846 8260C

Date Collected: 11/23/2020 14:04

QC Batch ID: Qb20112481

Date Received: 11/23/2020 14:44

Prep Method: SW-846 5035A

Date Prepared: 11/24/2020 10:00

Prepared By: Rajeev

Prep Batch ID: PB20112448

Analyst Initial: RT

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
75-00-3	Chloroethane	<0.00144	U	0.00144	0.005	0.00144	0.005	0.05	mg/L	1.00	11/24/20 13:05
67-66-3	Chloroform	<0.00072	U	0.00072	0.005	0.00072	0.005	0.05	mg/L	1.00	11/24/20 13:05
74-87-3	Chloromethane	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 13:05
156-59-2	cis-1,2-Dichloroethylene	0.0103		0.00053	0.005	0.00053	0.005	0.05	mg/L	1.00	11/24/20 13:05
10061-01-5	cis-1,3-Dichloropropene	<0.00072	U	0.00072	0.005	0.00072	0.005	0.05	mg/L	1.00	11/24/20 13:05
110-82-7	Cyclohexane	<0.00075	U	0.00075	0.005	0.00075	0.005	0.05	mg/L	1.00	11/24/20 13:05
124-48-1	Dibromochloromethane	<0.00122	U	0.00122	0.005	0.00122	0.005	0.05	mg/L	1.00	11/24/20 13:05
74-95-3	Dibromomethane	<0.00126	U	0.00126	0.005	0.00126	0.005	0.05	mg/L	1.00	11/24/20 13:05
75-71-8	Dichlorodifluoromethane	<0.00085	U	0.00085	0.005	0.00085	0.005	0.05	mg/L	1.00	11/24/20 13:05
100-41-4	Ethylbenzene	<0.00100	U	0.00100	0.005	0.00100	0.005	0.05	mg/L	1.00	11/24/20 13:05
98-82-8	Isopropylbenzene	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 13:05
179601-23-1	m- & p-Xylenes	<0.00151	U	0.00151	0.01	0.00151	0.01	0.1	mg/L	1.00	11/24/20 13:05
78-93-3	MEK	<0.00286	U	0.00286	0.005	0.00286	0.005	0.05	mg/L	1.00	11/24/20 13:05
79-20-9	Methyl Acetate	<0.00342	U	0.00342	0.005	0.00342	0.005	0.05	mg/L	1.00	11/24/20 13:05
108-87-2	Methylcyclohexane	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 13:05
75-09-2	Methylene chloride	<0.00487	L1, L1,U,V 1	0.00487	0.005	0.00487	0.005	0.05	mg/L	1.00	11/24/20 13:05
108-10-1	MIBK	<0.00223	U	0.00223	0.005	0.00223	0.005	0.05	mg/L	1.00	11/24/20 13:05
1634-04-4	MTBE	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 13:05
91-20-3	Naphthalene	<0.00270	U	0.00270	0.005	0.00270	0.005	0.05	mg/L	1.00	11/24/20 13:05
104-51-8	n-Butylbenzene	<0.00119	U	0.00119	0.005	0.00119	0.005	0.05	mg/L	1.00	11/24/20 13:05
103-65-1	n-Propylbenzene	<0.00135	U	0.00135	0.005	0.00135	0.005	0.05	mg/L	1.00	11/24/20 13:05
95-47-6	o-Xylene	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 13:05
135-98-8	sec-Butylbenzene	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 13:05
100-42-5	Styrene	<0.00069	U	0.00069	0.005	0.00069	0.005	0.05	mg/L	1.00	11/24/20 13:05
98-06-6	t-butylbenzene	<0.00100	U	0.00100	0.005	0.00100	0.005	0.05	mg/L	1.00	11/24/20 13:05
127-18-4	Tetrachloroethylene	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 13:05
108-88-3	Toluene	<0.00075	U	0.00075	0.005	0.00075	0.005	0.05	mg/L	1.00	11/24/20 13:05
156-60-5	trans-1,2-Dichloroethylene	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 13:05
10061-02-6	trans-1,3-Dichloropropene	<0.00097	U	0.00097	0.005	0.00097	0.005	0.05	mg/L	1.00	11/24/20 13:05
79-01-6	Trichloroethylene	0.00743		0.00079	0.005	0.00079	0.005	0.05	mg/L	1.00	11/24/20 13:05
75-69-4	Trichlorofluoromethane	<0.00094	U	0.00094	0.005	0.00094	0.005	0.05	mg/L	1.00	11/24/20 13:05
75-01-4	Vinyl Chloride	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 13:05
1330-20-7	Xylenes	<0.00204	U	0.00204	0.005	0.00204	0.005	0.15	mg/L	1.00	11/24/20 13:05
17060-07-0	1,2-Dichloroethane-d4(surr)	129					70	130	%	1.00	11/24/20 13:05
1868-53-7	Dibromofluoromethane(surr)	123					70	130	%	1.00	11/24/20 13:05

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: MW-08
A&B Job Sample ID: 20111575.03

Date: 11/24/2020

Client Name: ESE Partners, LLC
Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: Volatile Organic Compounds
Analytical Method: SW-846 8260C
QC Batch ID: Qb20112481
Prep Method: SW-846 5035A
Prepared By: Rajeev
Prep Batch ID: PB20112448
Analyst Initial: RT

Sample Matrix: Water
Date Collected: 11/23/2020 14:04
Date Received: 11/23/2020 14:44
Date Prepared: 11/24/2020 10:00

% Moisture

Table with 11 columns: CAS Number, Parameter, Result, Flag, SDL, SQL, MDL, MQL, UQL, Units, DF, Date/Time. Rows include Toluene-d8(surr) and p-Bromofluorobenzene(surr).



LABORATORY TEST RESULTS

Client Sample ID: Trip Blank
A&B Job Sample ID: 20111575.04

Date: 11/24/2020

Client Name: ESE Partners, LLC
Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: Volatile Organic Compounds

Sample Matrix: Water

Analytical Method: SW-846 8260C

Date Collected

QC Batch ID: Qb20112481

Date Received: 11/23/2020 14:44

Prep Method: SW-846 5035A

Date Prepared: 11/24/2020 10:00

Prepared By: Rajeev

Prep Batch ID: PB20112448

Analyst Initial: RT

% Moisture

Table with 12 columns: CAS Number, Parameter, Result, Flag, SDL, SQL, MDL, MQL, UQL, Units, DF, Date/Time. Rows list various chemical compounds and their test results.

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: Trip Blank
 A&B Job Sample ID: 20111575.04

Date: 11/24/2020

Client Name: ESE Partners, LLC
 Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: **Volatile Organic Compounds**

Sample Matrix: Water

Analytical Method: SW-846 8260C

Date Collected

QC Batch ID: Qb20112481

Date Received: 11/23/2020 14:44

Prep Method: SW-846 5035A

Date Prepared: 11/24/2020 10:00

Prepared By: Rajeev

Prep Batch ID: PB20112448

Analyst Initial: RT

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
75-00-3	Chloroethane	<0.00144	U	0.00144	0.005	0.00144	0.005	0.05	mg/L	1.00	11/24/20 12:33
67-66-3	Chloroform	<0.00072	U	0.00072	0.005	0.00072	0.005	0.05	mg/L	1.00	11/24/20 12:33
74-87-3	Chloromethane	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 12:33
156-59-2	cis-1,2-Dichloroethylene	<0.00053	U	0.00053	0.005	0.00053	0.005	0.05	mg/L	1.00	11/24/20 12:33
10061-01-5	cis-1,3-Dichloropropene	<0.00072	U	0.00072	0.005	0.00072	0.005	0.05	mg/L	1.00	11/24/20 12:33
110-82-7	Cyclohexane	<0.00075	U	0.00075	0.005	0.00075	0.005	0.05	mg/L	1.00	11/24/20 12:33
124-48-1	Dibromochloromethane	<0.00122	U	0.00122	0.005	0.00122	0.005	0.05	mg/L	1.00	11/24/20 12:33
74-95-3	Dibromomethane	<0.00126	U	0.00126	0.005	0.00126	0.005	0.05	mg/L	1.00	11/24/20 12:33
75-71-8	Dichlorodifluoromethane	<0.00085	U	0.00085	0.005	0.00085	0.005	0.05	mg/L	1.00	11/24/20 12:33
100-41-4	Ethylbenzene	<0.00100	U	0.00100	0.005	0.00100	0.005	0.05	mg/L	1.00	11/24/20 12:33
98-82-8	Isopropylbenzene	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 12:33
179601-23-1	m- & p-Xylenes	<0.00151	U	0.00151	0.01	0.00151	0.01	0.1	mg/L	1.00	11/24/20 12:33
78-93-3	MEK	<0.00286	U	0.00286	0.005	0.00286	0.005	0.05	mg/L	1.00	11/24/20 12:33
79-20-9	Methyl Acetate	<0.00342	U	0.00342	0.005	0.00342	0.005	0.05	mg/L	1.00	11/24/20 12:33
108-87-2	Methylcyclohexane	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 12:33
75-09-2	Methylene chloride	<0.00487	L1, L1,U,V 1	0.00487	0.005	0.00487	0.005	0.05	mg/L	1.00	11/24/20 12:33
108-10-1	MIBK	<0.00223	U	0.00223	0.005	0.00223	0.005	0.05	mg/L	1.00	11/24/20 12:33
1634-04-4	MTBE	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 12:33
91-20-3	Naphthalene	<0.00270	U	0.00270	0.005	0.00270	0.005	0.05	mg/L	1.00	11/24/20 12:33
104-51-8	n-Butylbenzene	<0.00119	U	0.00119	0.005	0.00119	0.005	0.05	mg/L	1.00	11/24/20 12:33
103-65-1	n-Propylbenzene	<0.00135	U	0.00135	0.005	0.00135	0.005	0.05	mg/L	1.00	11/24/20 12:33
95-47-6	o-Xylene	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 12:33
135-98-8	sec-Butylbenzene	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 12:33
100-42-5	Styrene	<0.00069	U	0.00069	0.005	0.00069	0.005	0.05	mg/L	1.00	11/24/20 12:33
98-06-6	t-butylbenzene	<0.00100	U	0.00100	0.005	0.00100	0.005	0.05	mg/L	1.00	11/24/20 12:33
127-18-4	Tetrachloroethylene	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 12:33
108-88-3	Toluene	<0.00075	U	0.00075	0.005	0.00075	0.005	0.05	mg/L	1.00	11/24/20 12:33
156-60-5	trans-1,2-Dichloroethylene	<0.00066	U	0.00066	0.005	0.00066	0.005	0.05	mg/L	1.00	11/24/20 12:33
10061-02-6	trans-1,3-Dichloropropene	<0.00097	U	0.00097	0.005	0.00097	0.005	0.05	mg/L	1.00	11/24/20 12:33
79-01-6	Trichloroethylene	<0.00079	U	0.00079	0.005	0.00079	0.005	0.05	mg/L	1.00	11/24/20 12:33
75-69-4	Trichlorofluoromethane	<0.00094	U	0.00094	0.005	0.00094	0.005	0.05	mg/L	1.00	11/24/20 12:33
75-01-4	Vinyl Chloride	<0.00082	U	0.00082	0.005	0.00082	0.005	0.05	mg/L	1.00	11/24/20 12:33
1330-20-7	Xylenes	<0.00204	U	0.00204	0.005	0.00204	0.005	0.15	mg/L	1.00	11/24/20 12:33
17060-07-0	1,2-Dichloroethane-d4(surr)	129					70	130	%	1.00	11/24/20 12:33
1868-53-7	Dibromofluoromethane(surr)	121					70	130	%	1.00	11/24/20 12:33

Soil results reported on dry weight basis



LABORATORY TEST RESULTS

Client Sample ID: Trip Blank
 A&B Job Sample ID: 20111575.04

Date: 11/24/2020

Client Name: ESE Partners, LLC
 Project Name: 20-0506 / Yellow Cab Tract II

Attn: Jason Binford

Test Description: **Volatile Organic Compounds**
 Analytical Method: SW-846 8260C
 QC Batch ID: Qb20112481
 Prep Method: SW-846 5035A
 Prepared By: Rajeev
 Prep Batch ID: PB20112448
 Analyst Initial: RT

Sample Matrix: Water
 Date Collected:
 Date Received: 11/23/2020 14:44
 Date Prepared: 11/24/2020 10:00

% Moisture

CAS Number	Parameter	Result	Flag	SDL	SQL	MDL	MQL	UQL	Units	DF	Date/Time
2037-26-5	Toluene-d8(surr)	96.2					70	130	%	1.00	11/24/20 12:33
460-00-4	p-Bromofluorobenzene(surr)	97.6					70	130	%	1.00	11/24/20 12:33

QUALITY CONTROL CERTIFICATE



Job ID : 20111575

Date : 11/24/2020

Analysis : Total Petroleum Hydrocarbons

Method : TX 1005

Reporting Units : mg/L

QC Batch ID : Qb20112405 **Created Date :** 11/23/20

Created By : AKumar

Samples in This QC Batch : 20111575.01,02

Sample Preparation : PB20112402 **Prep Method :** TX 1005 **Prep Date :** 11/23/20 16:00 **Prep By :** AKumar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
C6-C12	TPH-1005-1	< MDL	mg/L	1.00	2.15	0.35	
>C12-C28	TPH-1005-2	< MDL	mg/L	1.00	2.15	0.37	
>C28-C35	TPH-1005-4	< MDL	mg/L	1.00	2.15	0.18	
Total C6-C35		< MDL	mg/L	1.00	----	0.18	
Chlorooctadecane(surr)	3386-33-2	94.6	%	1.00			
1-Chlorooctane(surr)	111-85-3	103	%	1.00			

QC Type: Duplicate

QC Sample ID: 20111575.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
>C12-C28	BRL	BRL	mg/L	0	+20	
>C28-C35	BRL	BRL	mg/L	0	+20	
C6-C12	BRL	BRL	mg/L	0	+20	
Total C6-C35	BRL	BRL	mg/L	0	+20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	43	42.2	98.1	43	45.6	106	7.8	20	75-125	
>C12-C28	43	47.8	111	43	51.2	119	6.9	20	75-125	
>C28-C35	43	47.5	110	43	49.7	116	4.6	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 20111575

Date : 11/24/2020

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb20112481

Created Date : 11/24/20

Created By : Rajeev

Samples in This QC Batch : 20111575.03,04

Sample Preparation : PB20112448

Prep Method : SW-846 5035A

Prep Date : 11/24/20 10:00 **Prep By :** Rajeev

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
1,1,1,2-Tetrachloroethane	630-20-6	< MDL	mg/L	1.00	0.005	0.00082	
1,1,1-Trichloroethane	71-55-6	< MDL	mg/L	1.00	0.005	0.00072	
1,1,2,2-Tetrachloroethane	79-34-5	< MDL	mg/L	1.00	0.005	0.00210	
1,1,2-Trichloroethane	79-00-5	< MDL	mg/L	1.00	0.005	0.00144	
1,1-Dichloroethane	75-34-3	< MDL	mg/L	1.00	0.005	0.00119	
1,1-Dichloroethylene	75-35-4	< MDL	mg/L	1.00	0.005	0.00066	
1,1-Dichloropropene	563-58-6	< MDL	mg/L	1.00	0.005	0.001	
1,2,3-trichlorobenzene	87-61-6	< MDL	mg/L	1.00	0.005	0.00085	
1,2,3-Trichloropropane	96-18-4	< MDL	mg/L	1.00	0.005	0.00170	
1,2,4-Trichlorobenzene	120-82-1	< MDL	mg/L	1.00	0.005	0.00053	
1,2,4-Trimethylbenzene	95-63-6	< MDL	mg/L	1.00	0.005	0.00100	
1,2-Dibromo-3-chloropropa	96-12-8	< MDL	mg/L	1.00	0.005	0.00236	
1,2-Dibromoethane	106-93-4	< MDL	mg/L	1.00	0.005	0.00129	
1,2-Dichlorobenzene	95-50-1	< MDL	mg/L	1.00	0.005	0.00060	
1,2-Dichloroethane	107-06-2	< MDL	mg/L	1.00	0.005	0.00104	
1,2-Dichloropropane	78-87-5	< MDL	mg/L	1.00	0.005	0.00075	
1,3,5-Trimethylbenzene	108-67-8	< MDL	mg/L	1.00	0.005	0.00110	
1,3-Dichlorobenzene	541-73-1	< MDL	mg/L	1.00	0.005	0.00075	
1,3-Dichloropropane	142-28-9	< MDL	mg/L	1.00	0.005	0.001	
1,4-Dichlorobenzene	106-46-7	< MDL	mg/L	1.00	0.005	0.00072	
1,4-Dioxane	123-91-1	< MDL	mg/L	1.00	0.32	0.08177	
2,2-Dichloropropane	594-20-7	< MDL	mg/L	1.00	0.005	0.001	
2-Chlorotoluene	95-49-8	< MDL	mg/L	1.00	0.005	0.00082	
2-Hexanone	591-78-6	< MDL	mg/L	1.00	0.005	0.00242	
4-Chlorotoluene	106-43-4	< MDL	mg/L	1.00	0.005	0.00082	
4-Isopropyltoluene	99-87-6	< MDL	mg/L	1.00	0.005	0.00091	
Acetone	67-64-1	< MDL	mg/L	1.00	0.005	0.00298	
Benzene	71-43-2	< MDL	mg/L	1.00	0.005	0.00063	
Bromobenzene	108-86-1	< MDL	mg/L	1.00	0.005	0.001	
Bromochloromethane	74-97-5	< MDL	mg/L	1.00	0.005	0.00097	
Bromodichloromethane	75-27-4	< MDL	mg/L	1.00	0.005	0.00069	
Bromoform	75-25-2	< MDL	mg/L	1.00	0.005	0.00170	
Bromomethane	74-83-9	< MDL	mg/L	1.00	0.005	0.00079	
Carbon disulfide	75-15-0	< MDL	mg/L	1.00	0.005	0.00113	
Carbon tetrachloride	56-23-5	< MDL	mg/L	1.00	0.005	0.00173	
Chlorobenzene	108-90-7	< MDL	mg/L	1.00	0.005	0.00069	
Chloroethane	75-00-3	< MDL	mg/L	1.00	0.005	0.00144	
Chloroform	67-66-3	< MDL	mg/L	1.00	0.005	0.00072	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 20111575

Date : 11/24/2020

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb20112481 **Created Date :** 11/24/20

Created By : Rajeev

Samples in This QC Batch : 20111575.03,04

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	ML	MDL	Qual
Chloromethane	74-87-3	< MDL	mg/L	1.00	0.005	0.00066	
cis-1,2-Dichloroethylene	156-59-2	< MDL	mg/L	1.00	0.005	0.00053	
cis-1,3-Dichloropropene	10061-01-5	< MDL	mg/L	1.00	0.005	0.00072	
Cyclohexane	110-82-7	< MDL	mg/L	1.00	0.005	0.00075	
Dibromochloromethane	124-48-1	< MDL	mg/L	1.00	0.005	0.00122	
Dibromomethane	74-95-3	< MDL	mg/L	1.00	0.005	0.00126	
Dichlorodifluoromethane	75-71-8	< MDL	mg/L	1.00	0.005	0.00085	
Ethylbenzene	100-41-4	< MDL	mg/L	1.00	0.005	0.00100	
Isopropylbenzene	98-82-8	< MDL	mg/L	1.00	0.005	0.00082	
m- & p-Xylenes	179601-23-1	< MDL	mg/L	1.00	0.01	0.00151	
MEK	78-93-3	< MDL	mg/L	1.00	0.005	0.00286	
Methyl Acetate	79-20-9	< MDL	mg/L	1.00	0.005	0.00342	
Methylcyclohexane	108-87-2	< MDL	mg/L	1.00	0.005	0.00082	
Methylene chloride	75-09-2	< MDL	mg/L	1.00	0.005	0.00487	
MIBK	108-10-1	< MDL	mg/L	1.00	0.005	0.00223	
MTBE	1634-04-4	< MDL	mg/L	1.00	0.005	0.00082	
Naphthalene	91-20-3	< MDL	mg/L	1.00	0.005	0.00270	
n-Butylbenzene	104-51-8	< MDL	mg/L	1.00	0.005	0.00119	
n-Propylbenzene	103-65-1	< MDL	mg/L	1.00	0.005	0.00135	
o-Xylene	95-47-6	< MDL	mg/L	1.00	0.005	0.00066	
sec-Butylbenzene	135-98-8	< MDL	mg/L	1.00	0.005	0.00082	
Styrene	100-42-5	< MDL	mg/L	1.00	0.005	0.00069	
t-butylbenzene	98-06-6	< MDL	mg/L	1.00	0.005	0.00100	
Tetrachloroethylene	127-18-4	< MDL	mg/L	1.00	0.005	0.00066	
Toluene	108-88-3	< MDL	mg/L	1.00	0.005	0.00075	
trans-1,2-Dichloroethylene	156-60-5	< MDL	mg/L	1.00	0.005	0.00066	
trans-1,3-Dichloropropene	10061-02-6	< MDL	mg/L	1.00	0.005	0.00097	
Trichloroethylene	79-01-6	< MDL	mg/L	1.00	0.005	0.00079	
Trichlorofluoromethane	75-69-4	< MDL	mg/L	1.00	0.005	0.00094	
Vinyl Chloride	75-01-4	< MDL	mg/L	1.00	0.005	0.00082	
Xylenes	1330-20-7	< MDL	mg/L	1.00	0.005	0.00204	
Dibromofluoromethane(surr)	1868-53-7	120	%	1.00			
1,2-Dichloroethane-d4(surr)	17060-07-0	119	%	1.00			
Toluene-d8(surr)	2037-26-5	96.5	%	1.00			
p-Bromofluorobenzene(surr)	460-00-4	100	%	1.00			

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 20111575

Date : 11/24/2020

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb20112481 **Created Date :** 11/24/20

Created By : Rajeev

Samples in This QC Batch : 20111575.03,04

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.0205	102	0.02	0.0205	102	0.2	20	78-120	
1,1,1-Trichloroethane	0.02	0.0224	112	0.02	0.0222	111	0.7	20	74-126	
1,1,2,2-Tetrachloroethane	0.02	0.0212	106	0.02	0.0214	107	0.8	20	71-121	
1,1,2-Trichloroethane	0.02	0.0202	101	0.02	0.0206	103	1.8	20	80-120	
1,1-Dichloroethane	0.02	0.0229	114	0.02	0.0223	111	2.5	20	77-120	
1,1-Dichloroethylene	0.02	0.0222	111	0.02	0.0217	109	2.5	20	71-130	
1,1-Dichloropropene	0.02	0.0212	106	0.02	0.0203	102	4.2	20	79-125	
1,2,3-trichlorobenzene	0.02	0.0200	100	0.02	0.0206	103	3	20	69-121	
1,2,3-Trichloropropane	0.02	0.0208	104	0.02	0.0219	110	5.3	20	73-122	
1,2,4-Trichlorobenzene	0.02	0.0197	98.7	0.02	0.0203	101	2.8	20	69-130	
1,2,4-Trimethylbenzene	0.02	0.0205	103	0.02	0.0212	106	3.2	20	76-119	
1,2-Dibromo-3-chloropropa	0.02	0.0197	98.5	0.02	0.0208	104	5.4	20	62-135	
1,2-Dibromoethane	0.02	0.0206	103	0.02	0.0209	104	1.6	20	77-121	
1,2-Dichlorobenzene	0.02	0.0206	103	0.02	0.0215	107	4.2	20	80-113	
1,2-Dichloroethane	0.02	0.0231	115	0.02	0.0225	113	2.5	20	70-125	
1,2-Dichloropropane	0.02	0.0224	112	0.02	0.0221	110	1.1	20	78-122	
1,3,5-Trimethylbenzene	0.02	0.0207	103	0.02	0.0214	107	3.5	20	75-117	
1,3-Dichlorobenzene	0.02	0.0208	104	0.02	0.0213	106	2.4	20	80-115	
1,3-Dichloropropane	0.02	0.0218	109	0.02	0.0223	111	2.1	20	80-119	
1,4-Dichlorobenzene	0.02	0.0207	104	0.02	0.0215	108	3.7	20	79-118	
1,4-Dioxane	0.64	0.661	103	0.64	0.635	99.2	4.1	20	59-139	
2,2-Dichloropropane	0.02	0.0221	111	0.02	0.0215	108	2.8	20	65-135	
2-Chlorotoluene	0.02	0.0211	105	0.02	0.0216	108	2.5	20	79-118	
2-Hexanone	0.02	0.0198	99	0.02	0.0194	97.2	2	20	57-130	
4-Chlorotoluene	0.02	0.0207	104	0.02	0.0213	106	2.7	20	78-118	
4-Isopropyltoluene	0.02	0.0207	103	0.02	0.0212	106	2.6	20	77-116	
Acetone	0.02	0.0202	101	0.02	0.0186	93.1	8.2	20	51-148	
Benzene	0.02	0.0218	109	0.02	0.0217	108	0.6	20	79-118	
Bromobenzene	0.02	0.0203	102	0.02	0.0211	106	3.7	20	80-116	
Bromochloromethane	0.02	0.0219	110	0.02	0.0209	105	4.7	20	78-123	
Bromodichloromethane	0.02	0.0226	113	0.02	0.0221	111	2.2	20	79-125	
Bromoform	0.02	0.0205	103	0.02	0.0210	105	2.3	20	71-130	
Bromomethane	0.02	0.0248	124	0.02	0.0244	122	1.6	20	62-141	
Carbon disulfide	0.02	0.0216	108	0.02	0.0207	104	4	20	70-125	
Carbon tetrachloride	0.02	0.0223	112	0.02	0.0225	113	0.9	20	72-132	
Chlorobenzene	0.02	0.0209	105	0.02	0.0210	105	0.3	20	82-116	
Chloroethane	0.02	0.0226	113	0.02	0.0219	109	3	20	60-138	
Chloroform	0.02	0.0226	113	0.02	0.0221	110	2.1	20	79-124	
Chloromethane	0.02	0.0226	113	0.02	0.0222	111	2	20	61-139	
cis-1,2-Dichloroethylene	0.02	0.0225	112	0.02	0.0222	111	1.3	20	78-121	
cis-1,3-Dichloropropene	0.02	0.0217	109	0.02	0.0221	111	1.6	20	81-122	
Cyclohexane	0.02	0.0208	104	0.02	0.0207	104	0.7	20	77-122	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 20111575

Date : 11/24/2020

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb20112481 **Created Date :** 11/24/20

Created By : Rajeev

Samples in This QC Batch : 20111575.03,04

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Dibromochloromethane	0.02	0.0204	102	0.02	0.0211	105	3.3	20	77-120	
Dibromomethane	0.02	0.0222	111	0.02	0.0217	108	2.5	20	79-124	
Dichlorodifluoromethane	0.02	0.0180	90	0.02	0.0176	87.8	2.3	20	51-135	
Ethylbenzene	0.02	0.0210	105	0.02	0.0208	104	0.9	20	84-117	
Isopropylbenzene	0.02	0.0211	106	0.02	0.0210	105	0.7	20	80-117	
m- & p-Xylenes	0.04	0.0428	107	0.04	0.0424	106	0.9	20	80-118	
MEK	0.02	0.0211	105	0.02	0.0203	101	3.8	20	60-136	
Methyl Acetate	0.02	0.0208	104	0.02	0.0206	103	0.7	20	56-136	
Methylcyclohexane	0.02	0.0207	104	0.02	0.0207	103	0.2	20	70-130	
Methylene chloride	0.02	0.0272	136	0.02	0.0264	132	3.1	20	74-124	L1
MIBK	0.02	0.0213	107	0.02	0.0212	106	0.6	20	67-130	
MTBE	0.02	0.0203	102	0.02	0.0207	104	1.8	20	71-124	
Naphthalene	0.02	0.0190	95.2	0.02	0.0200	100	5	20	66-128	
n-Butylbenzene	0.02	0.0201	100	0.02	0.0208	104	3.5	20	75-120	
n-Propylbenzene	0.02	0.0208	104	0.02	0.0215	107	3.5	20	78-120	
o-Xylene	0.02	0.0209	105	0.02	0.0209	104	0.2	20	84-117	
sec-Butylbenzene	0.02	0.0209	104	0.02	0.0217	108	3.8	20	77-120	
Styrene	0.02	0.0213	107	0.02	0.0212	106	0.5	20	85-120	
t-butylbenzene	0.02	0.0198	99.2	0.02	0.0204	102	2.8	20	78-120	
Tetrachloroethylene	0.02	0.0204	102	0.02	0.0206	103	1.1	20	78-129	
Toluene	0.02	0.0208	104	0.02	0.0209	105	0.5	20	84-117	
trans-1,2-Dichloroethylene	0.02	0.0221	111	0.02	0.0217	109	1.9	20	75-124	
trans-1,3-Dichloropropene	0.02	0.0198	99.1	0.02	0.0202	101	1.9	20	80-121	
Trichloroethylene	0.02	0.0209	104	0.02	0.0210	105	0.7	20	80-122	
Trichlorofluoromethane	0.02	0.0222	111	0.02	0.0213	106	4.3	20	57-141	
Vinyl Chloride	0.02	0.0214	107	0.02	0.0211	106	1.3	20	59-130	
Xylenes	0.06	0.0637	106	0.06	0.0633	105	0.7	20	83-118	

QC Type: MS and MSD

QC Sample ID: 20111575.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.02	0.0220	110						72-139	
1,1,1-Trichloroethane	BRL	0.02	0.0223	111						70.6-135	
1,1,2,2-Tetrachloroethane	BRL	0.02	0.0290	145						55-149	
1,1,2-Trichloroethane	BRL	0.02	0.0237	118						68-139	
1,1-Dichloroethane	BRL	0.02	0.0221	110						78-134	
1,1-Dichloroethylene	BRL	0.02	0.0222	111						65-141	
1,1-Dichloropropene	BRL	0.02	0.0208	104						79-136	
1,2,3-trichlorobenzene	BRL	0.02	0.0221	111						54-144	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 20111575

Date : 11/24/2020

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb20112481 **Created Date :** 11/24/20

Created By : Rajeev

Samples in This QC Batch : 20111575.03,04

QC Type: MS and MSD											
QC Sample ID: 20111575.03											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,2,3-Trichloropropane	BRL	0.02	0.0274	137						58-156	
1,2,4-Trichlorobenzene	BRL	0.02	0.0206	103						69-127	
1,2,4-Trimethylbenzene	BRL	0.02	0.0207	104						80-131	
1,2-Dibromo-3-chloropropa	BRL	0.02	0.0285	142						61-145	
1,2-Dibromoethane	BRL	0.02	0.0248	124						68-140	
1,2-Dichlorobenzene	BRL	0.02	0.0216	108						70-138	
1,2-Dichloroethane	BRL	0.02	0.0250	125						67-152	
1,2-Dichloropropane	BRL	0.02	0.0229	114						79-135	
1,3,5-Trimethylbenzene	BRL	0.02	0.0207	103						79-133	
1,3-Dichlorobenzene	BRL	0.02	0.0211	105						79-128	
1,3-Dichloropropane	BRL	0.02	0.0260	130						70-147	
1,4-Dichlorobenzene	BRL	0.02	0.0212	106						76-127	
1,4-Dioxane	BRL	0.64	0.973	152						70-125	M8
2,2-Dichloropropane	BRL	0.02	0.0217	108						60-129	
2-Chlorotoluene	BRL	0.02	0.0211	106						83-130	
2-Hexanone	BRL	0.02	0.0268	134						80-120	M8
4-Chlorotoluene	BRL	0.02	0.0207	103						82-129	
4-Isopropyltoluene	BRL	0.02	0.0209	105						78-129	
Acetone	BRL	0.02	0.0209	105						70-125	
Benzene	BRL	0.02	0.0217	108						73-129	
Bromobenzene	BRL	0.02	0.0212	106						76-132	
Bromochloromethane	BRL	0.02	0.0218	109						76-135	
Bromodichloromethane	BRL	0.02	0.0228	114						80-136	
Bromoform	BRL	0.02	0.0256	128						65-139	
Bromomethane	BRL	0.02	0.0235	117						65-150	
Carbon disulfide	BRL	0.02	0.0202	101						70-125	
Carbon tetrachloride	BRL	0.02	0.0221	111						70-136	
Chlorobenzene	BRL	0.02	0.0210	105						69-123	
Chloroethane	BRL	0.02	0.0228	114						74-145	
Chloroform	BRL	0.02	0.0220	110						41.8-164	
Chloromethane	BRL	0.02	0.0228	114						42.2-160	
cis-1,2-Dichloroethylene	0.0103	0.02	0.0318	107						71-134	
cis-1,3-Dichloropropene	BRL	0.02	0.0224	112						74-128	
Cyclohexane	BRL	0.02	0.0215	107						70-130	
Dibromochloromethane	BRL	0.02	0.0235	118						67-141	
Dibromomethane	BRL	0.02	0.0245	122						63.1-135	
Dichlorodifluoromethane	BRL	0.02	0.0198	98.8						62-146	
Ethylbenzene	BRL	0.02	0.0206	103						80-132	
Isopropylbenzene	BRL	0.02	0.0206	103						78-137	
m- & p-Xylenes	BRL	0.04	0.0416	104						74-127	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 20111575

Date : 11/24/2020

Analysis : Volatile Organic Compounds

Method : SW-846 8260C

Reporting Units : mg/L

QC Batch ID : Qb20112481 **Created Date :** 11/24/20

Created By : Rajeev

Samples in This QC Batch : 20111575.03,04

QC Type: MS and MSD											
QC Sample ID: 20111575.03											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
MEK	BRL	0.02	0.0271	136						52-148	
Methyl Acetate	BRL	0.02	0.0284	142						70-130	M8
Methylcyclohexane	BRL	0.02	0.0212	106						70-130	
Methylene chloride	BRL	0.02	0.0229	115						68-131	
MIBK	BRL	0.02	0.0293	146						70-125	M8
MTBE	BRL	0.02	0.0258	129						70-130	
Naphthalene	BRL	0.02	0.0249	124						61-116	M8
n-Butylbenzene	BRL	0.02	0.0209	105						73-140	
n-Propylbenzene	BRL	0.02	0.0208	104						75-127	
o-Xylene	BRL	0.02	0.0203	101						74-126	
sec-Butylbenzene	BRL	0.02	0.0211	106						75-129	
Styrene	BRL	0.02	0.0209	105						77-123	
t-butylbenzene	BRL	0.02	0.0200	99.9						75-126	
Tetrachloroethylene	BRL	0.02	0.0198	98.8						27.6-194	
Toluene	BRL	0.02	0.0209	104						72-121	
trans-1,2-Dichloroethylene	BRL	0.02	0.0219	110						73-138	
trans-1,3-Dichloropropene	BRL	0.02	0.0221	110						66-131	
Trichloroethylene	0.00743	0.02	0.0284	105						6-138	
Trichlorofluoromethane	BRL	0.02	0.0223	112						67-148	
Vinyl Chloride	BRL	0.02	0.0219	109						59.4-140	
Xylenes	BRL	0.06	0.0619	103						73-127	

Refer to the Definition page for terms.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 20111575

Date: 11/24/2020

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

Qualifier Definition

J	Estimation. Below calibration range but above MDL.
L1	Associated LCS and/or LCSD recovery is above acceptance limits for flagged analyte. Bias may be high.
M8	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits.
U	Undetected at SDL (Sample Detection Limit).
V1	CCV recovery is above acceptance limits. This target analyte was not detected in the sample.

10100 East Fwy (I-10)
Suite 100
*** Job ID: 20111575**
TAT: 1 Day PM: Scarpenter

1. REPORT TO:
Company: **ESE Partners**
Address: **2002 W Grand Parkway N Suite. 140**
Contact: **281-501-6100**
E-mail: **john@esepartners.com**
 jason@esepartners.com

2. INVOICE TO:
Company: **SAME**
Address:
Contact:
Phone:
Fax:
E-mail:

3. PO #
3a. A&B Quote #
4. Turnaround Time (Business Days)
 1 Day* Other: **ASAP**
 2 Days* 3 Days* *Surcharge applies
 7 Days - Standard

5. Project # **20-0506**

6. Project Name/Location
Yellow Cab Tract II

7. Reporting Requirement:
 TRRP Limits only TRRP Rpt. Package See Attached Standard Level II PST MDL EDD

8. Sampler's Name & Company (PLEASE PRINT) **Colton Beall ESE**
Sampler's Signature & Date **[Signature] 11-23-2020**

9. Sample ID and Description

LAB USE ONLY	10. Sampling		12. Matrix								
	Date	Time 24hr	Comp.	Grab	Water	Soil	Sludge	Oil	Drinking Water	Air	Other
DIAG MW-06	11-23-2020	1337	/	/							
O2AG MW-07	I	1309	/	/							
OBAE MW-08	I	1404	/	/							

13. No. of Containers	14. Containers*	15. Preservatives**	16. PH-Lab Only	17. Analyses/Methods TPH (1005) PAH VOL (B26)	18. REMARKS
	7				
7					
5					

19. RELINQUISHED BY
1. **[Signature]**
2.
3.

20. RECEIVED BY
DATE: **11-23-2020** TIME: **1444**
Valerie
DATE: **11-23-20** TIME: **1444**

21. KNOWN HAZARDS/COMMENTS
Temperature: **15.3 °C**
Thermometer ID: **102002320**
Intact: Y or N Initials: **VA**

*Containers: VOA - 40 ml vial
4 oz/8 oz - glass wide mouth
A/G - Amber/Glass 1 Liter
P/O - Plastic/other

**Preservatives: C - Cool H - HCl N - HNO₃ S - H₂SO₄
OH - NaOH T - NA₂S₂O₃ X - Other

METHOD OF SHIPMENT

BILL OF LADING/TRACKING #

LAB USE ONLY SAMPLING RENTAL P/U Supplies Field Work

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days
A&B reserves the right to return samples



Sample Condition Checklist

A&B JobID : 20111575	Date Received : 11/23/2020	Time Received : 2:44PM
Client Name : ESE Partners, LLC		
Temperature : 15.3°C	Sample pH : n/a	
Thermometer ID : 102002320	pH Paper ID : n/a	
Perservative :		

	Check Points	Yes	No	N/A																								
1.	Cooler seal present and signed.		X																									
2.	Sample(s) in a cooler.	X																										
3.	If yes, ice in cooler.	X																										
4.	Sample(s) received with chain-of-custody.	X																										
5.	C-O-C signed and dated.	X																										
6.	Sample(s) received with signed sample custody seal.		X																									
7.	Sample containers arrived intact. (If no comment).	X																										
8.	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	X																										
10.	Sample(s) were received with proper preservative	X																										
11.	All samples were logged or labeled.	X																										
12.	Sample ID labels match C-O-C ID's	X																										
13.	Bottle count on C-O-C matches bottles found.		X																									
14.	Sample volume is sufficient for analyses requested.		X																									
15.	Samples were received within the hold time.	X																										
16.	VOA vials completely filled.	X																										
17.	Sample accepted.	X																										
18.	Has client been contacted about sub-out			X																								

Comments : Include actions taken to resolve discrepancies/problem:
 Received (2) trip blank VOAs not listed on COC labeled as 04AB. Did not receive 1L AG containers for PAH. JM 11-23-2020

Received by : VHernandez

Check in by/date : JMontemayor / 11/23/2020

Analytical Report 673676

for

ESE Partners

Project Manager: John Lembcke

Yellow Cab Tract 2

20-0506

10.13.2020

Collected By: Client



**4147 Greenbriar Dr.
Stafford, TX 77477**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.13.2020

Project Manager: **John Lembcke**

ESE Partners

2002 West Grand Parkway North, Suite 140
Katy, TX 77449

Reference: Eurofins Xenco, LLC Report No(s): **673676**

Yellow Cab Tract 2

Project Address:

John Lembcke:

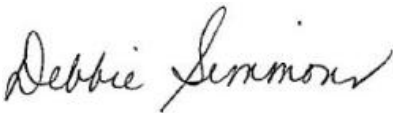
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673676. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673676 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Debbie Simmons

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 673676

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-2 TMW-01 (2-4)	S	09.25.2020 09:05	2 - 4 ft	673676-001
T-2 TMW-02 (2-4)	S	09.25.2020 08:12	2 - 4 ft	673676-002
T-2 TMW-03 (2-4)	S	09.25.2020 11:26	2 - 4 ft	673676-003
T-2 SB-01 (2-4)	S	09.25.2020 09:57	2 - 4 ft	673676-004
T-2 SB-02 (8-10)	S	09.25.2020 10:47	8 - 10 ft	673676-005
T-2 TMW-01	W	09.25.2020 09:20		673676-011
T-2 TMW-02	W	09.25.2020 08:30		673676-012
T-2 TMW-03	W	09.25.2020 11:39		673676-013
T-2 TMW-01 (23-25)	S	09.25.2020 09:15	23 - 25 ft	Not Analyzed
T-2 TMW-02 (23-25)	S	09.25.2020 08:20	23 - 25 ft	Not Analyzed
T-2 TMW-03 (23-25)	S	09.25.2020 11:31	23 - 25 ft	Not Analyzed
T-2 SB-01 (23-25)	S	09.25.2020 10:05	23 - 25 ft	Not Analyzed
T-2 SB-02 (23-25)	S	09.25.2020 10:53	23 - 25 ft	Not Analyzed
TRIP BLANK	W	09.25.2020 00:00		Not Analyzed

CASE NARRATIVE SUMMARY

Client Name: ESE Partners

Project Name: Yellow Cab Tract 2

Project ID: 20-0506

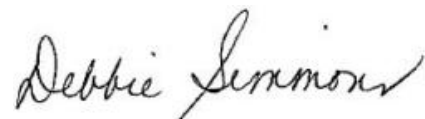
Report Date: 10.13.2020

Work Order Number: 673676

Date Received: 09.25.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

10.07.20: per John Lembcke, analyze sample T2-TMW-01 for SPLP Arsenic and T2-TMW-02 for SPLP Lead on 48 hour TAT



Debbie Simmons
Project Manager

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-001	Date Collected: 09.25.2020 09:05	Date Received: 09.25.2020 18:15
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 15.55	
Seq Number: 3138668	Date Prep: 10.01.2020 15:40	Tech: DEP
	Prep seq: 7712470	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	8.75	4.74	0.731	mg/kg	10.01.2020 19:55		10
Barium	7440-39-3	82.7	4.74	0.411	mg/kg	10.01.2020 19:55		10
Cadmium	7440-43-9	<0.137	2.37	0.137	mg/kg	10.01.2020 19:55	U	10
Chromium	7440-47-3	14.6	4.74	0.321	mg/kg	10.01.2020 19:55		10
Lead	7439-92-1	14.9	2.37	0.229	mg/kg	10.01.2020 19:55		10
Selenium	7782-49-2	1.11	2.37	0.588	mg/kg	10.01.2020 19:55	J	10
Silver	7440-22-4	<0.188	2.37	0.188	mg/kg	10.01.2020 19:55	U	10

Analytical Method: Mercury by SW 7471A	Prep Method: SW7471P
Analyst: ANJ	% Moist:
Seq Number: 3138549	Date Prep: 09.30.2020 07:40
	Tech: ANJ
	Prep seq: 7712332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0196	0.0182	0.00349	mg/kg	09.30.2020 17:19		1

Analytical Method: SPLP Metals per ICP by SW-846 6010B	Prep Method: 3010A
Analyst: DEP	% Moist:
Seq Number: 3139332	Date Prep: 10.09.2020 10:05
	Tech: DEP
	Prep seq: 7712957

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00899	0.0100	0.00336	mg/L	10.09.2020 15:16	J	1
Lead	7439-92-1	0.00911	0.0100	0.00183	mg/L	10.09.2020 15:16	J	1

Certificate of Analytical Results

673676

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id: T-2 TMW-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-001	Date Collected: 09.25.2020 09:05	Date Received: 09.25.2020 18:15
Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 15.55	
Seq Number: 3138396	Date Prep: 09.28.2020 14:15	Tech: ISU
	Prep seq: 7712199	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<18.7	44.3	18.7	mg/kg	09.29.2020 00:19	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<18.7	44.3	18.7	mg/kg	09.29.2020 00:19	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<18.7	44.3	18.7	mg/kg	09.29.2020 00:19	U	1
Total TPH	PHC635	<18.7		18.7	mg/kg	09.29.2020 00:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	103	70 - 130	%		
1-Chlorooctane	104	70 - 130	%		

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-001	Date Collected: 09.25.2020 09:05	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist: 15.55	
Seq Number: 3138623	Date Prep: 09.30.2020 15:00	Tech: NAL
	Prep seq: 7712449	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000189	0.000912	0.000189	mg/kg	09.30.2020 17:12	U	1
Bromobenzene	108-86-1	<0.000316	0.00456	0.000316	mg/kg	09.30.2020 17:12	U	1
Bromochloromethane	74-97-5	<0.000480	0.00456	0.000480	mg/kg	09.30.2020 17:12	U	1
Bromodichloromethane	75-27-4	<0.000229	0.00456	0.000229	mg/kg	09.30.2020 17:12	U	1
Bromoform	75-25-2	<0.000942	0.00456	0.000942	mg/kg	09.30.2020 17:12	U	1
Methyl bromide	74-83-9	<0.000860	0.00456	0.000860	mg/kg	09.30.2020 17:12	UH	1
2-Butanone	78-93-3	0.00777	0.0141	0.00257	mg/kg	10.01.2020 18:37	J	1
tert-Butylbenzene	98-06-6	<0.00117	0.00456	0.00117	mg/kg	09.30.2020 17:12	U	1
Sec-Butylbenzene	135-98-8	<0.000238	0.00456	0.000238	mg/kg	09.30.2020 17:12	U	1
n-Butylbenzene	104-51-8	<0.000250	0.00456	0.000250	mg/kg	09.30.2020 17:12	U	1
Carbon Tetrachloride	56-23-5	<0.00116	0.00353	0.00116	mg/kg	10.01.2020 18:37	U	1
Chlorobenzene	108-90-7	<0.000216	0.00456	0.000216	mg/kg	09.30.2020 17:12	U	1
Chloroethane	75-00-3	<0.000405	0.00912	0.000405	mg/kg	09.30.2020 17:12	U	1
Chloroform	67-66-3	<0.000158	0.00456	0.000158	mg/kg	09.30.2020 17:12	U	1
Methyl Chloride	74-87-3	<0.000393	0.00456	0.000393	mg/kg	09.30.2020 17:12	U	1
2-Chlorotoluene	95-49-8	<0.000312	0.00456	0.000312	mg/kg	09.30.2020 17:12	U	1
4-Chlorotoluene	106-43-4	<0.000240	0.00456	0.000240	mg/kg	09.30.2020 17:12	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000291	0.00456	0.000291	mg/kg	09.30.2020 17:12	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000642	0.00456	0.000642	mg/kg	09.30.2020 17:12	U	1
Dibromochloromethane	124-48-1	<0.000816	0.00456	0.000816	mg/kg	09.30.2020 17:12	U	1
1,2-Dibromoethane	106-93-4	<0.000952	0.00456	0.000952	mg/kg	09.30.2020 17:12	U	1
Methylene Bromide	74-95-3	<0.000338	0.00456	0.000338	mg/kg	09.30.2020 17:12	U	1
1,2-Dichlorobenzene	95-50-1	<0.000262	0.00456	0.000262	mg/kg	09.30.2020 17:12	U	1
1,3-Dichlorobenzene	541-73-1	<0.000249	0.00456	0.000249	mg/kg	09.30.2020 17:12	U	1
1,4-Dichlorobenzene	106-46-7	<0.000196	0.00456	0.000196	mg/kg	09.30.2020 17:12	U	1
Dichlorodifluoromethane	75-71-8	<0.00102	0.00456	0.00102	mg/kg	09.30.2020 17:12	U	1
1,2-Dichloroethane	107-06-2	<0.000277	0.00456	0.000277	mg/kg	09.30.2020 17:12	U	1
1,1-Dichloroethane	75-34-3	<0.000343	0.00456	0.000343	mg/kg	09.30.2020 17:12	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000396	0.00456	0.000396	mg/kg	09.30.2020 17:12	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000274	0.00456	0.000274	mg/kg	09.30.2020 17:12	U	1
1,1-Dichloroethene	75-35-4	<0.000253	0.00456	0.000253	mg/kg	09.30.2020 17:12	U	1
2,2-Dichloropropane	594-20-7	<0.000478	0.00456	0.000478	mg/kg	09.30.2020 17:12	U	1
1,3-Dichloropropane	142-28-9	<0.000373	0.00456	0.000373	mg/kg	09.30.2020 17:12	U	1
1,2-Dichloropropane	78-87-5	<0.000181	0.00456	0.000181	mg/kg	09.30.2020 17:12	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000830	0.00456	0.000830	mg/kg	09.30.2020 17:12	U	1
1,1-Dichloropropene	563-58-6	<0.000316	0.00353	0.000316	mg/kg	10.01.2020 18:37	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000209	0.00456	0.000209	mg/kg	09.30.2020 17:12	U	1
Ethylbenzene	100-41-4	<0.000306	0.000912	0.000306	mg/kg	09.30.2020 17:12	U	1
Hexachlorobutadiene	87-68-3	<0.00182	0.00456	0.00182	mg/kg	09.30.2020 17:12	U	1
Isopropylbenzene	98-82-8	<0.000159	0.00456	0.000159	mg/kg	09.30.2020 17:12	U	1
Methylene Chloride	75-09-2	<0.00385	0.0182	0.00385	mg/kg	09.30.2020 17:12	U	1
MTBE	1634-04-4	<0.000373	0.00456	0.000373	mg/kg	09.30.2020 17:12	U	1
Naphthalene	91-20-3	<0.00182	0.00912	0.00182	mg/kg	09.30.2020 17:12	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-001	Date Collected: 09.25.2020 09:05	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist: 15.55	Tech: NAL
Seq Number: 3138623	Date Prep: 09.30.2020 15:00	

Parameter	CAS Number	Prep seq: 7712449 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000261	0.00456	0.000261	mg/kg	09.30.2020 17:12	U	1
Styrene	100-42-5	<0.000187	0.00456	0.000187	mg/kg	09.30.2020 17:12	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000243	0.00456	0.000243	mg/kg	09.30.2020 17:12	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000428	0.00456	0.000428	mg/kg	09.30.2020 17:12	U	1
Tetrachloroethylene	127-18-4	<0.000337	0.00456	0.000337	mg/kg	09.30.2020 17:12	U	1
Toluene	108-88-3	<0.000912	0.00456	0.000912	mg/kg	09.30.2020 17:12	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00182	0.00456	0.00182	mg/kg	09.30.2020 17:12	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00182	0.00456	0.00182	mg/kg	09.30.2020 17:12	U	1
1,1,2-Trichloroethane	79-00-5	<0.000358	0.00456	0.000358	mg/kg	09.30.2020 17:12	U	1
1,1,1-Trichloroethane	71-55-6	<0.000459	0.00456	0.000459	mg/kg	09.30.2020 17:12	U	1
Trichloroethylene	79-01-6	<0.000451	0.00456	0.000451	mg/kg	09.30.2020 17:12	U	1
Trichlorofluoromethane	75-69-4	<0.000280	0.00456	0.000280	mg/kg	09.30.2020 17:12	U	1
1,2,3-Trichloropropane	96-18-4	<0.000410	0.00456	0.000410	mg/kg	09.30.2020 17:12	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000233	0.00456	0.000233	mg/kg	09.30.2020 17:12	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000264	0.00456	0.000264	mg/kg	09.30.2020 17:12	U	1
Vinyl Chloride	75-01-4	<0.000403	0.00456	0.000403	mg/kg	09.30.2020 17:12	U	1
o-Xylene	95-47-6	<0.000899	0.000912	0.000899	mg/kg	09.30.2020 17:12	U	1
m,p-Xylenes	179601-23-1	<0.000730	0.00182	0.000730	mg/kg	09.30.2020 17:12	U	1
Total Xylenes	1330-20-7	<0.000730		0.000730	mg/kg	09.30.2020 17:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	113	53 - 142	%		
1,2-Dichloroethane-D4	109	56 - 150	%		
Toluene-D8	90	70 - 130	%		
4-Bromofluorobenzene	97	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-02 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-002	Date Collected: 09.25.2020 08:12	Date Received: 09.25.2020 18:15
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 19.06	
Seq Number: 3138668	Date Prep: 10.01.2020 15:40	Tech: DEP
	Prep seq: 7712470	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	4.42	4.41	0.681	mg/kg	10.01.2020 19:58		10
Barium	7440-39-3	99.6	4.41	0.383	mg/kg	10.01.2020 19:58		10
Cadmium	7440-43-9	0.204	2.21	0.128	mg/kg	10.01.2020 19:58	J	10
Chromium	7440-47-3	7.52	4.41	0.299	mg/kg	10.01.2020 19:58		10
Lead	7439-92-1	28.0	2.21	0.214	mg/kg	10.01.2020 19:58		10
Selenium	7782-49-2	<0.547	2.21	0.547	mg/kg	10.01.2020 19:58	U	10
Silver	7440-22-4	<0.175	2.21	0.175	mg/kg	10.01.2020 19:58	U	10

Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist:	
Seq Number: 3138549	Date Prep: 09.30.2020 07:40	Tech: ANJ
	Prep seq: 7712332	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0197	0.0200	0.00384	mg/kg	09.30.2020 17:21	J	1

Analytical Method: SPLP Metals per ICP by SW-846 6010B		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3139332	Date Prep: 10.09.2020 10:05	Tech: DEP
	Prep seq: 7712957	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	<0.00336	0.0100	0.00336	mg/L	10.09.2020 15:20	U	1
Lead	7439-92-1	<0.00183	0.0100	0.00183	mg/L	10.09.2020 15:20	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-02 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-002	Date Collected: 09.25.2020 08:12	Date Received: 09.25.2020 18:15
Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 19.06	
Seq Number: 3138396	Date Prep: 09.28.2020 14:18	Tech: ISU
	Prep seq: 7712199	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	29.9	68.9	29.1	mg/kg	09.29.2020 00:39	J	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	206	68.9	29.1	mg/kg	09.29.2020 00:39		1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	72.1	68.9	29.1	mg/kg	09.29.2020 00:39		1
Total TPH	PHC635	308		29.1	mg/kg	09.29.2020 00:39		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	106	70 - 130	%		
1-Chlorooctane	104	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-02 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-002	Date Collected: 09.25.2020 08:12	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist: 19.06	
Seq Number: 3138623	Date Prep: 09.30.2020 15:00	Tech: NAL
	Prep seq: 7712449	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000223	0.00108	0.000223	mg/kg	09.30.2020 17:35	U	1
Bromobenzene	108-86-1	<0.000373	0.00538	0.000373	mg/kg	09.30.2020 17:35	U	1
Bromochloromethane	74-97-5	<0.000566	0.00538	0.000566	mg/kg	09.30.2020 17:35	U	1
Bromodichloromethane	75-27-4	<0.000270	0.00538	0.000270	mg/kg	09.30.2020 17:35	U	1
Bromoform	75-25-2	<0.00111	0.00538	0.00111	mg/kg	09.30.2020 17:35	U	1
Methyl bromide	74-83-9	<0.00102	0.00538	0.00102	mg/kg	09.30.2020 17:35	UH	1
2-Butanone	78-93-3	0.238	0.469	0.0855	mg/kg	10.01.2020 19:23	J	25
tert-Butylbenzene	98-06-6	<0.00138	0.00538	0.00138	mg/kg	09.30.2020 17:35	U	1
Sec-Butylbenzene	135-98-8	<0.000281	0.00538	0.000281	mg/kg	09.30.2020 17:35	U	1
n-Butylbenzene	104-51-8	<0.000295	0.00538	0.000295	mg/kg	09.30.2020 17:35	U	1
Carbon Tetrachloride	56-23-5	<0.0385	0.117	0.0385	mg/kg	10.01.2020 19:23	U	25
Chlorobenzene	108-90-7	<0.000255	0.00538	0.000255	mg/kg	09.30.2020 17:35	U	1
Chloroethane	75-00-3	<0.000478	0.0108	0.000478	mg/kg	09.30.2020 17:35	U	1
Chloroform	67-66-3	<0.000186	0.00538	0.000186	mg/kg	09.30.2020 17:35	U	1
Methyl Chloride	74-87-3	<0.000463	0.00538	0.000463	mg/kg	09.30.2020 17:35	U	1
2-Chlorotoluene	95-49-8	<0.000368	0.00538	0.000368	mg/kg	09.30.2020 17:35	U	1
4-Chlorotoluene	106-43-4	<0.000284	0.00538	0.000284	mg/kg	09.30.2020 17:35	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000343	0.00538	0.000343	mg/kg	09.30.2020 17:35	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000758	0.00538	0.000758	mg/kg	09.30.2020 17:35	U	1
Dibromochloromethane	124-48-1	<0.000963	0.00538	0.000963	mg/kg	09.30.2020 17:35	U	1
1,2-Dibromoethane	106-93-4	<0.00112	0.00538	0.00112	mg/kg	09.30.2020 17:35	U	1
Methylene Bromide	74-95-3	<0.000399	0.00538	0.000399	mg/kg	09.30.2020 17:35	U	1
1,2-Dichlorobenzene	95-50-1	<0.000310	0.00538	0.000310	mg/kg	09.30.2020 17:35	U	1
1,3-Dichlorobenzene	541-73-1	<0.000293	0.00538	0.000293	mg/kg	09.30.2020 17:35	U	1
1,4-Dichlorobenzene	106-46-7	<0.000231	0.00538	0.000231	mg/kg	09.30.2020 17:35	U	1
Dichlorodifluoromethane	75-71-8	<0.00120	0.00538	0.00120	mg/kg	09.30.2020 17:35	U	1
1,2-Dichloroethane	107-06-2	<0.000327	0.00538	0.000327	mg/kg	09.30.2020 17:35	U	1
1,1-Dichloroethane	75-34-3	<0.000405	0.00538	0.000405	mg/kg	09.30.2020 17:35	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000467	0.00538	0.000467	mg/kg	09.30.2020 17:35	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000324	0.00538	0.000324	mg/kg	09.30.2020 17:35	U	1
1,1-Dichloroethene	75-35-4	<0.000298	0.00538	0.000298	mg/kg	09.30.2020 17:35	U	1
2,2-Dichloropropane	594-20-7	<0.000564	0.00538	0.000564	mg/kg	09.30.2020 17:35	U	1
1,3-Dichloropropane	142-28-9	<0.000440	0.00538	0.000440	mg/kg	09.30.2020 17:35	U	1
1,2-Dichloropropane	78-87-5	<0.000214	0.00538	0.000214	mg/kg	09.30.2020 17:35	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000979	0.00538	0.000979	mg/kg	09.30.2020 17:35	U	1
1,1-Dichloropropene	563-58-6	<0.0105	0.117	0.0105	mg/kg	10.01.2020 19:23	U	25
cis-1,3-Dichloropropene	10061-01-5	<0.000247	0.00538	0.000247	mg/kg	09.30.2020 17:35	U	1
Ethylbenzene	100-41-4	<0.000361	0.00108	0.000361	mg/kg	09.30.2020 17:35	U	1
Hexachlorobutadiene	87-68-3	<0.00215	0.00538	0.00215	mg/kg	09.30.2020 17:35	U	1
Isopropylbenzene	98-82-8	<0.000187	0.00538	0.000187	mg/kg	09.30.2020 17:35	U	1
Methylene Chloride	75-09-2	<0.00454	0.0215	0.00454	mg/kg	09.30.2020 17:35	U	1
MTBE	1634-04-4	<0.000440	0.00538	0.000440	mg/kg	09.30.2020 17:35	U	1
Naphthalene	91-20-3	<0.00215	0.0108	0.00215	mg/kg	09.30.2020 17:35	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-02 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-002	Date Collected: 09.25.2020 08:12	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist: 19.06	Tech: NAL
Seq Number: 3138623	Date Prep: 09.30.2020 15:00	

Parameter	CAS Number	Prep seq: 7712449 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000308	0.00538	0.000308	mg/kg	09.30.2020 17:35	U	1
Styrene	100-42-5	<0.000221	0.00538	0.000221	mg/kg	09.30.2020 17:35	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000287	0.00538	0.000287	mg/kg	09.30.2020 17:35	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000505	0.00538	0.000505	mg/kg	09.30.2020 17:35	U	1
Tetrachloroethylene	127-18-4	<0.000398	0.00538	0.000398	mg/kg	09.30.2020 17:35	U	1
Toluene	108-88-3	<0.00108	0.00538	0.00108	mg/kg	09.30.2020 17:35	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00215	0.00538	0.00215	mg/kg	09.30.2020 17:35	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00215	0.00538	0.00215	mg/kg	09.30.2020 17:35	U	1
1,1,2-Trichloroethane	79-00-5	<0.000422	0.00538	0.000422	mg/kg	09.30.2020 17:35	U	1
1,1,1-Trichloroethane	71-55-6	<0.000541	0.00538	0.000541	mg/kg	09.30.2020 17:35	U	1
Trichloroethylene	79-01-6	<0.000532	0.00538	0.000532	mg/kg	09.30.2020 17:35	U	1
Trichlorofluoromethane	75-69-4	<0.000331	0.00538	0.000331	mg/kg	09.30.2020 17:35	U	1
1,2,3-Trichloropropane	96-18-4	<0.000484	0.00538	0.000484	mg/kg	09.30.2020 17:35	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000274	0.00538	0.000274	mg/kg	09.30.2020 17:35	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000311	0.00538	0.000311	mg/kg	09.30.2020 17:35	U	1
Vinyl Chloride	75-01-4	<0.000475	0.00538	0.000475	mg/kg	09.30.2020 17:35	U	1
o-Xylene	95-47-6	<0.00106	0.00108	0.00106	mg/kg	09.30.2020 17:35	U	1
m,p-Xylenes	179601-23-1	<0.000861	0.00215	0.000861	mg/kg	09.30.2020 17:35	U	1
Total Xylenes	1330-20-7	<0.000861		0.000861	mg/kg	09.30.2020 17:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	104	53 - 142	%		
1,2-Dichloroethane-D4	97	56 - 150	%		
Toluene-D8	100	70 - 130	%		
4-Bromofluorobenzene	102	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-03 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-003	Date Collected: 09.25.2020 11:26	Date Received: 09.25.2020 18:15
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 16.74	
Seq Number: 3138668	Date Prep: 10.01.2020 15:40	Tech: DEP
	Prep seq: 7712470	

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	2.14	4.53	0.699	mg/kg	10.01.2020 20:01	J	10
Barium	7440-39-3	76.6	4.53	0.393	mg/kg	10.01.2020 20:01		10
Cadmium	7440-43-9	<0.131	2.27	0.131	mg/kg	10.01.2020 20:01	U	10
Chromium	7440-47-3	9.89	4.53	0.307	mg/kg	10.01.2020 20:01		10
Lead	7439-92-1	9.56	2.27	0.219	mg/kg	10.01.2020 20:01		10
Selenium	7782-49-2	0.730	2.27	0.562	mg/kg	10.01.2020 20:01	J	10
Silver	7440-22-4	<0.180	2.27	0.180	mg/kg	10.01.2020 20:01	U	10

Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist:	
Seq Number: 3138549	Date Prep: 09.30.2020 07:40	Tech: ANJ
	Prep seq: 7712332	

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0309	0.0182	0.00349	mg/kg	09.30.2020 17:24		1

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 16.74	
Seq Number: 3138396	Date Prep: 09.28.2020 14:21	Tech: ISU
	Prep seq: 7712199	

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<19.2	45.4	19.2	mg/kg	09.29.2020 01:00	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<19.2	45.4	19.2	mg/kg	09.29.2020 01:00	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<19.2	45.4	19.2	mg/kg	09.29.2020 01:00	U	1
Total TPH	PHC635	<19.2		19.2	mg/kg	09.29.2020 01:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	96	70 - 130	%		
1-Chlorooctane	95	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-03 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-003	Date Collected: 09.25.2020 11:26	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist: 16.74	
Seq Number: 3138623	Date Prep: 09.30.2020 15:00	Tech: NAL
	Prep seq: 7712449	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000175	0.000846	0.000175	mg/kg	09.30.2020 17:58	U	1
Bromobenzene	108-86-1	<0.000293	0.00423	0.000293	mg/kg	09.30.2020 17:58	U	1
Bromochloromethane	74-97-5	<0.000445	0.00423	0.000445	mg/kg	09.30.2020 17:58	U	1
Bromodichloromethane	75-27-4	<0.000212	0.00423	0.000212	mg/kg	09.30.2020 17:58	U	1
Bromoform	75-25-2	<0.000874	0.00423	0.000874	mg/kg	09.30.2020 17:58	U	1
Methyl bromide	74-83-9	<0.000798	0.00423	0.000798	mg/kg	09.30.2020 17:58	UH	1
2-Butanone	78-93-3	<0.00335	0.0184	0.00335	mg/kg	10.01.2020 19:00	U	1
tert-Butylbenzene	98-06-6	<0.00109	0.00423	0.00109	mg/kg	09.30.2020 17:58	U	1
Sec-Butylbenzene	135-98-8	<0.000221	0.00423	0.000221	mg/kg	09.30.2020 17:58	U	1
n-Butylbenzene	104-51-8	<0.000232	0.00423	0.000232	mg/kg	09.30.2020 17:58	U	1
Carbon Tetrachloride	56-23-5	<0.00151	0.00460	0.00151	mg/kg	10.01.2020 19:00	U	1
Chlorobenzene	108-90-7	<0.000200	0.00423	0.000200	mg/kg	09.30.2020 17:58	U	1
Chloroethane	75-00-3	<0.000376	0.00846	0.000376	mg/kg	09.30.2020 17:58	U	1
Chloroform	67-66-3	<0.000146	0.00423	0.000146	mg/kg	09.30.2020 17:58	U	1
Methyl Chloride	74-87-3	<0.000364	0.00423	0.000364	mg/kg	09.30.2020 17:58	U	1
2-Chlorotoluene	95-49-8	<0.000289	0.00423	0.000289	mg/kg	09.30.2020 17:58	U	1
4-Chlorotoluene	106-43-4	<0.000223	0.00423	0.000223	mg/kg	09.30.2020 17:58	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000269	0.00423	0.000269	mg/kg	09.30.2020 17:58	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000595	0.00423	0.000595	mg/kg	09.30.2020 17:58	U	1
Dibromochloromethane	124-48-1	<0.000757	0.00423	0.000757	mg/kg	09.30.2020 17:58	U	1
1,2-Dibromoethane	106-93-4	<0.000883	0.00423	0.000883	mg/kg	09.30.2020 17:58	U	1
Methylene Bromide	74-95-3	<0.000314	0.00423	0.000314	mg/kg	09.30.2020 17:58	U	1
1,2-Dichlorobenzene	95-50-1	<0.000243	0.00423	0.000243	mg/kg	09.30.2020 17:58	U	1
1,3-Dichlorobenzene	541-73-1	<0.000231	0.00423	0.000231	mg/kg	09.30.2020 17:58	U	1
1,4-Dichlorobenzene	106-46-7	<0.000181	0.00423	0.000181	mg/kg	09.30.2020 17:58	U	1
Dichlorodifluoromethane	75-71-8	<0.000942	0.00423	0.000942	mg/kg	09.30.2020 17:58	U	1
1,2-Dichloroethane	107-06-2	<0.000257	0.00423	0.000257	mg/kg	09.30.2020 17:58	U	1
1,1-Dichloroethane	75-34-3	<0.000318	0.00423	0.000318	mg/kg	09.30.2020 17:58	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000367	0.00423	0.000367	mg/kg	09.30.2020 17:58	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000254	0.00423	0.000254	mg/kg	09.30.2020 17:58	U	1
1,1-Dichloroethene	75-35-4	<0.000234	0.00423	0.000234	mg/kg	09.30.2020 17:58	U	1
2,2-Dichloropropane	594-20-7	<0.000443	0.00423	0.000443	mg/kg	09.30.2020 17:58	U	1
1,3-Dichloropropane	142-28-9	<0.000346	0.00423	0.000346	mg/kg	09.30.2020 17:58	U	1
1,2-Dichloropropane	78-87-5	<0.000168	0.00423	0.000168	mg/kg	09.30.2020 17:58	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000769	0.00423	0.000769	mg/kg	09.30.2020 17:58	U	1
1,1-Dichloropropene	563-58-6	<0.000412	0.00460	0.000412	mg/kg	10.01.2020 19:00	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000194	0.00423	0.000194	mg/kg	09.30.2020 17:58	U	1
Ethylbenzene	100-41-4	<0.000284	0.000846	0.000284	mg/kg	09.30.2020 17:58	U	1
Hexachlorobutadiene	87-68-3	<0.00169	0.00423	0.00169	mg/kg	09.30.2020 17:58	U	1
Isopropylbenzene	98-82-8	<0.000147	0.00423	0.000147	mg/kg	09.30.2020 17:58	U	1
Methylene Chloride	75-09-2	<0.00357	0.0169	0.00357	mg/kg	09.30.2020 17:58	U	1
MTBE	1634-04-4	<0.000346	0.00423	0.000346	mg/kg	09.30.2020 17:58	U	1
Naphthalene	91-20-3	<0.00169	0.00846	0.00169	mg/kg	09.30.2020 17:58	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-03 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-003	Date Collected: 09.25.2020 11:26	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist: 16.74	Tech: NAL
Seq Number: 3138623	Date Prep: 09.30.2020 15:00	

Parameter	CAS Number	Prep seq: 7712449 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000242	0.00423	0.000242	mg/kg	09.30.2020 17:58	U	1
Styrene	100-42-5	<0.000174	0.00423	0.000174	mg/kg	09.30.2020 17:58	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000226	0.00423	0.000226	mg/kg	09.30.2020 17:58	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000397	0.00423	0.000397	mg/kg	09.30.2020 17:58	U	1
Tetrachloroethylene	127-18-4	<0.000313	0.00423	0.000313	mg/kg	09.30.2020 17:58	U	1
Toluene	108-88-3	<0.000846	0.00423	0.000846	mg/kg	09.30.2020 17:58	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00169	0.00423	0.00169	mg/kg	09.30.2020 17:58	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00169	0.00423	0.00169	mg/kg	09.30.2020 17:58	U	1
1,1,2-Trichloroethane	79-00-5	<0.000332	0.00423	0.000332	mg/kg	09.30.2020 17:58	U	1
1,1,1-Trichloroethane	71-55-6	<0.000425	0.00423	0.000425	mg/kg	09.30.2020 17:58	U	1
Trichloroethylene	79-01-6	<0.000418	0.00423	0.000418	mg/kg	09.30.2020 17:58	U	1
Trichlorofluoromethane	75-69-4	<0.000260	0.00423	0.000260	mg/kg	09.30.2020 17:58	U	1
1,2,3-Trichloropropane	96-18-4	<0.000380	0.00423	0.000380	mg/kg	09.30.2020 17:58	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000216	0.00423	0.000216	mg/kg	09.30.2020 17:58	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000244	0.00423	0.000244	mg/kg	09.30.2020 17:58	U	1
Vinyl Chloride	75-01-4	<0.000373	0.00423	0.000373	mg/kg	09.30.2020 17:58	U	1
o-Xylene	95-47-6	<0.000833	0.000846	0.000833	mg/kg	09.30.2020 17:58	U	1
m,p-Xylenes	179601-23-1	<0.000677	0.00169	0.000677	mg/kg	09.30.2020 17:58	U	1
Total Xylenes	1330-20-7	<0.000677		0.000677	mg/kg	09.30.2020 17:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	110	53 - 142	%		
1,2-Dichloroethane-D4	105	56 - 150	%		
Toluene-D8	96	70 - 130	%		
4-Bromofluorobenzene	98	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 SB-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-004	Date Collected: 09.25.2020 09:57	Date Received: 09.25.2020 18:15
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 16.57	
Seq Number: 3138668	Date Prep: 10.01.2020 15:40	Tech: DEP
	Prep seq: 7712470	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	4.88	4.79	0.739	mg/kg	10.01.2020 20:04		10
Barium	7440-39-3	203	4.79	0.416	mg/kg	10.01.2020 20:04		10
Cadmium	7440-43-9	<0.139	2.40	0.139	mg/kg	10.01.2020 20:04	U	10
Chromium	7440-47-3	19.1	4.79	0.325	mg/kg	10.01.2020 20:04		10
Lead	7439-92-1	11.4	2.40	0.232	mg/kg	10.01.2020 20:04		10
Selenium	7782-49-2	0.891	2.40	0.595	mg/kg	10.01.2020 20:04	J	10
Silver	7440-22-4	<0.190	2.40	0.190	mg/kg	10.01.2020 20:04	U	10

Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist:	
Seq Number: 3138549	Date Prep: 09.30.2020 07:40	Tech: ANJ
	Prep seq: 7712332	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.00363	0.0189	0.00363	mg/kg	09.30.2020 17:39	U	1

Analytical Method: Soil pH by SW-846 9045C		Prep Method:
Analyst: KBU	% Moist:	
Seq Number: 3138392	Date Prep:	Tech: KBU
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Soil pH meas. in water at	TEMP	24.1			Deg C	09.29.2020 11:43		1
pH	12408-02-5	8.11			SU	09.29.2020 11:43		

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ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id: T-2 SB-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-004	Date Collected: 09.25.2020 09:57	Date Received: 09.25.2020 18:15
Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 16.57	
Seq Number: 3138396	Date Prep: 09.28.2020 14:24	Tech: ISU
	Prep seq: 7712199	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<18.7	44.2	18.7	mg/kg	09.29.2020 10:29	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<18.7	44.2	18.7	mg/kg	09.29.2020 10:29	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<18.7	44.2	18.7	mg/kg	09.29.2020 10:29	U	1
Total TPH	PHC635	<18.7		18.7	mg/kg	09.29.2020 10:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	106	70 - 130	%		
1-Chlorooctane	106	70 - 130	%		

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: T-2 SB-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-004	Date Collected: 09.25.2020 09:57	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 16.57	
Seq Number: 3138770	Date Prep: 10.01.2020 13:30	Tech: SAD
	Prep seq: 7712570	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000197	0.000953	0.000197	mg/kg	10.01.2020 16:40	U	1
Bromobenzene	108-86-1	<0.000330	0.00476	0.000330	mg/kg	10.01.2020 16:40	U	1
Bromochloromethane	74-97-5	<0.000501	0.00476	0.000501	mg/kg	10.01.2020 16:40	U	1
Bromodichloromethane	75-27-4	<0.000239	0.00476	0.000239	mg/kg	10.01.2020 16:40	U	1
Bromoform	75-25-2	<0.000984	0.00476	0.000984	mg/kg	10.01.2020 16:40	U	1
Methyl bromide	74-83-9	<0.000899	0.00476	0.000899	mg/kg	10.01.2020 16:40	UH	1
2-Butanone	78-93-3	0.00636	0.0191	0.00347	mg/kg	10.01.2020 16:40	J	1
tert-Butylbenzene	98-06-6	<0.00122	0.00476	0.00122	mg/kg	10.01.2020 16:40	U	1
Sec-Butylbenzene	135-98-8	<0.000248	0.00476	0.000248	mg/kg	10.01.2020 16:40	U	1
n-Butylbenzene	104-51-8	<0.000261	0.00476	0.000261	mg/kg	10.01.2020 16:40	U	1
Carbon Tetrachloride	56-23-5	<0.00157	0.00476	0.00157	mg/kg	10.01.2020 16:40	U	1
Chlorobenzene	108-90-7	<0.000226	0.00476	0.000226	mg/kg	10.01.2020 16:40	U	1
Chloroethane	75-00-3	<0.000423	0.00953	0.000423	mg/kg	10.01.2020 16:40	U	1
Chloroform	67-66-3	<0.000165	0.00476	0.000165	mg/kg	10.01.2020 16:40	U	1
Methyl Chloride	74-87-3	<0.000410	0.00476	0.000410	mg/kg	10.01.2020 16:40	U	1
2-Chlorotoluene	95-49-8	<0.000326	0.00476	0.000326	mg/kg	10.01.2020 16:40	U	1
4-Chlorotoluene	106-43-4	<0.000251	0.00476	0.000251	mg/kg	10.01.2020 16:40	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000303	0.00476	0.000303	mg/kg	10.01.2020 16:40	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000671	0.00476	0.000671	mg/kg	10.01.2020 16:40	U	1
Dibromochloromethane	124-48-1	<0.000852	0.00476	0.000852	mg/kg	10.01.2020 16:40	U	1
1,2-Dibromoethane	106-93-4	<0.000994	0.00476	0.000994	mg/kg	10.01.2020 16:40	U	1
Methylene Bromide	74-95-3	<0.000353	0.00476	0.000353	mg/kg	10.01.2020 16:40	U	1
1,2-Dichlorobenzene	95-50-1	<0.000274	0.00476	0.000274	mg/kg	10.01.2020 16:40	U	1
1,3-Dichlorobenzene	541-73-1	<0.000260	0.00476	0.000260	mg/kg	10.01.2020 16:40	U	1
1,4-Dichlorobenzene	106-46-7	<0.000204	0.00476	0.000204	mg/kg	10.01.2020 16:40	U	1
Dichlorodifluoromethane	75-71-8	<0.00106	0.00476	0.00106	mg/kg	10.01.2020 16:40	U	1
1,2-Dichloroethane	107-06-2	<0.000289	0.00476	0.000289	mg/kg	10.01.2020 16:40	U	1
1,1-Dichloroethane	75-34-3	<0.000358	0.00476	0.000358	mg/kg	10.01.2020 16:40	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000413	0.00476	0.000413	mg/kg	10.01.2020 16:40	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000286	0.00476	0.000286	mg/kg	10.01.2020 16:40	U	1
1,1-Dichloroethene	75-35-4	<0.000264	0.00476	0.000264	mg/kg	10.01.2020 16:40	U	1
2,2-Dichloropropane	594-20-7	<0.000500	0.00476	0.000500	mg/kg	10.01.2020 16:40	U	1
1,3-Dichloropropane	142-28-9	<0.000390	0.00476	0.000390	mg/kg	10.01.2020 16:40	U	1
1,2-Dichloropropane	78-87-5	<0.000189	0.00476	0.000189	mg/kg	10.01.2020 16:40	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000867	0.00476	0.000867	mg/kg	10.01.2020 16:40	U	1
1,1-Dichloropropene	563-58-6	<0.000427	0.00476	0.000427	mg/kg	10.01.2020 16:40	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000219	0.00476	0.000219	mg/kg	10.01.2020 16:40	U	1
Ethylbenzene	100-41-4	<0.000320	0.000953	0.000320	mg/kg	10.01.2020 16:40	U	1
Hexachlorobutadiene	87-68-3	<0.00191	0.00476	0.00191	mg/kg	10.01.2020 16:40	U	1
Isopropylbenzene	98-82-8	<0.000166	0.00476	0.000166	mg/kg	10.01.2020 16:40	U	1
Methylene Chloride	75-09-2	<0.00402	0.0191	0.00402	mg/kg	10.01.2020 16:40	U	1
MTBE	1634-04-4	<0.000389	0.00476	0.000389	mg/kg	10.01.2020 16:40	U	1
Naphthalene	91-20-3	<0.00191	0.00953	0.00191	mg/kg	10.01.2020 16:40	U	1

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: T-2 SB-01 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673676-004	Date Collected: 09.25.2020 09:57	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 16.57	Tech: SAD
Seq Number: 3138770	Date Prep: 10.01.2020 13:30	

Parameter	CAS Number	Prep seq: 7712570 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000272	0.00476	0.000272	mg/kg	10.01.2020 16:40	U	1
Styrene	100-42-5	<0.000196	0.00476	0.000196	mg/kg	10.01.2020 16:40	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000254	0.00476	0.000254	mg/kg	10.01.2020 16:40	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000447	0.00476	0.000447	mg/kg	10.01.2020 16:40	U	1
Tetrachloroethylene	127-18-4	<0.000352	0.00476	0.000352	mg/kg	10.01.2020 16:40	U	1
Toluene	108-88-3	<0.000953	0.00476	0.000953	mg/kg	10.01.2020 16:40	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00191	0.00476	0.00191	mg/kg	10.01.2020 16:40	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00191	0.00476	0.00191	mg/kg	10.01.2020 16:40	U	1
1,1,2-Trichloroethane	79-00-5	<0.000374	0.00476	0.000374	mg/kg	10.01.2020 16:40	U	1
1,1,1-Trichloroethane	71-55-6	<0.000479	0.00476	0.000479	mg/kg	10.01.2020 16:40	U	1
Trichloroethylene	79-01-6	<0.000471	0.00476	0.000471	mg/kg	10.01.2020 16:40	U	1
Trichlorofluoromethane	75-69-4	<0.000293	0.00476	0.000293	mg/kg	10.01.2020 16:40	U	1
1,2,3-Trichloropropane	96-18-4	<0.000428	0.00476	0.000428	mg/kg	10.01.2020 16:40	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000243	0.00476	0.000243	mg/kg	10.01.2020 16:40	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000275	0.00476	0.000275	mg/kg	10.01.2020 16:40	U	1
Vinyl Chloride	75-01-4	<0.000420	0.00476	0.000420	mg/kg	10.01.2020 16:40	U	1
o-Xylene	95-47-6	<0.000938	0.000953	0.000938	mg/kg	10.01.2020 16:40	U	1
m,p-Xylenes	179601-23-1	<0.000762	0.00191	0.000762	mg/kg	10.01.2020 16:40	U	1
Total Xylenes	1330-20-7	<0.000762		0.000762	mg/kg	10.01.2020 16:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	113	53 - 142	%		
1,2-Dichloroethane-D4	108	56 - 150	%		
Toluene-D8	93	70 - 130	%		
4-Bromofluorobenzene	101	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 SB-02 (8-10)	Matrix: Soil	Sample Depth: 8 - 10 ft
Lab Sample Id: 673676-005	Date Collected: 09.25.2020 10:47	Date Received: 09.25.2020 18:15
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 16.08	
Seq Number: 3138668	Date Prep: 10.01.2020 15:40	Tech: DEP
	Prep seq: 7712470	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	1.36	4.67	0.721	mg/kg	10.01.2020 20:07	J	10
Barium	7440-39-3	58.4	4.67	0.405	mg/kg	10.01.2020 20:07		10
Cadmium	7440-43-9	<0.135	2.34	0.135	mg/kg	10.01.2020 20:07	U	10
Chromium	7440-47-3	6.69	4.67	0.317	mg/kg	10.01.2020 20:07		10
Lead	7439-92-1	6.86	2.34	0.226	mg/kg	10.01.2020 20:07		10
Selenium	7782-49-2	<0.580	2.34	0.580	mg/kg	10.01.2020 20:07	U	10
Silver	7440-22-4	<0.186	2.34	0.186	mg/kg	10.01.2020 20:07	U	10

Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist:	
Seq Number: 3138549	Date Prep: 09.30.2020 07:40	Tech: ANJ
	Prep seq: 7712332	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0214	0.0185	0.00356	mg/kg	09.30.2020 17:41		1

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 16.08	
Seq Number: 3138396	Date Prep: 09.28.2020 14:27	Tech: ISU
	Prep seq: 7712199	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	156	47.4	20.0	mg/kg	09.29.2020 01:41		1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<20.0	47.4	20.0	mg/kg	09.29.2020 01:41	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<20.0	47.4	20.0	mg/kg	09.29.2020 01:41	U	1
Total TPH	PHC635	156		20.0	mg/kg	09.29.2020 01:41		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	103	70 - 130	%		
1-Chlorooctane	108	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 SB-02 (8-10)	Matrix: Soil	Sample Depth: 8 - 10 ft
Lab Sample Id: 673676-005	Date Collected: 09.25.2020 10:47	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 16.08	
Seq Number: 3138770	Date Prep: 10.01.2020 16:00	Tech: SAD
	Prep seq: 7712570	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	7.94	0.111	0.0230	mg/kg	10.01.2020 20:56		100
Bromobenzene	108-86-1	<0.0385	0.556	0.0385	mg/kg	10.01.2020 20:56	U	100
Bromochloromethane	74-97-5	<0.0584	0.556	0.0584	mg/kg	10.01.2020 20:56	U	100
Bromodichloromethane	75-27-4	<0.0279	0.556	0.0279	mg/kg	10.01.2020 20:56	U	100
Bromoform	75-25-2	<0.115	0.556	0.115	mg/kg	10.01.2020 20:56	U	100
Methyl bromide	74-83-9	<0.105	0.556	0.105	mg/kg	10.01.2020 20:56	UH	100
2-Butanone	78-93-3	<0.405	2.22	0.405	mg/kg	10.01.2020 20:56	U	100
tert-Butylbenzene	98-06-6	<0.143	0.556	0.143	mg/kg	10.01.2020 20:56	U	100
Sec-Butylbenzene	135-98-8	0.536	0.556	0.0290	mg/kg	10.01.2020 20:56	J	100
n-Butylbenzene	104-51-8	2.84	0.556	0.0304	mg/kg	10.01.2020 20:56		100
Carbon Tetrachloride	56-23-5	<0.183	0.556	0.183	mg/kg	10.01.2020 20:56	U	100
Chlorobenzene	108-90-7	<0.0263	0.556	0.0263	mg/kg	10.01.2020 20:56	U	100
Chloroethane	75-00-3	<0.0494	1.11	0.0494	mg/kg	10.01.2020 20:56	U	100
Chloroform	67-66-3	<0.0192	0.556	0.0192	mg/kg	10.01.2020 20:56	U	100
Methyl Chloride	74-87-3	<0.0479	0.556	0.0479	mg/kg	10.01.2020 20:56	U	100
2-Chlorotoluene	95-49-8	<0.0380	0.556	0.0380	mg/kg	10.01.2020 20:56	U	100
4-Chlorotoluene	106-43-4	<0.0293	0.556	0.0293	mg/kg	10.01.2020 20:56	U	100
p-Cymene (p-Isopropyltoluene)	99-87-6	0.285	0.556	0.0354	mg/kg	10.01.2020 20:56	J	100
1,2-Dibromo-3-Chloropropane	96-12-8	<0.0782	0.556	0.0782	mg/kg	10.01.2020 20:56	U	100
Dibromochloromethane	124-48-1	<0.0994	0.556	0.0994	mg/kg	10.01.2020 20:56	U	100
1,2-Dibromoethane	106-93-4	<0.116	0.556	0.116	mg/kg	10.01.2020 20:56	U	100
Methylene Bromide	74-95-3	<0.0412	0.556	0.0412	mg/kg	10.01.2020 20:56	U	100
1,2-Dichlorobenzene	95-50-1	<0.0320	0.556	0.0320	mg/kg	10.01.2020 20:56	U	100
1,3-Dichlorobenzene	541-73-1	<0.0303	0.556	0.0303	mg/kg	10.01.2020 20:56	U	100
1,4-Dichlorobenzene	106-46-7	<0.0238	0.556	0.0238	mg/kg	10.01.2020 20:56	U	100
Dichlorodifluoromethane	75-71-8	<0.124	0.556	0.124	mg/kg	10.01.2020 20:56	U	100
1,2-Dichloroethane	107-06-2	<0.0338	0.556	0.0338	mg/kg	10.01.2020 20:56	U	100
1,1-Dichloroethane	75-34-3	<0.0418	0.556	0.0418	mg/kg	10.01.2020 20:56	U	100
trans-1,2-dichloroethylene	156-60-5	<0.0482	0.556	0.0482	mg/kg	10.01.2020 20:56	U	100
cis-1,2-Dichloroethylene	156-59-2	<0.0334	0.556	0.0334	mg/kg	10.01.2020 20:56	U	100
1,1-Dichloroethene	75-35-4	<0.0308	0.556	0.0308	mg/kg	10.01.2020 20:56	U	100
2,2-Dichloropropane	594-20-7	<0.0583	0.556	0.0583	mg/kg	10.01.2020 20:56	U	100
1,3-Dichloropropane	142-28-9	<0.0454	0.556	0.0454	mg/kg	10.01.2020 20:56	U	100
1,2-Dichloropropane	78-87-5	<0.0221	0.556	0.0221	mg/kg	10.01.2020 20:56	U	100
trans-1,3-dichloropropene	10061-02-6	<0.101	0.556	0.101	mg/kg	10.01.2020 20:56	U	100
1,1-Dichloropropene	563-58-6	<0.0498	0.556	0.0498	mg/kg	10.01.2020 20:56	U	100
cis-1,3-Dichloropropene	10061-01-5	<0.0255	0.556	0.0255	mg/kg	10.01.2020 20:56	U	100
Ethylbenzene	100-41-4	14.6	0.111	0.0373	mg/kg	10.01.2020 20:56		100
Hexachlorobutadiene	87-68-3	<0.222	0.556	0.222	mg/kg	10.01.2020 20:56	U	100
Isopropylbenzene	98-82-8	1.85	0.556	0.0193	mg/kg	10.01.2020 20:56		100
Methylene Chloride	75-09-2	<0.469	2.22	0.469	mg/kg	10.01.2020 20:56	U	100
MTBE	1634-04-4	4.20	0.556	0.0454	mg/kg	10.01.2020 20:56		100
Naphthalene	91-20-3	4.62	1.11	0.222	mg/kg	10.01.2020 20:56		100

Certificate of Analytical Results

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: T-2 SB-02 (8-10)	Matrix: Soil	Sample Depth: 8 - 10 ft
Lab Sample Id: 673676-005	Date Collected: 09.25.2020 10:47	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 16.08	Tech: SAD
Seq Number: 3138770	Date Prep: 10.01.2020 16:00	

Parameter	CAS Number	Prep seq: 7712570 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	5.73	0.556	0.0318	mg/kg	10.01.2020 20:56		100
Styrene	100-42-5	<0.0228	0.556	0.0228	mg/kg	10.01.2020 20:56	U	100
1,1,1,2-Tetrachloroethane	630-20-6	<0.0297	0.556	0.0297	mg/kg	10.01.2020 20:56	U	100
1,1,2,2-Tetrachloroethane	79-34-5	<0.0522	0.556	0.0522	mg/kg	10.01.2020 20:56	U	100
Tetrachloroethylene	127-18-4	<0.0411	0.556	0.0411	mg/kg	10.01.2020 20:56	U	100
Toluene	108-88-3	31.5	2.78	0.556	mg/kg	10.01.2020 21:19	D	500
1,2,3-Trichlorobenzene	87-61-6	<0.222	0.556	0.222	mg/kg	10.01.2020 20:56	U	100
1,2,4-Trichlorobenzene	120-82-1	<0.222	0.556	0.222	mg/kg	10.01.2020 20:56	U	100
1,1,2-Trichloroethane	79-00-5	<0.0436	0.556	0.0436	mg/kg	10.01.2020 20:56	U	100
1,1,1-Trichloroethane	71-55-6	<0.0559	0.556	0.0559	mg/kg	10.01.2020 20:56	U	100
Trichloroethylene	79-01-6	<0.0549	0.556	0.0549	mg/kg	10.01.2020 20:56	U	100
Trichlorofluoromethane	75-69-4	<0.0342	0.556	0.0342	mg/kg	10.01.2020 20:56	U	100
1,2,3-Trichloropropane	96-18-4	<0.0500	0.556	0.0500	mg/kg	10.01.2020 20:56	U	100
1,2,4-Trimethylbenzene	95-63-6	33.7	2.78	0.142	mg/kg	10.01.2020 21:19	D	500
1,3,5-Trimethylbenzene	108-67-8	9.95	0.556	0.0321	mg/kg	10.01.2020 20:56		100
Vinyl Chloride	75-01-4	<0.0491	0.556	0.0491	mg/kg	10.01.2020 20:56	U	100
o-Xylene	95-47-6	20.4	0.556	0.547	mg/kg	10.01.2020 21:19	D	500
m,p-Xylenes	179601-23-1	52.8	1.11	0.445	mg/kg	10.01.2020 21:19	D	500
Total Xylenes	1330-20-7	73.2		0.445	mg/kg	10.01.2020 21:19		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	105	53 - 142	%		
1,2-Dichloroethane-D4	97	56 - 150	%		
Toluene-D8	96	70 - 130	%		
4-Bromofluorobenzene	100	68 - 152	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-01**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-011

Date Collected: 09.25.2020 09:20

Date Received: 09.25.2020 18:15

Analytical Method: Mercury by SW-846 7470A

Prep Method: SW7470P

Analyst: ANJ

% Moist:

Seq Number: 3138509

Date Prep: 09.30.2020 09:00

Tech: ANJ

Prep seq: 7712325

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.000104	0.000200	0.0000263	mg/L	09.30.2020 14:29	J	1

Analytical Method: Total RCRA Metals by SW6020A

Prep Method: 3010A

Analyst: DEP

% Moist:

Seq Number: 3138669

Date Prep: 09.30.2020 09:00

Tech: DEP

Prep seq: 7712358

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00105	0.00400	0.000246	mg/L	10.01.2020 17:34	J	1
Barium	7440-39-3	0.115	0.00400	0.000484	mg/L	10.01.2020 17:34		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.01.2020 17:34	U	1
Chromium	7440-47-3	0.00243	0.00400	0.000525	mg/L	10.01.2020 17:34	J	1
Lead	7439-92-1	0.000739	0.00200	0.000152	mg/L	10.01.2020 17:34	J	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.01.2020 17:34	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.01.2020 17:34	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: KBU

% Moist:

Seq Number: 3138286

Date Prep:

Tech: KBU

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chromium, Hexavalent	18540-29-9	<0.00239	0.0100	0.00239	mg/L	09.28.2020 14:03	UK	1

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-01**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-011

Date Collected: 09.25.2020 09:20

Date Received: 09.25.2020 18:15

Analytical Method: TPH by Texas1005

Prep Method: 1005

Analyst: ISU

% Moist:

Seq Number: 3138497

Date Prep: 09.29.2020 13:14

Tech: ISU

Prep seq: 7712289

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.849	4.80	0.849	mg/L	09.30.2020 03:16	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	2.19	4.80	0.828	mg/L	09.30.2020 03:16	J	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	1.36	4.80	0.828	mg/L	09.30.2020 03:16	J	1
Total TPH	PHC635	3.55		0.828	mg/L	09.30.2020 03:16	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	107	70 - 130	%		
1-Chlorooctane	111	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-01**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-011

Date Collected: 09.25.2020 09:20

Date Received: 09.25.2020 18:15

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: EZA

% Moist:

Seq Number: 3138493

Date Prep: 09.29.2020 14:00

Tech: EZA

Prep seq: 7712368

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	09.29.2020 18:22	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	09.29.2020 18:22	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	09.29.2020 18:22	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	09.29.2020 18:22	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	09.29.2020 18:22	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	09.29.2020 18:22	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	09.29.2020 18:22	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	09.29.2020 18:22	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	09.29.2020 18:22	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	09.29.2020 18:22	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	09.29.2020 18:22	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	09.29.2020 18:22	U	1
Chloroethane	75-00-3	0.00107	0.0100	0.000433	mg/L	09.29.2020 18:22	J	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	09.29.2020 18:22	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	09.29.2020 18:22	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	09.29.2020 18:22	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	09.29.2020 18:22	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	09.29.2020 18:22	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	09.29.2020 18:22	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	09.29.2020 18:22	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	09.29.2020 18:22	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	09.29.2020 18:22	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	09.29.2020 18:22	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	09.29.2020 18:22	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	09.29.2020 18:22	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	09.29.2020 18:22	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	09.29.2020 18:22	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	09.29.2020 18:22	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	09.29.2020 18:22	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	09.29.2020 18:22	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	09.29.2020 18:22	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	09.29.2020 18:22	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	09.29.2020 18:22	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	09.29.2020 18:22	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	09.29.2020 18:22	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	09.29.2020 18:22	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	09.29.2020 18:22	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	09.29.2020 18:22	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	09.29.2020 18:22	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	09.29.2020 18:22	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	09.29.2020 18:22	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	09.29.2020 18:22	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	09.29.2020 18:22	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-01**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-011

Date Collected: 09.25.2020 09:20

Date Received: 09.25.2020 18:15

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: EZA

% Moist:

Tech: EZA

Seq Number: 3138493

Date Prep: 09.29.2020 14:00

Parameter	CAS Number	Prep seq: 7712368 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	09.29.2020 18:22	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	09.29.2020 18:22	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	09.29.2020 18:22	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	09.29.2020 18:22	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	09.29.2020 18:22	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	09.29.2020 18:22	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	09.29.2020 18:22	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	09.29.2020 18:22	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	09.29.2020 18:22	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	09.29.2020 18:22	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	09.29.2020 18:22	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	09.29.2020 18:22	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	09.29.2020 18:22	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	09.29.2020 18:22	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	09.29.2020 18:22	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	09.29.2020 18:22	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	09.29.2020 18:22	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	09.29.2020 18:22	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	09.29.2020 18:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	94	75 - 131	%		
1,2-Dichloroethane-D4	94	63 - 144	%		
Toluene-D8	98	80 - 117	%		
4-Bromofluorobenzene	100	74 - 124	%		

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-02**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-012

Date Collected: 09.25.2020 08:30

Date Received: 09.25.2020 18:15

Analytical Method: Mercury by SW-846 7470A

Prep Method: SW7470P

Analyst: ANJ

% Moist:

Seq Number: 3138509

Date Prep: 09.30.2020 09:00

Tech: ANJ

Prep seq: 7712325

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.000295	0.000200	0.0000263	mg/L	09.30.2020 14:31		1

Analytical Method: Total RCRA Metals by SW6020A

Prep Method: 3010A

Analyst: DEP

% Moist:

Seq Number: 3138669

Date Prep: 09.30.2020 09:00

Tech: DEP

Prep seq: 7712358

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00274	0.00400	0.000246	mg/L	10.01.2020 17:37	J	1
Barium	7440-39-3	0.433	0.00400	0.000484	mg/L	10.01.2020 17:37		1
Cadmium	7440-43-9	0.00173	0.00200	0.000147	mg/L	10.01.2020 17:37	J	1
Chromium	7440-47-3	0.00400	0.00400	0.000525	mg/L	10.01.2020 17:37	J	1
Lead	7439-92-1	0.0110	0.00200	0.000152	mg/L	10.01.2020 17:37		1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.01.2020 17:37	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.01.2020 17:37	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: KBU

% Moist:

Seq Number: 3138286

Date Prep:

Tech: KBU

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chromium, Hexavalent	18540-29-9	<0.00239	0.0100	0.00239	mg/L	09.28.2020 14:03	UK	1

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-02**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-012

Date Collected: 09.25.2020 08:30

Date Received: 09.25.2020 18:15

Analytical Method: TPH by Texas1005

Prep Method: 1005

Analyst: ISU

% Moist:

Seq Number: 3138497

Date Prep: 09.29.2020 13:20

Tech: ISU

Prep seq: 7712289

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.842	4.76	0.842	mg/L	09.30.2020 01:54	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	23.3	4.76	0.821	mg/L	09.30.2020 01:54		1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	14.3	4.76	0.821	mg/L	09.30.2020 01:54		1
Total TPH	PHC635	37.6		0.821	mg/L	09.30.2020 01:54		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	126	70 - 130	%		
1-Chlorooctane	110	70 - 130	%		

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-02**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-012

Date Collected: 09.25.2020 08:30

Date Received: 09.25.2020 18:15

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: EZA

% Moist:

Seq Number: 3138493

Date Prep: 09.29.2020 14:00

Tech: EZA

Prep seq: 7712368

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	09.29.2020 18:42	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	09.29.2020 18:42	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	09.29.2020 18:42	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	09.29.2020 18:42	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	09.29.2020 18:42	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	09.29.2020 18:42	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	09.29.2020 18:42	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	09.29.2020 18:42	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	09.29.2020 18:42	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	09.29.2020 18:42	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	09.29.2020 18:42	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	09.29.2020 18:42	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	09.29.2020 18:42	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	09.29.2020 18:42	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	09.29.2020 18:42	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	09.29.2020 18:42	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	09.29.2020 18:42	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	09.29.2020 18:42	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	09.29.2020 18:42	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	09.29.2020 18:42	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	09.29.2020 18:42	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	09.29.2020 18:42	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	09.29.2020 18:42	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	09.29.2020 18:42	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	09.29.2020 18:42	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	09.29.2020 18:42	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	09.29.2020 18:42	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	09.29.2020 18:42	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	09.29.2020 18:42	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	09.29.2020 18:42	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	09.29.2020 18:42	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	09.29.2020 18:42	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	09.29.2020 18:42	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	09.29.2020 18:42	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	09.29.2020 18:42	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	09.29.2020 18:42	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	09.29.2020 18:42	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	09.29.2020 18:42	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	09.29.2020 18:42	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	09.29.2020 18:42	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	09.29.2020 18:42	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	09.29.2020 18:42	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	09.29.2020 18:42	U	1

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-02	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673676-012	Date Collected: 09.25.2020 08:30	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: EZA	% Moist:	Tech: EZA
Seq Number: 3138493	Date Prep: 09.29.2020 14:00	

Parameter	CAS Number	Prep seq: 7712368 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	09.29.2020 18:42	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	09.29.2020 18:42	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	09.29.2020 18:42	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	09.29.2020 18:42	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	09.29.2020 18:42	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	09.29.2020 18:42	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	09.29.2020 18:42	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	09.29.2020 18:42	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	09.29.2020 18:42	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	09.29.2020 18:42	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	09.29.2020 18:42	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	09.29.2020 18:42	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	09.29.2020 18:42	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	09.29.2020 18:42	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	09.29.2020 18:42	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	09.29.2020 18:42	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	09.29.2020 18:42	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	09.29.2020 18:42	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	09.29.2020 18:42	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	92	75 - 131	%		
1,2-Dichloroethane-D4	89	63 - 144	%		
Toluene-D8	101	80 - 117	%		
4-Bromofluorobenzene	103	74 - 124	%		

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-03	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673676-013	Date Collected: 09.25.2020 11:39	Date Received: 09.25.2020 18:15
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138530	Date Prep: 09.30.2020 10:30	Tech: ANJ
	Prep seq: 7712364	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	09.30.2020 16:12	U	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3138669	Date Prep: 09.30.2020 09:00	Tech: DEP
	Prep seq: 7712358	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00271	0.00400	0.000246	mg/L	10.01.2020 17:40	J	1
Barium	7440-39-3	0.208	0.00400	0.000484	mg/L	10.01.2020 17:40		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.01.2020 17:40	U	1
Chromium	7440-47-3	0.0146	0.00400	0.000525	mg/L	10.01.2020 17:40		1
Lead	7439-92-1	0.00633	0.00200	0.000152	mg/L	10.01.2020 17:40		1
Selenium	7782-49-2	0.000489	0.00200	0.000454	mg/L	10.01.2020 17:40	J	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.01.2020 17:40	U	1

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3138497	Date Prep: 09.29.2020 13:23	Tech: ISU
	Prep seq: 7712289	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.881	4.98	0.881	mg/L	09.30.2020 14:39	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.860	4.98	0.860	mg/L	09.30.2020 14:39	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.860	4.98	0.860	mg/L	09.30.2020 14:39	U	1
Total TPH	PHC635	<0.860		0.860	mg/L	09.30.2020 14:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	117	70 - 130	%		
1-Chlorooctane	102	70 - 130	%		

Certificate of Analytical Results

673676

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-03**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673676-013

Date Collected: 09.25.2020 11:39

Date Received: 09.25.2020 18:15

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: EZA

% Moist:

Seq Number: 3138493

Date Prep: 09.29.2020 14:00

Tech: EZA

Prep seq: 7712368

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	09.29.2020 19:02	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	09.29.2020 19:02	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	09.29.2020 19:02	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	09.29.2020 19:02	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	09.29.2020 19:02	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	09.29.2020 19:02	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	09.29.2020 19:02	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	09.29.2020 19:02	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	09.29.2020 19:02	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	09.29.2020 19:02	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	09.29.2020 19:02	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	09.29.2020 19:02	U	1
Chloroethane	75-00-3	0.000840	0.0100	0.000433	mg/L	09.29.2020 19:02	J	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	09.29.2020 19:02	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	09.29.2020 19:02	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	09.29.2020 19:02	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	09.29.2020 19:02	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	09.29.2020 19:02	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	09.29.2020 19:02	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	09.29.2020 19:02	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	09.29.2020 19:02	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	09.29.2020 19:02	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	09.29.2020 19:02	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	09.29.2020 19:02	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	09.29.2020 19:02	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	09.29.2020 19:02	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	09.29.2020 19:02	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	09.29.2020 19:02	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	09.29.2020 19:02	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	09.29.2020 19:02	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	09.29.2020 19:02	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	09.29.2020 19:02	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	09.29.2020 19:02	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	09.29.2020 19:02	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	09.29.2020 19:02	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	09.29.2020 19:02	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	09.29.2020 19:02	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	09.29.2020 19:02	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	09.29.2020 19:02	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	09.29.2020 19:02	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	09.29.2020 19:02	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	09.29.2020 19:02	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	09.29.2020 19:02	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T-2 TMW-03	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673676-013	Date Collected: 09.25.2020 11:39	Date Received: 09.25.2020 18:15
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: EZA	% Moist:	Tech: EZA
Seq Number: 3138493	Date Prep: 09.29.2020 14:00	

Parameter	CAS Number	Prep seq: 7712368 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	09.29.2020 19:02	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	09.29.2020 19:02	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	09.29.2020 19:02	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	09.29.2020 19:02	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	09.29.2020 19:02	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	09.29.2020 19:02	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	09.29.2020 19:02	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	09.29.2020 19:02	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	09.29.2020 19:02	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	09.29.2020 19:02	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	09.29.2020 19:02	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	09.29.2020 19:02	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	09.29.2020 19:02	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	09.29.2020 19:02	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	09.29.2020 19:02	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	09.29.2020 19:02	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	09.29.2020 19:02	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	09.29.2020 19:02	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	09.29.2020 19:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	89	75 - 131	%		
1,2-Dichloroethane-D4	84	63 - 144	%		
Toluene-D8	100	80 - 117	%		
4-Bromofluorobenzene	101	74 - 124	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **3138286-1-BLK** Matrix: Water Sample Depth:
 Lab Sample Id: 3138286-1-BLK Date Collected: Date Received:
 Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
 Analyst: KBU % Moist:
 Seq Number: 3138286 Date Prep: Tech: KBU
 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chromium, Hexavalent	18540-29-9	<0.00239	0.0100	0.00239	mg/L	09.28.2020 14:03	U	1

Sample Id: **7712199-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7712199-1-BLK Date Collected: Date Received:
 Analytical Method: TPH by Texas1005 Prep Method: 1005
 Analyst: ISU % Moist:
 Seq Number: 3138396 Date Prep: 09.28.2020 13:24 Tech: ISU
 Prep seq: 7712199

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<21.1	50.0	21.1	mg/kg	09.28.2020 19:33	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<21.1	50.0	21.1	mg/kg	09.28.2020 19:33	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<21.1	50.0	21.1	mg/kg	09.28.2020 19:33	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	97	70 - 130	%		
1-Chlorooctane	99	70 - 130	%		

Sample Id: **7712289-1-BLK** Matrix: Water Sample Depth:
 Lab Sample Id: 7712289-1-BLK Date Collected: Date Received:
 Analytical Method: TPH by Texas1005 Prep Method: 1005
 Analyst: ISU % Moist:
 Seq Number: 3138497 Date Prep: 09.29.2020 13:05 Tech: ISU
 Prep seq: 7712289

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.885	5.00	0.885	mg/L	09.30.2020 02:14	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.863	5.00	0.863	mg/L	09.30.2020 02:14	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.863	5.00	0.863	mg/L	09.30.2020 02:14	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	107	70 - 130	%		
1-Chlorooctane	110	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712325-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712325-1-BLK	Date Collected:	Date Received:
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138509	Date Prep: 09.30.2020 09:00	Tech: ANJ
	Prep seq: 7712325	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	09.30.2020 12:39	U	1

Sample Id: 7712332-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712332-1-BLK	Date Collected:	Date Received:
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist:	
Seq Number: 3138549	Date Prep: 09.30.2020 07:40	Tech: ANJ
	Prep seq: 7712332	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.00343	0.0179	0.00343	mg/kg	09.30.2020 16:43	U	1

Sample Id: 7712358-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712358-1-BLK	Date Collected:	Date Received:
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3138669	Date Prep: 09.30.2020 09:00	Tech: DEP
	Prep seq: 7712358	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	<0.000246	0.00400	0.000246	mg/L	10.01.2020 16:48	U	1
Barium	7440-39-3	<0.000484	0.00400	0.000484	mg/L	10.01.2020 16:48	U	1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.01.2020 16:48	U	1
Chromium	7440-47-3	<0.000525	0.00400	0.000525	mg/L	10.01.2020 16:48	U	1
Lead	7439-92-1	<0.000152	0.00200	0.000152	mg/L	10.01.2020 16:48	U	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.01.2020 16:48	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.01.2020 16:48	U	1

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ESE Partners, Katy, TX
 Yellow Cab Tract 2

Sample Id: 7712364-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712364-1-BLK	Date Collected:	Date Received:
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138530	Date Prep: 09.30.2020 10:30	Tech: ANJ
	Prep seq: 7712364	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	09.30.2020 14:37	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712368-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712368-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: EZA	% Moist:	
Seq Number: 3138493	Date Prep: 09.29.2020 10:27	Tech: EZA
	Prep seq: 7712368	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	09.29.2020 12:03	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	09.29.2020 12:03	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	09.29.2020 12:03	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	09.29.2020 12:03	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	09.29.2020 12:03	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	09.29.2020 12:03	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	09.29.2020 12:03	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	09.29.2020 12:03	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	09.29.2020 12:03	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	09.29.2020 12:03	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	09.29.2020 12:03	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	09.29.2020 12:03	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	09.29.2020 12:03	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	09.29.2020 12:03	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	09.29.2020 12:03	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	09.29.2020 12:03	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	09.29.2020 12:03	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	09.29.2020 12:03	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	09.29.2020 12:03	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	09.29.2020 12:03	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	09.29.2020 12:03	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	09.29.2020 12:03	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	09.29.2020 12:03	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	09.29.2020 12:03	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	09.29.2020 12:03	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	09.29.2020 12:03	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	09.29.2020 12:03	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	09.29.2020 12:03	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	09.29.2020 12:03	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	09.29.2020 12:03	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	09.29.2020 12:03	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	09.29.2020 12:03	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	09.29.2020 12:03	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	09.29.2020 12:03	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	09.29.2020 12:03	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	09.29.2020 12:03	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	09.29.2020 12:03	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	09.29.2020 12:03	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	09.29.2020 12:03	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	09.29.2020 12:03	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	09.29.2020 12:03	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	09.29.2020 12:03	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	09.29.2020 12:03	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: 7712368-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712368-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: EZA	% Moist:	Tech: EZA
Seq Number: 3138493	Date Prep: 09.29.2020 10:27	

Parameter	CAS Number	Prep seq: 7712368 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	09.29.2020 12:03	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	09.29.2020 12:03	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	09.29.2020 12:03	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	09.29.2020 12:03	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	09.29.2020 12:03	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	09.29.2020 12:03	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	09.29.2020 12:03	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	09.29.2020 12:03	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	09.29.2020 12:03	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	09.29.2020 12:03	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	09.29.2020 12:03	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	09.29.2020 12:03	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	09.29.2020 12:03	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	09.29.2020 12:03	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	09.29.2020 12:03	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	09.29.2020 12:03	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	09.29.2020 12:03	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	09.29.2020 12:03	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	93	75 - 131	%		
1,2-Dichloroethane-D4	86	63 - 144	%		
Toluene-D8	98	80 - 117	%		
4-Bromofluorobenzene	101	74 - 124	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712449-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712449-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist:	
Seq Number: 3138623	Date Prep: 09.30.2020 10:00	Tech: NAL
	Prep seq: 7712449	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	09.30.2020 15:11	U	1
Bromobenzene	108-86-1	<0.000346	0.00500	0.000346	mg/kg	09.30.2020 15:11	U	1
Bromochloromethane	74-97-5	<0.000526	0.00500	0.000526	mg/kg	09.30.2020 15:11	U	1
Bromodichloromethane	75-27-4	<0.000251	0.00500	0.000251	mg/kg	09.30.2020 15:11	U	1
Bromoform	75-25-2	<0.00103	0.00500	0.00103	mg/kg	09.30.2020 15:11	U	1
Methyl bromide	74-83-9	<0.000943	0.00500	0.000943	mg/kg	09.30.2020 15:11	U	1
2-Butanone	78-93-3	<0.00365	0.0200	0.00365	mg/kg	09.30.2020 15:11	U	1
tert-Butylbenzene	98-06-6	<0.00128	0.00500	0.00128	mg/kg	09.30.2020 15:11	U	1
Sec-Butylbenzene	135-98-8	<0.000261	0.00500	0.000261	mg/kg	09.30.2020 15:11	U	1
n-Butylbenzene	104-51-8	<0.000274	0.00500	0.000274	mg/kg	09.30.2020 15:11	U	1
Carbon Tetrachloride	56-23-5	<0.00164	0.00500	0.00164	mg/kg	09.30.2020 15:11	U	1
Chlorobenzene	108-90-7	<0.000237	0.00500	0.000237	mg/kg	09.30.2020 15:11	U	1
Chloroethane	75-00-3	<0.000444	0.0100	0.000444	mg/kg	09.30.2020 15:11	U	1
Chloroform	67-66-3	<0.000173	0.00500	0.000173	mg/kg	09.30.2020 15:11	U	1
Methyl Chloride	74-87-3	<0.000431	0.00500	0.000431	mg/kg	09.30.2020 15:11	U	1
2-Chlorotoluene	95-49-8	<0.000342	0.00500	0.000342	mg/kg	09.30.2020 15:11	U	1
4-Chlorotoluene	106-43-4	<0.000264	0.00500	0.000264	mg/kg	09.30.2020 15:11	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000319	0.00500	0.000319	mg/kg	09.30.2020 15:11	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000704	0.00500	0.000704	mg/kg	09.30.2020 15:11	U	1
Dibromochloromethane	124-48-1	<0.000895	0.00500	0.000895	mg/kg	09.30.2020 15:11	U	1
1,2-Dibromoethane	106-93-4	<0.00104	0.00500	0.00104	mg/kg	09.30.2020 15:11	U	1
Methylene Bromide	74-95-3	<0.000371	0.00500	0.000371	mg/kg	09.30.2020 15:11	U	1
1,2-Dichlorobenzene	95-50-1	<0.000288	0.00500	0.000288	mg/kg	09.30.2020 15:11	U	1
1,3-Dichlorobenzene	541-73-1	<0.000273	0.00500	0.000273	mg/kg	09.30.2020 15:11	U	1
1,4-Dichlorobenzene	106-46-7	<0.000214	0.00500	0.000214	mg/kg	09.30.2020 15:11	U	1
Dichlorodifluoromethane	75-71-8	<0.00111	0.00500	0.00111	mg/kg	09.30.2020 15:11	U	1
1,2-Dichloroethane	107-06-2	<0.000304	0.00500	0.000304	mg/kg	09.30.2020 15:11	U	1
1,1-Dichloroethane	75-34-3	<0.000376	0.00500	0.000376	mg/kg	09.30.2020 15:11	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000434	0.00500	0.000434	mg/kg	09.30.2020 15:11	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000301	0.00500	0.000301	mg/kg	09.30.2020 15:11	U	1
1,1-Dichloroethene	75-35-4	<0.000277	0.00500	0.000277	mg/kg	09.30.2020 15:11	U	1
2,2-Dichloropropane	594-20-7	<0.000524	0.00500	0.000524	mg/kg	09.30.2020 15:11	U	1
1,3-Dichloropropane	142-28-9	<0.000409	0.00500	0.000409	mg/kg	09.30.2020 15:11	U	1
1,2-Dichloropropane	78-87-5	<0.000198	0.00500	0.000198	mg/kg	09.30.2020 15:11	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000909	0.00500	0.000909	mg/kg	09.30.2020 15:11	U	1
1,1-Dichloropropene	563-58-6	<0.000448	0.00500	0.000448	mg/kg	09.30.2020 15:11	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000230	0.00500	0.000230	mg/kg	09.30.2020 15:11	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100	0.000336	mg/kg	09.30.2020 15:11	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/kg	09.30.2020 15:11	U	1
Isopropylbenzene	98-82-8	<0.000174	0.00500	0.000174	mg/kg	09.30.2020 15:11	U	1
Methylene Chloride	75-09-2	<0.00422	0.0200	0.00422	mg/kg	09.30.2020 15:11	U	1
MTBE	1634-04-4	<0.000409	0.00500	0.000409	mg/kg	09.30.2020 15:11	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/kg	09.30.2020 15:11	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712449-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712449-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: NAL	% Moist:	Tech: NAL
Seq Number: 3138623	Date Prep: 09.30.2020 10:00	

Parameter	CAS Number	Prep seq: 7712449 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000286 0.00500	0.000286	mg/kg	09.30.2020 15:11	U	1
Styrene	100-42-5	<0.000205 0.00500	0.000205	mg/kg	09.30.2020 15:11	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000267 0.00500	0.000267	mg/kg	09.30.2020 15:11	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000470 0.00500	0.000470	mg/kg	09.30.2020 15:11	U	1
Tetrachloroethylene	127-18-4	<0.000370 0.00500	0.000370	mg/kg	09.30.2020 15:11	U	1
Toluene	108-88-3	<0.00100 0.00500	0.00100	mg/kg	09.30.2020 15:11	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200 0.00500	0.00200	mg/kg	09.30.2020 15:11	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200 0.00500	0.00200	mg/kg	09.30.2020 15:11	U	1
1,1,2-Trichloroethane	79-00-5	<0.000392 0.00500	0.000392	mg/kg	09.30.2020 15:11	U	1
1,1,1-Trichloroethane	71-55-6	<0.000503 0.00500	0.000503	mg/kg	09.30.2020 15:11	U	1
Trichloroethylene	79-01-6	<0.000494 0.00500	0.000494	mg/kg	09.30.2020 15:11	U	1
Trichlorofluoromethane	75-69-4	<0.000307 0.00500	0.000307	mg/kg	09.30.2020 15:11	U	1
1,2,3-Trichloropropane	96-18-4	<0.000450 0.00500	0.000450	mg/kg	09.30.2020 15:11	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000255 0.00500	0.000255	mg/kg	09.30.2020 15:11	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000289 0.00500	0.000289	mg/kg	09.30.2020 15:11	U	1
Vinyl Chloride	75-01-4	<0.000441 0.00500	0.000441	mg/kg	09.30.2020 15:11	U	1
o-Xylene	95-47-6	<0.000985 0.00100	0.000985	mg/kg	09.30.2020 15:11	U	1
m,p-Xylenes	179601-23-1	<0.000800 0.00200	0.000800	mg/kg	09.30.2020 15:11	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	104	53 - 142	%		
1,2-Dichloroethane-D4	104	56 - 150	%		
Toluene-D8	92	70 - 130	%		
4-Bromofluorobenzene	103	68 - 152	%		

Certificate of Analytical Results

673676

ESE Partners, Katy, TX
 Yellow Cab Tract 2

Sample Id: 7712470-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712470-1-BLK	Date Collected:	Date Received:
Analytical Method: Total RCRA Metals by SW6020A	% Moist:	Prep Method: 3051
Analyst: DEP	Date Prep: 10.01.2020 15:40	Tech: DEP
Seq Number: 3138668	Prep seq: 7712470	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	<0.0571	0.370	0.0571	mg/kg	10.01.2020 19:12	U	1
Barium	7440-39-3	<0.0321	0.370	0.0321	mg/kg	10.01.2020 19:12	U	1
Cadmium	7440-43-9	<0.0107	0.185	0.0107	mg/kg	10.01.2020 19:12	U	1
Chromium	7440-47-3	<0.0251	0.370	0.0251	mg/kg	10.01.2020 19:12	U	1
Lead	7439-92-1	<0.0179	0.185	0.0179	mg/kg	10.01.2020 19:12	U	1
Selenium	7782-49-2	<0.0459	0.185	0.0459	mg/kg	10.01.2020 19:12	U	1
Silver	7440-22-4	<0.0147	0.185	0.0147	mg/kg	10.01.2020 19:12	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: 7712570-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712570-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist:	
Seq Number: 3138770	Date Prep: 10.01.2020 09:30	Tech: SAD
	Prep seq: 7712570	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	10.01.2020 14:12	U	1
Bromobenzene	108-86-1	<0.000346	0.00500	0.000346	mg/kg	10.01.2020 14:12	U	1
Bromochloromethane	74-97-5	<0.000526	0.00500	0.000526	mg/kg	10.01.2020 14:12	U	1
Bromodichloromethane	75-27-4	<0.000251	0.00500	0.000251	mg/kg	10.01.2020 14:12	U	1
Bromoform	75-25-2	<0.00103	0.00500	0.00103	mg/kg	10.01.2020 14:12	U	1
Methyl bromide	74-83-9	<0.000943	0.00500	0.000943	mg/kg	10.01.2020 14:12	U	1
2-Butanone	78-93-3	<0.00365	0.0200	0.00365	mg/kg	10.01.2020 14:12	U	1
tert-Butylbenzene	98-06-6	<0.00128	0.00500	0.00128	mg/kg	10.01.2020 14:12	U	1
Sec-Butylbenzene	135-98-8	<0.000261	0.00500	0.000261	mg/kg	10.01.2020 14:12	U	1
n-Butylbenzene	104-51-8	<0.000274	0.00500	0.000274	mg/kg	10.01.2020 14:12	U	1
Carbon Tetrachloride	56-23-5	<0.00164	0.00500	0.00164	mg/kg	10.01.2020 14:12	U	1
Chlorobenzene	108-90-7	<0.000237	0.00500	0.000237	mg/kg	10.01.2020 14:12	U	1
Chloroethane	75-00-3	<0.000444	0.0100	0.000444	mg/kg	10.01.2020 14:12	U	1
Chloroform	67-66-3	<0.000173	0.00500	0.000173	mg/kg	10.01.2020 14:12	U	1
Methyl Chloride	74-87-3	<0.000431	0.00500	0.000431	mg/kg	10.01.2020 14:12	U	1
2-Chlorotoluene	95-49-8	<0.000342	0.00500	0.000342	mg/kg	10.01.2020 14:12	U	1
4-Chlorotoluene	106-43-4	<0.000264	0.00500	0.000264	mg/kg	10.01.2020 14:12	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000319	0.00500	0.000319	mg/kg	10.01.2020 14:12	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000704	0.00500	0.000704	mg/kg	10.01.2020 14:12	U	1
Dibromochloromethane	124-48-1	<0.000895	0.00500	0.000895	mg/kg	10.01.2020 14:12	U	1
1,2-Dibromoethane	106-93-4	<0.00104	0.00500	0.00104	mg/kg	10.01.2020 14:12	U	1
Methylene Bromide	74-95-3	<0.000371	0.00500	0.000371	mg/kg	10.01.2020 14:12	U	1
1,2-Dichlorobenzene	95-50-1	<0.000288	0.00500	0.000288	mg/kg	10.01.2020 14:12	U	1
1,3-Dichlorobenzene	541-73-1	<0.000273	0.00500	0.000273	mg/kg	10.01.2020 14:12	U	1
1,4-Dichlorobenzene	106-46-7	<0.000214	0.00500	0.000214	mg/kg	10.01.2020 14:12	U	1
Dichlorodifluoromethane	75-71-8	<0.00111	0.00500	0.00111	mg/kg	10.01.2020 14:12	U	1
1,2-Dichloroethane	107-06-2	<0.000304	0.00500	0.000304	mg/kg	10.01.2020 14:12	U	1
1,1-Dichloroethane	75-34-3	<0.000376	0.00500	0.000376	mg/kg	10.01.2020 14:12	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000434	0.00500	0.000434	mg/kg	10.01.2020 14:12	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000301	0.00500	0.000301	mg/kg	10.01.2020 14:12	U	1
1,1-Dichloroethene	75-35-4	<0.000277	0.00500	0.000277	mg/kg	10.01.2020 14:12	U	1
2,2-Dichloropropane	594-20-7	<0.000524	0.00500	0.000524	mg/kg	10.01.2020 14:12	U	1
1,3-Dichloropropane	142-28-9	<0.000409	0.00500	0.000409	mg/kg	10.01.2020 14:12	U	1
1,2-Dichloropropane	78-87-5	<0.000198	0.00500	0.000198	mg/kg	10.01.2020 14:12	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000909	0.00500	0.000909	mg/kg	10.01.2020 14:12	U	1
1,1-Dichloropropene	563-58-6	<0.000448	0.00500	0.000448	mg/kg	10.01.2020 14:12	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000230	0.00500	0.000230	mg/kg	10.01.2020 14:12	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100	0.000336	mg/kg	10.01.2020 14:12	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/kg	10.01.2020 14:12	U	1
Isopropylbenzene	98-82-8	<0.000174	0.00500	0.000174	mg/kg	10.01.2020 14:12	U	1
Methylene Chloride	75-09-2	<0.00422	0.0200	0.00422	mg/kg	10.01.2020 14:12	U	1
MTBE	1634-04-4	<0.000409	0.00500	0.000409	mg/kg	10.01.2020 14:12	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/kg	10.01.2020 14:12	U	1

Certificate of Analytical Results
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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: **7712570-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7712570-1-BLK Date Collected: Date Received:
 Analytical Method: VOCs by SW-846 8260C Prep Method: 5035A
 Analyst: SAD % Moist: Tech: SAD
 Seq Number: 3138770 Date Prep: 10.01.2020 09:30

Parameter	CAS Number	Prep seq: 7712570 Result	MLQ	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000286	0.00500	0.000286	mg/kg	10.01.2020 14:12	U	1
Styrene	100-42-5	<0.000205	0.00500	0.000205	mg/kg	10.01.2020 14:12	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000267	0.00500	0.000267	mg/kg	10.01.2020 14:12	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000470	0.00500	0.000470	mg/kg	10.01.2020 14:12	U	1
Tetrachloroethylene	127-18-4	<0.000370	0.00500	0.000370	mg/kg	10.01.2020 14:12	U	1
Toluene	108-88-3	<0.00100	0.00500	0.00100	mg/kg	10.01.2020 14:12	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/kg	10.01.2020 14:12	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/kg	10.01.2020 14:12	U	1
1,1,2-Trichloroethane	79-00-5	<0.000392	0.00500	0.000392	mg/kg	10.01.2020 14:12	U	1
1,1,1-Trichloroethane	71-55-6	<0.000503	0.00500	0.000503	mg/kg	10.01.2020 14:12	U	1
Trichloroethylene	79-01-6	<0.000494	0.00500	0.000494	mg/kg	10.01.2020 14:12	U	1
Trichlorofluoromethane	75-69-4	<0.000307	0.00500	0.000307	mg/kg	10.01.2020 14:12	U	1
1,2,3-Trichloropropane	96-18-4	<0.000450	0.00500	0.000450	mg/kg	10.01.2020 14:12	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000255	0.00500	0.000255	mg/kg	10.01.2020 14:12	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000289	0.00500	0.000289	mg/kg	10.01.2020 14:12	U	1
Vinyl Chloride	75-01-4	<0.000441	0.00500	0.000441	mg/kg	10.01.2020 14:12	U	1
o-Xylene	95-47-6	<0.000985	0.00100	0.000985	mg/kg	10.01.2020 14:12	U	1
m,p-Xylenes	179601-23-1	<0.000800	0.00200	0.000800	mg/kg	10.01.2020 14:12	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	109	53 - 142	%		
1,2-Dichloroethane-D4	101	56 - 150	%		
Toluene-D8	94	70 - 130	%		
4-Bromofluorobenzene	100	68 - 152	%		

Sample Id: **7712957-1-BLK** Matrix: Water Sample Depth:
 Lab Sample Id: 7712957-1-BLK Date Collected: Date Received:
 Analytical Method: SPLP Metals per ICP by SW-846 6010B Prep Method: 3010A
 Analyst: DEP % Moist: Tech: DEP
 Seq Number: 3139332 Date Prep: 10.09.2020 10:05
 Prep seq: 7712957

Parameter	CAS Number	Result	MLQ	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	<0.00336	0.0100	0.00336	mg/L	10.09.2020 14:34	U	1
Lead	7439-92-1	<0.00183	0.0100	0.00183	mg/L	10.09.2020 14:34	U	1

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture by SM2540G

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01 (2-4)	673676-001	09.25.2020			09.30.2020	03.24.2021	
T-2 TMW-02 (2-4)	673676-002	09.25.2020			09.30.2020	03.24.2021	
T-2 TMW-03 (2-4)	673676-003	09.25.2020			09.30.2020	03.24.2021	
T-2 SB-01 (2-4)	673676-004	09.25.2020			09.30.2020	03.24.2021	
T-2 SB-02 (8-10)	673676-005	09.25.2020			09.30.2020	03.24.2021	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : SPLP Metals per ICP by SW-846 6010B

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Rotated	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01 (2-4)	673676-001	09.25.2020	10.09.2020	04.07.2021	10.09.2020	04.07.2021	
T-2 TMW-02 (2-4)	673676-002	09.25.2020	10.09.2020	04.07.2021	10.09.2020	04.07.2021	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Total RCRA Metals by SW6020A

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01 (2-4)	673676-001	09.25.2020	10.01.2020	03.24.2021	10.01.2020	03.30.2021	
T-2 TMW-02 (2-4)	673676-002	09.25.2020	10.01.2020	03.24.2021	10.01.2020	03.30.2021	
T-2 TMW-03 (2-4)	673676-003	09.25.2020	10.01.2020	03.24.2021	10.01.2020	03.30.2021	
T-2 SB-01 (2-4)	673676-004	09.25.2020	10.01.2020	03.24.2021	10.01.2020	03.30.2021	
T-2 SB-02 (8-10)	673676-005	09.25.2020	10.01.2020	03.24.2021	10.01.2020	03.30.2021	
T-2 TMW-01	673676-011	09.25.2020	09.30.2020	03.24.2021	10.01.2020	03.29.2021	
T-2 TMW-02	673676-012	09.25.2020	09.30.2020	03.24.2021	10.01.2020	03.29.2021	
T-2 TMW-03	673676-013	09.25.2020	09.30.2020	03.24.2021	10.01.2020	03.29.2021	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Mercury by SW-846 7470A

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01	673676-011	09.25.2020			09.30.2020	10.23.2020	
T-2 TMW-02	673676-012	09.25.2020			09.30.2020	10.23.2020	
T-2 TMW-03	673676-013	09.25.2020			09.30.2020	10.23.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Mercury by SW 7471A

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01 (2-4)	673676-001	09.25.2020	09.30.2020	10.23.2020	09.30.2020	10.28.2020	
T-2 TMW-02 (2-4)	673676-002	09.25.2020	09.30.2020	10.23.2020	09.30.2020	10.28.2020	
T-2 TMW-03 (2-4)	673676-003	09.25.2020	09.30.2020	10.23.2020	09.30.2020	10.28.2020	
T-2 SB-01 (2-4)	673676-004	09.25.2020	09.30.2020	10.23.2020	09.30.2020	10.28.2020	
T-2 SB-02 (8-10)	673676-005	09.25.2020	09.30.2020	10.23.2020	09.30.2020	10.28.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOCs by SW-846 8260C

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01 (2-4)	673676-001	09.25.2020			09.30.2020	10.09.2020	
T-2 TMW-02 (2-4)	673676-002	09.25.2020			09.30.2020	10.09.2020	
T-2 TMW-03 (2-4)	673676-003	09.25.2020			09.30.2020	10.09.2020	
T-2 SB-01 (2-4)	673676-004	09.25.2020			10.01.2020	10.09.2020	
T-2 SB-02 (8-10)	673676-005	09.25.2020			10.01.2020	10.09.2020	
T-2 TMW-01	673676-011	09.25.2020			09.29.2020	10.09.2020	
T-2 TMW-02	673676-012	09.25.2020			09.29.2020	10.09.2020	
T-2 TMW-03	673676-013	09.25.2020			09.29.2020	10.09.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Soil pH by SW-846 9045C

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 SB-01 (2-4)	673676-004	09.25.2020			09.29.2020	10.23.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH by Texas1005

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01 (2-4)	673676-001	09.25.2020	09.28.2020	10.09.2020	09.29.2020	10.12.2020	
T-2 TMW-02 (2-4)	673676-002	09.25.2020	09.28.2020	10.09.2020	09.29.2020	10.12.2020	
T-2 TMW-03 (2-4)	673676-003	09.25.2020	09.28.2020	10.09.2020	09.29.2020	10.12.2020	
T-2 SB-01 (2-4)	673676-004	09.25.2020	09.28.2020	10.09.2020	09.29.2020	10.12.2020	
T-2 SB-02 (8-10)	673676-005	09.25.2020	09.28.2020	10.09.2020	09.29.2020	10.12.2020	
T-2 TMW-01	673676-011	09.25.2020	09.29.2020	10.09.2020	09.30.2020	10.13.2020	
T-2 TMW-02	673676-012	09.25.2020	09.29.2020	10.09.2020	09.30.2020	10.13.2020	
T-2 TMW-03	673676-013	09.25.2020	09.29.2020	10.09.2020	09.30.2020	10.13.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Chromium, Hexavalent by SW 7196A

Client : ESE Partners

Work Order #: **673676**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-01	673676-011	09.25.2020			09.28.2020	09.26.2020	F
T-2 TMW-02	673676-012	09.25.2020			09.28.2020	09.26.2020	F

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Analytical Method:	<u>Chromium, Hexavalent by SW 7196A</u>	Batch #:	<u>3138286</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-01</u>	<u>673676-011</u>	<u>SMP</u>
<u>T-2 TMW-02</u>	<u>673676-012</u>	<u>SMP</u>
<u></u>	<u>3138286-1-BKS</u>	<u>BKS</u>
<u></u>	<u>3138286-1-BLK</u>	<u>BLK</u>
<u></u>	<u>3138286-1-BSD</u>	<u>BSD</u>
<u></u>	<u>673676-011 S</u>	<u>MS</u>
<u></u>	<u>673676-011 SD</u>	<u>MSD</u>

Analytical Log

Analytical Method:	<u>Soil pH by SW-846 9045C</u>	Batch #:	<u>3138392</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 SB-01 (2-4)</u>	<u>673676-004</u>	<u>SMP</u>
<u> </u>	<u>673640-001 D</u>	<u>MD</u>
<u> </u>	<u>673675-004 D</u>	<u>MD</u>

Analytical Log

Analytical Method:	<u>TPH by Texas1005</u>	Batch #:	<u>3138396</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 SB-01 (2-4)</u>	<u>673676-004</u>	<u>SMP</u>
<u>T-2 SB-02 (8-10)</u>	<u>673676-005</u>	<u>SMP</u>
<u>T-2 TMW-01 (2-4)</u>	<u>673676-001</u>	<u>SMP</u>
<u>T-2 TMW-02 (2-4)</u>	<u>673676-002</u>	<u>SMP</u>
<u>T-2 TMW-03 (2-4)</u>	<u>673676-003</u>	<u>SMP</u>
<u> </u>	<u>673541-005 S</u>	<u>MS</u>
<u> </u>	<u>673541-005 SD</u>	<u>MSD</u>
<u> </u>	<u>7712199-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712199-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712199-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Percent Moisture by SM2540G</u>	Batch #:	<u>3138492</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 SB-01 (2-4)</u>	<u>673676-004</u>	<u>SMP</u>
<u>T-2 SB-02 (8-10)</u>	<u>673676-005</u>	<u>SMP</u>
<u>T-2 TMW-01 (2-4)</u>	<u>673676-001</u>	<u>SMP</u>
<u>T-2 TMW-02 (2-4)</u>	<u>673676-002</u>	<u>SMP</u>
<u>T-2 TMW-03 (2-4)</u>	<u>673676-003</u>	<u>SMP</u>
<u> </u>	<u>3138492-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>673583-002 D</u>	<u>MD</u>
<u> </u>	<u>673676-001 D</u>	<u>MD</u>

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138493</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-01</u>	<u>673676-011</u>	<u>SMP</u>
<u>T-2 TMW-02</u>	<u>673676-012</u>	<u>SMP</u>
<u>T-2 TMW-03</u>	<u>673676-013</u>	<u>SMP</u>
<u> </u>	<u>673378-015 S</u>	<u>MS</u>
<u> </u>	<u>7712368-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712368-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712368-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method:	<u>TPH by Texas1005</u>	Batch #:	<u>3138497</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-01</u>	<u>673676-011</u>	<u>SMP</u>
<u>T-2 TMW-02</u>	<u>673676-012</u>	<u>SMP</u>
<u>T-2 TMW-03</u>	<u>673676-013</u>	<u>SMP</u>
<u> </u>	<u>673676-011 S</u>	<u>MS</u>
<u> </u>	<u>7712289-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712289-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712289-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method:	<u>Mercury by SW-846 7470A</u>	Batch #:	<u>3138509</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-01</u>	<u>673676-011</u>	<u>SMP</u>
<u>T-2 TMW-02</u>	<u>673676-012</u>	<u>SMP</u>
<u> </u>	<u>673591-005 S</u>	<u>MS</u>
<u> </u>	<u>673591-005 SD</u>	<u>MSD</u>
<u> </u>	<u>7712325-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712325-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712325-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method:	<u>Mercury by SW-846 7470A</u>	Batch #:	<u>3138530</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-03</u>	<u>673676-013</u>	<u>SMP</u>
<u> </u>	<u>673677-009 S</u>	<u>MS</u>
<u> </u>	<u>673677-009 SD</u>	<u>MSD</u>
<u> </u>	<u>7712364-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712364-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712364-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Mercury by SW 7471A</u>	Batch #:	<u>3138549</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 SB-01 (2-4)</u>	<u>673676-004</u>	<u>SMP</u>
<u>T-2 SB-02 (8-10)</u>	<u>673676-005</u>	<u>SMP</u>
<u>T-2 TMW-01 (2-4)</u>	<u>673676-001</u>	<u>SMP</u>
<u>T-2 TMW-02 (2-4)</u>	<u>673676-002</u>	<u>SMP</u>
<u>T-2 TMW-03 (2-4)</u>	<u>673676-003</u>	<u>SMP</u>
<u> </u>	<u>673539-003 S</u>	<u>MS</u>
<u> </u>	<u>673539-003 SD</u>	<u>MSD</u>
<u> </u>	<u>673676-003 P</u>	<u>PDS</u>
<u> </u>	<u>673676-003 S</u>	<u>MS</u>
<u> </u>	<u>673676-003 SD</u>	<u>MSD</u>
<u> </u>	<u>673676-003 SDL</u>	<u>SDL</u>
<u> </u>	<u>7712332-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712332-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712332-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138623</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-01 (2-4)</u>	<u>673676-001</u>	<u>SMP</u>
<u>T-2 TMW-02 (2-4)</u>	<u>673676-002</u>	<u>SMP</u>
<u>T-2 TMW-03 (2-4)</u>	<u>673676-003</u>	<u>SMP</u>
<u> </u>	<u>673677-001 S</u>	<u>MS</u>
<u> </u>	<u>7712449-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712449-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712449-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Total RCRA Metals by SW6020A</u>	Batch #:	<u>3138668</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 SB-01 (2-4)</u>	<u>673676-004</u>	<u>SMP</u>
<u>T-2 SB-02 (8-10)</u>	<u>673676-005</u>	<u>SMP</u>
<u>T-2 TMW-01 (2-4)</u>	<u>673676-001</u>	<u>SMP</u>
<u>T-2 TMW-02 (2-4)</u>	<u>673676-002</u>	<u>SMP</u>
<u>T-2 TMW-03 (2-4)</u>	<u>673676-003</u>	<u>SMP</u>
<u> </u>	<u>673675-004 S</u>	<u>MS</u>
<u> </u>	<u>673675-004 SD</u>	<u>MSD</u>
<u> </u>	<u>7712470-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712470-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712470-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Total RCRA Metals by SW6020A</u>	Batch #:	<u>3138669</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-01</u>	<u>673676-011</u>	<u>SMP</u>
<u>T-2 TMW-02</u>	<u>673676-012</u>	<u>SMP</u>
<u>T-2 TMW-03</u>	<u>673676-013</u>	<u>SMP</u>
<u></u>	<u>673610-001 S</u>	<u>MS</u>
<u></u>	<u>673610-001 SD</u>	<u>MSD</u>
<u></u>	<u>7712358-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712358-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712358-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138770</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673676</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 SB-01 (2-4)</u>	<u>673676-004</u>	<u>SMP</u>
<u>T-2 SB-02 (8-10)</u>	<u>673676-005</u>	<u>DL</u>
<u>T-2 SB-02 (8-10)</u>	<u>673676-005</u>	<u>SMP</u>
<u> </u>	<u>673723-001 S</u>	<u>MS</u>
<u> </u>	<u>673723-001 SD</u>	<u>MSD</u>
<u> </u>	<u>7712570-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712570-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712570-1-BSD</u>	<u>BSD</u>

Analytical Method: SPLP Metals per ICP by SW-846 6010 Batch #: 3139332
Project Name: Yellow Cab Tract 2 Project ID: 20-0506
Client Name: ESE Partners WO Number: 673676

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-01 (2-4)</u>	<u>673676-001</u>	<u>SMP</u>
<u>T-2 TMW-02 (2-4)</u>	<u>673676-002</u>	<u>SMP</u>
<u></u>	<u>674461-001 S</u>	<u>MS</u>
<u></u>	<u>674461-001 SD</u>	<u>MSD</u>
<u></u>	<u>7712957-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712957-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712957-1-BSD</u>	<u>BSD</u>

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 673676

Project ID: 20-0506

Lab Batch #: 3138396

Sample: 7712199-1-BKS / BKS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 09.28.2020 18:52

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	51.3	50.0	103	70-130	
1-Chlorooctane	112	100	112	70-130	

Lab Batch #: 3138396

Sample: 7712199-1-BSD / BSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 09.28.2020 19:13

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	53.5	50.0	107	70-130	
1-Chlorooctane	115	100	115	70-130	

Lab Batch #: 3138396

Sample: 7712199-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 09.28.2020 19:33

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	48.7	50.0	97	70-130	
1-Chlorooctane	98.9	100	99	70-130	

Lab Batch #: 3138396

Sample: 673541-005 S / MS

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 09.28.2020 20:55

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	52.5	49.7	106	70-130	
1-Chlorooctane	106	99.4	107	70-130	

Lab Batch #: 3138396

Sample: 673541-005 SD / MSD

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 09.28.2020 21:15

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	61.6	49.8	124	70-130	
1-Chlorooctane	110	99.5	111	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 673676

Project ID: 20-0506

Lab Batch #: 3138497

Sample: 7712289-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.30.2020 02:14

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	5.37	5.00	107	70-130	
1-Chlorooctane	11.0	10.0	110	70-130	

Lab Batch #: 3138497

Sample: 7712289-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.30.2020 02:35

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	5.53	5.00	111	70-130	
1-Chlorooctane	12.1	10.0	121	70-130	

Lab Batch #: 3138497

Sample: 7712289-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.30.2020 02:55

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	5.96	5.00	119	70-130	
1-Chlorooctane	12.6	10.0	126	70-130	

Lab Batch #: 3138497

Sample: 673676-011 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 09.30.2020 03:36

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	5.58	4.65	120	70-130	
1-Chlorooctane	11.9	9.29	128	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 673676

Project ID: 20-0506

Lab Batch #: 3138493

Sample: 7712368-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.29.2020 09:27

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0507	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0507	0.0500	101	63-144	
Toluene-D8	0.0497	0.0500	99	80-117	
4-Bromofluorobenzene	0.0506	0.0500	101	74-124	

Lab Batch #: 3138493

Sample: 7712368-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.29.2020 09:48

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0503	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0541	0.0500	108	63-144	
Toluene-D8	0.0497	0.0500	99	80-117	
4-Bromofluorobenzene	0.0500	0.0500	100	74-124	

Lab Batch #: 3138493

Sample: 7712368-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.29.2020 12:03

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0464	0.0500	93	75-131	
1,2-Dichloroethane-D4	0.0432	0.0500	86	63-144	
Toluene-D8	0.0492	0.0500	98	80-117	
4-Bromofluorobenzene	0.0503	0.0500	101	74-124	

Lab Batch #: 3138493

Sample: 673378-015 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 09.29.2020 13:44

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0495	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0522	0.0500	104	63-144	
Toluene-D8	0.0499	0.0500	100	80-117	
4-Bromofluorobenzene	0.0501	0.0500	100	74-124	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 673676

Project ID: 20-0506

Lab Batch #: 3138623

Sample: 7712449-1-BKS / BKS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 09.30.2020 10:27

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0534	0.0500	107	53-142	
1,2-Dichloroethane-D4	0.0488	0.0500	98	56-150	
Toluene-D8	0.0496	0.0500	99	70-130	
4-Bromofluorobenzene	0.0495	0.0500	99	68-152	

Lab Batch #: 3138623

Sample: 7712449-1-BSD / BSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 09.30.2020 10:50

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0555	0.0500	111	53-142	
1,2-Dichloroethane-D4	0.0526	0.0500	105	56-150	
Toluene-D8	0.0458	0.0500	92	70-130	
4-Bromofluorobenzene	0.0487	0.0500	97	68-152	

Lab Batch #: 3138623

Sample: 673677-001 S / MS

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 09.30.2020 11:14

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0583	0.0500	117	53-142	
1,2-Dichloroethane-D4	0.0561	0.0500	112	56-150	
Toluene-D8	0.0463	0.0500	93	70-130	
4-Bromofluorobenzene	0.0475	0.0500	95	68-152	

Lab Batch #: 3138623

Sample: 7712449-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 09.30.2020 15:11

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0522	0.0500	104	53-142	
1,2-Dichloroethane-D4	0.0520	0.0500	104	56-150	
Toluene-D8	0.0462	0.0500	92	70-130	
4-Bromofluorobenzene	0.0514	0.0500	103	68-152	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Project ID: 20-0506

Work Orders : 673676

Lab Batch #: 3138770

Sample: 7712570-1-BKS / BKS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.01.2020 10:32

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0546	0.0500	109	53-142	
1,2-Dichloroethane-D4	0.0471	0.0500	94	56-150	
Toluene-D8	0.0481	0.0500	96	70-130	
4-Bromofluorobenzene	0.0492	0.0500	98	68-152	

Lab Batch #: 3138770

Sample: 7712570-1-BSD / BSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.01.2020 10:55

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0550	0.0500	110	53-142	
1,2-Dichloroethane-D4	0.0507	0.0500	101	56-150	
Toluene-D8	0.0477	0.0500	95	70-130	
4-Bromofluorobenzene	0.0485	0.0500	97	68-152	

Lab Batch #: 3138770

Sample: 673723-001 S / MS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.01.2020 11:29

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0591	0.0500	118	53-142	
1,2-Dichloroethane-D4	0.0534	0.0500	107	56-150	
Toluene-D8	0.0525	0.0500	105	70-130	
4-Bromofluorobenzene	0.0658	0.0500	132	68-152	

Lab Batch #: 3138770

Sample: 673723-001 SD / MSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.01.2020 11:52

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0594	0.0500	119	53-142	
1,2-Dichloroethane-D4	0.0513	0.0500	103	56-150	
Toluene-D8	0.0549	0.0500	110	70-130	
4-Bromofluorobenzene	0.0666	0.0500	133	68-152	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 673676

Project ID: 20-0506

Lab Batch #: 3138770

Sample: 7712570-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.01.2020 14:12

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0546	0.0500	109	53-142	
1,2-Dichloroethane-D4	0.0504	0.0500	101	56-150	
Toluene-D8	0.0470	0.0500	94	70-130	
4-Bromofluorobenzene	0.0499	0.0500	100	68-152	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

ESE Partners
Yellow Cab Tract 2

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Solid Waste
Parent Sample Id: 673583-002 MD Sample Id: 673583-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	1.61	1.57	3	10	%	09.30.2020 12:56	

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Soil
Parent Sample Id: 673676-001 MD Sample Id: 673676-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	15.6	15.5	1	10	%	09.30.2020 12:56	

Analytical Method: Mercury by SW 7471A

Seq Number: 3138549 Matrix: Solid Prep Method: SW7471P
MB Sample Id: 7712332-1-BLK LCS Sample Id: 7712332-1-BKS Date Prep: 09.30.2020
LCSD Sample Id: 7712332-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.00343	0.179	0.177	99	0.176	95	80-120	1	20	mg/kg	09.30.2020 16:45	

Analytical Method: Mercury by SW 7471A

Seq Number: 3138549 Matrix: Soil Prep Method: SW7471P
Parent Sample Id: 673539-003 MS Sample Id: 673539-003 S Date Prep: 09.30.2020
MSD Sample Id: 673539-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.00357	0.186	0.184	99	0.183	97	75-125	1	20	mg/kg	09.30.2020 16:51	

Analytical Method: Mercury by SW 7471A

Seq Number: 3138549 Matrix: Soil Prep Method: SW7471P
Parent Sample Id: 673676-003 MS Sample Id: 673676-003 S Date Prep: 09.30.2020
MSD Sample Id: 673676-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0309	0.172	0.192	94	0.193	94	75-125	1	20	mg/kg	09.30.2020 17:26	

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138509 Matrix: Water Prep Method: SW7470P
MB Sample Id: 7712325-1-BLK LCS Sample Id: 7712325-1-BKS Date Prep: 09.30.2020
LCSD Sample Id: 7712325-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000263	0.00200	0.00193	97	0.00195	98	80-120	1	20	mg/L	09.30.2020 12:41	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138530
MB Sample Id: 7712364-1-BLK

Matrix: Water
LCS Sample Id: 7712364-1-BKS

Prep Method: SW7470P
Date Prep: 09.30.2020
LCSD Sample Id: 7712364-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000263	0.00200	0.00212	106	0.00236	118	80-120	11	20	mg/L	09.30.2020 14:35	

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138509
Parent Sample Id: 673591-005

Matrix: Ground Water
MS Sample Id: 673591-005 S

Prep Method: SW7470P
Date Prep: 09.30.2020
MSD Sample Id: 673591-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000263	0.00200	0.00199	100	0.00204	102	75-125	2	20	mg/L	09.30.2020 12:47	

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138530
Parent Sample Id: 673677-009

Matrix: Ground Water
MS Sample Id: 673677-009 S

Prep Method: SW7470P
Date Prep: 09.30.2020
MSD Sample Id: 673677-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000263	0.00200	0.000796	40	0.000763	38	75-125	4	20	mg/L	09.30.2020 15:31	X

Analytical Method: SPLP Metals per ICP by SW-846 6010B

Seq Number: 3139332
MB Sample Id: 7712957-1-BLK

Matrix: Water
LCS Sample Id: 7712957-1-BKS

Prep Method: SW3010A
Date Prep: 10.09.2020
LCSD Sample Id: 7712957-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.00336	1.00	0.944	94	0.938	94	75-125	1	20	mg/L	10.09.2020 14:38	
Lead	<0.00183	1.00	0.985	99	0.982	98	75-125	0	20	mg/L	10.09.2020 14:38	

Analytical Method: SPLP Metals per ICP by SW-846 6010B

Seq Number: 3139332
Parent Sample Id: 674461-001

Matrix: Soil
MS Sample Id: 674461-001 S

Prep Method: SW3010A
Date Prep: 10.09.2020
MSD Sample Id: 674461-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	0.0639	1.00	0.994	93	1.06	100	75-125	6	20	mg/L	10.09.2020 14:51	
Lead	<0.00916	1.00	1.01	101	1.02	102	75-125	1	20	mg/L	10.09.2020 14:51	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138669

MB Sample Id: 7712358-1-BLK

Matrix: Water

LCS Sample Id: 7712358-1-BKS

Prep Method: SW3010A

Date Prep: 09.30.2020

LCSD Sample Id: 7712358-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.000246	0.100	0.0948	95	0.0949	95	80-120	0	20	mg/L	10.01.2020 16:51	
Barium	<0.000484	0.100	0.0911	91	0.0905	91	80-120	1	20	mg/L	10.01.2020 16:51	
Cadmium	<0.000147	0.100	0.0967	97	0.0962	96	80-120	1	20	mg/L	10.01.2020 16:51	
Chromium	<0.000525	0.100	0.0944	94	0.0945	95	80-120	0	20	mg/L	10.01.2020 16:51	
Lead	<0.000152	0.100	0.0952	95	0.0937	94	80-120	2	20	mg/L	10.01.2020 16:51	
Selenium	<0.000454	0.100	0.0964	96	0.0954	95	80-120	1	20	mg/L	10.01.2020 16:51	
Silver	<0.000251	0.0500	0.0480	96	0.0484	97	80-120	1	20	mg/L	10.01.2020 16:51	

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138668

MB Sample Id: 7712470-1-BLK

Matrix: Solid

LCS Sample Id: 7712470-1-BKS

Prep Method: SW3051

Date Prep: 10.01.2020

LCSD Sample Id: 7712470-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.0551	8.93	9.11	102	9.11	102	80-120	0	20	mg/kg	10.01.2020 19:15	
Barium	<0.0310	8.93	9.07	102	9.05	101	80-120	0	20	mg/kg	10.01.2020 19:15	
Cadmium	<0.0104	8.93	9.15	102	9.17	103	80-120	0	20	mg/kg	10.01.2020 19:15	
Chromium	<0.0242	8.93	9.03	101	9.09	102	80-120	1	20	mg/kg	10.01.2020 19:15	
Lead	<0.0173	8.93	9.17	103	9.11	102	80-120	1	20	mg/kg	10.01.2020 19:15	
Selenium	<0.0443	8.93	9.31	104	9.22	103	80-120	1	20	mg/kg	10.01.2020 19:15	
Silver	<0.0142	4.46	4.38	98	4.37	98	80-120	0	20	mg/kg	10.01.2020 19:15	

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138669

Parent Sample Id: 673610-001

Matrix: Waste Water

MS Sample Id: 673610-001 S

Prep Method: SW3010A

Date Prep: 09.30.2020

MSD Sample Id: 673610-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	0.0110	0.100	0.106	95	0.106	95	75-125	0	20	mg/L	10.01.2020 17:00	
Barium	0.0686	0.100	0.164	95	0.162	93	75-125	1	20	mg/L	10.01.2020 17:00	
Cadmium	<0.000147	0.100	0.0978	98	0.0967	97	75-125	1	20	mg/L	10.01.2020 17:00	
Chromium	<0.000525	0.100	0.0997	100	0.0977	98	75-125	2	20	mg/L	10.01.2020 17:00	
Lead	0.000287	0.100	0.0984	98	0.0968	97	75-125	2	20	mg/L	10.01.2020 17:00	
Selenium	0.0144	0.100	0.109	95	0.110	96	75-125	1	20	mg/L	10.01.2020 17:00	
Silver	<0.000251	0.0500	0.0489	98	0.0479	96	75-125	2	20	mg/L	10.01.2020 17:00	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138668 Matrix: Soil Prep Method: SW3051
 Parent Sample Id: 673675-004 MS Sample Id: 673675-004 S Date Prep: 10.01.2020
 MSD Sample Id: 673675-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	1.96	11.3	13.3	100	13.4	99	75-125	1	30	mg/kg	10.01.2020 19:24	
Barium	120	11.3	125	44	127	61	75-125	2	30	mg/kg	10.01.2020 19:24	X
Cadmium	<0.131	11.3	11.2	99	11.3	98	75-125	1	30	mg/kg	10.01.2020 19:24	
Chromium	8.57	11.3	19.4	96	19.9	99	75-125	3	30	mg/kg	10.01.2020 19:24	
Lead	11.3	11.3	22.1	96	22.4	97	75-125	1	30	mg/kg	10.01.2020 19:24	
Selenium	<0.561	11.3	11.6	103	11.9	103	75-125	3	30	mg/kg	10.01.2020 19:24	
Silver	<0.180	5.65	5.77	102	5.88	102	75-125	2	30	mg/kg	10.01.2020 19:24	

Analytical Method: Chromium, Hexavalent by SW 7196A

Seq Number: 3138286 Matrix: Water
 MB Sample Id: 3138286-1-BLK LCS Sample Id: 3138286-1-BKS LCSD Sample Id: 3138286-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium, Hexavalent	<0.00239	0.200	0.198	99	0.198	99	85-115	0	20	mg/L	09.28.2020 14:03	

Analytical Method: Chromium, Hexavalent by SW 7196A

Seq Number: 3138286 Matrix: Ground Water
 Parent Sample Id: 673676-011 MS Sample Id: 673676-011 S MSD Sample Id: 673676-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium, Hexavalent	<0.00239	0.200	0.195	98	0.196	98	85-115	1	20	mg/L	09.28.2020 14:03	

Analytical Method: Soil pH by SW-846 9045C

Seq Number: 3138392 Matrix: Soil
 Parent Sample Id: 673640-001 MD Sample Id: 673640-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Soil pH meas. in water at pH	22.5	22.8	1	25	Deg C	09.29.2020 11:43	
	7.83	7.84	0	20	SU	09.29.2020 11:43	

Analytical Method: Soil pH by SW-846 9045C

Seq Number: 3138392 Matrix: Soil
 Parent Sample Id: 673675-004 MD Sample Id: 673675-004 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Soil pH meas. in water at pH	24.3	24.4	0	25	Deg C	09.29.2020 11:43	
	7.96	7.97	0	20	SU	09.29.2020 11:43	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

[D] = 100*(C-A) / B
 RPD = 200* | (C-E) / (C+E) |
 [D] = 100 * (C) / [B]
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: TPH by Texas1005

Seq Number: 3138396
MB Sample Id: 7712199-1-BLK

Matrix: Solid
LCS Sample Id: 7712199-1-BKS

Prep Method: TX1005P
Date Prep: 09.28.2020
LCSD Sample Id: 7712199-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<21.1	1000	1080	108	1130	113	75-125	5	20	mg/kg	09.28.2020 18:52	
>C12-C28 Diesel Range Hydrocarbons	<21.1	1000	1000	100	1050	105	75-125	5	20	mg/kg	09.28.2020 18:52	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
o-Terphenyl	97		103		107		70-130	%	09.28.2020 18:52			
1-Chlorooctane	99		112		115		70-130	%	09.28.2020 18:52			

Analytical Method: TPH by Texas1005

Seq Number: 3138497
MB Sample Id: 7712289-1-BLK

Matrix: Water
LCS Sample Id: 7712289-1-BKS

Prep Method: TX1005P
Date Prep: 09.29.2020
LCSD Sample Id: 7712289-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.885	100	105	105	113	113	75-125	7	20	mg/L	09.30.2020 02:35	
>C12-C28 Diesel Range Hydrocarbons	<0.863	100	99.8	100	106	106	75-125	6	20	mg/L	09.30.2020 02:35	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
o-Terphenyl	107		111		119		70-130	%	09.30.2020 02:35			
1-Chlorooctane	110		121		126		70-130	%	09.30.2020 02:35			

Analytical Method: TPH by Texas1005

Seq Number: 3138396
MB Sample Id: 7712199-1-BLK

Matrix: Solid

Prep Method: TX1005P
Date Prep: 09.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
>C28-C35 Oil Range Hydrocarbons	<21.1	mg/kg	09.28.2020 19:33	

Analytical Method: TPH by Texas1005

Seq Number: 3138497
MB Sample Id: 7712289-1-BLK

Matrix: Water

Prep Method: TX1005P
Date Prep: 09.29.2020

Parameter	MB Result	Units	Analysis Date	Flag
>C28-C35 Oil Range Hydrocarbons	<0.863	mg/L	09.30.2020 02:14	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: TPH by Texas1005

Seq Number: 3138396

Parent Sample Id: 673541-005

Matrix: Soil

MS Sample Id: 673541-005 S

Prep Method: TX1005P

Date Prep: 09.28.2020

MSD Sample Id: 673541-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	175	1230	1410	100	1470	105	75-125	4	20	mg/kg	09.28.2020 20:55	
>C12-C28 Diesel Range Hydrocarbons	10400	1230	6200	0	7970	0	75-125	25	20	mg/kg	09.28.2020 20:55	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
o-Terphenyl	106		124		70-130	%	09.28.2020 20:55
1-Chlorooctane	107		111		70-130	%	09.28.2020 20:55

Analytical Method: TPH by Texas1005

Seq Number: 3138497

Parent Sample Id: 673676-011

Matrix: Ground Water

MS Sample Id: 673676-011 S

Prep Method: TX1005P

Date Prep: 09.29.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.822	92.9	105	113	75-125	mg/L	09.30.2020 03:36	
>C12-C28 Diesel Range Hydrocarbons	2.19	92.9	97.3	102	75-125	mg/L	09.30.2020 03:36	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
o-Terphenyl	120		70-130	%	09.30.2020 03:36
1-Chlorooctane	128		70-130	%	09.30.2020 03:36

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138493

MB Sample Id: 7712368-1-BLK

Matrix: Water

LCS Sample Id: 7712368-1-BKS

Prep Method: SW5030B

Date Prep: 09.29.2020

LCSD Sample Id: 7712368-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0522	104	0.0504	101	66-142	4	25	mg/L	09.29.2020 09:27	
Bromobenzene	<0.000300	0.0500	0.0509	102	0.0494	99	75-125	3	25	mg/L	09.29.2020 09:27	
Bromochloromethane	<0.000209	0.0500	0.0526	105	0.0506	101	60-140	4	25	mg/L	09.29.2020 09:27	
Bromodichloromethane	<0.000231	0.0500	0.0516	103	0.0513	103	75-125	1	25	mg/L	09.29.2020 09:27	
Bromoform	<0.000630	0.0500	0.0546	109	0.0542	108	75-125	1	25	mg/L	09.29.2020 09:27	
Methyl bromide	<0.00105	0.0500	0.0502	100	0.0471	94	60-140	6	25	mg/L	09.29.2020 09:27	
2-Butanone	<0.00270	0.250	0.280	112	0.294	118	60-140	5	25	mg/L	09.29.2020 09:27	
n-Butylbenzene	<0.000286	0.0500	0.0540	108	0.0509	102	75-125	6	25	mg/L	09.29.2020 09:27	
Sec-Butylbenzene	<0.000199	0.0500	0.0492	98	0.0464	93	75-125	6	25	mg/L	09.29.2020 09:27	
tert-Butylbenzene	<0.000195	0.0500	0.0550	110	0.0515	103	75-125	7	25	mg/L	09.29.2020 09:27	
Carbon Tetrachloride	<0.000423	0.0500	0.0548	110	0.0530	106	62-125	3	25	mg/L	09.29.2020 09:27	
Chlorobenzene	<0.000159	0.0500	0.0504	101	0.0489	98	60-133	3	25	mg/L	09.29.2020 09:27	
Chloroethane	<0.000433	0.0500	0.0468	94	0.0441	88	60-140	6	25	mg/L	09.29.2020 09:27	
Chloroform	<0.000259	0.0500	0.0522	104	0.0515	103	70-130	1	25	mg/L	09.29.2020 09:27	
Methyl Chloride	<0.000318	0.0500	0.0635	127	0.0588	118	60-140	8	25	mg/L	09.29.2020 09:27	
2-Chlorotoluene	<0.000214	0.0500	0.0518	104	0.0490	98	73-125	6	25	mg/L	09.29.2020 09:27	
4-Chlorotoluene	<0.000183	0.0500	0.0532	106	0.0496	99	74-125	7	25	mg/L	09.29.2020 09:27	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0540	108	0.0512	102	75-125	5	25	mg/L	09.29.2020 09:27	
Dibromochloromethane	<0.000739	0.0500	0.0526	105	0.0521	104	73-125	1	25	mg/L	09.29.2020 09:27	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0510	102	0.0528	106	59-125	3	25	mg/L	09.29.2020 09:27	
1,2-Dibromoethane	<0.000337	0.0500	0.0538	108	0.0530	106	73-125	1	25	mg/L	09.29.2020 09:27	
Methylene Bromide	<0.000130	0.0500	0.0527	105	0.0519	104	69-127	2	25	mg/L	09.29.2020 09:27	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0508	102	0.0483	97	75-125	5	25	mg/L	09.29.2020 09:27	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0499	100	0.0480	96	75-125	4	25	mg/L	09.29.2020 09:27	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0511	102	0.0487	97	75-125	5	25	mg/L	09.29.2020 09:27	
Dichlorodifluoromethane	<0.000316	0.0500	0.0623	125	0.0573	115	60-140	8	25	mg/L	09.29.2020 09:27	
1,1-Dichloroethane	<0.000244	0.0500	0.0553	111	0.0531	106	72-125	4	25	mg/L	09.29.2020 09:27	
1,2-Dichloroethane	<0.000285	0.0500	0.0515	103	0.0512	102	68-127	1	25	mg/L	09.29.2020 09:27	
1,1-Dichloroethene	<0.000216	0.0500	0.0562	112	0.0534	107	59-172	5	25	mg/L	09.29.2020 09:27	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0533	107	0.0519	104	75-125	3	25	mg/L	09.29.2020 09:27	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0548	110	0.0527	105	75-125	4	25	mg/L	09.29.2020 09:27	
1,2-Dichloropropane	<0.000396	0.0500	0.0544	109	0.0529	106	74-125	3	25	mg/L	09.29.2020 09:27	
1,3-Dichloropropane	<0.000439	0.0500	0.0555	111	0.0558	112	75-125	1	25	mg/L	09.29.2020 09:27	
2,2-Dichloropropane	<0.000360	0.0500	0.0555	111	0.0537	107	75-125	3	25	mg/L	09.29.2020 09:27	
1,1-Dichloropropene	<0.000481	0.0500	0.0559	112	0.0543	109	75-125	3	25	mg/L	09.29.2020 09:27	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0550	110	0.0546	109	74-125	1	25	mg/L	09.29.2020 09:27	
trans-1,3-dichloropropene	<0.000752	0.0500	0.0528	106	0.0521	104	66-125	1	25	mg/L	09.29.2020 09:27	
Ethylbenzene	<0.000146	0.0500	0.0523	105	0.0500	100	75-125	4	25	mg/L	09.29.2020 09:27	
Hexachlorobutadiene	<0.00200	0.0500	0.0511	102	0.0492	98	75-125	4	25	mg/L	09.29.2020 09:27	
Isopropylbenzene	<0.000161	0.0500	0.0517	103	0.0497	99	75-125	4	25	mg/L	09.29.2020 09:27	
Methylene Chloride	<0.00191	0.0500	0.0490	98	0.0469	94	75-125	4	25	mg/L	09.29.2020 09:27	
MTBE	<0.000571	0.0500	0.0501	100	0.0515	103	65-135	3	25	mg/L	09.29.2020 09:27	
Naphthalene	<0.00200	0.0500	0.0513	103	0.0534	107	70-130	4	25	mg/L	09.29.2020 09:27	
n-Propylbenzene	<0.000179	0.0500	0.0547	109	0.0514	103	75-125	6	25	mg/L	09.29.2020 09:27	
Styrene	<0.000162	0.0500	0.0538	108	0.0514	103	75-125	5	25	mg/L	09.29.2020 09:27	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0514	103	0.0515	103	72-125	0	25	mg/L	09.29.2020 09:27	
1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0515	103	0.0513	103	74-125	0	25	mg/L	09.29.2020 09:27	
Tetrachloroethylene	<0.000500	0.0500	0.0517	103	0.0503	101	71-125	3	25	mg/L	09.29.2020 09:27	
Toluene	<0.000500	0.0500	0.0522	104	0.0500	100	59-139	4	25	mg/L	09.29.2020 09:27	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0498	100	0.0519	104	75-137	4	25	mg/L	09.29.2020 09:27	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138493

MB Sample Id: 7712368-1-BLK

Matrix: Water

LCS Sample Id: 7712368-1-BKS

Prep Method: SW5030B

Date Prep: 09.29.2020

LCSD Sample Id: 7712368-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0513	103	0.0514	103	75-135	0	25	mg/L	09.29.2020 09:27	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0564	113	0.0546	109	75-125	3	25	mg/L	09.29.2020 09:27	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0523	105	0.0523	105	75-127	0	25	mg/L	09.29.2020 09:27	
Trichloroethylene	<0.000424	0.0500	0.0531	106	0.0517	103	62-137	3	25	mg/L	09.29.2020 09:27	
Trichlorofluoromethane	<0.000245	0.0500	0.0582	116	0.0551	110	60-140	5	25	mg/L	09.29.2020 09:27	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0536	107	0.0538	108	75-125	0	25	mg/L	09.29.2020 09:27	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0538	108	0.0516	103	75-125	4	25	mg/L	09.29.2020 09:27	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0545	109	0.0519	104	70-125	5	25	mg/L	09.29.2020 09:27	
o-Xylene	<0.000192	0.0500	0.0546	109	0.0527	105	75-125	4	25	mg/L	09.29.2020 09:27	
m,p-Xylenes	<0.000330	0.100	0.106	106	0.102	102	75-125	4	25	mg/L	09.29.2020 09:27	
Vinyl Chloride	<0.000234	0.0500	0.0594	119	0.0544	109	60-140	9	25	mg/L	09.29.2020 09:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	93		101		101		75-131	%	09.29.2020 09:27
1,2-Dichloroethane-D4	86		101		108		63-144	%	09.29.2020 09:27
Toluene-D8	98		99		99		80-117	%	09.29.2020 09:27
4-Bromofluorobenzene	101		101		100		74-124	%	09.29.2020 09:27

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138623

MB Sample Id: 7712449-1-BLK

Matrix: Solid

LCS Sample Id: 7712449-1-BKS

Prep Method: SW5035A

Date Prep: 09.30.2020

LCSD Sample Id: 7712449-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000207	0.0500	0.0514	103	0.0553	111	66-142	7	25	mg/kg	09.30.2020 10:27	
Bromobenzene	<0.000346	0.0500	0.0481	96	0.0455	91	75-125	6	25	mg/kg	09.30.2020 10:27	
Bromochloromethane	<0.000526	0.0500	0.0501	100	0.0556	111	60-140	10	25	mg/kg	09.30.2020 10:27	
Bromodichloromethane	<0.000251	0.0500	0.0486	97	0.0533	107	75-125	9	25	mg/kg	09.30.2020 10:27	
Bromoform	<0.00103	0.0500	0.0459	92	0.0460	92	75-125	0	25	mg/kg	09.30.2020 10:27	
Methyl bromide	<0.000943	0.0500	0.0841	168	0.0944	189	60-140	12	25	mg/kg	09.30.2020 10:27	H
2-Butanone	<0.00365	0.250	0.288	115	0.325	130	75-125	12	25	mg/kg	09.30.2020 10:27	H
tert-Butylbenzene	<0.00128	0.0500	0.0511	102	0.0485	97	75-125	5	25	mg/kg	09.30.2020 10:27	
Sec-Butylbenzene	<0.000261	0.0500	0.0523	105	0.0496	99	75-125	5	25	mg/kg	09.30.2020 10:27	
n-Butylbenzene	<0.000274	0.0500	0.0546	109	0.0522	104	75-125	4	25	mg/kg	09.30.2020 10:27	
Carbon Tetrachloride	<0.00164	0.0500	0.0581	116	0.0639	128	62-125	10	25	mg/kg	09.30.2020 10:27	H
Chlorobenzene	<0.000237	0.0500	0.0490	98	0.0487	97	60-133	1	25	mg/kg	09.30.2020 10:27	
Chloroethane	<0.000444	0.0500	0.0585	117	0.0625	125	60-140	7	25	mg/kg	09.30.2020 10:27	
Chloroform	<0.000173	0.0500	0.0522	104	0.0584	117	74-125	11	25	mg/kg	09.30.2020 10:27	
Methyl Chloride	<0.000431	0.0500	0.0454	91	0.0491	98	60-140	8	25	mg/kg	09.30.2020 10:27	
2-Chlorotoluene	<0.000342	0.0500	0.0489	98	0.0471	94	73-125	4	25	mg/kg	09.30.2020 10:27	
4-Chlorotoluene	<0.000264	0.0500	0.0498	100	0.0479	96	74-125	4	25	mg/kg	09.30.2020 10:27	
p-Cymene (p-Isopropyltoluene)	<0.000319	0.0500	0.0528	106	0.0499	100	75-125	6	25	mg/kg	09.30.2020 10:27	
1,2-Dibromo-3-Chloropropane	<0.000704	0.0500	0.0550	110	0.0531	106	59-125	4	25	mg/kg	09.30.2020 10:27	
Dibromochloromethane	<0.000895	0.0500	0.0467	93	0.0469	94	73-125	0	25	mg/kg	09.30.2020 10:27	
1,2-Dibromoethane	<0.00104	0.0500	0.0477	95	0.0480	96	73-125	1	25	mg/kg	09.30.2020 10:27	
Methylene Bromide	<0.000371	0.0500	0.0478	96	0.0518	104	69-127	8	25	mg/kg	09.30.2020 10:27	
1,2-Dichlorobenzene	<0.000288	0.0500	0.0497	99	0.0478	96	75-125	4	25	mg/kg	09.30.2020 10:27	
1,3-Dichlorobenzene	<0.000273	0.0500	0.0508	102	0.0481	96	75-125	5	25	mg/kg	09.30.2020 10:27	
1,4-Dichlorobenzene	<0.000214	0.0500	0.0500	100	0.0477	95	75-125	5	25	mg/kg	09.30.2020 10:27	
Dichlorodifluoromethane	<0.00111	0.0500	0.0592	118	0.0637	127	65-135	7	25	mg/kg	09.30.2020 10:27	
1,2-Dichloroethane	<0.000304	0.0500	0.0483	97	0.0521	104	68-127	8	25	mg/kg	09.30.2020 10:27	
1,1-Dichloroethane	<0.000376	0.0500	0.0551	110	0.0614	123	72-125	11	25	mg/kg	09.30.2020 10:27	
trans-1,2-dichloroethylene	<0.000434	0.0500	0.0539	108	0.0590	118	75-125	9	25	mg/kg	09.30.2020 10:27	
cis-1,2-Dichloroethylene	<0.000301	0.0500	0.0545	109	0.0597	119	75-125	9	25	mg/kg	09.30.2020 10:27	
1,1-Dichloroethene	<0.000277	0.0500	0.0563	113	0.0621	124	59-172	10	25	mg/kg	09.30.2020 10:27	
2,2-Dichloropropane	<0.000524	0.0500	0.0561	112	0.0613	123	75-125	9	25	mg/kg	09.30.2020 10:27	
1,3-Dichloropropane	<0.000409	0.0500	0.0491	98	0.0487	97	75-125	1	25	mg/kg	09.30.2020 10:27	
1,2-Dichloropropane	<0.000198	0.0500	0.0522	104	0.0563	113	74-125	8	25	mg/kg	09.30.2020 10:27	
trans-1,3-dichloropropene	<0.000909	0.0500	0.0518	104	0.0513	103	66-125	1	25	mg/kg	09.30.2020 10:27	
1,1-Dichloropropene	<0.000448	0.0500	0.0584	117	0.0641	128	75-125	9	25	mg/kg	09.30.2020 10:27	H
cis-1,3-Dichloropropene	<0.000230	0.0500	0.0530	106	0.0574	115	74-125	8	25	mg/kg	09.30.2020 10:27	
Ethylbenzene	<0.000336	0.0500	0.0503	101	0.0499	100	75-125	1	25	mg/kg	09.30.2020 10:27	
Hexachlorobutadiene	<0.00200	0.0500	0.0541	108	0.0516	103	75-125	5	25	mg/kg	09.30.2020 10:27	
Isopropylbenzene	<0.000174	0.0500	0.0512	102	0.0503	101	75-125	2	25	mg/kg	09.30.2020 10:27	
Methylene Chloride	<0.00422	0.0500	0.0525	105	0.0603	121	75-125	14	25	mg/kg	09.30.2020 10:27	
MTBE	<0.000409	0.0500	0.0529	106	0.0579	116	60-140	9	25	mg/kg	09.30.2020 10:27	
Naphthalene	<0.00200	0.0500	0.0649	130	0.0640	128	70-130	1	25	mg/kg	09.30.2020 10:27	
n-Propylbenzene	<0.000286	0.0500	0.0509	102	0.0487	97	75-125	4	25	mg/kg	09.30.2020 10:27	
Styrene	<0.000205	0.0500	0.0509	102	0.0504	101	75-125	1	25	mg/kg	09.30.2020 10:27	
1,1,1,2-Tetrachloroethane	<0.000267	0.0500	0.0492	98	0.0490	98	72-125	0	25	mg/kg	09.30.2020 10:27	
1,1,1,2,2-Tetrachloroethane	<0.000470	0.0500	0.0508	102	0.0486	97	74-125	4	25	mg/kg	09.30.2020 10:27	
Tetrachloroethylene	<0.000370	0.0500	0.0500	100	0.0495	99	71-125	1	25	mg/kg	09.30.2020 10:27	
Toluene	<0.00100	0.0500	0.0491	98	0.0490	98	59-139	0	25	mg/kg	09.30.2020 10:27	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0590	118	0.0574	115	75-137	3	25	mg/kg	09.30.2020 10:27	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138623

MB Sample Id: 7712449-1-BLK

Matrix: Solid

LCS Sample Id: 7712449-1-BKS

Prep Method: SW5035A

Date Prep: 09.30.2020

LCSD Sample Id: 7712449-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0587	117	0.0555	111	75-135	6	25	mg/kg	09.30.2020 10:27	
1,1,2-Trichloroethane	<0.000392	0.0500	0.0480	96	0.0483	97	75-127	1	25	mg/kg	09.30.2020 10:27	
1,1,1-Trichloroethane	<0.000503	0.0500	0.0548	110	0.0603	121	75-125	10	25	mg/kg	09.30.2020 10:27	
Trichloroethylene	<0.000494	0.0500	0.0504	101	0.0542	108	62-137	7	25	mg/kg	09.30.2020 10:27	
Trichlorofluoromethane	<0.000307	0.0500	0.0576	115	0.0622	124	67-125	8	25	mg/kg	09.30.2020 10:27	
1,2,3-Trichloropropane	<0.000450	0.0500	0.0556	111	0.0532	106	75-125	4	25	mg/kg	09.30.2020 10:27	
1,2,4-Trimethylbenzene	<0.000255	0.0500	0.0510	102	0.0484	97	75-125	5	25	mg/kg	09.30.2020 10:27	
1,3,5-Trimethylbenzene	<0.000289	0.0500	0.0508	102	0.0485	97	70-130	5	25	mg/kg	09.30.2020 10:27	
Vinyl Chloride	<0.000441	0.0500	0.0622	124	0.0673	135	60-140	8	25	mg/kg	09.30.2020 10:27	
o-Xylene	<0.000985	0.0500	0.0494	99	0.0491	98	75-125	1	25	mg/kg	09.30.2020 10:27	
m,p-Xylenes	<0.000800	0.100	0.0987	99	0.0993	99	75-125	1	25	mg/kg	09.30.2020 10:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	104		107		111		53-142	%	09.30.2020 10:27
1,2-Dichloroethane-D4	104		98		105		56-150	%	09.30.2020 10:27
Toluene-D8	92		99		92		70-130	%	09.30.2020 10:27
4-Bromofluorobenzene	103		99		97		68-152	%	09.30.2020 10:27

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138770

MB Sample Id: 7712570-1-BLK

Matrix: Solid

LCS Sample Id: 7712570-1-BKS

Prep Method: SW5035A

Date Prep: 10.01.2020

LCSD Sample Id: 7712570-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000207	0.0500	0.0489	98	0.0501	100	66-142	2	25	mg/kg	10.01.2020 10:32	
Bromobenzene	<0.000346	0.0500	0.0457	91	0.0467	93	75-125	2	25	mg/kg	10.01.2020 10:32	
Bromochloromethane	<0.000526	0.0500	0.0532	106	0.0541	108	60-140	2	25	mg/kg	10.01.2020 10:32	
Bromodichloromethane	<0.000251	0.0500	0.0491	98	0.0499	100	75-125	2	25	mg/kg	10.01.2020 10:32	
Bromoform	<0.00103	0.0500	0.0469	94	0.0476	95	75-125	1	25	mg/kg	10.01.2020 10:32	
Methyl bromide	<0.000943	0.0500	0.0934	187	0.0847	169	60-140	10	25	mg/kg	10.01.2020 10:32	H
2-Butanone	<0.00365	0.250	0.290	116	0.288	115	75-125	1	25	mg/kg	10.01.2020 10:32	
tert-Butylbenzene	<0.00128	0.0500	0.0477	95	0.0493	99	75-125	3	25	mg/kg	10.01.2020 10:32	
Sec-Butylbenzene	<0.000261	0.0500	0.0490	98	0.0493	99	75-125	1	25	mg/kg	10.01.2020 10:32	
n-Butylbenzene	<0.000274	0.0500	0.0511	102	0.0513	103	75-125	0	25	mg/kg	10.01.2020 10:32	
Carbon Tetrachloride	<0.00164	0.0500	0.0582	116	0.0594	119	62-125	2	25	mg/kg	10.01.2020 10:32	
Chlorobenzene	<0.000237	0.0500	0.0483	97	0.0484	97	60-133	0	25	mg/kg	10.01.2020 10:32	
Chloroethane	<0.000444	0.0500	0.0569	114	0.0548	110	60-140	4	25	mg/kg	10.01.2020 10:32	
Chloroform	<0.000173	0.0500	0.0529	106	0.0540	108	74-125	2	25	mg/kg	10.01.2020 10:32	
Methyl Chloride	<0.000431	0.0500	0.0422	84	0.0422	84	60-140	0	25	mg/kg	10.01.2020 10:32	
2-Chlorotoluene	<0.000342	0.0500	0.0462	92	0.0472	94	73-125	2	25	mg/kg	10.01.2020 10:32	
4-Chlorotoluene	<0.000264	0.0500	0.0470	94	0.0472	94	74-125	0	25	mg/kg	10.01.2020 10:32	
p-Cymene (p-Isopropyltoluene)	<0.000319	0.0500	0.0494	99	0.0496	99	75-125	0	25	mg/kg	10.01.2020 10:32	
1,2-Dibromo-3-Chloropropane	<0.000704	0.0500	0.0502	100	0.0527	105	59-125	5	25	mg/kg	10.01.2020 10:32	
Dibromochloromethane	<0.000895	0.0500	0.0473	95	0.0479	96	73-125	1	25	mg/kg	10.01.2020 10:32	
1,2-Dibromoethane	<0.00104	0.0500	0.0470	94	0.0472	94	73-125	0	25	mg/kg	10.01.2020 10:32	
Methylene Bromide	<0.000371	0.0500	0.0480	96	0.0502	100	69-127	4	25	mg/kg	10.01.2020 10:32	
1,2-Dichlorobenzene	<0.000288	0.0500	0.0475	95	0.0482	96	75-125	1	25	mg/kg	10.01.2020 10:32	
1,3-Dichlorobenzene	<0.000273	0.0500	0.0476	95	0.0478	96	75-125	0	25	mg/kg	10.01.2020 10:32	
1,4-Dichlorobenzene	<0.000214	0.0500	0.0476	95	0.0477	95	75-125	0	25	mg/kg	10.01.2020 10:32	
Dichlorodifluoromethane	<0.00111	0.0500	0.0524	105	0.0535	107	65-135	2	25	mg/kg	10.01.2020 10:32	
1,2-Dichloroethane	<0.000304	0.0500	0.0480	96	0.0484	97	68-127	1	25	mg/kg	10.01.2020 10:32	
1,1-Dichloroethane	<0.000376	0.0500	0.0550	110	0.0558	112	72-125	1	25	mg/kg	10.01.2020 10:32	
trans-1,2-dichloroethylene	<0.000434	0.0500	0.0528	106	0.0528	106	75-125	0	25	mg/kg	10.01.2020 10:32	
cis-1,2-Dichloroethylene	<0.000301	0.0500	0.0545	109	0.0555	111	75-125	2	25	mg/kg	10.01.2020 10:32	
1,1-Dichloroethene	<0.000277	0.0500	0.0536	107	0.0549	110	59-172	2	25	mg/kg	10.01.2020 10:32	
2,2-Dichloropropane	<0.000524	0.0500	0.0539	108	0.0549	110	75-125	2	25	mg/kg	10.01.2020 10:32	
1,3-Dichloropropane	<0.000409	0.0500	0.0481	96	0.0486	97	75-125	1	25	mg/kg	10.01.2020 10:32	
1,2-Dichloropropane	<0.000198	0.0500	0.0504	101	0.0520	104	74-125	3	25	mg/kg	10.01.2020 10:32	
trans-1,3-dichloropropene	<0.000909	0.0500	0.0511	102	0.0506	101	66-125	1	25	mg/kg	10.01.2020 10:32	
1,1-Dichloropropene	<0.000448	0.0500	0.0551	110	0.0564	113	75-125	2	25	mg/kg	10.01.2020 10:32	
cis-1,3-Dichloropropene	<0.000230	0.0500	0.0518	104	0.0532	106	74-125	3	25	mg/kg	10.01.2020 10:32	
Ethylbenzene	<0.000336	0.0500	0.0483	97	0.0483	97	75-125	0	25	mg/kg	10.01.2020 10:32	
Hexachlorobutadiene	<0.00200	0.0500	0.0519	104	0.0521	104	75-125	0	25	mg/kg	10.01.2020 10:32	
Isopropylbenzene	<0.000174	0.0500	0.0489	98	0.0494	99	75-125	1	25	mg/kg	10.01.2020 10:32	
Methylene Chloride	<0.00422	0.0500	0.0533	107	0.0549	110	75-125	3	25	mg/kg	10.01.2020 10:32	
MTBE	<0.000409	0.0500	0.0532	106	0.0548	110	60-140	3	25	mg/kg	10.01.2020 10:32	
Naphthalene	<0.00200	0.0500	0.0594	119	0.0620	124	70-130	4	25	mg/kg	10.01.2020 10:32	
n-Propylbenzene	<0.000286	0.0500	0.0480	96	0.0477	95	75-125	1	25	mg/kg	10.01.2020 10:32	
Styrene	<0.000205	0.0500	0.0501	100	0.0498	100	75-125	1	25	mg/kg	10.01.2020 10:32	
1,1,1,2-Tetrachloroethane	<0.000267	0.0500	0.0490	98	0.0496	99	72-125	1	25	mg/kg	10.01.2020 10:32	
1,1,2,2-Tetrachloroethane	<0.000470	0.0500	0.0465	93	0.0484	97	74-125	4	25	mg/kg	10.01.2020 10:32	
Tetrachloroethylene	<0.000370	0.0500	0.0481	96	0.0476	95	71-125	1	25	mg/kg	10.01.2020 10:32	
Toluene	<0.00100	0.0500	0.0467	93	0.0468	94	59-139	0	25	mg/kg	10.01.2020 10:32	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0554	111	0.0566	113	75-137	2	25	mg/kg	10.01.2020 10:32	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138770

MB Sample Id: 7712570-1-BLK

Matrix: Solid

LCS Sample Id: 7712570-1-BKS

Prep Method: SW5035A

Date Prep: 10.01.2020

LCSD Sample Id: 7712570-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0540	108	0.0547	109	75-135	1	25	mg/kg	10.01.2020 10:32	
1,1,2-Trichloroethane	<0.000392	0.0500	0.0477	95	0.0476	95	75-127	0	25	mg/kg	10.01.2020 10:32	
1,1,1-Trichloroethane	<0.000503	0.0500	0.0534	107	0.0547	109	75-125	2	25	mg/kg	10.01.2020 10:32	
Trichloroethylene	<0.000494	0.0500	0.0486	97	0.0493	99	62-137	1	25	mg/kg	10.01.2020 10:32	
Trichlorofluoromethane	<0.000307	0.0500	0.0538	108	0.0569	114	67-125	6	25	mg/kg	10.01.2020 10:32	
1,2,3-Trichloropropane	<0.000450	0.0500	0.0495	99	0.0516	103	75-125	4	25	mg/kg	10.01.2020 10:32	
1,2,4-Trimethylbenzene	<0.000255	0.0500	0.0475	95	0.0476	95	75-125	0	25	mg/kg	10.01.2020 10:32	
1,3,5-Trimethylbenzene	<0.000289	0.0500	0.0472	94	0.0479	96	70-130	1	25	mg/kg	10.01.2020 10:32	
Vinyl Chloride	<0.000441	0.0500	0.0560	112	0.0577	115	60-140	3	25	mg/kg	10.01.2020 10:32	
o-Xylene	<0.000985	0.0500	0.0479	96	0.0478	96	75-125	0	25	mg/kg	10.01.2020 10:32	
m,p-Xylenes	<0.000800	0.100	0.0965	97	0.0958	96	75-125	1	25	mg/kg	10.01.2020 10:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	109		109		110		53-142	%	10.01.2020 10:32
1,2-Dichloroethane-D4	101		94		101		56-150	%	10.01.2020 10:32
Toluene-D8	94		96		95		70-130	%	10.01.2020 10:32
4-Bromofluorobenzene	100		98		97		68-152	%	10.01.2020 10:32

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138770

Parent Sample Id: 673723-001

Matrix: Solid

MS Sample Id: 673723-001 S

Prep Method: SW5035A

Date Prep: 10.01.2020

MSD Sample Id: 673723-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000205	0.0496	0.0470	95	0.0422	85	66-142	11	25	mg/kg	10.01.2020 11:29	
Bromobenzene	<0.000344	0.0496	0.0360	73	0.0325	65	75-125	10	25	mg/kg	10.01.2020 11:29	X
Bromochloromethane	<0.000521	0.0496	0.0565	114	0.0510	102	60-140	10	25	mg/kg	10.01.2020 11:29	
Bromodichloromethane	<0.000249	0.0496	0.0475	96	0.0406	82	75-125	16	25	mg/kg	10.01.2020 11:29	
Bromoform	<0.00102	0.0496	0.0343	69	0.0297	60	75-125	14	25	mg/kg	10.01.2020 11:29	X
Methyl bromide	<0.000936	0.0496	0.0975	197	0.0752	151	60-140	26	25	mg/kg	10.01.2020 11:29	XF
2-Butanone	<0.00362	0.248	0.340	137	0.299	120	75-125	13	25	mg/kg	10.01.2020 11:29	X
tert-Butylbenzene	<0.00127	0.0496	0.0270	54	0.0269	54	75-125	0	25	mg/kg	10.01.2020 11:29	X
Sec-Butylbenzene	<0.000259	0.0496	0.0258	52	0.0261	52	75-125	1	25	mg/kg	10.01.2020 11:29	X
n-Butylbenzene	<0.000272	0.0496	0.0202	41	0.0201	40	75-125	0	25	mg/kg	10.01.2020 11:29	X
Carbon Tetrachloride	<0.00163	0.0496	0.0439	89	0.0434	87	62-125	1	25	mg/kg	10.01.2020 11:29	
Chlorobenzene	<0.000235	0.0496	0.0338	68	0.0317	64	60-133	6	25	mg/kg	10.01.2020 11:29	
Chloroethane	<0.000440	0.0496	0.0632	127	0.0614	123	60-140	3	25	mg/kg	10.01.2020 11:29	
Chloroform	<0.000171	0.0496	0.0567	114	0.0504	101	74-125	12	25	mg/kg	10.01.2020 11:29	
Methyl Chloride	<0.000427	0.0496	0.0472	95	0.0433	87	60-140	9	25	mg/kg	10.01.2020 11:29	
2-Chlorotoluene	<0.000339	0.0496	0.0318	64	0.0305	61	73-125	4	25	mg/kg	10.01.2020 11:29	X
4-Chlorotoluene	<0.000261	0.0496	0.0310	63	0.0292	59	74-125	6	25	mg/kg	10.01.2020 11:29	X
p-Cymene (p-Isopropyltoluene)	<0.000316	0.0496	0.0225	45	0.0227	46	75-125	1	25	mg/kg	10.01.2020 11:29	X
1,2-Dibromo-3-Chloropropane	<0.000698	0.0496	0.0352	71	0.0297	60	59-125	17	25	mg/kg	10.01.2020 11:29	
Dibromochloromethane	<0.000888	0.0496	0.0444	90	0.0411	83	73-125	8	25	mg/kg	10.01.2020 11:29	
1,2-Dibromoethane	<0.00104	0.0496	0.0451	91	0.0405	81	73-125	11	25	mg/kg	10.01.2020 11:29	
Methylene Bromide	<0.000368	0.0496	0.0487	98	0.0416	84	69-127	16	25	mg/kg	10.01.2020 11:29	
1,2-Dichlorobenzene	<0.000285	0.0496	0.0228	46	0.0204	41	75-125	11	25	mg/kg	10.01.2020 11:29	X
1,3-Dichlorobenzene	<0.000270	0.0496	0.0243	49	0.0228	46	75-125	6	25	mg/kg	10.01.2020 11:29	X
1,4-Dichlorobenzene	<0.000213	0.0496	0.0249	50	0.0223	45	75-125	11	25	mg/kg	10.01.2020 11:29	X
Dichlorodifluoromethane	<0.00111	0.0496	0.0557	112	0.0525	105	65-135	6	25	mg/kg	10.01.2020 11:29	
1,2-Dichloroethane	<0.000301	0.0496	0.0506	102	0.0450	90	68-127	12	25	mg/kg	10.01.2020 11:29	
1,1-Dichloroethane	<0.000373	0.0496	0.0591	119	0.0541	109	72-125	9	25	mg/kg	10.01.2020 11:29	
trans-1,2-dichloroethylene	<0.000430	0.0496	0.0549	111	0.0505	101	75-125	8	25	mg/kg	10.01.2020 11:29	
cis-1,2-Dichloroethylene	<0.000298	0.0496	0.0577	116	0.0520	104	75-125	10	25	mg/kg	10.01.2020 11:29	
1,1-Dichloroethene	<0.000275	0.0496	0.0564	114	0.0518	104	59-172	9	25	mg/kg	10.01.2020 11:29	
2,2-Dichloropropane	<0.000520	0.0496	0.0556	112	0.0508	102	75-125	9	25	mg/kg	10.01.2020 11:29	
1,3-Dichloropropane	<0.000406	0.0496	0.0502	101	0.0469	94	75-125	7	25	mg/kg	10.01.2020 11:29	
1,2-Dichloropropane	<0.000197	0.0496	0.0487	98	0.0421	85	74-125	15	25	mg/kg	10.01.2020 11:29	
trans-1,3-dichloropropene	<0.000902	0.0496	0.0546	110	0.0489	98	66-125	11	25	mg/kg	10.01.2020 11:29	
1,1-Dichloropropene	<0.000445	0.0496	0.0468	94	0.0444	89	75-125	5	25	mg/kg	10.01.2020 11:29	
cis-1,3-Dichloropropene	<0.000228	0.0496	0.0487	98	0.0405	81	74-125	18	25	mg/kg	10.01.2020 11:29	
Ethylbenzene	<0.000333	0.0496	0.0289	58	0.0278	56	75-125	4	25	mg/kg	10.01.2020 11:29	X
Hexachlorobutadiene	<0.00198	0.0496	0.00924	19	0.00768	15	75-125	18	25	mg/kg	10.01.2020 11:29	X
Isopropylbenzene	<0.000173	0.0496	0.0231	47	0.0227	46	75-125	2	25	mg/kg	10.01.2020 11:29	X
Methylene Chloride	<0.00419	0.0496	0.0682	138	0.0617	124	75-125	10	25	mg/kg	10.01.2020 11:29	X
MTBE	<0.000405	0.0496	0.0588	119	0.0552	111	60-140	6	25	mg/kg	10.01.2020 11:29	
Naphthalene	<0.00198	0.0496	0.0264	53	0.0162	33	70-130	48	25	mg/kg	10.01.2020 11:29	XF
n-Propylbenzene	<0.000284	0.0496	0.0311	63	0.0309	62	75-125	1	25	mg/kg	10.01.2020 11:29	X
Styrene	<0.000204	0.0496	0.0278	56	0.0255	51	75-125	9	25	mg/kg	10.01.2020 11:29	X
1,1,1,2-Tetrachloroethane	<0.000265	0.0496	0.0370	75	0.0332	67	72-125	11	25	mg/kg	10.01.2020 11:29	X
1,1,2,2-Tetrachloroethane	<0.000466	0.0496	0.0562	113	0.0499	100	74-125	12	25	mg/kg	10.01.2020 11:29	
Tetrachloroethylene	<0.000367	0.0496	0.0295	59	0.0309	62	71-125	5	25	mg/kg	10.01.2020 11:29	X
Toluene	<0.000992	0.0496	0.0400	81	0.0391	79	59-139	2	25	mg/kg	10.01.2020 11:29	
1,2,3-Trichlorobenzene	<0.00198	0.0496	0.0151	30	0.00966	19	75-137	44	25	mg/kg	10.01.2020 11:29	XF

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138770

Parent Sample Id: 673723-001

Matrix: Solid

MS Sample Id: 673723-001 S

Prep Method: SW5035A

Date Prep: 10.01.2020

MSD Sample Id: 673723-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00198	0.0496	0.0129	26	0.00926	19	75-135	33	25	mg/kg	10.01.2020 11:29	XF
1,1,2-Trichloroethane	<0.000389	0.0496	0.0511	103	0.0464	93	75-127	10	25	mg/kg	10.01.2020 11:29	
1,1,1-Trichloroethane	<0.000499	0.0496	0.0488	98	0.0461	93	75-125	6	25	mg/kg	10.01.2020 11:29	
Trichloroethylene	<0.000490	0.0496	0.0405	82	0.0365	73	62-137	10	25	mg/kg	10.01.2020 11:29	
Trichlorofluoromethane	<0.000305	0.0496	0.0518	104	0.0517	104	67-125	0	25	mg/kg	10.01.2020 11:29	
1,2,3-Trichloropropane	<0.000446	0.0496	0.0648	131	0.0598	120	75-125	8	25	mg/kg	10.01.2020 11:29	X
1,2,4-Trimethylbenzene	<0.000253	0.0496	0.0248	50	0.0236	47	75-125	5	25	mg/kg	10.01.2020 11:29	X
1,3,5-Trimethylbenzene	<0.000287	0.0496	0.0262	53	0.0262	53	70-130	0	25	mg/kg	10.01.2020 11:29	X
Vinyl Chloride	<0.000438	0.0496	0.0641	129	0.0602	121	60-140	6	25	mg/kg	10.01.2020 11:29	
o-Xylene	<0.000977	0.0496	0.0255	51	0.0238	48	75-125	7	25	mg/kg	10.01.2020 11:29	X
m,p-Xylenes	<0.000794	0.0992	0.0540	54	0.0523	53	75-125	3	25	mg/kg	10.01.2020 11:29	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	118		119		53-142	%	10.01.2020 11:29
1,2-Dichloroethane-D4	107		103		56-150	%	10.01.2020 11:29
Toluene-D8	105		110		70-130	%	10.01.2020 11:29
4-Bromofluorobenzene	132		133		68-152	%	10.01.2020 11:29

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138493

Parent Sample Id: 673378-015

Matrix: Water

MS Sample Id: 673378-015 S

Prep Method: SW5030B

Date Prep: 09.29.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0491	98	66-142	mg/L	09.29.2020 13:44	
Bromobenzene	<0.000300	0.0500	0.0491	98	75-125	mg/L	09.29.2020 13:44	
Bromochloromethane	<0.000209	0.0500	0.0494	99	60-140	mg/L	09.29.2020 13:44	
Bromodichloromethane	<0.000231	0.0500	0.0496	99	75-125	mg/L	09.29.2020 13:44	
Bromoform	<0.000630	0.0500	0.0510	102	75-125	mg/L	09.29.2020 13:44	
Methyl bromide	<0.001105	0.0500	0.0351	70	60-140	mg/L	09.29.2020 13:44	
2-Butanone	<0.00270	0.250	0.219	88	60-140	mg/L	09.29.2020 13:44	
n-Butylbenzene	<0.000286	0.0500	0.0510	102	75-125	mg/L	09.29.2020 13:44	
Sec-Butylbenzene	<0.000199	0.0500	0.0478	96	75-125	mg/L	09.29.2020 13:44	
tert-Butylbenzene	<0.000195	0.0500	0.0539	108	75-125	mg/L	09.29.2020 13:44	
Carbon Tetrachloride	0.215	0.0500	0.280	130	62-125	mg/L	09.29.2020 13:44	X
Chlorobenzene	<0.000159	0.0500	0.0489	98	60-133	mg/L	09.29.2020 13:44	
Chloroethane	<0.000433	0.0500	0.0454	91	60-140	mg/L	09.29.2020 13:44	
Chloroform	0.0168	0.0500	0.0679	102	70-130	mg/L	09.29.2020 13:44	
Methyl Chloride	<0.000318	0.0500	0.0582	116	60-140	mg/L	09.29.2020 13:44	
2-Chlorotoluene	<0.000214	0.0500	0.0496	99	73-125	mg/L	09.29.2020 13:44	
4-Chlorotoluene	<0.000183	0.0500	0.0497	99	74-125	mg/L	09.29.2020 13:44	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0522	104	75-125	mg/L	09.29.2020 13:44	
Dibromochloromethane	<0.000739	0.0500	0.0488	98	73-125	mg/L	09.29.2020 13:44	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0494	99	59-125	mg/L	09.29.2020 13:44	
1,2-Dibromoethane	<0.000337	0.0500	0.0495	99	73-125	mg/L	09.29.2020 13:44	
Methylene Bromide	<0.000130	0.0500	0.0492	98	69-127	mg/L	09.29.2020 13:44	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0476	95	75-125	mg/L	09.29.2020 13:44	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0472	94	75-125	mg/L	09.29.2020 13:44	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0478	96	75-125	mg/L	09.29.2020 13:44	
Dichlorodifluoromethane	<0.000316	0.0500	0.0572	114	60-140	mg/L	09.29.2020 13:44	
1,1-Dichloroethane	<0.000244	0.0500	0.0526	105	72-125	mg/L	09.29.2020 13:44	
1,2-Dichloroethane	<0.000285	0.0500	0.0488	98	68-127	mg/L	09.29.2020 13:44	
1,1-Dichloroethene	<0.000216	0.0500	0.0537	107	59-172	mg/L	09.29.2020 13:44	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0506	101	75-125	mg/L	09.29.2020 13:44	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0512	102	75-125	mg/L	09.29.2020 13:44	
1,2-Dichloropropane	<0.000396	0.0500	0.0513	103	74-125	mg/L	09.29.2020 13:44	
1,3-Dichloropropane	<0.000439	0.0500	0.0524	105	75-125	mg/L	09.29.2020 13:44	
2,2-Dichloropropane	<0.000360	0.0500	0.0537	107	75-125	mg/L	09.29.2020 13:44	
1,1-Dichloropropene	<0.000481	0.0500	0.0530	106	75-125	mg/L	09.29.2020 13:44	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0512	102	74-125	mg/L	09.29.2020 13:44	
trans-1,3-dichloropropene	<0.000752	0.0500	0.0490	98	66-125	mg/L	09.29.2020 13:44	
Ethylbenzene	<0.000146	0.0500	0.0503	101	75-125	mg/L	09.29.2020 13:44	
Hexachlorobutadiene	<0.00200	0.0500	0.0491	98	75-125	mg/L	09.29.2020 13:44	
Isopropylbenzene	<0.000161	0.0500	0.0507	101	75-125	mg/L	09.29.2020 13:44	
Methylene Chloride	<0.00191	0.0500	0.0461	92	75-125	mg/L	09.29.2020 13:44	
MTBE	<0.000571	0.0500	0.0471	94	65-135	mg/L	09.29.2020 13:44	
Naphthalene	<0.00200	0.0500	0.0486	97	70-130	mg/L	09.29.2020 13:44	
n-Propylbenzene	<0.000179	0.0500	0.0521	104	75-125	mg/L	09.29.2020 13:44	
Styrene	<0.000162	0.0500	0.0515	103	75-125	mg/L	09.29.2020 13:44	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0490	98	72-125	mg/L	09.29.2020 13:44	
1,1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0484	97	74-125	mg/L	09.29.2020 13:44	
Tetrachloroethylene	<0.000500	0.0500	0.0503	101	71-125	mg/L	09.29.2020 13:44	
Toluene	<0.000500	0.0500	0.0499	100	59-139	mg/L	09.29.2020 13:44	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0556	111	75-137	mg/L	09.29.2020 13:44	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138493

Parent Sample Id: 673378-015

Matrix: Water

MS Sample Id: 673378-015 S

Prep Method: SW5030B

Date Prep: 09.29.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0491	98	75-135	mg/L	09.29.2020 13:44	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0551	110	75-125	mg/L	09.29.2020 13:44	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0496	99	75-127	mg/L	09.29.2020 13:44	
Trichloroethylene	<0.000424	0.0500	0.0508	102	62-137	mg/L	09.29.2020 13:44	
Trichlorofluoromethane	<0.000245	0.0500	0.0561	112	60-140	mg/L	09.29.2020 13:44	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0508	102	75-125	mg/L	09.29.2020 13:44	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0522	104	75-125	mg/L	09.29.2020 13:44	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0521	104	70-125	mg/L	09.29.2020 13:44	
o-Xylene	<0.000192	0.0500	0.0527	105	75-125	mg/L	09.29.2020 13:44	
m,p-Xylenes	<0.000330	0.100	0.102	102	75-125	mg/L	09.29.2020 13:44	
Vinyl Chloride	<0.000234	0.0500	0.0564	113	60-140	mg/L	09.29.2020 13:44	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	99		75-131	%	09.29.2020 13:44
1,2-Dichloroethane-D4	104		63-144	%	09.29.2020 13:44
Toluene-D8	100		80-117	%	09.29.2020 13:44
4-Bromofluorobenzene	100		74-124	%	09.29.2020 13:44

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138623

Parent Sample Id: 673677-001

Matrix: Soil

MS Sample Id: 673677-001 S

Prep Method: SW5035A

Date Prep: 09.30.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000205	0.0496	0.0435	88	66-142	mg/kg	09.30.2020 11:14	
Bromobenzene	<0.000343	0.0496	0.0309	62	75-125	mg/kg	09.30.2020 11:14	X
Bromochloromethane	<0.000521	0.0496	0.0422	85	60-140	mg/kg	09.30.2020 11:14	
Bromodichloromethane	<0.000249	0.0496	0.0390	79	75-125	mg/kg	09.30.2020 11:14	
Bromoform	<0.00102	0.0496	0.0295	59	75-125	mg/kg	09.30.2020 11:14	X
Methyl bromide	<0.000935	0.0496	0.0736	148	60-140	mg/kg	09.30.2020 11:14	X
2-Butanone	0.238	0.248	0.199	78	75-125	mg/kg	09.30.2020 11:14	
tert-Butylbenzene	<0.00127	0.0496	0.0370	75	75-125	mg/kg	09.30.2020 11:14	
Sec-Butylbenzene	<0.000259	0.0496	0.0383	77	75-125	mg/kg	09.30.2020 11:14	
n-Butylbenzene	<0.000271	0.0496	0.0387	78	75-125	mg/kg	09.30.2020 11:14	
Carbon Tetrachloride	<0.00163	0.0496	0.0543	109	62-125	mg/kg	09.30.2020 11:14	
Chlorobenzene	<0.000235	0.0496	0.0367	74	60-133	mg/kg	09.30.2020 11:14	
Chloroethane	<0.000440	0.0496	0.0558	113	60-140	mg/kg	09.30.2020 11:14	
Chloroform	0.000255	0.0496	0.0463	93	74-125	mg/kg	09.30.2020 11:14	
Methyl Chloride	<0.000427	0.0496	0.0404	81	60-140	mg/kg	09.30.2020 11:14	
2-Chlorotoluene	<0.000339	0.0496	0.0331	67	73-125	mg/kg	09.30.2020 11:14	X
4-Chlorotoluene	<0.000261	0.0496	0.0330	67	74-125	mg/kg	09.30.2020 11:14	X
p-Cymene (p-Isopropyltoluene)	<0.000316	0.0496	0.0376	76	75-125	mg/kg	09.30.2020 11:14	
1,2-Dibromo-3-Chloropropane	<0.000698	0.0496	0.0295	59	59-125	mg/kg	09.30.2020 11:14	
Dibromochloromethane	<0.000887	0.0496	0.0322	65	73-125	mg/kg	09.30.2020 11:14	X
1,2-Dibromoethane	<0.00103	0.0496	0.0331	67	73-125	mg/kg	09.30.2020 11:14	X
Methylene Bromide	<0.000368	0.0496	0.0364	73	69-127	mg/kg	09.30.2020 11:14	
1,2-Dichlorobenzene	<0.000285	0.0496	0.0297	60	75-125	mg/kg	09.30.2020 11:14	X
1,3-Dichlorobenzene	<0.000270	0.0496	0.0305	61	75-125	mg/kg	09.30.2020 11:14	X
1,4-Dichlorobenzene	<0.000213	0.0496	0.0304	61	75-125	mg/kg	09.30.2020 11:14	X
Dichlorodifluoromethane	<0.00110	0.0496	0.0544	110	65-135	mg/kg	09.30.2020 11:14	
1,2-Dichloroethane	<0.000301	0.0496	0.0375	76	68-127	mg/kg	09.30.2020 11:14	
1,1-Dichloroethane	<0.000373	0.0496	0.0495	100	72-125	mg/kg	09.30.2020 11:14	
trans-1,2-dichloroethylene	<0.000430	0.0496	0.0491	99	75-125	mg/kg	09.30.2020 11:14	
cis-1,2-Dichloroethylene	<0.000298	0.0496	0.0473	95	75-125	mg/kg	09.30.2020 11:14	
1,1-Dichloroethene	<0.000275	0.0496	0.0537	108	59-172	mg/kg	09.30.2020 11:14	
2,2-Dichloropropane	<0.000520	0.0496	0.0497	100	75-125	mg/kg	09.30.2020 11:14	
1,3-Dichloropropane	<0.000405	0.0496	0.0344	69	75-125	mg/kg	09.30.2020 11:14	X
1,2-Dichloropropane	<0.000197	0.0496	0.0425	86	74-125	mg/kg	09.30.2020 11:14	
trans-1,3-dichloropropene	<0.000902	0.0496	0.0362	73	66-125	mg/kg	09.30.2020 11:14	
1,1-Dichloropropene	<0.000445	0.0496	0.0540	109	75-125	mg/kg	09.30.2020 11:14	
cis-1,3-Dichloropropene	<0.000228	0.0496	0.0412	83	74-125	mg/kg	09.30.2020 11:14	
Ethylbenzene	<0.000333	0.0496	0.0398	80	75-125	mg/kg	09.30.2020 11:14	
Hexachlorobutadiene	<0.00198	0.0496	0.0363	73	75-125	mg/kg	09.30.2020 11:14	X
Isopropylbenzene	<0.000172	0.0496	0.0407	82	75-125	mg/kg	09.30.2020 11:14	
Methylene Chloride	<0.00418	0.0496	0.0473	95	75-125	mg/kg	09.30.2020 11:14	
MTBE	<0.000405	0.0496	0.0417	84	60-140	mg/kg	09.30.2020 11:14	
Naphthalene	<0.00198	0.0496	0.0370	75	70-130	mg/kg	09.30.2020 11:14	
n-Propylbenzene	<0.000283	0.0496	0.0353	71	75-125	mg/kg	09.30.2020 11:14	X
Styrene	<0.000204	0.0496	0.0362	73	75-125	mg/kg	09.30.2020 11:14	X
1,1,1,2-Tetrachloroethane	<0.000265	0.0496	0.0363	73	72-125	mg/kg	09.30.2020 11:14	
1,1,1,2,2-Tetrachloroethane	<0.000465	0.0496	0.0300	60	74-125	mg/kg	09.30.2020 11:14	X
Tetrachloroethylene	<0.000366	0.0496	0.0402	81	71-125	mg/kg	09.30.2020 11:14	
Toluene	<0.000991	0.0496	0.0382	77	59-139	mg/kg	09.30.2020 11:14	
1,2,3-Trichlorobenzene	<0.00198	0.0496	0.0302	61	75-137	mg/kg	09.30.2020 11:14	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138623

Parent Sample Id: 673677-001

Matrix: Soil

MS Sample Id: 673677-001 S

Prep Method: SW5035A

Date Prep: 09.30.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00198	0.0496	0.0298	60	75-135	mg/kg	09.30.2020 11:14	X
1,1,2-Trichloroethane	<0.000389	0.0496	0.0335	68	75-127	mg/kg	09.30.2020 11:14	X
1,1,1-Trichloroethane	<0.000499	0.0496	0.0510	103	75-125	mg/kg	09.30.2020 11:14	
Trichloroethylene	<0.000490	0.0496	0.0438	88	62-137	mg/kg	09.30.2020 11:14	
Trichlorofluoromethane	<0.000305	0.0496	0.0556	112	67-125	mg/kg	09.30.2020 11:14	
1,2,3-Trichloropropane	<0.000446	0.0496	0.0315	64	75-125	mg/kg	09.30.2020 11:14	X
1,2,4-Trimethylbenzene	<0.000253	0.0496	0.0342	69	75-125	mg/kg	09.30.2020 11:14	X
1,3,5-Trimethylbenzene	<0.000286	0.0496	0.0354	71	70-130	mg/kg	09.30.2020 11:14	
Vinyl Chloride	<0.000437	0.0496	0.0587	118	60-140	mg/kg	09.30.2020 11:14	
o-Xylene	<0.000976	0.0496	0.0374	75	75-125	mg/kg	09.30.2020 11:14	
m,p-Xylenes	<0.000793	0.0991	0.0773	78	75-125	mg/kg	09.30.2020 11:14	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	117		53-142	%	09.30.2020 11:14
1,2-Dichloroethane-D4	112		56-150	%	09.30.2020 11:14
Toluene-D8	93		70-130	%	09.30.2020 11:14
4-Bromofluorobenzene	95		68-152	%	09.30.2020 11:14

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Attachment A Laboratory Data Package Cover Page

Project Name: **Yellow Cab Tract 2**

Laboratory Number: **673676**

This Data package consists of : Laboratory Batch No(s): **7712199, 7712332, 7712325, 3138392, 7712:**

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate Recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs) and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.
- Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies, observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC 25.6 and was last inspection by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Debbie Simmons
Name (Printed)


Signature

Project Manager
Official Title (printed)

10132020
Date

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data							
Laboratory Name:		EUROFINS XENCO, LLC	LRC Date :		10132020		
Project Name:		Yellow Cab Tract 2	Laboratory Job Number :		673676		
Reviewer Name:		DES	Batch Number(s) :		7712199, 7712332, 7712325, 3138392, 7712570, 7712364, 7712957, 7712358, 7712368, 3138286, 7712449, 7712289, 7712470, 3138492		
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (COC)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?	X				
		If required for the project, were TICs reported?			X		
R4	O	Surrogate Recovery Data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test Reports/Summary Forms for Blank Samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency ?	X				
		Were method blanks taken through the entire analytical procedure, including preparation and, if applicable, cleanup procedures ?	X				
		Were Blank Concentrations <MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within the QC limits?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within the laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs)					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data							
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10132020					
Project Name: Yellow Cab Tract 2		Laboratory Job Number : 673676					
Reviewer Name: DES		Batch Number(s) : 7712199, 7712332, 7712325, 3138392, 7712570, 7712364, 7712957, 7712358, 7712368, 3138286, 7712449, 7712289, 7712470, 3138492					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and the highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB <MDL?	X				
S3	O	Mass Spectral Tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standard (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestions Spikes, and Method of Standard Additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method Detection Limit (MDL) Studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)					
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted to the TCEQ-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report Identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Attachment A (cont'd): Laboratory Review Checklist: Exception Reports

Laboratory Name: EUROFINS XENCO, LLC		LRC Date: 10132020	
Project Name: Yellow Cab Tract 2		Laboratory Job Number: 673676	
Reviewer Name: DES		Batch Number(s) : 7712199, 7712332, 7712325, 3138392, 7712570, 7712364, 7712957, 7712358, 7712368, 3138286, 7712449, 7712289, 7712470, 3138492	
ER# ¹	DESCRIPTION		
1	<p>SW8260C Batch 3138623, Methyl bromide recovered above QC limits in the Blank Spike Duplicate. Analyte was not detected in any of the associated samples and therefore the data was accepted. 1,1-Dichloropropene, 2-Butanone, Carbon Tetrachloride recovered above QC limits in the Blank Spike Duplicate. Samples in the analytical batch are: 673676-001, -002, -003.</p> <p>SW8260C Batch 3138770, Methyl bromide recovered above QC limits in the Blank Spike and Duplicate. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples in the analytical batch are: 673676-004, -005.</p>		

¹ ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **Chromium, Hexavalent by SW 7196A** Matrix: **Water**
Prep Method: Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Chromium, Hexavalent	0.00239	0.0100	0.00500	0.00400	mg/L

Analytical Method: **Mercury by SW 7471A** Matrix: **Soil**
Prep Method: **SW7471P** Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Mercury	0.00384	0.0200	0.00200	0.00229	mg/kg

Analytical Method: **Mercury by SW-846 7470A** Matrix: **Water**
Prep Method: **SW7470P** Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Mercury	0.0000263	0.000200	0.000100	0.000110	mg/L

Analytical Method: **SPLP Metals per ICP by SW-846 6010B** Matrix: **Water**
Prep Method: **SW3010A** Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Arsenic	0.00336	0.0100	0.00400	0.00347	mg/L
Lead	0.00183	0.0100	0.00300	0.000279	mg/L

Analytical Method: **TPH by Texas1005** Matrix: **Soil**
Prep Method: **TX1005P** Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
C6-C12 Gasoline Range	21.1	50.0	25.0	25.0	mg/kg
>C12-C28 Diesel Range	21.1	50.0	25.0	21.0	mg/kg

Analytical Method: **TPH by Texas1005** Matrix: **Water**
Prep Method: **TX1005P** Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
C6-C12 Gasoline Range	0.885	5.00	0.250	0.220	mg/L
>C12-C28 Diesel Range	0.863	5.00	0.250	0.210	mg/L

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **Total RCRA Metals by SW6020A**

Matrix: **Soil**

Prep Method: **SW3051**

Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Arsenic	0.0617	0.400	0.400	0.284	mg/kg
Barium	0.0347	0.400	0.400	0.373	mg/kg
Cadmium	0.0116	0.200	0.200	0.155	mg/kg
Chromium	0.0271	0.400	0.400	0.380	mg/kg
Lead	0.0194	0.200	0.200	0.180	mg/kg
Selenium	0.0496	0.200	0.0500	0.0370	mg/kg
Silver	0.0159	0.200	0.200	0.167	mg/kg

Analytical Method: **Total RCRA Metals by SW6020A**

Matrix: **Water**

Prep Method: **SW3010A**

Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Arsenic	0.000246	0.00400	0.00200	0.00294	mg/L
Barium	0.000484	0.00400	0.00400	0.00401	mg/L
Cadmium	0.000147	0.00200	0.00100	0.00163	mg/L
Chromium	0.000525	0.00400	0.00200	0.00400	mg/L
Lead	0.000152	0.00200	0.00100	0.00190	mg/L
Selenium	0.000454	0.00200	0.00100	0.00237	mg/L
Silver	0.000251	0.00200	0.00100	0.00171	mg/L

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Soil**

Prep Method: **SW5035A**

Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Benzene	0.000207	0.00100	0.00100	0.00104	mg/kg
Bromobenzene	0.000346	0.00500	0.00100	0.00104	mg/kg
Bromochloromethane	0.000526	0.00500	0.00100	0.000960	mg/kg
Bromodichloromethane	0.000251	0.00500	0.00100	0.000830	mg/kg
Bromoform	0.00103	0.00500	0.00500	0.00473	mg/kg
Methyl bromide	0.000943	0.00500	0.00100	0.00107	mg/kg
2-Butanone	0.00365	0.0200	0.00500	0.00572	mg/kg
tert-Butylbenzene	0.00128	0.00500	0.00500	0.00533	mg/kg
Sec-Butylbenzene	0.000261	0.00500	0.00100	0.000880	mg/kg
n-Butylbenzene	0.000274	0.00500	0.00100	0.000860	mg/kg
Carbon Tetrachloride	0.00164	0.00500	0.00500	0.00402	mg/kg
Chlorobenzene	0.000237	0.00500	0.00100	0.00109	mg/kg
Chloroethane	0.000444	0.0100	0.00100	0.00111	mg/kg
Chloroform	0.000173	0.00500	0.00100	0.000970	mg/kg
Methyl Chloride	0.000431	0.00500	0.00100	0.00121	mg/kg
2-Chlorotoluene	0.000342	0.00500	0.00100	0.00108	mg/kg
4-Chlorotoluene	0.000264	0.00500	0.00100	0.00105	mg/kg
p-Cymene (p-Isopropyl	0.000319	0.00500	0.00100	0.000870	mg/kg
1,2-Dibromo-3-Chloro	0.000704	0.00500	0.00100	0.00110	mg/kg
Dibromochloromethane	0.000895	0.00500	0.00100	0.00299	mg/kg
1,2-Dibromoethane	0.00104	0.00500	0.00500	0.00455	mg/kg
Methylene Bromide	0.000371	0.00500	0.00100	0.00107	mg/kg
1,2-Dichlorobenzene	0.000288	0.00500	0.00100	0.00108	mg/kg
1,3-Dichlorobenzene	0.000273	0.00500	0.00100	0.00100	mg/kg
1,4-Dichlorobenzene	0.000214	0.00500	0.00100	0.00105	mg/kg
Dichlorodifluoromethan	0.00111	0.00500	0.00500	0.00418	mg/kg
1,2-Dichloroethane	0.000304	0.00500	0.00100	0.00101	mg/kg
1,1-Dichloroethane	0.000376	0.00500	0.00100	0.00108	mg/kg
trans-1,2-dichloroethyle	0.000434	0.00500	0.00100	0.000940	mg/kg
cis-1,2-Dichloroethylen	0.000301	0.00500	0.00100	0.000970	mg/kg
1,1-Dichloroethene	0.000277	0.00500	0.00100	0.00100	mg/kg
2,2-Dichloropropane	0.000524	0.00500	0.00100	0.000970	mg/kg
1,3-Dichloropropane	0.000409	0.00500	0.00100	0.000900	mg/kg
1,2-Dichloropropane	0.000198	0.00500	0.00100	0.000760	mg/kg
trans-1,3-dichloroprop	0.000909	0.00500	0.00100	0.00127	mg/kg
1,1-Dichloropropene	0.000448	0.00500	0.00100	0.00132	mg/kg
cis-1,3-Dichloropropen	0.000230	0.00500	0.00100	0.00124	mg/kg
Ethylbenzene	0.000336	0.00100	0.00100	0.00115	mg/kg
Hexachlorobutadiene	0.00200	0.00500	0.00100	0.00108	mg/kg
Isopropylbenzene	0.000174	0.00500	0.00100	0.00104	mg/kg
Methylene Chloride	0.00422	0.0200	0.00500	0.00572	mg/kg
MTBE	0.000409	0.00500	0.00100	0.00123	mg/kg
Naphthalene	0.00200	0.0100	0.00100	0.00104	mg/kg
n-Propylbenzene	0.000286	0.00500	0.00100	0.000940	mg/kg
Styrene	0.000205	0.00500	0.00100	0.000980	mg/kg
1,1,1,2-Tetrachloroethar	0.000267	0.00500	0.00100	0.000810	mg/kg
1,1,2,2-Tetrachloroethar	0.000470	0.00500	0.00100	0.000980	mg/kg
Tetrachloroethylene	0.000370	0.00500	0.00100	0.000950	mg/kg
Toluene	0.00100	0.00500	0.00100	0.00138	mg/kg
1,2,3-Trichlorobenzene	0.00200	0.00500	0.00500	0.00467	mg/kg
1,2,4-Trichlorobenzene	0.00200	0.00500	0.00100	0.000980	mg/kg

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Soil**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
1,1,2-Trichloroethane	0.000392	0.00500	0.00100	0.000880	mg/kg
1,1,1-Trichloroethane	0.000503	0.00500	0.00100	0.00135	mg/kg
Trichloroethylene	0.000494	0.00500	0.00100	0.000990	mg/kg
Trichlorofluoromethane	0.000307	0.00500	0.00100	0.00100	mg/kg
1,2,3-Trichloropropane	0.000450	0.00500	0.00100	0.00114	mg/kg
1,2,4-Trimethylbenzene	0.000255	0.00500	0.00100	0.000960	mg/kg
1,3,5-Trimethylbenzene	0.000289	0.00500	0.00100	0.000910	mg/kg
Vinyl Chloride	0.000441	0.00500	0.00100	0.00112	mg/kg
o-Xylene	0.000985	0.00100	0.00100	0.00118	mg/kg
m,p-Xylenes	0.000800	0.00200	0.00200	0.00226	mg/kg

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Water**

Prep Method: **SW5030B**

Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Benzene	0.000214	0.00100	0.000250	0.000370	mg/L
Bromobenzene	0.000300	0.00100	0.000250	0.000370	mg/L
Bromochloromethane	0.000209	0.00100	0.000500	0.000440	mg/L
Bromodichloromethane	0.000231	0.00100	0.000250	0.000460	mg/L
Bromoform	0.000630	0.00500	0.00100	0.00124	mg/L
Methyl bromide	0.00105	0.00500	0.000500	0.000570	mg/L
2-Butanone	0.00270	0.0500	0.00250	0.00375	mg/L
n-Butylbenzene	0.000286	0.00100	0.00200	0.00176	mg/L
Sec-Butylbenzene	0.000199	0.00100	0.000250	0.000230	mg/L
tert-Butylbenzene	0.000195	0.00100	0.000250	0.000210	mg/L
Carbon Tetrachloride	0.000423	0.00500	0.000250	0.000270	mg/L
Chlorobenzene	0.000159	0.00100	0.000250	0.000280	mg/L
Chloroethane	0.000433	0.0100	0.000500	0.000630	mg/L
Chloroform	0.000259	0.00100	0.000250	0.000600	mg/L
Methyl Chloride	0.000318	0.0100	0.000250	0.000450	mg/L
2-Chlorotoluene	0.000214	0.00100	0.000250	0.000210	mg/L
4-Chlorotoluene	0.000183	0.00100	0.000250	0.000260	mg/L
p-Cymene (p-Isopropyl)	0.000233	0.00100	0.000250	0.000150	mg/L
Dibromochloromethane	0.000739	0.00500	0.000250	0.000440	mg/L
1,2-Dibromo-3-Chloro	0.000319	0.00100	0.00100	0.000800	mg/L
1,2-Dibromoethane	0.000337	0.00500	0.000500	0.000450	mg/L
Methylene Bromide	0.000130	0.00100	0.000500	0.000460	mg/L
1,2-Dichlorobenzene	0.000236	0.00100	0.000250	0.000360	mg/L
1,3-Dichlorobenzene	0.000197	0.00100	0.000250	0.000370	mg/L
1,4-Dichlorobenzene	0.000199	0.00100	0.000250	0.000430	mg/L
Dichlorodifluoromethan	0.000316	0.00100	0.000250	0.000310	mg/L
1,1-Dichloroethane	0.000244	0.00100	0.000250	0.000300	mg/L
1,2-Dichloroethane	0.000285	0.00100	0.000250	0.000260	mg/L
1,1-Dichloroethene	0.000216	0.00100	0.000250	0.000280	mg/L
cis-1,2-Dichloroethylen	0.000174	0.00100	0.000250	0.000240	mg/L
trans-1,2-dichloroethyle	0.000256	0.00100	0.000250	0.000200	mg/L
1,2-Dichloropropane	0.000396	0.00500	0.000250	0.000270	mg/L
1,3-Dichloropropane	0.000439	0.00500	0.000250	0.000240	mg/L
2,2-Dichloropropane	0.000360	0.00500	0.000250	0.000170	mg/L
1,1-Dichloropropene	0.000481	0.00500	0.000250	0.000290	mg/L
cis-1,3-Dichloropropen	0.000690	0.00500	0.000500	0.000390	mg/L
trans-1,3-dichloroprope	0.000752	0.00500	0.000500	0.000420	mg/L
Ethylbenzene	0.000146	0.00100	0.000250	0.000260	mg/L
Hexachlorobutadiene	0.00200	0.00500	0.00200	0.00197	mg/L
Isopropylbenzene	0.000161	0.00100	0.000250	0.000240	mg/L
Methylene Chloride	0.00191	0.00500	0.00200	0.00206	mg/L
MTBE	0.000571	0.00500	0.000500	0.000750	mg/L
Naphthalene	0.00200	0.0100	0.00200	0.00145	mg/L
n-Propylbenzene	0.000179	0.00100	0.000250	0.000280	mg/L
Styrene	0.000162	0.00100	0.000250	0.000290	mg/L
1,1,1,2-Tetrachloroethar	0.000327	0.00100	0.000500	0.000540	mg/L
1,1,2,2-Tetrachloroethar	0.000284	0.00100	0.000500	0.000460	mg/L
Tetrachloroethylene	0.000500	0.00100	0.000500	0.000500	mg/L
Toluene	0.000500	0.00100	0.000500	0.000480	mg/L
1,2,3-Trichlorobenzene	0.00200	0.00500	0.00200	0.00174	mg/L
1,2,4-Trichlorobenzene	0.00200	0.00500	0.00200	0.00189	mg/L

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Water**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
1,1,1-Trichloroethane	0.000504	0.00500	0.000250	0.000200	mg/L
1,1,2-Trichloroethane	0.000228	0.00100	0.000500	0.000460	mg/L
Trichloroethylene	0.000424	0.00500	0.000250	0.000210	mg/L
Trichlorofluoromethane	0.000245	0.00100	0.000250	0.000360	mg/L
1,2,3-Trichloropropane	0.000283	0.00100	0.000250	0.000270	mg/L
1,2,4-Trimethylbenzene	0.000252	0.00100	0.000250	0.000280	mg/L
1,3,5-Trimethylbenzene	0.000279	0.00100	0.000250	0.000210	mg/L
o-Xylene	0.000192	0.00100	0.000500	0.000430	mg/L
m,p-Xylenes	0.000330	0.0100	0.00100	0.000900	mg/L
Vinyl Chloride	0.000234	0.00200	0.000250	0.000240	mg/L

Work Order No: 673676
 www.xenco.com Page 1 of 2

Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000



Project Manager: John Lembrake
 Company Name: ESE Partners
 Address: 2902 West Grand Parkway N, Suite 140
 City, State ZIP: Katy, TX 77449
 Phone: 281-921-6100

Bill to: (if different)
 Company Name: SAE
 Address: John@esepartners.com
 City, State ZIP: Colton@esepartners.com

Program: PRP Brownfields RRC Superfund
 State of Project: Level II Level III PST/UST TRRP Level IV
 Reporting: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Project Name: Yellow Cab Tract 2
 Project Number: 20-0506
 P.O. Number:
 Sampler's Name: Colton Beall

Turn Around
 Routine
 Rush:
 Due Date: 10/1/2020

Temp Blank: Yes No
 Temp: 4.1 IR ID: HOU-203
 C/R: +0.1
 Corrected Temp: 4.2

Received Intact: Yes No
 Cooler Custody Seals: Yes No N/A
 Sample Custody Seals: Yes No N/A

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (1005)	VOC (B160)	PRA & Metals	PAH	PH	TPH (1006)	Work Order Notes
T-2 TMM-01 (2-4)	S	9-25-2020	0905 hr	2-4'	6							
T-2 TMM-02 (2-4)			0812 hr									
T-2 TMM-03 (2-4)			1126 hr									
T-2 TMM-04 (2-4)			0957 hr									
T-2 TMM-05 (B-10)			1047 hr	8-10'								
T-2 TMM-01 (23-25)			0915 hr	23-25'								
T-2 TMM-02 (23-25)			0800 hr									
T-2 TMM-03 (23-25)			1131 hr									
T-2 TMM-04 (23-25)			1005 hr									
T-2 TMM-05 (23-25)			1053 hr									

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time
<u>[Signature]</u>	<u>9-25-2020</u>	<u>[Signature]</u>	<u>9-25-2020</u>
<u>[Signature]</u>		<u>[Signature]</u>	
<u>[Signature]</u>		<u>[Signature]</u>	



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: **073676**
 www.xenco.com Page **073676** of **2**

Project Manager: *[Signature]*
 Company Name: **ESE Partners**
 Address:
 City, State ZIP:
 Phone:
 Bill to: (if different)
 Company Name:
 Address:
 City, State ZIP:
 Email:

Project Name: **Yellow Cab Tract 2**
 Project Number: **20-0506**
 P.O. Number:
 Sampler's Name: **Colton Ball**
 Turn Around
 Routine
 Rush:
 Due Date: **10-1-2020**

SAMPLE RECEIPT
 Temperature (°C):
 Received Intact:
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Temp Blank: Yes No
 Wet Ice: Yes No
 Thermometer ID: **4.1 IR ID: HOU-203**
 Temp: **4.1** C/F: **+0.1**
 Corrected Temp: **4.2**

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Analysis Request	Work Order Notes
T-2 TAW-01	GW	9-25-2020	0920 hr	-	10	TRH (1005) VOC (8260) RCA & Metals PH TPH (1006) (Arme) Hexavalent Chrome	H=Hold TAT starts the day received by the lab, if received by 4:30pm
T-2 TAW-02	I	I	0830 hr	-	1		
T-2 TAW-03	I	I	1139 hr	-	8		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	9-25-2020	<i>[Signature]</i>	<i>[Signature]</i>	9-25-20 (11)
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	

Inter-Office Shipment

IOS Number : 71596

Date/Time: 10.08.2020

Created by: Debbie Simmons

Please send report to: Debbie Simmons

Lab# From: **Houston**

Delivery Priority:

Address: 4147 Greenbriar Dr.

Lab# To: **Dallas**

Air Bill No.:

E-Mail: debbie.simmons@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
673676-002	S	T-2 TMW-02 (2-4)	09.25.2020 08:12	TX1006AL	TPH Speciation by Texas 1006 - Alipha	10.14.2020	10.12.2020 08:12	DES	CLC8N PHCC12C16AL I	
673676-002	S	T-2 TMW-02 (2-4)	09.25.2020 08:12	TX1006AR	TPH Speciation by Texas 1006 - Aroma	10.14.2020	10.12.2020 08:12	DES	CLC8N HYDAROM HYI	
673676-012	W	T-2 TMW-02	09.25.2020 08:30	TX1006AL	TPH Speciation by Texas 1006 - Alipha	10.14.2020	10.13.2020 08:12	DES	CLC8N PHCC12C16AL I	
673676-012	W	T-2 TMW-02	09.25.2020 08:30	TX1006AR	TPH Speciation by Texas 1006 - Aroma	10.14.2020	10.13.2020 08:12	DES	CLC8N HYDAROM HYI	

Inter Office Shipment or Sample Comments:

1005 extracted 9/28 for soil 673676-002 and 9/29 for 673676-012 water

Relinquished By: *Debbie Simmons*
 Debbie Simmons

Date Relinquished: 10.08.2020

Received By: _____

Date Received: _____

Cooler Temperature: _____

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: ESE Partners

Date/ Time Received: 09.25.2020 06.15.00 PM

Work Order #: 673676

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-203

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	Yes

TRIP BLANK

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: JHYROM

PH Device/Lot#: 10BDH0601

Checklist completed by:  Date: 09.26.2020
 Jhyrom Edralin

Checklist reviewed by:  Date: 09.28.2020
 Debbie Simmons

Analytical Report 673823

for

ESE Partners

Project Manager: John Lembcke

Yellow Cab Tract 2

20-0506

10.15.2020

Collected By: Client



**4147 Greenbriar Dr.
Stafford, TX 77477**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.15.2020

Project Manager: **John Lembcke**

ESE Partners

2002 West Grand Parkway North, Suite 140
Katy, TX 77449

Reference: Eurofins Xenco, LLC Report No(s): **673823**

Yellow Cab Tract 2

Project Address:

John Lembcke:

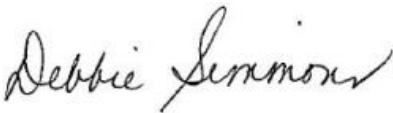
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673823. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673823 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Debbie Simmons

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 673823

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T2 TMW-06 (2-4)	S	09.28.2020 09:00	2 - 4 ft	673823-001
T2 TMW-07 (2-4)	S	09.28.2020 12:40	2 - 4 ft	673823-002
T2 TMW-08 (8-10)	S	09.28.2020 10:40	8 - 10 ft	673823-003
T2 TMW-09 (2-4)	S	09.28.2020 14:49	2 - 4 ft	673823-004
T2 TMW-10 (2-4)	S	09.28.2020 13:50	2 - 4 ft	673823-005
T2 TMW-04 (12-14)	S	09.28.2020 08:10	12 - 14 ft	673823-006
T2 TMW-05 (2-4)	S	09.28.2020 09:42	2 - 4 ft	673823-007
T2 TMW-04	W	09.28.2020 08:30		673823-015
T2 TMW-05	W	09.28.2020 10:00		673823-016
T2 TMW-06	W	09.28.2020 09:12		673823-017
T2 TMW-07	W	09.28.2020 13:00		673823-018
T2 TMW-08	W	09.28.2020 11:00		673823-019
T2 TMW-09	W	09.28.2020 15:40		673823-020
T2 TMW-10	W	09.28.2020 14:10		673823-021
T2 TMW-06 (22-24)	S	09.28.2020 09:05	22 - 24 ft	Not Analyzed
T2 TMW-07 (22-24)	S	09.28.2020 12:43	22 - 24 ft	Not Analyzed
T2 TMW-08 (22-24)	S	09.28.2020 10:49	22 - 24 ft	Not Analyzed
T2 TMW-09 (22-24)	S	09.28.2020 15:27	22 - 24 ft	Not Analyzed
T2 TMW-10 (22-24)	S	09.28.2020 13:54	22 - 24 ft	Not Analyzed
T2 TMW-04 (22-24)	S	09.28.2020 08:15	22 - 24 ft	Not Analyzed
T2 TMW-05 (22-24)	S	09.28.2020 09:49	22 - 24 ft	Not Analyzed
Trip Blank	W	09.28.2020 00:00		Not Analyzed

CASE NARRATIVE SUMMARY

Client Name: *ESE Partners*

Project Name: *Yellow Cab Tract 2*

Project ID: 20-0506

Report Date: 10.15.2020


Work Order Number: 673823

Date Received: 09.29.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

10.06.20: per John Lembcke, run PAH on T2 TMW-04 (673823-015) and PAH on soil sample T2 TMW-05 (2-4) (673823-007). TMW-04 was extracted 10.05.20.

10.08.20: per John Lembcke, run TX1006 on 673823-003 and 007 for 1006 and 673823-006 for PAH



Debbie Simmons
Project Manager

Certificate of Analytical Results

673823

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-06 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-001	Date Collected: 09.28.2020 09:00	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist: 17.42	
Seq Number: 3138838	Date Prep: 10.05.2020 09:00	Tech: ANJ
	Prep seq: 7712602	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0258	0.0220	0.00423	mg/kg	10.05.2020 11:54		1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 17.42	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	1.23	4.48	0.692	mg/kg	10.02.2020 13:26	J	10
Barium	7440-39-3	23.1	4.48	0.389	mg/kg	10.02.2020 13:26		10
Cadmium	7440-43-9	<0.130	2.24	0.130	mg/kg	10.02.2020 13:26	U	10
Chromium	7440-47-3	9.75	4.48	0.304	mg/kg	10.02.2020 13:26		10
Lead	7439-92-1	10.2	2.24	0.217	mg/kg	10.02.2020 13:26		10
Selenium	7782-49-2	<0.556	2.24	0.556	mg/kg	10.02.2020 13:26	U	10
Silver	7440-22-4	<0.178	2.24	0.178	mg/kg	10.02.2020 13:26	U	10

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 17.42	
Seq Number: 3138856	Date Prep: 10.02.2020 11:19	Tech: ISU
	Prep seq: 7712499	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<23.3	55.3	23.3	mg/kg	10.05.2020 10:51	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	256	55.3	23.3	mg/kg	10.05.2020 10:51		1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	83.7	55.3	23.3	mg/kg	10.05.2020 10:51		1
Total TPH	PHC635	340		23.3	mg/kg	10.05.2020 10:51		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	109	70 - 130	%		
1-Chlorooctane	115	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-06 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-001	Date Collected: 09.28.2020 09:00	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 17.42	
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	Tech: SAD
	Prep seq: 7712582	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000194	0.000939	0.000194	mg/kg	10.02.2020 15:51	U	1
Bromobenzene	108-86-1	<0.000325	0.00469	0.000325	mg/kg	10.02.2020 15:51	U	1
Bromochloromethane	74-97-5	<0.000493	0.00469	0.000493	mg/kg	10.02.2020 15:51	U	1
Bromodichloromethane	75-27-4	<0.000236	0.00469	0.000236	mg/kg	10.02.2020 15:51	U	1
Bromoform	75-25-2	<0.000970	0.00469	0.000970	mg/kg	10.02.2020 15:51	U	1
Methyl bromide	74-83-9	<0.000885	0.00469	0.000885	mg/kg	10.02.2020 15:51	UH	1
2-Butanone	78-93-3	<0.00342	0.0188	0.00342	mg/kg	10.02.2020 15:51	UH	1
tert-Butylbenzene	98-06-6	<0.00120	0.00469	0.00120	mg/kg	10.02.2020 15:51	U	1
Sec-Butylbenzene	135-98-8	<0.000245	0.00469	0.000245	mg/kg	10.02.2020 15:51	U	1
n-Butylbenzene	104-51-8	<0.000257	0.00469	0.000257	mg/kg	10.02.2020 15:51	U	1
Carbon Tetrachloride	56-23-5	<0.00154	0.00469	0.00154	mg/kg	10.02.2020 15:51	U	1
Chlorobenzene	108-90-7	<0.000222	0.00469	0.000222	mg/kg	10.02.2020 15:51	U	1
Chloroethane	75-00-3	<0.000417	0.00939	0.000417	mg/kg	10.02.2020 15:51	U	1
Chloroform	67-66-3	<0.000162	0.00469	0.000162	mg/kg	10.02.2020 15:51	U	1
Methyl Chloride	74-87-3	<0.000404	0.00469	0.000404	mg/kg	10.02.2020 15:51	U	1
2-Chlorotoluene	95-49-8	<0.000321	0.00469	0.000321	mg/kg	10.02.2020 15:51	U	1
4-Chlorotoluene	106-43-4	<0.000247	0.00469	0.000247	mg/kg	10.02.2020 15:51	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000299	0.00469	0.000299	mg/kg	10.02.2020 15:51	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000661	0.00469	0.000661	mg/kg	10.02.2020 15:51	U	1
Dibromochloromethane	124-48-1	<0.000840	0.00469	0.000840	mg/kg	10.02.2020 15:51	U	1
1,2-Dibromoethane	106-93-4	<0.000980	0.00469	0.000980	mg/kg	10.02.2020 15:51	U	1
Methylene Bromide	74-95-3	<0.000348	0.00469	0.000348	mg/kg	10.02.2020 15:51	U	1
1,2-Dichlorobenzene	95-50-1	<0.000270	0.00469	0.000270	mg/kg	10.02.2020 15:51	U	1
1,3-Dichlorobenzene	541-73-1	<0.000256	0.00469	0.000256	mg/kg	10.02.2020 15:51	U	1
1,4-Dichlorobenzene	106-46-7	<0.000201	0.00469	0.000201	mg/kg	10.02.2020 15:51	U	1
Dichlorodifluoromethane	75-71-8	<0.00105	0.00469	0.00105	mg/kg	10.02.2020 15:51	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00469	0.000285	mg/kg	10.02.2020 15:51	U	1
1,1-Dichloroethane	75-34-3	<0.000353	0.00469	0.000353	mg/kg	10.02.2020 15:51	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000407	0.00469	0.000407	mg/kg	10.02.2020 15:51	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000282	0.00469	0.000282	mg/kg	10.02.2020 15:51	U	1
1,1-Dichloroethene	75-35-4	<0.000260	0.00469	0.000260	mg/kg	10.02.2020 15:51	U	1
2,2-Dichloropropane	594-20-7	<0.000492	0.00469	0.000492	mg/kg	10.02.2020 15:51	U	1
1,3-Dichloropropane	142-28-9	<0.000384	0.00469	0.000384	mg/kg	10.02.2020 15:51	U	1
1,2-Dichloropropane	78-87-5	<0.000186	0.00469	0.000186	mg/kg	10.02.2020 15:51	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000854	0.00469	0.000854	mg/kg	10.02.2020 15:51	U	1
1,1-Dichloropropene	563-58-6	<0.000421	0.00469	0.000421	mg/kg	10.02.2020 15:51	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000215	0.00469	0.000215	mg/kg	10.02.2020 15:51	U	1
Ethylbenzene	100-41-4	<0.000315	0.000939	0.000315	mg/kg	10.02.2020 15:51	U	1
Hexachlorobutadiene	87-68-3	<0.00188	0.00469	0.00188	mg/kg	10.02.2020 15:51	U	1
Isopropylbenzene	98-82-8	<0.000163	0.00469	0.000163	mg/kg	10.02.2020 15:51	U	1
Methylene Chloride	75-09-2	<0.00396	0.0188	0.00396	mg/kg	10.02.2020 15:51	U	1
MTBE	1634-04-4	<0.000384	0.00469	0.000384	mg/kg	10.02.2020 15:51	U	1
Naphthalene	91-20-3	<0.00188	0.00939	0.00188	mg/kg	10.02.2020 15:51	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-06 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-001	Date Collected: 09.28.2020 09:00	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 17.42	Tech: SAD
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	

Parameter	CAS Number	Prep seq: 7712582 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000268 0.00469	0.000268	mg/kg	10.02.2020 15:51	U	1
Styrene	100-42-5	<0.000193 0.00469	0.000193	mg/kg	10.02.2020 15:51	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000251 0.00469	0.000251	mg/kg	10.02.2020 15:51	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000441 0.00469	0.000441	mg/kg	10.02.2020 15:51	U	1
Tetrachloroethylene	127-18-4	<0.000347 0.00469	0.000347	mg/kg	10.02.2020 15:51	U	1
Toluene	108-88-3	<0.000939 0.00469	0.000939	mg/kg	10.02.2020 15:51	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00188 0.00469	0.00188	mg/kg	10.02.2020 15:51	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00188 0.00469	0.00188	mg/kg	10.02.2020 15:51	U	1
1,1,2-Trichloroethane	79-00-5	<0.000368 0.00469	0.000368	mg/kg	10.02.2020 15:51	U	1
1,1,1-Trichloroethane	71-55-6	<0.000472 0.00469	0.000472	mg/kg	10.02.2020 15:51	U	1
Trichloroethylene	79-01-6	<0.000464 0.00469	0.000464	mg/kg	10.02.2020 15:51	U	1
Trichlorofluoromethane	75-69-4	<0.000289 0.00469	0.000289	mg/kg	10.02.2020 15:51	U	1
1,2,3-Trichloropropane	96-18-4	<0.000422 0.00469	0.000422	mg/kg	10.02.2020 15:51	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000239 0.00469	0.000239	mg/kg	10.02.2020 15:51	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000271 0.00469	0.000271	mg/kg	10.02.2020 15:51	U	1
Vinyl Chloride	75-01-4	<0.000414 0.00469	0.000414	mg/kg	10.02.2020 15:51	U	1
o-Xylene	95-47-6	<0.000925 0.000939	0.000925	mg/kg	10.02.2020 15:51	U	1
m,p-Xylenes	179601-23-1	<0.000751 0.00188	0.000751	mg/kg	10.02.2020 15:51	U	1
Total Xylenes	1330-20-7	<0.000751	0.000751	mg/kg	10.02.2020 15:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	115	53 - 142	%		
1,2-Dichloroethane-D4	108	56 - 150	%		
Toluene-D8	92	70 - 130	%		
4-Bromofluorobenzene	99	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-07 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-002	Date Collected: 09.28.2020 12:40	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist: 10.79	
Seq Number: 3138838	Date Prep: 10.05.2020 09:00	Tech: ANJ
	Prep seq: 7712602	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0153	0.0187	0.00359	mg/kg	10.05.2020 11:56	J	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 10.79	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	2.00	4.31	0.665	mg/kg	10.02.2020 14:06	J	10
Barium	7440-39-3	38.7	4.31	0.374	mg/kg	10.02.2020 14:06		10
Cadmium	7440-43-9	<0.125	2.16	0.125	mg/kg	10.02.2020 14:06	U	10
Chromium	7440-47-3	9.05	4.31	0.292	mg/kg	10.02.2020 14:06		10
Lead	7439-92-1	7.77	2.16	0.209	mg/kg	10.02.2020 14:06		10
Selenium	7782-49-2	0.840	2.16	0.535	mg/kg	10.02.2020 14:06	J	10
Silver	7440-22-4	<0.171	2.16	0.171	mg/kg	10.02.2020 14:06	U	10

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 10.79	
Seq Number: 3138856	Date Prep: 10.02.2020 11:22	Tech: ISU
	Prep seq: 7712499	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<19.1	45.2	19.1	mg/kg	10.05.2020 12:13	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<19.1	45.2	19.1	mg/kg	10.05.2020 12:13	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<19.1	45.2	19.1	mg/kg	10.05.2020 12:13	U	1
Total TPH	PHC635	<19.1		19.1	mg/kg	10.05.2020 12:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	103	70 - 130	%		
1-Chlorooctane	109	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-07 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-002	Date Collected: 09.28.2020 12:40	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 10.79	
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	Tech: SAD
	Prep seq: 7712582	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000189	0.000911	0.000189	mg/kg	10.02.2020 19:23	U	1
Bromobenzene	108-86-1	<0.000316	0.00456	0.000316	mg/kg	10.02.2020 19:23	U	1
Bromochloromethane	74-97-5	<0.000479	0.00456	0.000479	mg/kg	10.02.2020 19:23	U	1
Bromodichloromethane	75-27-4	<0.000229	0.00456	0.000229	mg/kg	10.02.2020 19:23	U	1
Bromoform	75-25-2	<0.000941	0.00456	0.000941	mg/kg	10.02.2020 19:23	U	1
Methyl bromide	74-83-9	<0.000860	0.00456	0.000860	mg/kg	10.02.2020 19:23	UH	1
2-Butanone	78-93-3	<0.00319	0.0175	0.00319	mg/kg	10.06.2020 02:46	U	1
tert-Butylbenzene	98-06-6	<0.00117	0.00456	0.00117	mg/kg	10.02.2020 19:23	U	1
Sec-Butylbenzene	135-98-8	<0.000238	0.00456	0.000238	mg/kg	10.02.2020 19:23	U	1
n-Butylbenzene	104-51-8	<0.000249	0.00456	0.000249	mg/kg	10.02.2020 19:23	U	1
Carbon Tetrachloride	56-23-5	<0.00150	0.00456	0.00150	mg/kg	10.02.2020 19:23	U	1
Chlorobenzene	108-90-7	<0.000216	0.00456	0.000216	mg/kg	10.02.2020 19:23	U	1
Chloroethane	75-00-3	<0.000405	0.00911	0.000405	mg/kg	10.02.2020 19:23	U	1
Chloroform	67-66-3	<0.000157	0.00456	0.000157	mg/kg	10.02.2020 19:23	U	1
Methyl Chloride	74-87-3	<0.000392	0.00456	0.000392	mg/kg	10.02.2020 19:23	U	1
2-Chlorotoluene	95-49-8	<0.000311	0.00456	0.000311	mg/kg	10.02.2020 19:23	U	1
4-Chlorotoluene	106-43-4	<0.000240	0.00456	0.000240	mg/kg	10.02.2020 19:23	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000290	0.00456	0.000290	mg/kg	10.02.2020 19:23	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000642	0.00456	0.000642	mg/kg	10.02.2020 19:23	U	1
Dibromochloromethane	124-48-1	<0.000815	0.00456	0.000815	mg/kg	10.02.2020 19:23	U	1
1,2-Dibromoethane	106-93-4	<0.000951	0.00456	0.000951	mg/kg	10.02.2020 19:23	U	1
Methylene Bromide	74-95-3	<0.000338	0.00456	0.000338	mg/kg	10.02.2020 19:23	U	1
1,2-Dichlorobenzene	95-50-1	<0.000262	0.00456	0.000262	mg/kg	10.02.2020 19:23	U	1
1,3-Dichlorobenzene	541-73-1	<0.000248	0.00456	0.000248	mg/kg	10.02.2020 19:23	U	1
1,4-Dichlorobenzene	106-46-7	<0.000195	0.00456	0.000195	mg/kg	10.02.2020 19:23	U	1
Dichlorodifluoromethane	75-71-8	<0.00102	0.00456	0.00102	mg/kg	10.02.2020 19:23	U	1
1,2-Dichloroethane	107-06-2	<0.000277	0.00456	0.000277	mg/kg	10.02.2020 19:23	U	1
1,1-Dichloroethane	75-34-3	<0.000343	0.00456	0.000343	mg/kg	10.02.2020 19:23	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000395	0.00456	0.000395	mg/kg	10.02.2020 19:23	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000274	0.00456	0.000274	mg/kg	10.02.2020 19:23	U	1
1,1-Dichloroethene	75-35-4	<0.000252	0.00456	0.000252	mg/kg	10.02.2020 19:23	U	1
2,2-Dichloropropane	594-20-7	<0.000478	0.00456	0.000478	mg/kg	10.02.2020 19:23	U	1
1,3-Dichloropropane	142-28-9	<0.000373	0.00456	0.000373	mg/kg	10.02.2020 19:23	U	1
1,2-Dichloropropane	78-87-5	<0.000181	0.00456	0.000181	mg/kg	10.02.2020 19:23	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000829	0.00456	0.000829	mg/kg	10.02.2020 19:23	U	1
1,1-Dichloropropene	563-58-6	<0.000409	0.00456	0.000409	mg/kg	10.02.2020 19:23	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000209	0.00456	0.000209	mg/kg	10.02.2020 19:23	U	1
Ethylbenzene	100-41-4	<0.000306	0.000911	0.000306	mg/kg	10.02.2020 19:23	U	1
Hexachlorobutadiene	87-68-3	<0.00182	0.00456	0.00182	mg/kg	10.02.2020 19:23	U	1
Isopropylbenzene	98-82-8	<0.000158	0.00456	0.000158	mg/kg	10.02.2020 19:23	U	1
Methylene Chloride	75-09-2	<0.00384	0.0182	0.00384	mg/kg	10.02.2020 19:23	U	1
MTBE	1634-04-4	<0.000372	0.00456	0.000372	mg/kg	10.02.2020 19:23	U	1
Naphthalene	91-20-3	<0.00182	0.00911	0.00182	mg/kg	10.02.2020 19:23	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-07 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-002	Date Collected: 09.28.2020 12:40	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 10.79	Tech: SAD
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	

Parameter	CAS Number	Prep seq: 7712582 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000261	0.00456	0.000261	mg/kg	10.02.2020 19:23	U	1
Styrene	100-42-5	<0.000187	0.00456	0.000187	mg/kg	10.02.2020 19:23	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000243	0.00456	0.000243	mg/kg	10.02.2020 19:23	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000428	0.00456	0.000428	mg/kg	10.02.2020 19:23	U	1
Tetrachloroethylene	127-18-4	<0.000337	0.00456	0.000337	mg/kg	10.02.2020 19:23	U	1
Toluene	108-88-3	<0.000911	0.00456	0.000911	mg/kg	10.02.2020 19:23	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00182	0.00456	0.00182	mg/kg	10.02.2020 19:23	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00182	0.00456	0.00182	mg/kg	10.02.2020 19:23	U	1
1,1,2-Trichloroethane	79-00-5	<0.000357	0.00456	0.000357	mg/kg	10.02.2020 19:23	U	1
1,1,1-Trichloroethane	71-55-6	<0.000458	0.00456	0.000458	mg/kg	10.02.2020 19:23	U	1
Trichloroethylene	79-01-6	<0.000450	0.00456	0.000450	mg/kg	10.02.2020 19:23	U	1
Trichlorofluoromethane	75-69-4	<0.000280	0.00456	0.000280	mg/kg	10.02.2020 19:23	U	1
1,2,3-Trichloropropane	96-18-4	<0.000410	0.00456	0.000410	mg/kg	10.02.2020 19:23	U	1
1,2,4-Trimethylbenzene	95-63-6	0.000930	0.00456	0.000232	mg/kg	10.02.2020 19:23	J	1
1,3,5-Trimethylbenzene	108-67-8	0.000419	0.00456	0.000263	mg/kg	10.02.2020 19:23	J	1
Vinyl Chloride	75-01-4	<0.000402	0.00456	0.000402	mg/kg	10.02.2020 19:23	U	1
o-Xylene	95-47-6	<0.000898	0.000911	0.000898	mg/kg	10.02.2020 19:23	U	1
m,p-Xylenes	179601-23-1	0.000756	0.00182	0.000729	mg/kg	10.02.2020 19:23	J	1
Total Xylenes	1330-20-7	0.000756		0.000729	mg/kg	10.02.2020 19:23	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	112	53 - 142	%		
1,2-Dichloroethane-D4	103	56 - 150	%		
Toluene-D8	92	70 - 130	%		
4-Bromofluorobenzene	101	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-08 (8-10)	Matrix: Soil	Sample Depth: 8 - 10 ft
Lab Sample Id: 673823-003	Date Collected: 09.28.2020 10:40	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist: 10.85	
Seq Number: 3138838	Date Prep: 10.05.2020 09:00	Tech: ANJ
	Prep seq: 7712602	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.00423	0.0220	0.00423	mg/kg	10.05.2020 11:59	U	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 10.85	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	1.28	4.08	0.629	mg/kg	10.02.2020 14:09	J	10
Barium	7440-39-3	200	4.08	0.354	mg/kg	10.02.2020 14:09		10
Cadmium	7440-43-9	0.282	2.04	0.118	mg/kg	10.02.2020 14:09	J	10
Chromium	7440-47-3	5.76	4.08	0.277	mg/kg	10.02.2020 14:09		10
Lead	7439-92-1	2.69	2.04	0.197	mg/kg	10.02.2020 14:09		10
Selenium	7782-49-2	<0.506	2.04	0.506	mg/kg	10.02.2020 14:09	U	10
Silver	7440-22-4	<0.162	2.04	0.162	mg/kg	10.02.2020 14:09	U	10

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 10.85	
Seq Number: 3138856	Date Prep: 10.02.2020 11:25	Tech: ISU
	Prep seq: 7712499	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	346	51.8	21.9	mg/kg	10.05.2020 12:33		1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	30.3	51.8	21.9	mg/kg	10.05.2020 12:33	J	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<21.9	51.8	21.9	mg/kg	10.05.2020 12:33	U	1
Total TPH	PHC635	376		21.9	mg/kg	10.05.2020 12:33		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	102	70 - 130	%		
1-Chlorooctane	122	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T2 TMW-08 (8-10)** Matrix: Soil Sample Depth: 8 - 10 ft
 Lab Sample Id: 673823-003 Date Collected: 09.28.2020 10:40 Date Received: 09.29.2020 10:30
 Analytical Method: TPH Speciation by Texas 1006 - Aliphatics Prep Method: 1005
 Analyst: TPH % Moist: 10.85
 Seq Number: 3139673 Date Prep: 10.02.2020 10:20 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7713112

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6 Aliphatic Hydrocarbons	ALHYDRC6	<7.57	24.3	7.57	mg/kg	10.12.2020 21:40	U+	1
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<16.7	36.4	16.7	mg/kg	10.12.2020 21:40	U+	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	125	6.07	2.65	mg/kg	10.12.2020 21:40	+	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10C	66.7	6.07	2.48	mg/kg	10.12.2020 21:40	+	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12C	8.52	6.07	5.24	mg/kg	10.12.2020 21:40	+	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16C	<5.28	6.07	5.28	mg/kg	10.12.2020 21:40	U+	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21C	<22.3	24.3	22.3	mg/kg	10.12.2020 21:40	U+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	108	52 - 126	%		

Analytical Method: TPH Speciation by Texas 1006 - Aromatics Prep Method: 1005
 Analyst: TPH % Moist: 10.85
 Seq Number: 3139674 Date Prep: 10.02.2020 10:20 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7713113

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<2.71	12.1	2.71	mg/kg	10.12.2020 22:03	U+	1
C8 to C10 Aromatic Hydrocarbons		10.2	6.07	2.65	mg/kg	10.12.2020 22:03	+	1
C10 to C12 Aromatic Hydrocarbons		126	6.07	6.07	mg/kg	10.12.2020 22:03	+	1
C12 to C16 Aromatic Hydrocarbons		30.3	6.07	3.48	mg/kg	10.12.2020 22:03	+	1
C16 to C21 Aromatic Hydrocarbons		<6.07	6.07	6.07	mg/kg	10.12.2020 22:03	U+	1
C21 to C35 Aromatic Hydrocarbons		<18.3	24.3	18.3	mg/kg	10.12.2020 22:03	U+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	117	61 - 131	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-08 (8-10)	Matrix: Soil	Sample Depth: 8 - 10 ft
Lab Sample Id: 673823-003	Date Collected: 09.28.2020 10:40	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 10.85	
Seq Number: 3138983	Date Prep: 10.05.2020 19:00	Tech: SAD
	Prep seq: 7712713	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00439	0.0212	0.00439	mg/kg	10.06.2020 05:05	U	25
Bromobenzene	108-86-1	<0.00735	0.106	0.00735	mg/kg	10.06.2020 05:05	U	25
Bromochloromethane	74-97-5	<0.0112	0.106	0.0112	mg/kg	10.06.2020 05:05	U	25
Bromodichloromethane	75-27-4	<0.00533	0.106	0.00533	mg/kg	10.06.2020 05:05	U	25
Bromoform	75-25-2	<0.0219	0.106	0.0219	mg/kg	10.06.2020 05:05	U	25
Methyl bromide	74-83-9	0.0246	0.106	0.0200	mg/kg	10.06.2020 05:05	J	25
2-Butanone	78-93-3	<0.0773	0.424	0.0773	mg/kg	10.06.2020 05:05	U	25
tert-Butylbenzene	98-06-6	<0.0272	0.106	0.0272	mg/kg	10.06.2020 05:05	U	25
Sec-Butylbenzene	135-98-8	0.510	0.106	0.00553	mg/kg	10.06.2020 05:05		25
n-Butylbenzene	104-51-8	1.65	0.106	0.00581	mg/kg	10.06.2020 05:05		25
Carbon Tetrachloride	56-23-5	<0.0349	0.106	0.0349	mg/kg	10.06.2020 05:05	U	25
Chlorobenzene	108-90-7	<0.00502	0.106	0.00502	mg/kg	10.06.2020 05:05	U	25
Chloroethane	75-00-3	<0.00942	0.212	0.00942	mg/kg	10.06.2020 05:05	U	25
Chloroform	67-66-3	<0.00367	0.106	0.00367	mg/kg	10.06.2020 05:05	U	25
Methyl Chloride	74-87-3	0.0942	0.106	0.00913	mg/kg	10.06.2020 05:05	J	25
2-Chlorotoluene	95-49-8	<0.00725	0.106	0.00725	mg/kg	10.06.2020 05:05	U	25
4-Chlorotoluene	106-43-4	<0.00559	0.106	0.00559	mg/kg	10.06.2020 05:05	U	25
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.00676	0.106	0.00676	mg/kg	10.06.2020 05:05	U	25
1,2-Dibromo-3-Chloropropane	96-12-8	<0.0149	0.106	0.0149	mg/kg	10.06.2020 05:05	U	25
Dibromochloromethane	124-48-1	<0.0190	0.106	0.0190	mg/kg	10.06.2020 05:05	U	25
1,2-Dibromoethane	106-93-4	<0.0221	0.106	0.0221	mg/kg	10.06.2020 05:05	U	25
Methylene Bromide	74-95-3	<0.00787	0.106	0.00787	mg/kg	10.06.2020 05:05	U	25
1,2-Dichlorobenzene	95-50-1	<0.00610	0.106	0.00610	mg/kg	10.06.2020 05:05	U	25
1,3-Dichlorobenzene	541-73-1	<0.00578	0.106	0.00578	mg/kg	10.06.2020 05:05	U	25
1,4-Dichlorobenzene	106-46-7	<0.00455	0.106	0.00455	mg/kg	10.06.2020 05:05	U	25
Dichlorodifluoromethane	75-71-8	<0.0236	0.106	0.0236	mg/kg	10.06.2020 05:05	U	25
1,2-Dichloroethane	107-06-2	<0.00644	0.106	0.00644	mg/kg	10.06.2020 05:05	U	25
1,1-Dichloroethane	75-34-3	<0.00798	0.106	0.00798	mg/kg	10.06.2020 05:05	U	25
trans-1,2-dichloroethylene	156-60-5	<0.00920	0.106	0.00920	mg/kg	10.06.2020 05:05	U	25
cis-1,2-Dichloroethylene	156-59-2	<0.00638	0.106	0.00638	mg/kg	10.06.2020 05:05	U	25
1,1-Dichloroethene	75-35-4	<0.00588	0.106	0.00588	mg/kg	10.06.2020 05:05	U	25
2,2-Dichloropropane	594-20-7	<0.0111	0.106	0.0111	mg/kg	10.06.2020 05:05	U	25
1,3-Dichloropropane	142-28-9	<0.00867	0.106	0.00867	mg/kg	10.06.2020 05:05	U	25
1,2-Dichloropropane	78-87-5	<0.00421	0.106	0.00421	mg/kg	10.06.2020 05:05	U	25
trans-1,3-dichloropropene	10061-02-6	<0.0193	0.106	0.0193	mg/kg	10.06.2020 05:05	U	25
1,1-Dichloropropene	563-58-6	<0.00951	0.106	0.00951	mg/kg	10.06.2020 05:05	U	25
cis-1,3-Dichloropropene	10061-01-5	<0.00487	0.106	0.00487	mg/kg	10.06.2020 05:05	U	25
Ethylbenzene	100-41-4	0.126	0.0212	0.00712	mg/kg	10.06.2020 05:05		25
Hexachlorobutadiene	87-68-3	<0.0424	0.106	0.0424	mg/kg	10.06.2020 05:05	U	25
Isopropylbenzene	98-82-8	1.35	0.106	0.00369	mg/kg	10.06.2020 05:05		25
Methylene Chloride	75-09-2	<0.0895	0.424	0.0895	mg/kg	10.06.2020 05:05	U	25
MTBE	1634-04-4	<0.00867	0.106	0.00867	mg/kg	10.06.2020 05:05	U	25
Naphthalene	91-20-3	0.916	0.212	0.0424	mg/kg	10.06.2020 05:05		25

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-08 (8-10)	Matrix: Soil	Sample Depth: 8 - 10 ft
Lab Sample Id: 673823-003	Date Collected: 09.28.2020 10:40	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 10.85	Tech: SAD
Seq Number: 3138983	Date Prep: 10.05.2020 19:00	

Parameter	CAS Number	Prep seq: 7712713 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	5.82	0.424	0.0243	mg/kg	10.06.2020 05:28	D 100
Styrene	100-42-5	<0.00436	0.106	0.00436	mg/kg	10.06.2020 05:05	U 25
1,1,1,2-Tetrachloroethane	630-20-6	<0.00566	0.106	0.00566	mg/kg	10.06.2020 05:05	U 25
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.00996	0.106	0.00996	mg/kg	10.06.2020 05:05	U 25
Tetrachloroethylene	127-18-4	<0.00784	0.106	0.00784	mg/kg	10.06.2020 05:05	U 25
Toluene	108-88-3	<0.0212	0.106	0.0212	mg/kg	10.06.2020 05:05	U 25
1,2,3-Trichlorobenzene	87-61-6	<0.0424	0.106	0.0424	mg/kg	10.06.2020 05:05	U 25
1,2,4-Trichlorobenzene	120-82-1	<0.0424	0.106	0.0424	mg/kg	10.06.2020 05:05	U 25
1,1,2-Trichloroethane	79-00-5	<0.00832	0.106	0.00832	mg/kg	10.06.2020 05:05	U 25
1,1,1-Trichloroethane	71-55-6	<0.0107	0.106	0.0107	mg/kg	10.06.2020 05:05	U 25
Trichloroethylene	79-01-6	<0.0105	0.106	0.0105	mg/kg	10.06.2020 05:05	U 25
Trichlorofluoromethane	75-69-4	<0.00652	0.106	0.00652	mg/kg	10.06.2020 05:05	U 25
1,2,3-Trichloropropane	96-18-4	<0.00954	0.106	0.00954	mg/kg	10.06.2020 05:05	U 25
1,2,4-Trimethylbenzene	95-63-6	0.162	0.106	0.00541	mg/kg	10.06.2020 05:05	25
1,3,5-Trimethylbenzene	108-67-8	<0.00613	0.106	0.00613	mg/kg	10.06.2020 05:05	U 25
Vinyl Chloride	75-01-4	<0.00936	0.106	0.00936	mg/kg	10.06.2020 05:05	U 25
o-Xylene	95-47-6	<0.0209	0.0212	0.0209	mg/kg	10.06.2020 05:05	U 25
m,p-Xylenes	179601-23-1	<0.0170	0.0424	0.0170	mg/kg	10.06.2020 05:05	U 25
Total Xylenes	1330-20-7	<0.0170		0.0170	mg/kg	10.06.2020 05:05	U

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	91	53 - 142	%		
1,2-Dichloroethane-D4	101	56 - 150	%		
Toluene-D8	111	70 - 130	%		
4-Bromofluorobenzene	101	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-09 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-004	Date Collected: 09.28.2020 14:49	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist: 11.96	
Seq Number: 3138838	Date Prep: 10.05.2020 09:00	Tech: ANJ
	Prep seq: 7712602	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0204	0.0207	0.00397	mg/kg	10.05.2020 12:01	J	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 11.96	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	2.67	4.45	0.687	mg/kg	10.02.2020 14:12	J	10
Barium	7440-39-3	42.3	4.45	0.386	mg/kg	10.02.2020 14:12		10
Cadmium	7440-43-9	<0.129	2.23	0.129	mg/kg	10.02.2020 14:12	U	10
Chromium	7440-47-3	13.5	4.45	0.302	mg/kg	10.02.2020 14:12		10
Lead	7439-92-1	7.93	2.23	0.216	mg/kg	10.02.2020 14:12		10
Selenium	7782-49-2	0.688	2.23	0.553	mg/kg	10.02.2020 14:12	J	10
Silver	7440-22-4	<0.177	2.23	0.177	mg/kg	10.02.2020 14:12	U	10

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 11.96	
Seq Number: 3138856	Date Prep: 10.02.2020 11:28	Tech: ISU
	Prep seq: 7712499	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<19.5	46.1	19.5	mg/kg	10.05.2020 12:53	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<19.5	46.1	19.5	mg/kg	10.05.2020 12:53	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<19.5	46.1	19.5	mg/kg	10.05.2020 12:53	U	1
Total TPH	PHC635	<19.5		19.5	mg/kg	10.05.2020 12:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	100	70 - 130	%		
1-Chlorooctane	107	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-09 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-004	Date Collected: 09.28.2020 14:49	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 11.96	
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	Tech: SAD
	Prep seq: 7712582	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000195	0.000943	0.000195	mg/kg	10.02.2020 16:15	U	1
Bromobenzene	108-86-1	<0.000327	0.00472	0.000327	mg/kg	10.02.2020 16:15	U	1
Bromochloromethane	74-97-5	<0.000496	0.00472	0.000496	mg/kg	10.02.2020 16:15	U	1
Bromodichloromethane	75-27-4	<0.000237	0.00472	0.000237	mg/kg	10.02.2020 16:15	U	1
Bromoform	75-25-2	<0.000974	0.00472	0.000974	mg/kg	10.02.2020 16:15	U	1
Methyl bromide	74-83-9	<0.000890	0.00472	0.000890	mg/kg	10.02.2020 16:15	UH	1
2-Butanone	78-93-3	<0.00342	0.0188	0.00342	mg/kg	10.06.2020 03:09	U	1
tert-Butylbenzene	98-06-6	<0.00121	0.00472	0.00121	mg/kg	10.02.2020 16:15	U	1
Sec-Butylbenzene	135-98-8	<0.000246	0.00472	0.000246	mg/kg	10.02.2020 16:15	U	1
n-Butylbenzene	104-51-8	<0.000258	0.00472	0.000258	mg/kg	10.02.2020 16:15	U	1
Carbon Tetrachloride	56-23-5	<0.00155	0.00472	0.00155	mg/kg	10.02.2020 16:15	U	1
Chlorobenzene	108-90-7	<0.000223	0.00472	0.000223	mg/kg	10.02.2020 16:15	U	1
Chloroethane	75-00-3	<0.000419	0.00943	0.000419	mg/kg	10.02.2020 16:15	U	1
Chloroform	67-66-3	<0.000163	0.00472	0.000163	mg/kg	10.02.2020 16:15	U	1
Methyl Chloride	74-87-3	<0.000406	0.00472	0.000406	mg/kg	10.02.2020 16:15	U	1
2-Chlorotoluene	95-49-8	<0.000322	0.00472	0.000322	mg/kg	10.02.2020 16:15	U	1
4-Chlorotoluene	106-43-4	<0.000249	0.00472	0.000249	mg/kg	10.02.2020 16:15	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000300	0.00472	0.000300	mg/kg	10.02.2020 16:15	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000664	0.00472	0.000664	mg/kg	10.02.2020 16:15	U	1
Dibromochloromethane	124-48-1	<0.000844	0.00472	0.000844	mg/kg	10.02.2020 16:15	U	1
1,2-Dibromoethane	106-93-4	<0.000984	0.00472	0.000984	mg/kg	10.02.2020 16:15	U	1
Methylene Bromide	74-95-3	<0.000350	0.00472	0.000350	mg/kg	10.02.2020 16:15	U	1
1,2-Dichlorobenzene	95-50-1	<0.000271	0.00472	0.000271	mg/kg	10.02.2020 16:15	U	1
1,3-Dichlorobenzene	541-73-1	<0.000257	0.00472	0.000257	mg/kg	10.02.2020 16:15	U	1
1,4-Dichlorobenzene	106-46-7	<0.000202	0.00472	0.000202	mg/kg	10.02.2020 16:15	U	1
Dichlorodifluoromethane	75-71-8	<0.00105	0.00472	0.00105	mg/kg	10.02.2020 16:15	U	1
1,2-Dichloroethane	107-06-2	<0.000287	0.00472	0.000287	mg/kg	10.02.2020 16:15	U	1
1,1-Dichloroethane	75-34-3	<0.000355	0.00472	0.000355	mg/kg	10.02.2020 16:15	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000409	0.00472	0.000409	mg/kg	10.02.2020 16:15	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000284	0.00472	0.000284	mg/kg	10.02.2020 16:15	U	1
1,1-Dichloroethene	75-35-4	<0.000261	0.00472	0.000261	mg/kg	10.02.2020 16:15	U	1
2,2-Dichloropropane	594-20-7	<0.000495	0.00472	0.000495	mg/kg	10.02.2020 16:15	U	1
1,3-Dichloropropane	142-28-9	<0.000386	0.00472	0.000386	mg/kg	10.02.2020 16:15	U	1
1,2-Dichloropropane	78-87-5	<0.000187	0.00472	0.000187	mg/kg	10.02.2020 16:15	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000858	0.00472	0.000858	mg/kg	10.02.2020 16:15	U	1
1,1-Dichloropropene	563-58-6	<0.000423	0.00472	0.000423	mg/kg	10.02.2020 16:15	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000217	0.00472	0.000217	mg/kg	10.02.2020 16:15	U	1
Ethylbenzene	100-41-4	<0.000317	0.000943	0.000317	mg/kg	10.02.2020 16:15	U	1
Hexachlorobutadiene	87-68-3	<0.00189	0.00472	0.00189	mg/kg	10.02.2020 16:15	U	1
Isopropylbenzene	98-82-8	<0.000164	0.00472	0.000164	mg/kg	10.02.2020 16:15	U	1
Methylene Chloride	75-09-2	<0.00398	0.0189	0.00398	mg/kg	10.02.2020 16:15	U	1
MTBE	1634-04-4	0.00131	0.00472	0.000385	mg/kg	10.02.2020 16:15	J	1
Naphthalene	91-20-3	<0.00189	0.00943	0.00189	mg/kg	10.02.2020 16:15	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-09 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-004	Date Collected: 09.28.2020 14:49	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 11.96	Tech: SAD
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	

Parameter	CAS Number	Prep seq: 7712582 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000270 0.00472	0.000270	mg/kg	10.02.2020 16:15	U	1
Styrene	100-42-5	<0.000194 0.00472	0.000194	mg/kg	10.02.2020 16:15	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000252 0.00472	0.000252	mg/kg	10.02.2020 16:15	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000443 0.00472	0.000443	mg/kg	10.02.2020 16:15	U	1
Tetrachloroethylene	127-18-4	<0.000349 0.00472	0.000349	mg/kg	10.02.2020 16:15	U	1
Toluene	108-88-3	<0.000943 0.00472	0.000943	mg/kg	10.02.2020 16:15	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00189 0.00472	0.00189	mg/kg	10.02.2020 16:15	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00189 0.00472	0.00189	mg/kg	10.02.2020 16:15	U	1
1,1,2-Trichloroethane	79-00-5	<0.000370 0.00472	0.000370	mg/kg	10.02.2020 16:15	U	1
1,1,1-Trichloroethane	71-55-6	<0.000474 0.00472	0.000474	mg/kg	10.02.2020 16:15	U	1
Trichloroethylene	79-01-6	<0.000466 0.00472	0.000466	mg/kg	10.02.2020 16:15	U	1
Trichlorofluoromethane	75-69-4	<0.000290 0.00472	0.000290	mg/kg	10.02.2020 16:15	U	1
1,2,3-Trichloropropane	96-18-4	<0.000424 0.00472	0.000424	mg/kg	10.02.2020 16:15	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000241 0.00472	0.000241	mg/kg	10.02.2020 16:15	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000273 0.00472	0.000273	mg/kg	10.02.2020 16:15	U	1
Vinyl Chloride	75-01-4	<0.000416 0.00472	0.000416	mg/kg	10.02.2020 16:15	U	1
o-Xylene	95-47-6	<0.000929 0.000943	0.000929	mg/kg	10.02.2020 16:15	U	1
m,p-Xylenes	179601-23-1	<0.000755 0.00189	0.000755	mg/kg	10.02.2020 16:15	U	1
Total Xylenes	1330-20-7	<0.000755	0.000755	mg/kg	10.02.2020 16:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	113	53 - 142	%		
1,2-Dichloroethane-D4	104	56 - 150	%		
Toluene-D8	92	70 - 130	%		
4-Bromofluorobenzene	99	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-10 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-005	Date Collected: 09.28.2020 13:50	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist: 14.78	
Seq Number: 3138838	Date Prep: 10.05.2020 09:00	Tech: ANJ
	Prep seq: 7712602	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.00587	0.0226	0.00434	mg/kg	10.05.2020 12:16	J	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 14.78	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	1.50	3.91	0.603	mg/kg	10.02.2020 14:24	J	10
Barium	7440-39-3	72.4	3.91	0.339	mg/kg	10.02.2020 14:24		10
Cadmium	7440-43-9	<0.113	1.96	0.113	mg/kg	10.02.2020 14:24	U	10
Chromium	7440-47-3	6.85	3.91	0.265	mg/kg	10.02.2020 14:24		10
Lead	7439-92-1	11.8	1.96	0.189	mg/kg	10.02.2020 14:24		10
Selenium	7782-49-2	0.494	1.96	0.485	mg/kg	10.02.2020 14:24	J	10
Silver	7440-22-4	<0.155	1.96	0.155	mg/kg	10.02.2020 14:24	U	10

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 14.78	
Seq Number: 3138856	Date Prep: 10.02.2020 11:31	Tech: ISU
	Prep seq: 7712499	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<17.9	42.4	17.9	mg/kg	10.05.2020 13:14	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<17.9	42.4	17.9	mg/kg	10.05.2020 13:14	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<17.9	42.4	17.9	mg/kg	10.05.2020 13:14	U	1
Total TPH	PHC635	<17.9		17.9	mg/kg	10.05.2020 13:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	101	70 - 130	%		
1-Chlorooctane	107	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-10 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-005	Date Collected: 09.28.2020 13:50	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 14.78	
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	Tech: SAD
	Prep seq: 7712582	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.000235	0.000872	0.000180	mg/kg	10.02.2020 18:36	J	1
Bromobenzene	108-86-1	<0.000302	0.00436	0.000302	mg/kg	10.02.2020 18:36	U	1
Bromochloromethane	74-97-5	<0.000458	0.00436	0.000458	mg/kg	10.02.2020 18:36	U	1
Bromodichloromethane	75-27-4	<0.000219	0.00436	0.000219	mg/kg	10.02.2020 18:36	U	1
Bromoform	75-25-2	<0.000900	0.00436	0.000900	mg/kg	10.02.2020 18:36	U	1
Methyl bromide	74-83-9	<0.000822	0.00436	0.000822	mg/kg	10.02.2020 18:36	UH	1
2-Butanone	78-93-3	<0.00306	0.0168	0.00306	mg/kg	10.06.2020 03:32	U	1
tert-Butylbenzene	98-06-6	<0.00112	0.00436	0.00112	mg/kg	10.02.2020 18:36	U	1
Sec-Butylbenzene	135-98-8	<0.000227	0.00436	0.000227	mg/kg	10.02.2020 18:36	U	1
n-Butylbenzene	104-51-8	<0.000239	0.00436	0.000239	mg/kg	10.02.2020 18:36	U	1
Carbon Tetrachloride	56-23-5	<0.00143	0.00436	0.00143	mg/kg	10.02.2020 18:36	U	1
Chlorobenzene	108-90-7	<0.000206	0.00436	0.000206	mg/kg	10.02.2020 18:36	U	1
Chloroethane	75-00-3	<0.000387	0.00872	0.000387	mg/kg	10.02.2020 18:36	U	1
Chloroform	67-66-3	<0.000151	0.00436	0.000151	mg/kg	10.02.2020 18:36	U	1
Methyl Chloride	74-87-3	<0.000375	0.00436	0.000375	mg/kg	10.02.2020 18:36	U	1
2-Chlorotoluene	95-49-8	<0.000298	0.00436	0.000298	mg/kg	10.02.2020 18:36	U	1
4-Chlorotoluene	106-43-4	<0.000230	0.00436	0.000230	mg/kg	10.02.2020 18:36	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000278	0.00436	0.000278	mg/kg	10.02.2020 18:36	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000614	0.00436	0.000614	mg/kg	10.02.2020 18:36	U	1
Dibromochloromethane	124-48-1	<0.000780	0.00436	0.000780	mg/kg	10.02.2020 18:36	U	1
1,2-Dibromoethane	106-93-4	<0.000910	0.00436	0.000910	mg/kg	10.02.2020 18:36	U	1
Methylene Bromide	74-95-3	<0.000323	0.00436	0.000323	mg/kg	10.02.2020 18:36	U	1
1,2-Dichlorobenzene	95-50-1	<0.000251	0.00436	0.000251	mg/kg	10.02.2020 18:36	U	1
1,3-Dichlorobenzene	541-73-1	<0.000238	0.00436	0.000238	mg/kg	10.02.2020 18:36	U	1
1,4-Dichlorobenzene	106-46-7	<0.000187	0.00436	0.000187	mg/kg	10.02.2020 18:36	U	1
Dichlorodifluoromethane	75-71-8	<0.000971	0.00436	0.000971	mg/kg	10.02.2020 18:36	U	1
1,2-Dichloroethane	107-06-2	<0.000265	0.00436	0.000265	mg/kg	10.02.2020 18:36	U	1
1,1-Dichloroethane	75-34-3	<0.000328	0.00436	0.000328	mg/kg	10.02.2020 18:36	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000378	0.00436	0.000378	mg/kg	10.02.2020 18:36	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000262	0.00436	0.000262	mg/kg	10.02.2020 18:36	U	1
1,1-Dichloroethene	75-35-4	<0.000242	0.00436	0.000242	mg/kg	10.02.2020 18:36	U	1
2,2-Dichloropropane	594-20-7	<0.000457	0.00436	0.000457	mg/kg	10.02.2020 18:36	U	1
1,3-Dichloropropane	142-28-9	<0.000356	0.00436	0.000356	mg/kg	10.02.2020 18:36	U	1
1,2-Dichloropropane	78-87-5	<0.000173	0.00436	0.000173	mg/kg	10.02.2020 18:36	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000793	0.00436	0.000793	mg/kg	10.02.2020 18:36	U	1
1,1-Dichloropropene	563-58-6	<0.000391	0.00436	0.000391	mg/kg	10.02.2020 18:36	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000200	0.00436	0.000200	mg/kg	10.02.2020 18:36	U	1
Ethylbenzene	100-41-4	<0.000293	0.000872	0.000293	mg/kg	10.02.2020 18:36	U	1
Hexachlorobutadiene	87-68-3	<0.00174	0.00436	0.00174	mg/kg	10.02.2020 18:36	U	1
Isopropylbenzene	98-82-8	<0.000152	0.00436	0.000152	mg/kg	10.02.2020 18:36	U	1
Methylene Chloride	75-09-2	<0.00368	0.0174	0.00368	mg/kg	10.02.2020 18:36	U	1
MTBE	1634-04-4	0.00472	0.00436	0.000356	mg/kg	10.02.2020 18:36		1
Naphthalene	91-20-3	<0.00174	0.00872	0.00174	mg/kg	10.02.2020 18:36	U	1

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Sample Id: T2 TMW-10 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-005	Date Collected: 09.28.2020 13:50	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 14.78	Tech: SAD
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	

Parameter	CAS Number	Prep seq: 7712582 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000249 0.00436	0.000249	mg/kg	10.02.2020 18:36	U	1
Styrene	100-42-5	<0.000179 0.00436	0.000179	mg/kg	10.02.2020 18:36	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000233 0.00436	0.000233	mg/kg	10.02.2020 18:36	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000409 0.00436	0.000409	mg/kg	10.02.2020 18:36	U	1
Tetrachloroethylene	127-18-4	<0.000322 0.00436	0.000322	mg/kg	10.02.2020 18:36	U	1
Toluene	108-88-3	<0.000872 0.00436	0.000872	mg/kg	10.02.2020 18:36	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00174 0.00436	0.00174	mg/kg	10.02.2020 18:36	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00174 0.00436	0.00174	mg/kg	10.02.2020 18:36	U	1
1,1,2-Trichloroethane	79-00-5	<0.000342 0.00436	0.000342	mg/kg	10.02.2020 18:36	U	1
1,1,1-Trichloroethane	71-55-6	<0.000438 0.00436	0.000438	mg/kg	10.02.2020 18:36	U	1
Trichloroethylene	79-01-6	<0.000431 0.00436	0.000431	mg/kg	10.02.2020 18:36	U	1
Trichlorofluoromethane	75-69-4	<0.000268 0.00436	0.000268	mg/kg	10.02.2020 18:36	U	1
1,2,3-Trichloropropane	96-18-4	<0.000392 0.00436	0.000392	mg/kg	10.02.2020 18:36	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000222 0.00436	0.000222	mg/kg	10.02.2020 18:36	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000252 0.00436	0.000252	mg/kg	10.02.2020 18:36	U	1
Vinyl Chloride	75-01-4	<0.000385 0.00436	0.000385	mg/kg	10.02.2020 18:36	U	1
o-Xylene	95-47-6	<0.000859 0.000872	0.000859	mg/kg	10.02.2020 18:36	U	1
m,p-Xylenes	179601-23-1	<0.000697 0.00174	0.000697	mg/kg	10.02.2020 18:36	U	1
Total Xylenes	1330-20-7	<0.000697	0.000697	mg/kg	10.02.2020 18:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	117	53 - 142	%		
1,2-Dichloroethane-D4	113	56 - 150	%		
Toluene-D8	88	70 - 130	%		
4-Bromofluorobenzene	99	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-04 (12-14)	Matrix: Soil	Sample Depth: 12 - 14 ft
Lab Sample Id: 673823-006	Date Collected: 09.28.2020 08:10	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist: 17.11	
Seq Number: 3138838	Date Prep: 10.05.2020 09:00	Tech: ANJ
	Prep seq: 7712602	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0363	0.0215	0.00414	mg/kg	10.05.2020 12:18		1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 17.11	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	2.12	4.64	0.716	mg/kg	10.02.2020 14:26	J	10
Barium	7440-39-3	101	4.64	0.402	mg/kg	10.02.2020 14:26		10
Cadmium	7440-43-9	<0.135	2.32	0.135	mg/kg	10.02.2020 14:26	U	10
Chromium	7440-47-3	9.62	4.64	0.315	mg/kg	10.02.2020 14:26		10
Lead	7439-92-1	5.90	2.32	0.225	mg/kg	10.02.2020 14:26		10
Selenium	7782-49-2	<0.576	2.32	0.576	mg/kg	10.02.2020 14:26	U	10
Silver	7440-22-4	<0.184	2.32	0.184	mg/kg	10.02.2020 14:26	U	10

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-04 (12-14)	Matrix: Soil	Sample Depth: 12 - 14 ft
Lab Sample Id: 673823-006	Date Collected: 09.28.2020 08:10	Date Received: 09.29.2020 10:30
Analytical Method: PAHs by SW846 8270D SIM		Prep Method: SW3546
Analyst: DNE	% Moist: 17.11	
Seq Number: 3139328	Date Prep: 10.09.2020 12:00	Tech: DNE
	Prep seq: 7712899	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	<0.00283	0.00596	0.00283	mg/kg	10.12.2020 17:12	U	3
Acenaphthylene	208-96-8	<0.00319	0.00596	0.00319	mg/kg	10.12.2020 17:12	U	3
Anthracene	120-12-7	<0.00390	0.00596	0.00390	mg/kg	10.12.2020 17:12	U	3
Benzo(a)anthracene	56-55-3	<0.00388	0.00596	0.00388	mg/kg	10.12.2020 17:12	U	3
Benzo(a)pyrene	50-32-8	<0.00436	0.00596	0.00436	mg/kg	10.12.2020 17:12	U	3
Benzo(b)fluoranthene	205-99-2	<0.00409	0.00596	0.00409	mg/kg	10.12.2020 17:12	U	3
Benzo(g,h,i)perylene	191-24-2	<0.00517	0.00596	0.00517	mg/kg	10.12.2020 17:12	U	3
Benzo(k)fluoranthene	207-08-9	<0.00355	0.00596	0.00355	mg/kg	10.12.2020 17:12	U	3
Chrysene	218-01-9	0.0207	0.00596	0.00303	mg/kg	10.12.2020 17:12		3
Dibenz(a,h)anthracene	53-70-3	<0.00491	0.00596	0.00491	mg/kg	10.12.2020 17:12	U	3
Fluoranthene	206-44-0	0.00638	0.00596	0.00478	mg/kg	10.12.2020 17:12		3
Fluorene	86-73-7	0.00706	0.00596	0.00330	mg/kg	10.12.2020 17:12		3
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.00473	0.00596	0.00473	mg/kg	10.12.2020 17:12	U	3
Naphthalene	91-20-3	0.00417	0.0596	0.00304	mg/kg	10.12.2020 17:12	J	3
Phenanthrene	85-01-8	0.00824	0.00596	0.00361	mg/kg	10.12.2020 17:12		3
Pyrene	129-00-0	0.00658	0.00596	0.00326	mg/kg	10.12.2020 17:12		3

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	81	34 - 104	%		
Nitrobenzene-d5	84	37 - 101	%		
Terphenyl-D14	72	37 - 117	%		

Analytical Method: TPH by Texas1005	Prep Method: 1005
Analyst: ISU	% Moist: 17.11
Seq Number: 3138811	Date Prep: 10.02.2020 11:17
	Tech: ISU
	Prep seq: 7712500

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<21.6	51.2	21.6	mg/kg	10.02.2020 19:03	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	260	51.2	21.6	mg/kg	10.02.2020 19:03		1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	60.0	51.2	21.6	mg/kg	10.02.2020 19:03		1
Total TPH	PHC635	320		21.6	mg/kg	10.02.2020 19:03		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	88	70 - 130	%		
1-Chlorooctane	102	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-04 (12-14)	Matrix: Soil	Sample Depth: 12 - 14 ft
Lab Sample Id: 673823-006	Date Collected: 09.28.2020 08:10	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 17.11	
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	Tech: SAD
	Prep seq: 7712582	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000199	0.000962	0.000199	mg/kg	10.02.2020 19:46	U	1
Bromobenzene	108-86-1	<0.000333	0.00481	0.000333	mg/kg	10.02.2020 19:46	U	1
Bromochloromethane	74-97-5	<0.000506	0.00481	0.000506	mg/kg	10.02.2020 19:46	U	1
Bromodichloromethane	75-27-4	<0.000242	0.00481	0.000242	mg/kg	10.02.2020 19:46	U	1
Bromoform	75-25-2	<0.000994	0.00481	0.000994	mg/kg	10.02.2020 19:46	U	1
Methyl bromide	74-83-9	<0.000907	0.00481	0.000907	mg/kg	10.02.2020 19:46	UH	1
2-Butanone	78-93-3	<0.00351	0.0192	0.00351	mg/kg	10.02.2020 19:46	UH	1
tert-Butylbenzene	98-06-6	<0.00123	0.00481	0.00123	mg/kg	10.02.2020 19:46	U	1
Sec-Butylbenzene	135-98-8	0.000837	0.00481	0.000251	mg/kg	10.02.2020 19:46	J	1
n-Butylbenzene	104-51-8	0.00224	0.00481	0.000263	mg/kg	10.02.2020 19:46	J	1
Carbon Tetrachloride	56-23-5	<0.00158	0.00481	0.00158	mg/kg	10.02.2020 19:46	U	1
Chlorobenzene	108-90-7	<0.000228	0.00481	0.000228	mg/kg	10.02.2020 19:46	U	1
Chloroethane	75-00-3	<0.000427	0.00962	0.000427	mg/kg	10.02.2020 19:46	U	1
Chloroform	67-66-3	<0.000166	0.00481	0.000166	mg/kg	10.02.2020 19:46	U	1
Methyl Chloride	74-87-3	<0.000414	0.00481	0.000414	mg/kg	10.02.2020 19:46	U	1
2-Chlorotoluene	95-49-8	<0.000329	0.00481	0.000329	mg/kg	10.02.2020 19:46	U	1
4-Chlorotoluene	106-43-4	<0.000254	0.00481	0.000254	mg/kg	10.02.2020 19:46	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000306	0.00481	0.000306	mg/kg	10.02.2020 19:46	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000677	0.00481	0.000677	mg/kg	10.02.2020 19:46	U	1
Dibromochloromethane	124-48-1	<0.000861	0.00481	0.000861	mg/kg	10.02.2020 19:46	U	1
1,2-Dibromoethane	106-93-4	<0.00100	0.00481	0.00100	mg/kg	10.02.2020 19:46	U	1
Methylene Bromide	74-95-3	<0.000357	0.00481	0.000357	mg/kg	10.02.2020 19:46	U	1
1,2-Dichlorobenzene	95-50-1	<0.000277	0.00481	0.000277	mg/kg	10.02.2020 19:46	U	1
1,3-Dichlorobenzene	541-73-1	<0.000262	0.00481	0.000262	mg/kg	10.02.2020 19:46	U	1
1,4-Dichlorobenzene	106-46-7	<0.000206	0.00481	0.000206	mg/kg	10.02.2020 19:46	U	1
Dichlorodifluoromethane	75-71-8	<0.00107	0.00481	0.00107	mg/kg	10.02.2020 19:46	U	1
1,2-Dichloroethane	107-06-2	<0.000292	0.00481	0.000292	mg/kg	10.02.2020 19:46	U	1
1,1-Dichloroethane	75-34-3	<0.000362	0.00481	0.000362	mg/kg	10.02.2020 19:46	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000417	0.00481	0.000417	mg/kg	10.02.2020 19:46	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000289	0.00481	0.000289	mg/kg	10.02.2020 19:46	U	1
1,1-Dichloroethene	75-35-4	<0.000267	0.00481	0.000267	mg/kg	10.02.2020 19:46	U	1
2,2-Dichloropropane	594-20-7	<0.000504	0.00481	0.000504	mg/kg	10.02.2020 19:46	U	1
1,3-Dichloropropane	142-28-9	<0.000393	0.00481	0.000393	mg/kg	10.02.2020 19:46	U	1
1,2-Dichloropropane	78-87-5	<0.000191	0.00481	0.000191	mg/kg	10.02.2020 19:46	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000875	0.00481	0.000875	mg/kg	10.02.2020 19:46	U	1
1,1-Dichloropropene	563-58-6	<0.000431	0.00481	0.000431	mg/kg	10.02.2020 19:46	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000221	0.00481	0.000221	mg/kg	10.02.2020 19:46	U	1
Ethylbenzene	100-41-4	0.00178	0.000962	0.000323	mg/kg	10.02.2020 19:46		1
Hexachlorobutadiene	87-68-3	<0.00192	0.00481	0.00192	mg/kg	10.02.2020 19:46	U	1
Isopropylbenzene	98-82-8	<0.000167	0.00481	0.000167	mg/kg	10.02.2020 19:46	U	1
Methylene Chloride	75-09-2	<0.00406	0.0192	0.00406	mg/kg	10.02.2020 19:46	U	1
MTBE	1634-04-4	<0.000393	0.00481	0.000393	mg/kg	10.02.2020 19:46	U	1
Naphthalene	91-20-3	0.00266	0.00962	0.00192	mg/kg	10.02.2020 19:46	J	1

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Yellow Cab Tract 2

Sample Id: T2 TMW-04 (12-14)	Matrix: Soil	Sample Depth: 12 - 14 ft
Lab Sample Id: 673823-006	Date Collected: 09.28.2020 08:10	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 17.11	Tech: SAD
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	

Parameter	CAS Number	Prep seq: 7712582 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	0.00197	0.00481	0.000275	mg/kg	10.02.2020 19:46	J	1
Styrene	100-42-5	<0.000198	0.00481	0.000198	mg/kg	10.02.2020 19:46	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000257	0.00481	0.000257	mg/kg	10.02.2020 19:46	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000452	0.00481	0.000452	mg/kg	10.02.2020 19:46	U	1
Tetrachloroethylene	127-18-4	<0.000356	0.00481	0.000356	mg/kg	10.02.2020 19:46	U	1
Toluene	108-88-3	<0.000962	0.00481	0.000962	mg/kg	10.02.2020 19:46	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00192	0.00481	0.00192	mg/kg	10.02.2020 19:46	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00192	0.00481	0.00192	mg/kg	10.02.2020 19:46	U	1
1,1,2-Trichloroethane	79-00-5	<0.000377	0.00481	0.000377	mg/kg	10.02.2020 19:46	U	1
1,1,1-Trichloroethane	71-55-6	<0.000484	0.00481	0.000484	mg/kg	10.02.2020 19:46	U	1
Trichloroethylene	79-01-6	<0.000475	0.00481	0.000475	mg/kg	10.02.2020 19:46	U	1
Trichlorofluoromethane	75-69-4	<0.000296	0.00481	0.000296	mg/kg	10.02.2020 19:46	U	1
1,2,3-Trichloropropane	96-18-4	<0.000433	0.00481	0.000433	mg/kg	10.02.2020 19:46	U	1
1,2,4-Trimethylbenzene	95-63-6	0.00525	0.00481	0.000245	mg/kg	10.02.2020 19:46		1
1,3,5-Trimethylbenzene	108-67-8	0.000818	0.00481	0.000278	mg/kg	10.02.2020 19:46	J	1
Vinyl Chloride	75-01-4	<0.000425	0.00481	0.000425	mg/kg	10.02.2020 19:46	U	1
o-Xylene	95-47-6	0.00228	0.000962	0.000948	mg/kg	10.02.2020 19:46		1
m,p-Xylenes	179601-23-1	0.00241	0.00192	0.000770	mg/kg	10.02.2020 19:46		1
Total Xylenes	1330-20-7	0.00469		0.000770	mg/kg	10.02.2020 19:46		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	117	53 - 142	%		
1,2-Dichloroethane-D4	111	56 - 150	%		
Toluene-D8	92	70 - 130	%		
4-Bromofluorobenzene	103	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-05 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-007	Date Collected: 09.28.2020 09:42	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW 7471A		Prep Method: SW7471P
Analyst: ANJ	% Moist: 15.72	
Seq Number: 3138838	Date Prep: 10.05.2020 09:00	Tech: ANJ
	Prep seq: 7712602	

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0317	0.0224	0.00430	mg/kg	10.05.2020 12:20		1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist: 15.72	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	2.54	4.48	0.691	mg/kg	10.02.2020 14:29	J	10
Barium	7440-39-3	64.5	4.48	0.388	mg/kg	10.02.2020 14:29		10
Cadmium	7440-43-9	<0.130	2.24	0.130	mg/kg	10.02.2020 14:29	U	10
Chromium	7440-47-3	19.0	4.48	0.304	mg/kg	10.02.2020 14:29		10
Lead	7439-92-1	14.8	2.24	0.217	mg/kg	10.02.2020 14:29		10
Selenium	7782-49-2	0.691	2.24	0.555	mg/kg	10.02.2020 14:29	J	10
Silver	7440-22-4	<0.178	2.24	0.178	mg/kg	10.02.2020 14:29	U	10

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist: 15.72	
Seq Number: 3138811	Date Prep: 10.02.2020 11:20	Tech: ISU
	Prep seq: 7712500	

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	23.9	50.0	21.1	mg/kg	10.02.2020 19:23	J	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	4940	50.0	21.1	mg/kg	10.02.2020 19:23		1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	1520	100	42.2	mg/kg	10.05.2020 11:32	D	2
Total TPH	PHC635	6480		21.1	mg/kg	10.05.2020 11:32		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	90	70 - 130	%		
1-Chlorooctane	105	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-05 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-007	Date Collected: 09.28.2020 09:42	Date Received: 09.29.2020 10:30
Analytical Method: TPH Speciation by Texas 1006 - Aliphatics		Prep Method: 1005
Analyst: TPH	% Moist: 15.72	
Seq Number: 3139677	Date Prep: 10.02.2020 11:05	Tech: TPH
Subcontractor: SUB: T104704295-19-26	Prep seq: 7713114	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<19.4	42.2	19.4	mg/kg	10.12.2020 22:26	U+	1
C6 Aliphatic Hydrocarbons	ALHYDRC6	<8.77	28.1	8.77	mg/kg	10.12.2020 22:26	U+	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	<3.07	7.04	3.07	mg/kg	10.12.2020 22:26	U+	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10C	<2.87	7.04	2.87	mg/kg	10.12.2020 22:26	U+	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12C	<6.07	7.04	6.07	mg/kg	10.12.2020 22:26	U+	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16C	826	7.04	6.11	mg/kg	10.12.2020 22:26	+	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21C	6980	28.1	25.9	mg/kg	10.12.2020 22:26	+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	79	52 - 126	%		

Analytical Method: TPH Speciation by Texas 1006 - Aromatics		Prep Method: 1005
Analyst: TPH	% Moist: 15.72	
Seq Number: 3139678	Date Prep: 10.02.2020 11:05	Tech: TPH
Subcontractor: SUB: T104704295-19-26	Prep seq: 7713115	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<3.14	14.1	3.14	mg/kg	10.12.2020 22:49	U+	1
C8 to C10 Aromatic Hydrocarbons		<3.07	7.04	3.07	mg/kg	10.12.2020 22:49	U+	1
C10 to C12 Aromatic Hydrocarbons		<7.04	7.04	7.04	mg/kg	10.12.2020 22:49	U+	1
C12 to C16 Aromatic Hydrocarbons		<4.04	7.04	4.04	mg/kg	10.12.2020 22:49	U+	1
C16 to C21 Aromatic Hydrocarbons		73.3	7.04	7.04	mg/kg	10.12.2020 22:49	+	1
C21 to C35 Aromatic Hydrocarbons		772	28.1	21.2	mg/kg	10.12.2020 22:49	+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	103	61 - 131	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-05 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-007	Date Collected: 09.28.2020 09:42	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 15.72	
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	Tech: SAD
	Prep seq: 7712582	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000181	0.000875	0.000181	mg/kg	10.02.2020 18:59	U	1
Bromobenzene	108-86-1	<0.000303	0.00438	0.000303	mg/kg	10.02.2020 18:59	U	1
Bromochloromethane	74-97-5	<0.000460	0.00438	0.000460	mg/kg	10.02.2020 18:59	U	1
Bromodichloromethane	75-27-4	<0.000220	0.00438	0.000220	mg/kg	10.02.2020 18:59	U	1
Bromoform	75-25-2	<0.000904	0.00438	0.000904	mg/kg	10.02.2020 18:59	U	1
Methyl bromide	74-83-9	<0.000825	0.00438	0.000825	mg/kg	10.02.2020 18:59	UH	1
2-Butanone	78-93-3	<0.00319	0.0175	0.00319	mg/kg	10.02.2020 18:59	UH	1
tert-Butylbenzene	98-06-6	<0.00112	0.00438	0.00112	mg/kg	10.02.2020 18:59	U	1
Sec-Butylbenzene	135-98-8	<0.000228	0.00438	0.000228	mg/kg	10.02.2020 18:59	U	1
n-Butylbenzene	104-51-8	<0.000240	0.00438	0.000240	mg/kg	10.02.2020 18:59	U	1
Carbon Tetrachloride	56-23-5	<0.00144	0.00438	0.00144	mg/kg	10.02.2020 18:59	U	1
Chlorobenzene	108-90-7	<0.000207	0.00438	0.000207	mg/kg	10.02.2020 18:59	U	1
Chloroethane	75-00-3	<0.000389	0.00875	0.000389	mg/kg	10.02.2020 18:59	U	1
Chloroform	67-66-3	<0.000151	0.00438	0.000151	mg/kg	10.02.2020 18:59	U	1
Methyl Chloride	74-87-3	<0.000377	0.00438	0.000377	mg/kg	10.02.2020 18:59	U	1
2-Chlorotoluene	95-49-8	<0.000299	0.00438	0.000299	mg/kg	10.02.2020 18:59	U	1
4-Chlorotoluene	106-43-4	<0.000231	0.00438	0.000231	mg/kg	10.02.2020 18:59	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000279	0.00438	0.000279	mg/kg	10.02.2020 18:59	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000616	0.00438	0.000616	mg/kg	10.02.2020 18:59	U	1
Dibromochloromethane	124-48-1	<0.000783	0.00438	0.000783	mg/kg	10.02.2020 18:59	U	1
1,2-Dibromoethane	106-93-4	<0.000913	0.00438	0.000913	mg/kg	10.02.2020 18:59	U	1
Methylene Bromide	74-95-3	<0.000325	0.00438	0.000325	mg/kg	10.02.2020 18:59	U	1
1,2-Dichlorobenzene	95-50-1	<0.000252	0.00438	0.000252	mg/kg	10.02.2020 18:59	U	1
1,3-Dichlorobenzene	541-73-1	<0.000238	0.00438	0.000238	mg/kg	10.02.2020 18:59	U	1
1,4-Dichlorobenzene	106-46-7	<0.000188	0.00438	0.000188	mg/kg	10.02.2020 18:59	U	1
Dichlorodifluoromethane	75-71-8	<0.000975	0.00438	0.000975	mg/kg	10.02.2020 18:59	U	1
1,2-Dichloroethane	107-06-2	<0.000266	0.00438	0.000266	mg/kg	10.02.2020 18:59	U	1
1,1-Dichloroethane	75-34-3	<0.000329	0.00438	0.000329	mg/kg	10.02.2020 18:59	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000380	0.00438	0.000380	mg/kg	10.02.2020 18:59	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000263	0.00438	0.000263	mg/kg	10.02.2020 18:59	U	1
1,1-Dichloroethene	75-35-4	<0.000242	0.00438	0.000242	mg/kg	10.02.2020 18:59	U	1
2,2-Dichloropropane	594-20-7	<0.000459	0.00438	0.000459	mg/kg	10.02.2020 18:59	U	1
1,3-Dichloropropane	142-28-9	<0.000358	0.00438	0.000358	mg/kg	10.02.2020 18:59	U	1
1,2-Dichloropropane	78-87-5	<0.000174	0.00438	0.000174	mg/kg	10.02.2020 18:59	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000796	0.00438	0.000796	mg/kg	10.02.2020 18:59	U	1
1,1-Dichloropropene	563-58-6	<0.000392	0.00438	0.000392	mg/kg	10.02.2020 18:59	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000201	0.00438	0.000201	mg/kg	10.02.2020 18:59	U	1
Ethylbenzene	100-41-4	<0.000294	0.000875	0.000294	mg/kg	10.02.2020 18:59	U	1
Hexachlorobutadiene	87-68-3	<0.00175	0.00438	0.00175	mg/kg	10.02.2020 18:59	U	1
Isopropylbenzene	98-82-8	<0.000152	0.00438	0.000152	mg/kg	10.02.2020 18:59	U	1
Methylene Chloride	75-09-2	<0.00369	0.0175	0.00369	mg/kg	10.02.2020 18:59	U	1
MTBE	1634-04-4	<0.000358	0.00438	0.000358	mg/kg	10.02.2020 18:59	U	1
Naphthalene	91-20-3	<0.00175	0.00875	0.00175	mg/kg	10.02.2020 18:59	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-05 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 673823-007	Date Collected: 09.28.2020 09:42	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist: 15.72	Tech: SAD
Seq Number: 3138775	Date Prep: 10.02.2020 15:30	

Parameter	CAS Number	Prep seq: 7712582 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000250 0.00438	0.000250	mg/kg	10.02.2020 18:59	U	1
Styrene	100-42-5	<0.000180 0.00438	0.000180	mg/kg	10.02.2020 18:59	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000234 0.00438	0.000234	mg/kg	10.02.2020 18:59	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000411 0.00438	0.000411	mg/kg	10.02.2020 18:59	U	1
Tetrachloroethylene	127-18-4	0.0110 0.00438	0.000323	mg/kg	10.02.2020 18:59		1
Toluene	108-88-3	<0.000875 0.00438	0.000875	mg/kg	10.02.2020 18:59	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00175 0.00438	0.00175	mg/kg	10.02.2020 18:59	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00175 0.00438	0.00175	mg/kg	10.02.2020 18:59	U	1
1,1,2-Trichloroethane	79-00-5	<0.000343 0.00438	0.000343	mg/kg	10.02.2020 18:59	U	1
1,1,1-Trichloroethane	71-55-6	<0.000440 0.00438	0.000440	mg/kg	10.02.2020 18:59	U	1
Trichloroethylene	79-01-6	<0.000432 0.00438	0.000432	mg/kg	10.02.2020 18:59	U	1
Trichlorofluoromethane	75-69-4	<0.000269 0.00438	0.000269	mg/kg	10.02.2020 18:59	U	1
1,2,3-Trichloropropane	96-18-4	<0.000393 0.00438	0.000393	mg/kg	10.02.2020 18:59	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000223 0.00438	0.000223	mg/kg	10.02.2020 18:59	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000253 0.00438	0.000253	mg/kg	10.02.2020 18:59	U	1
Vinyl Chloride	75-01-4	<0.000386 0.00438	0.000386	mg/kg	10.02.2020 18:59	U	1
o-Xylene	95-47-6	<0.000862 0.000875	0.000862	mg/kg	10.02.2020 18:59	U	1
m,p-Xylenes	179601-23-1	<0.000700 0.00175	0.000700	mg/kg	10.02.2020 18:59	U	1
Total Xylenes	1330-20-7	<0.000700	0.000700	mg/kg	10.02.2020 18:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	113	53 - 142	%		
1,2-Dichloroethane-D4	110	56 - 150	%		
Toluene-D8	91	70 - 130	%		
4-Bromofluorobenzene	98	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-04	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-015	Date Collected: 09.28.2020 08:30	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138984	Date Prep: 10.06.2020 10:00	Tech: ANJ
	Prep seq: 7712690	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.000240	0.000400	0.0000526	mg/L	10.06.2020 13:29	J	2

Analytical Method: Total RCRA Metals by SW6020A	Prep Method: 3010A
Analyst: DEP	% Moist:
Seq Number: 3138916	Date Prep: 10.05.2020 10:30
	Prep seq: 7712620
	Tech: DEP

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00651	0.00400	0.000246	mg/L	10.05.2020 22:06		1
Barium	7440-39-3	0.680	0.00400	0.000484	mg/L	10.05.2020 22:06		1
Cadmium	7440-43-9	0.000174	0.00200	0.000147	mg/L	10.05.2020 22:06	J	1
Chromium	7440-47-3	0.00779	0.00400	0.000525	mg/L	10.05.2020 22:06		1
Lead	7439-92-1	0.00688	0.00200	0.000152	mg/L	10.05.2020 22:06		1
Selenium	7782-49-2	0.00142	0.00200	0.000454	mg/L	10.05.2020 22:06	J	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 22:06	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-04	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-015	Date Collected: 09.28.2020 08:30	Date Received: 09.29.2020 10:30
Analytical Method: PAHs by SW846 8270D SIM		Prep Method: SW3511
Analyst: DNE	% Moist:	
Seq Number: 3139285	Date Prep: 10.05.2020 17:05	Tech: DNE
	Prep seq: 7712828	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	<0.000109	0.000199	0.000109	mg/L	10.08.2020 12:35	U	1
Acenaphthylene	208-96-8	<0.0000920	0.000199	0.0000920	mg/L	10.08.2020 12:35	U	1
Anthracene	120-12-7	<0.0000947	0.000199	0.0000947	mg/L	10.08.2020 12:35	U	1
Benzo(a)anthracene	56-55-3	<0.000147	0.000199	0.000147	mg/L	10.08.2020 12:35	U	1
Benzo(a)pyrene	50-32-8	<0.0000624	0.000199	0.0000624	mg/L	10.08.2020 12:35	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000777	0.000199	0.0000777	mg/L	10.08.2020 12:35	U	1
Benzo(g,h,i)perylene	191-24-2	0.000132	0.000199	0.000124	mg/L	10.08.2020 12:35	J	1
Benzo(k)fluoranthene	207-08-9	<0.000127	0.000199	0.000127	mg/L	10.08.2020 12:35	U	1
Chrysene	218-01-9	<0.000171	0.000199	0.000171	mg/L	10.08.2020 12:35	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000831	0.000199	0.0000831	mg/L	10.08.2020 12:35	U	1
Fluoranthene	206-44-0	0.000172	0.000199	0.000172	mg/L	10.08.2020 12:35	J	1
Fluorene	86-73-7	0.000238	0.000199	0.000110	mg/L	10.08.2020 12:35		1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.0000998	0.000199	0.0000998	mg/L	10.08.2020 12:35	U	1
Naphthalene	91-20-3	0.00125	0.000397	0.000106	mg/L	10.08.2020 12:35		1
Phenanthrene	85-01-8	<0.0000930	0.000199	0.0000930	mg/L	10.08.2020 12:35	U	1
Pyrene	129-00-0	0.000337	0.000199	0.000142	mg/L	10.08.2020 12:35		1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	69	54 - 146	%		
Nitrobenzene-d5	71	46 - 151	%		
Terphenyl-D14	48	51 - 139	%		**

Analytical Method: TPH by Texas1005	Prep Method: 1005
Analyst: ISU	% Moist:
Seq Number: 3138845	Date Prep: 10.02.2020 15:01
	Tech: ISU
	Prep seq: 7712558

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	1.41	4.78	0.845	mg/L	10.02.2020 20:25	J	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	167	4.78	0.824	mg/L	10.02.2020 20:25	X	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	39.2	4.78	0.824	mg/L	10.02.2020 20:25		1
Total TPH	PHC635	208		0.824	mg/L	10.02.2020 20:25		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	89	70 - 130	%		
1-Chlorooctane	96	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-04	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-015	Date Collected: 09.28.2020 08:30	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	Tech: SAD
	Prep seq: 7712525	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 03:19	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 03:19	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 03:19	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 03:19	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 03:19	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 03:19	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 03:19	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 03:19	U	1
Sec-Butylbenzene	135-98-8	0.000740	0.00100	0.000199	mg/L	10.02.2020 03:19	J	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 03:19	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 03:19	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 03:19	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 03:19	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 03:19	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 03:19	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 03:19	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 03:19	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 03:19	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 03:19	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 03:19	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 03:19	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 03:19	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 03:19	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 03:19	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 03:19	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 03:19	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 03:19	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 03:19	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.02.2020 03:19	U	1
cis-1,2-Dichloroethylene	156-59-2	0.000290	0.00100	0.000174	mg/L	10.02.2020 03:19	J	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 03:19	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 03:19	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 03:19	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 03:19	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 03:19	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 03:19	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 03:19	U	1
Ethylbenzene	100-41-4	0.000380	0.00100	0.000146	mg/L	10.02.2020 03:19	J	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:19	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.02.2020 03:19	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 03:19	U	1
MTBE	1634-04-4	0.00127	0.00500	0.000571	mg/L	10.02.2020 03:19	J	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 03:19	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-04	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-015	Date Collected: 09.28.2020 08:30	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	

Parameter	CAS Number	Prep seq: 7712525 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.02.2020 03:19	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 03:19	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 03:19	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 03:19	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 03:19	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 03:19	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:19	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:19	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 03:19	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 03:19	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.02.2020 03:19	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 03:19	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 03:19	U	1
1,2,4-Trimethylbenzene	95-63-6	0.000390	0.00100	0.000252	mg/L	10.02.2020 03:19	J	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 03:19	U	1
o-Xylene	95-47-6	0.000500	0.00100	0.000192	mg/L	10.02.2020 03:19	J	1
m,p-Xylenes	179601-23-1	0.000640	0.0100	0.000330	mg/L	10.02.2020 03:19	J	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 03:19	U	1
Total Xylenes	1330-20-7	0.00114		0.000192	mg/L	10.02.2020 03:19		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	108	75 - 131	%		
1,2-Dichloroethane-D4	116	63 - 144	%		
Toluene-D8	101	80 - 117	%		
4-Bromofluorobenzene	94	74 - 124	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-05	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-016	Date Collected: 09.28.2020 10:00	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138905	Date Prep: 10.05.2020 10:00	Tech: ANJ
	Prep seq: 7712609	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	10.05.2020 14:04	U	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3138916	Date Prep: 10.05.2020 10:30	Tech: DEP
	Prep seq: 7712620	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.000874	0.00400	0.000246	mg/L	10.05.2020 22:09	J	1
Barium	7440-39-3	0.0791	0.00400	0.000484	mg/L	10.05.2020 22:09		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.05.2020 22:09	U	1
Chromium	7440-47-3	0.00111	0.00400	0.000525	mg/L	10.05.2020 22:09	J	1
Lead	7439-92-1	0.000369	0.00200	0.000152	mg/L	10.05.2020 22:09	J	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.05.2020 22:09	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 22:09	U	1

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3138845	Date Prep: 10.02.2020 15:07	Tech: ISU
	Prep seq: 7712558	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.848	4.79	0.848	mg/L	10.02.2020 21:06	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.827	4.79	0.827	mg/L	10.02.2020 21:06	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.827	4.79	0.827	mg/L	10.02.2020 21:06	U	1
Total TPH	PHC635	<0.827		0.827	mg/L	10.02.2020 21:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	97	70 - 130	%		
1-Chlorooctane	86	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T2 TMW-05**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673823-016

Date Collected: 09.28.2020 10:00

Date Received: 09.29.2020 10:30

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: SAD

% Moist:

Seq Number: 3138710

Date Prep: 10.01.2020 17:30

Tech: SAD

Prep seq: 7712525

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 03:39	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 03:39	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 03:39	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 03:39	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 03:39	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 03:39	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 03:39	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 03:39	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.02.2020 03:39	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 03:39	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 03:39	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 03:39	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 03:39	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 03:39	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 03:39	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 03:39	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 03:39	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 03:39	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 03:39	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 03:39	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 03:39	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 03:39	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 03:39	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 03:39	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 03:39	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 03:39	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 03:39	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 03:39	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.02.2020 03:39	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.02.2020 03:39	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 03:39	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 03:39	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 03:39	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 03:39	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 03:39	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 03:39	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 03:39	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.02.2020 03:39	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:39	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.02.2020 03:39	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 03:39	U	1
MTBE	1634-04-4	0.0103	0.00500	0.000571	mg/L	10.02.2020 03:39		1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 03:39	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-05	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-016	Date Collected: 09.28.2020 10:00	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	

Parameter	CAS Number	Prep seq: 7712525 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.02.2020 03:39	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 03:39	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 03:39	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 03:39	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 03:39	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 03:39	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:39	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:39	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 03:39	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 03:39	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.02.2020 03:39	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 03:39	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 03:39	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.02.2020 03:39	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 03:39	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.02.2020 03:39	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.02.2020 03:39	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 03:39	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	10.02.2020 03:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	102	75 - 131	%		
1,2-Dichloroethane-D4	110	63 - 144	%		
Toluene-D8	97	80 - 117	%		
4-Bromofluorobenzene	90	74 - 124	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-06	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-017	Date Collected: 09.28.2020 09:12	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138984	Date Prep: 10.06.2020 10:00	Tech: ANJ
	Prep seq: 7712690	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0000920	0.000200	0.0000263	mg/L	10.06.2020 13:12	JX	1

Analytical Method: Total RCRA Metals by SW6020A	Prep Method: 3010A
Analyst: DEP	% Moist:
Seq Number: 3138916	Date Prep: 10.05.2020 10:30
	Prep seq: 7712620
	Tech: DEP

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00130	0.00400	0.000246	mg/L	10.05.2020 22:12	J	1
Barium	7440-39-3	0.0602	0.00400	0.000484	mg/L	10.05.2020 22:12		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.05.2020 22:12	U	1
Chromium	7440-47-3	0.000631	0.00400	0.000525	mg/L	10.05.2020 22:12	J	1
Lead	7439-92-1	0.000294	0.00200	0.000152	mg/L	10.05.2020 22:12	J	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.05.2020 22:12	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 22:12	U	1

Analytical Method: TPH by Texas1005	Prep Method: 1005
Analyst: ISU	% Moist:
Seq Number: 3138845	Date Prep: 10.02.2020 15:10
	Prep seq: 7712558
	Tech: ISU

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.880	4.97	0.880	mg/L	10.02.2020 21:46	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.858	4.97	0.858	mg/L	10.02.2020 21:46	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.858	4.97	0.858	mg/L	10.02.2020 21:46	U	1
Total TPH	PHC635	<0.858		0.858	mg/L	10.02.2020 21:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	96	70 - 130	%		
1-Chlorooctane	87	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T2 TMW-06**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673823-017

Date Collected: 09.28.2020 09:12

Date Received: 09.29.2020 10:30

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: SAD

% Moist:

Seq Number: 3138710

Date Prep: 10.01.2020 17:30

Tech: SAD

Prep seq: 7712525

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 03:59	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 03:59	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 03:59	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 03:59	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 03:59	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 03:59	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 03:59	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 03:59	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.02.2020 03:59	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 03:59	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 03:59	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 03:59	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 03:59	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 03:59	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 03:59	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 03:59	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 03:59	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 03:59	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 03:59	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 03:59	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 03:59	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 03:59	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 03:59	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 03:59	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 03:59	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 03:59	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 03:59	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 03:59	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.02.2020 03:59	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.02.2020 03:59	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 03:59	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 03:59	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 03:59	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 03:59	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 03:59	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 03:59	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 03:59	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.02.2020 03:59	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:59	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.02.2020 03:59	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 03:59	U	1
MTBE	1634-04-4	0.00518	0.00500	0.000571	mg/L	10.02.2020 03:59		1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 03:59	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-06	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-017	Date Collected: 09.28.2020 09:12	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	

Parameter	CAS Number	Prep seq: 7712525 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.02.2020 03:59	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 03:59	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 03:59	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 03:59	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 03:59	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 03:59	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:59	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 03:59	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 03:59	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 03:59	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.02.2020 03:59	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 03:59	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 03:59	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.02.2020 03:59	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 03:59	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.02.2020 03:59	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.02.2020 03:59	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 03:59	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	10.02.2020 03:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	104	75 - 131	%		
1,2-Dichloroethane-D4	104	63 - 144	%		
Toluene-D8	99	80 - 117	%		
4-Bromofluorobenzene	98	74 - 124	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-07	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-018	Date Collected: 09.28.2020 13:00	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138984	Date Prep: 10.06.2020 10:00	Tech: ANJ
	Prep seq: 7712690	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0000580	0.000200	0.0000263	mg/L	10.06.2020 13:36	J	1

Analytical Method: Total RCRA Metals by SW6020A	Prep Method: 3010A
Analyst: DEP	% Moist:
Seq Number: 3138916	Date Prep: 10.05.2020 10:30
	Prep seq: 7712620
	Tech: DEP

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00176	0.00400	0.000246	mg/L	10.05.2020 22:15	J	1
Barium	7440-39-3	0.0699	0.00400	0.000484	mg/L	10.05.2020 22:15		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.05.2020 22:15	U	1
Chromium	7440-47-3	0.000891	0.00400	0.000525	mg/L	10.05.2020 22:15	J	1
Lead	7439-92-1	<0.000152	0.00200	0.000152	mg/L	10.05.2020 22:15	U	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.05.2020 22:15	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 22:15	U	1

Analytical Method: TPH by Texas1005	Prep Method: 1005
Analyst: ISU	% Moist:
Seq Number: 3138845	Date Prep: 10.02.2020 15:13
	Prep seq: 7712558
	Tech: ISU

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.829	4.68	0.829	mg/L	10.02.2020 22:06	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.808	4.68	0.808	mg/L	10.02.2020 22:06	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.808	4.68	0.808	mg/L	10.02.2020 22:06	U	1
Total TPH	PHC635	<0.808		0.808	mg/L	10.02.2020 22:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	100	70 - 130	%		
1-Chlorooctane	89	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T2 TMW-07**

Matrix: Ground Water

Sample Depth:

Lab Sample Id: 673823-018

Date Collected: 09.28.2020 13:00

Date Received: 09.29.2020 10:30

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: SAD

% Moist:

Seq Number: 3138710

Date Prep: 10.01.2020 17:30

Tech: SAD

Prep seq: 7712525

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 04:19	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 04:19	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 04:19	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 04:19	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 04:19	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 04:19	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 04:19	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 04:19	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.02.2020 04:19	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 04:19	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 04:19	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 04:19	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 04:19	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 04:19	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 04:19	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 04:19	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 04:19	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 04:19	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 04:19	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 04:19	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 04:19	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 04:19	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 04:19	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 04:19	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 04:19	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 04:19	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 04:19	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 04:19	U	1
1,1-Dichloroethene	75-35-4	0.000440	0.00100	0.000216	mg/L	10.02.2020 04:19	J	1
cis-1,2-Dichloroethylene	156-59-2	0.0160	0.00100	0.000174	mg/L	10.02.2020 04:19		1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 04:19	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 04:19	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 04:19	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 04:19	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 04:19	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 04:19	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 04:19	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.02.2020 04:19	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:19	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.02.2020 04:19	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 04:19	U	1
MTBE	1634-04-4	0.00105	0.00500	0.000571	mg/L	10.02.2020 04:19	J	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 04:19	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-07	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-018	Date Collected: 09.28.2020 13:00	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	

Parameter	CAS Number	Prep seq: 7712525 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.02.2020 04:19	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 04:19	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 04:19	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 04:19	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 04:19	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 04:19	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:19	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:19	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 04:19	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 04:19	U	1
Trichloroethylene	79-01-6	0.0125	0.00500	0.000424	mg/L	10.02.2020 04:19		1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 04:19	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 04:19	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.02.2020 04:19	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 04:19	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.02.2020 04:19	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.02.2020 04:19	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 04:19	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	10.02.2020 04:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	104	75 - 131	%		
1,2-Dichloroethane-D4	107	63 - 144	%		
Toluene-D8	99	80 - 117	%		
4-Bromofluorobenzene	89	74 - 124	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-08	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-019	Date Collected: 09.28.2020 11:00	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138984	Date Prep: 10.06.2020 10:00	Tech: ANJ
	Prep seq: 7712690	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0000550	0.000200	0.0000263	mg/L	10.06.2020 13:38	J	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3138916	Date Prep: 10.05.2020 10:30	Tech: DEP
	Prep seq: 7712620	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00290	0.00400	0.000246	mg/L	10.05.2020 22:18	J	1
Barium	7440-39-3	0.302	0.00400	0.000484	mg/L	10.05.2020 22:18		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.05.2020 22:18	U	1
Chromium	7440-47-3	0.00512	0.00400	0.000525	mg/L	10.05.2020 22:18		1
Lead	7439-92-1	0.00554	0.00200	0.000152	mg/L	10.05.2020 22:18		1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.05.2020 22:18	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 22:18	U	1

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3138845	Date Prep: 10.02.2020 15:16	Tech: ISU
	Prep seq: 7712558	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.827	4.67	0.827	mg/L	10.02.2020 22:27	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.807	4.67	0.807	mg/L	10.02.2020 22:27	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.807	4.67	0.807	mg/L	10.02.2020 22:27	U	1
Total TPH	PHC635	<0.807		0.807	mg/L	10.02.2020 22:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	89	70 - 130	%		
1-Chlorooctane	77	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-08	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-019	Date Collected: 09.28.2020 11:00	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	Tech: SAD
	Prep seq: 7712525	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 04:38	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 04:38	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 04:38	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 04:38	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 04:38	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 04:38	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 04:38	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 04:38	U	1
Sec-Butylbenzene	135-98-8	0.00109	0.00100	0.000199	mg/L	10.02.2020 04:38		1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 04:38	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 04:38	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 04:38	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 04:38	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 04:38	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 04:38	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 04:38	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 04:38	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 04:38	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 04:38	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 04:38	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 04:38	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 04:38	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 04:38	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 04:38	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 04:38	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 04:38	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 04:38	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 04:38	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.02.2020 04:38	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.02.2020 04:38	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 04:38	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 04:38	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 04:38	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 04:38	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 04:38	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 04:38	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 04:38	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.02.2020 04:38	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:38	U	1
Isopropylbenzene	98-82-8	0.00183	0.00100	0.000161	mg/L	10.02.2020 04:38		1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 04:38	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	10.02.2020 04:38	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 04:38	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-08	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-019	Date Collected: 09.28.2020 11:00	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	

Parameter	CAS Number	Prep seq: 7712525 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	0.00538	0.00100	0.000179	mg/L	10.02.2020 04:38	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 04:38	U 1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 04:38	U 1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 04:38	U 1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 04:38	U 1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 04:38	U 1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:38	U 1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:38	U 1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 04:38	U 1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 04:38	U 1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.02.2020 04:38	U 1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 04:38	U 1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 04:38	U 1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.02.2020 04:38	U 1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 04:38	U 1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.02.2020 04:38	U 1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.02.2020 04:38	U 1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 04:38	U 1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	10.02.2020 04:38	U

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	106	75 - 131	%		
1,2-Dichloroethane-D4	110	63 - 144	%		
Toluene-D8	99	80 - 117	%		
4-Bromofluorobenzene	92	74 - 124	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-09	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-020	Date Collected: 09.28.2020 15:40	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138984	Date Prep: 10.06.2020 10:00	Tech: ANJ
	Prep seq: 7712690	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0000660	0.000200	0.0000263	mg/L	10.06.2020 13:40	J	1

Analytical Method: Total RCRA Metals by SW6020A	Prep Method: 3010A
Analyst: DEP	% Moist:
Seq Number: 3138916	Date Prep: 10.05.2020 10:30
	Prep seq: 7712620
	Tech: DEP

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00309	0.00400	0.000246	mg/L	10.05.2020 22:21	J	1
Barium	7440-39-3	0.172	0.00400	0.000484	mg/L	10.05.2020 22:21		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.05.2020 22:21	U	1
Chromium	7440-47-3	0.0262	0.00400	0.000525	mg/L	10.05.2020 22:21		1
Lead	7439-92-1	0.0118	0.00200	0.000152	mg/L	10.05.2020 22:21		1
Selenium	7782-49-2	0.000600	0.00200	0.000454	mg/L	10.05.2020 22:21	J	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 22:21	U	1

Analytical Method: TPH by Texas1005	Prep Method: 1005
Analyst: ISU	% Moist:
Seq Number: 3138845	Date Prep: 10.02.2020 15:19
	Prep seq: 7712558
	Tech: ISU

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.846	4.78	0.846	mg/L	10.02.2020 22:47	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.825	4.78	0.825	mg/L	10.02.2020 22:47	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.825	4.78	0.825	mg/L	10.02.2020 22:47	U	1
Total TPH	PHC635	<0.825		0.825	mg/L	10.02.2020 22:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	99	70 - 130	%		
1-Chlorooctane	89	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-09	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-020	Date Collected: 09.28.2020 15:40	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	Tech: SAD
	Prep seq: 7712525	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 04:59	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 04:59	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 04:59	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 04:59	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 04:59	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 04:59	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 04:59	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 04:59	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.02.2020 04:59	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 04:59	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 04:59	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 04:59	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 04:59	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 04:59	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 04:59	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 04:59	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 04:59	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 04:59	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 04:59	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 04:59	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 04:59	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 04:59	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 04:59	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 04:59	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 04:59	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 04:59	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 04:59	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 04:59	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.02.2020 04:59	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.02.2020 04:59	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 04:59	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 04:59	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 04:59	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 04:59	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 04:59	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 04:59	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 04:59	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.02.2020 04:59	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:59	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.02.2020 04:59	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 04:59	U	1
MTBE	1634-04-4	0.00127	0.00500	0.000571	mg/L	10.02.2020 04:59	J	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 04:59	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-09	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-020	Date Collected: 09.28.2020 15:40	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	

Parameter	CAS Number	Prep seq: 7712525 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.02.2020 04:59	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 04:59	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 04:59	U	1
1,1,1,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 04:59	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 04:59	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 04:59	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:59	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 04:59	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 04:59	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 04:59	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.02.2020 04:59	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 04:59	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 04:59	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.02.2020 04:59	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 04:59	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.02.2020 04:59	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.02.2020 04:59	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 04:59	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	10.02.2020 04:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	100	75 - 131	%		
1,2-Dichloroethane-D4	101	63 - 144	%		
Toluene-D8	95	80 - 117	%		
4-Bromofluorobenzene	93	74 - 124	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-10	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-021	Date Collected: 09.28.2020 14:10	Date Received: 09.29.2020 10:30
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138984	Date Prep: 10.06.2020 10:00	Tech: ANJ
	Prep seq: 7712690	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0000290	0.000200	0.0000263	mg/L	10.06.2020 13:42	J	1

Analytical Method: Total RCRA Metals by SW6020A	Prep Method: 3010A
Analyst: DEP	% Moist:
Seq Number: 3138916	Date Prep: 10.05.2020 10:30
	Prep seq: 7712620
	Tech: DEP

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.000605	0.00400	0.000246	mg/L	10.05.2020 22:24	J	1
Barium	7440-39-3	0.119	0.00400	0.000484	mg/L	10.05.2020 22:24		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.05.2020 22:24	U	1
Chromium	7440-47-3	<0.000525	0.00400	0.000525	mg/L	10.05.2020 22:24	U	1
Lead	7439-92-1	<0.000152	0.00200	0.000152	mg/L	10.05.2020 22:24	U	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.05.2020 22:24	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 22:24	U	1

Analytical Method: TPH by Texas1005	Prep Method: 1005
Analyst: ISU	% Moist:
Seq Number: 3138845	Date Prep: 10.02.2020 15:22
	Prep seq: 7712558
	Tech: ISU

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.851	4.81	0.851	mg/L	10.02.2020 23:08	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.830	4.81	0.830	mg/L	10.02.2020 23:08	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.830	4.81	0.830	mg/L	10.02.2020 23:08	U	1
Total TPH	PHC635	<0.830		0.830	mg/L	10.02.2020 23:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	96	70 - 130	%		
1-Chlorooctane	84	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-10	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-021	Date Collected: 09.28.2020 14:10	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138848	Date Prep: 10.02.2020 17:00	Tech: SAD
	Prep seq: 7712629	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 19:10	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 19:10	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 19:10	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 19:10	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 19:10	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 19:10	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 19:10	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 19:10	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.02.2020 19:10	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 19:10	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 19:10	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 19:10	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 19:10	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 19:10	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 19:10	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 19:10	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 19:10	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 19:10	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 19:10	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 19:10	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 19:10	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 19:10	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 19:10	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 19:10	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 19:10	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 19:10	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 19:10	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 19:10	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.02.2020 19:10	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.02.2020 19:10	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 19:10	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 19:10	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 19:10	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 19:10	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 19:10	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 19:10	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 19:10	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.02.2020 19:10	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 19:10	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.02.2020 19:10	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 19:10	U	1
MTBE	1634-04-4	0.00113	0.00500	0.000571	mg/L	10.02.2020 19:10	J	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 19:10	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2 TMW-10	Matrix: Ground Water	Sample Depth:
Lab Sample Id: 673823-021	Date Collected: 09.28.2020 14:10	Date Received: 09.29.2020 10:30
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138848	Date Prep: 10.02.2020 17:00	

Parameter	CAS Number	Prep seq: 7712629 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.02.2020 19:10	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 19:10	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 19:10	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 19:10	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 19:10	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 19:10	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 19:10	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 19:10	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 19:10	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 19:10	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.02.2020 19:10	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 19:10	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 19:10	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.02.2020 19:10	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 19:10	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.02.2020 19:10	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.02.2020 19:10	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 19:10	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	10.02.2020 19:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	87	75 - 131	%		
1,2-Dichloroethane-D4	90	63 - 144	%		
Toluene-D8	99	80 - 117	%		
4-Bromofluorobenzene	108	74 - 124	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712499-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712499-1-BLK	Date Collected:	Date Received:
Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3138856	Date Prep: 10.02.2020 10:20	Tech: ISU
	Prep seq: 7712499	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<21.1	50.0	21.1	mg/kg	10.03.2020 01:30	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<21.1	50.0	21.1	mg/kg	10.03.2020 01:30	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<21.1	50.0	21.1	mg/kg	10.03.2020 01:30	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	101	70 - 130	%		
1-Chlorooctane	107	70 - 130	%		

Sample Id: 7712500-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712500-1-BLK	Date Collected:	Date Received:
Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3138811	Date Prep: 10.02.2020 11:05	Tech: ISU
	Prep seq: 7712500	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<21.1	50.0	21.1	mg/kg	10.02.2020 18:01	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<21.1	50.0	21.1	mg/kg	10.02.2020 18:01	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<21.1	50.0	21.1	mg/kg	10.02.2020 18:01	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	94	70 - 130	%		
1-Chlorooctane	100	70 - 130	%		

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ESE Partners, Katy, TX
 Yellow Cab Tract 2

Sample Id: 7712514-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712514-1-BLK	Date Collected:	Date Received:
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3051
Analyst: DEP	% Moist:	
Seq Number: 3138754	Date Prep: 10.02.2020 11:50	Tech: DEP
	Prep seq: 7712514	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	<0.0541	0.351	0.0541	mg/kg	10.02.2020 13:17	U	1
Barium	7440-39-3	<0.0304	0.351	0.0304	mg/kg	10.02.2020 13:17	U	1
Cadmium	7440-43-9	<0.0102	0.175	0.0102	mg/kg	10.02.2020 13:17	U	1
Chromium	7440-47-3	<0.0238	0.351	0.0238	mg/kg	10.02.2020 13:17	U	1
Lead	7439-92-1	<0.0170	0.175	0.0170	mg/kg	10.02.2020 13:17	U	1
Selenium	7782-49-2	<0.0435	0.175	0.0435	mg/kg	10.02.2020 13:17	U	1
Silver	7440-22-4	<0.0139	0.175	0.0139	mg/kg	10.02.2020 13:17	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **7712525-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 7712525-1-BLK

Date Collected:

Date Received:

Analytical Method: VOCs by SW-846 8260C

Prep Method: 5030B

Analyst: SAD

% Moist:

Seq Number: 3138710

Date Prep: 10.01.2020 17:30

Tech: SAD

Prep seq: 7712525

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.01.2020 22:41	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.01.2020 22:41	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.01.2020 22:41	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.01.2020 22:41	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.01.2020 22:41	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.01.2020 22:41	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.01.2020 22:41	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.01.2020 22:41	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.01.2020 22:41	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.01.2020 22:41	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.01.2020 22:41	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.01.2020 22:41	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.01.2020 22:41	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.01.2020 22:41	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.01.2020 22:41	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.01.2020 22:41	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.01.2020 22:41	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.01.2020 22:41	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.01.2020 22:41	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.01.2020 22:41	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.01.2020 22:41	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.01.2020 22:41	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.01.2020 22:41	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.01.2020 22:41	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.01.2020 22:41	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.01.2020 22:41	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.01.2020 22:41	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.01.2020 22:41	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.01.2020 22:41	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.01.2020 22:41	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.01.2020 22:41	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.01.2020 22:41	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.01.2020 22:41	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.01.2020 22:41	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.01.2020 22:41	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.01.2020 22:41	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.01.2020 22:41	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.01.2020 22:41	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.01.2020 22:41	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.01.2020 22:41	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.01.2020 22:41	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	10.01.2020 22:41	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.01.2020 22:41	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712525-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712525-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138710	Date Prep: 10.01.2020 17:30	

Parameter	CAS Number	Prep seq: 7712525 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.01.2020 22:41	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.01.2020 22:41	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.01.2020 22:41	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.01.2020 22:41	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.01.2020 22:41	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.01.2020 22:41	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.01.2020 22:41	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.01.2020 22:41	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.01.2020 22:41	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.01.2020 22:41	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.01.2020 22:41	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.01.2020 22:41	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.01.2020 22:41	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.01.2020 22:41	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.01.2020 22:41	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.01.2020 22:41	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.01.2020 22:41	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.01.2020 22:41	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	100	75 - 131	%		
1,2-Dichloroethane-D4	118	63 - 144	%		
Toluene-D8	100	80 - 117	%		
4-Bromofluorobenzene	98	74 - 124	%		

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ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id: 7712558-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712558-1-BLK	Date Collected:	Date Received:
Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3138845	Date Prep: 10.02.2020 14:40	Tech: ISU
	Prep seq: 7712558	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	<0.885	5.00	0.885	mg/L	10.02.2020 18:01	U	1
>C12-C28 Diesel Range Hydrocarbons	PHCG1228	<0.863	5.00	0.863	mg/L	10.02.2020 18:01	U	1
>C28-C35 Oil Range Hydrocarbons	PHCG2835	<0.863	5.00	0.863	mg/L	10.02.2020 18:01	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	96	70 - 130	%		
1-Chlorooctane	86	70 - 130	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712582-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712582-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist:	
Seq Number: 3138775	Date Prep: 10.02.2020 07:20	Tech: SAD
	Prep seq: 7712582	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	10.02.2020 13:55	U	1
Bromobenzene	108-86-1	<0.000346	0.00500	0.000346	mg/kg	10.02.2020 13:55	U	1
Bromochloromethane	74-97-5	<0.000526	0.00500	0.000526	mg/kg	10.02.2020 13:55	U	1
Bromodichloromethane	75-27-4	<0.000251	0.00500	0.000251	mg/kg	10.02.2020 13:55	U	1
Bromoform	75-25-2	<0.00103	0.00500	0.00103	mg/kg	10.02.2020 13:55	U	1
Methyl bromide	74-83-9	<0.000943	0.00500	0.000943	mg/kg	10.02.2020 13:55	U	1
2-Butanone	78-93-3	<0.00365	0.0200	0.00365	mg/kg	10.02.2020 13:55	U	1
tert-Butylbenzene	98-06-6	<0.00128	0.00500	0.00128	mg/kg	10.02.2020 13:55	U	1
Sec-Butylbenzene	135-98-8	<0.000261	0.00500	0.000261	mg/kg	10.02.2020 13:55	U	1
n-Butylbenzene	104-51-8	<0.000274	0.00500	0.000274	mg/kg	10.02.2020 13:55	U	1
Carbon Tetrachloride	56-23-5	<0.00164	0.00500	0.00164	mg/kg	10.02.2020 13:55	U	1
Chlorobenzene	108-90-7	<0.000237	0.00500	0.000237	mg/kg	10.02.2020 13:55	U	1
Chloroethane	75-00-3	<0.000444	0.0100	0.000444	mg/kg	10.02.2020 13:55	U	1
Chloroform	67-66-3	<0.000173	0.00500	0.000173	mg/kg	10.02.2020 13:55	U	1
Methyl Chloride	74-87-3	<0.000431	0.00500	0.000431	mg/kg	10.02.2020 13:55	U	1
2-Chlorotoluene	95-49-8	<0.000342	0.00500	0.000342	mg/kg	10.02.2020 13:55	U	1
4-Chlorotoluene	106-43-4	<0.000264	0.00500	0.000264	mg/kg	10.02.2020 13:55	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000319	0.00500	0.000319	mg/kg	10.02.2020 13:55	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000704	0.00500	0.000704	mg/kg	10.02.2020 13:55	U	1
Dibromochloromethane	124-48-1	<0.000895	0.00500	0.000895	mg/kg	10.02.2020 13:55	U	1
1,2-Dibromoethane	106-93-4	<0.00104	0.00500	0.00104	mg/kg	10.02.2020 13:55	U	1
Methylene Bromide	74-95-3	<0.000371	0.00500	0.000371	mg/kg	10.02.2020 13:55	U	1
1,2-Dichlorobenzene	95-50-1	<0.000288	0.00500	0.000288	mg/kg	10.02.2020 13:55	U	1
1,3-Dichlorobenzene	541-73-1	<0.000273	0.00500	0.000273	mg/kg	10.02.2020 13:55	U	1
1,4-Dichlorobenzene	106-46-7	<0.000214	0.00500	0.000214	mg/kg	10.02.2020 13:55	U	1
Dichlorodifluoromethane	75-71-8	<0.00111	0.00500	0.00111	mg/kg	10.02.2020 13:55	U	1
1,2-Dichloroethane	107-06-2	<0.000304	0.00500	0.000304	mg/kg	10.02.2020 13:55	U	1
1,1-Dichloroethane	75-34-3	<0.000376	0.00500	0.000376	mg/kg	10.02.2020 13:55	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000434	0.00500	0.000434	mg/kg	10.02.2020 13:55	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000301	0.00500	0.000301	mg/kg	10.02.2020 13:55	U	1
1,1-Dichloroethene	75-35-4	<0.000277	0.00500	0.000277	mg/kg	10.02.2020 13:55	U	1
2,2-Dichloropropane	594-20-7	<0.000524	0.00500	0.000524	mg/kg	10.02.2020 13:55	U	1
1,3-Dichloropropane	142-28-9	<0.000409	0.00500	0.000409	mg/kg	10.02.2020 13:55	U	1
1,2-Dichloropropane	78-87-5	<0.000198	0.00500	0.000198	mg/kg	10.02.2020 13:55	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000909	0.00500	0.000909	mg/kg	10.02.2020 13:55	U	1
1,1-Dichloropropene	563-58-6	<0.000448	0.00500	0.000448	mg/kg	10.02.2020 13:55	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000230	0.00500	0.000230	mg/kg	10.02.2020 13:55	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100	0.000336	mg/kg	10.02.2020 13:55	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/kg	10.02.2020 13:55	U	1
Isopropylbenzene	98-82-8	<0.000174	0.00500	0.000174	mg/kg	10.02.2020 13:55	U	1
Methylene Chloride	75-09-2	<0.00422	0.0200	0.00422	mg/kg	10.02.2020 13:55	U	1
MTBE	1634-04-4	<0.000409	0.00500	0.000409	mg/kg	10.02.2020 13:55	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/kg	10.02.2020 13:55	U	1

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: **7712582-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7712582-1-BLK Date Collected: Date Received:
 Analytical Method: VOCs by SW-846 8260C Prep Method: 5035A
 Analyst: SAD % Moist: Tech: SAD
 Seq Number: 3138775 Date Prep: 10.02.2020 07:20

Parameter	CAS Number	Prep seq: 7712582 Result	MLQ	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000286	0.00500	0.000286	mg/kg	10.02.2020 13:55	U	1
Styrene	100-42-5	<0.000205	0.00500	0.000205	mg/kg	10.02.2020 13:55	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000267	0.00500	0.000267	mg/kg	10.02.2020 13:55	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000470	0.00500	0.000470	mg/kg	10.02.2020 13:55	U	1
Tetrachloroethylene	127-18-4	<0.000370	0.00500	0.000370	mg/kg	10.02.2020 13:55	U	1
Toluene	108-88-3	<0.00100	0.00500	0.00100	mg/kg	10.02.2020 13:55	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/kg	10.02.2020 13:55	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/kg	10.02.2020 13:55	U	1
1,1,2-Trichloroethane	79-00-5	<0.000392	0.00500	0.000392	mg/kg	10.02.2020 13:55	U	1
1,1,1-Trichloroethane	71-55-6	<0.000503	0.00500	0.000503	mg/kg	10.02.2020 13:55	U	1
Trichloroethylene	79-01-6	<0.000494	0.00500	0.000494	mg/kg	10.02.2020 13:55	U	1
Trichlorofluoromethane	75-69-4	<0.000307	0.00500	0.000307	mg/kg	10.02.2020 13:55	U	1
1,2,3-Trichloropropane	96-18-4	<0.000450	0.00500	0.000450	mg/kg	10.02.2020 13:55	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000255	0.00500	0.000255	mg/kg	10.02.2020 13:55	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000289	0.00500	0.000289	mg/kg	10.02.2020 13:55	U	1
Vinyl Chloride	75-01-4	<0.000441	0.00500	0.000441	mg/kg	10.02.2020 13:55	U	1
o-Xylene	95-47-6	<0.000985	0.00100	0.000985	mg/kg	10.02.2020 13:55	U	1
m,p-Xylenes	179601-23-1	<0.000800	0.00200	0.000800	mg/kg	10.02.2020 13:55	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	112	53 - 142	%		
1,2-Dichloroethane-D4	103	56 - 150	%		
Toluene-D8	92	70 - 130	%		
4-Bromofluorobenzene	100	68 - 152	%		

Sample Id: **7712602-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7712602-1-BLK Date Collected: Date Received:
 Analytical Method: Mercury by SW 7471A Prep Method: SW7471P
 Analyst: ANJ % Moist:
 Seq Number: 3138838 Date Prep: 10.05.2020 09:00 Tech: ANJ
 Prep seq: 7712602

Parameter	CAS Number	Result	MLQ	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.00349	0.0182	0.00349	mg/kg	10.05.2020 11:19	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712609-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712609-1-BLK	Date Collected:	Date Received:
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138905	Date Prep: 10.05.2020 10:00	Tech: ANJ
	Prep seq: 7712609	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	10.05.2020 13:33	U	1

Sample Id: 7712620-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712620-1-BLK	Date Collected:	Date Received:
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3138916	Date Prep: 10.05.2020 10:30	Tech: DEP
	Prep seq: 7712620	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	<0.000246	0.00400	0.000246	mg/L	10.05.2020 21:32	U	1
Barium	7440-39-3	<0.000484	0.00400	0.000484	mg/L	10.05.2020 21:32	U	1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.05.2020 21:32	U	1
Chromium	7440-47-3	<0.000525	0.00400	0.000525	mg/L	10.05.2020 21:32	U	1
Lead	7439-92-1	<0.000152	0.00200	0.000152	mg/L	10.05.2020 21:32	U	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.05.2020 21:32	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.05.2020 21:32	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712629-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712629-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138848	Date Prep: 10.02.2020 15:30	Tech: SAD
	Prep seq: 7712629	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.02.2020 16:43	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.02.2020 16:43	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.02.2020 16:43	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.02.2020 16:43	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.02.2020 16:43	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.02.2020 16:43	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.02.2020 16:43	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.02.2020 16:43	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.02.2020 16:43	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.02.2020 16:43	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.02.2020 16:43	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.02.2020 16:43	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.02.2020 16:43	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.02.2020 16:43	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.02.2020 16:43	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.02.2020 16:43	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.02.2020 16:43	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.02.2020 16:43	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.02.2020 16:43	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.02.2020 16:43	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.02.2020 16:43	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.02.2020 16:43	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.02.2020 16:43	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.02.2020 16:43	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.02.2020 16:43	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.02.2020 16:43	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.02.2020 16:43	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.02.2020 16:43	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.02.2020 16:43	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.02.2020 16:43	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.02.2020 16:43	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.02.2020 16:43	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.02.2020 16:43	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.02.2020 16:43	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.02.2020 16:43	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.02.2020 16:43	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.02.2020 16:43	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.02.2020 16:43	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.02.2020 16:43	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.02.2020 16:43	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.02.2020 16:43	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	10.02.2020 16:43	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.02.2020 16:43	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712629-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712629-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138848	Date Prep: 10.02.2020 15:30	

Parameter	CAS Number	Prep seq: 7712629 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.02.2020 16:43	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.02.2020 16:43	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.02.2020 16:43	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.02.2020 16:43	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.02.2020 16:43	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.02.2020 16:43	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.02.2020 16:43	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.02.2020 16:43	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.02.2020 16:43	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.02.2020 16:43	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.02.2020 16:43	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.02.2020 16:43	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.02.2020 16:43	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.02.2020 16:43	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.02.2020 16:43	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.02.2020 16:43	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.02.2020 16:43	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.02.2020 16:43	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	104	75 - 131	%		
1,2-Dichloroethane-D4	98	63 - 144	%		
Toluene-D8	103	80 - 117	%		
4-Bromofluorobenzene	99	74 - 124	%		

Sample Id: 7712690-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712690-1-BLK	Date Collected:	Date Received:
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3138984	Date Prep: 10.06.2020 10:00	Tech: ANJ
	Prep seq: 7712690	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	10.06.2020 13:16	U	1

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: 7712713-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712713-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist:	
Seq Number: 3138983	Date Prep: 10.05.2020 19:00	Tech: SAD
	Prep seq: 7712713	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	10.06.2020 01:59	U	1
Bromobenzene	108-86-1	<0.000346	0.00500	0.000346	mg/kg	10.06.2020 01:59	U	1
Bromochloromethane	74-97-5	<0.000526	0.00500	0.000526	mg/kg	10.06.2020 01:59	U	1
Bromodichloromethane	75-27-4	<0.000251	0.00500	0.000251	mg/kg	10.06.2020 01:59	U	1
Bromoform	75-25-2	<0.00103	0.00500	0.00103	mg/kg	10.06.2020 01:59	U	1
Methyl bromide	74-83-9	<0.000943	0.00500	0.000943	mg/kg	10.06.2020 01:59	U	1
2-Butanone	78-93-3	<0.00365	0.0200	0.00365	mg/kg	10.06.2020 01:59	U	1
tert-Butylbenzene	98-06-6	<0.00128	0.00500	0.00128	mg/kg	10.06.2020 01:59	U	1
Sec-Butylbenzene	135-98-8	<0.000261	0.00500	0.000261	mg/kg	10.06.2020 01:59	U	1
n-Butylbenzene	104-51-8	<0.000274	0.00500	0.000274	mg/kg	10.06.2020 01:59	U	1
Carbon Tetrachloride	56-23-5	<0.00164	0.00500	0.00164	mg/kg	10.06.2020 01:59	U	1
Chlorobenzene	108-90-7	<0.000237	0.00500	0.000237	mg/kg	10.06.2020 01:59	U	1
Chloroethane	75-00-3	<0.000444	0.0100	0.000444	mg/kg	10.06.2020 01:59	U	1
Chloroform	67-66-3	<0.000173	0.00500	0.000173	mg/kg	10.06.2020 01:59	U	1
Methyl Chloride	74-87-3	<0.000431	0.00500	0.000431	mg/kg	10.06.2020 01:59	U	1
2-Chlorotoluene	95-49-8	<0.000342	0.00500	0.000342	mg/kg	10.06.2020 01:59	U	1
4-Chlorotoluene	106-43-4	<0.000264	0.00500	0.000264	mg/kg	10.06.2020 01:59	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000319	0.00500	0.000319	mg/kg	10.06.2020 01:59	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000704	0.00500	0.000704	mg/kg	10.06.2020 01:59	U	1
Dibromochloromethane	124-48-1	<0.000895	0.00500	0.000895	mg/kg	10.06.2020 01:59	U	1
1,2-Dibromoethane	106-93-4	<0.00104	0.00500	0.00104	mg/kg	10.06.2020 01:59	U	1
Methylene Bromide	74-95-3	<0.000371	0.00500	0.000371	mg/kg	10.06.2020 01:59	U	1
1,2-Dichlorobenzene	95-50-1	<0.000288	0.00500	0.000288	mg/kg	10.06.2020 01:59	U	1
1,3-Dichlorobenzene	541-73-1	<0.000273	0.00500	0.000273	mg/kg	10.06.2020 01:59	U	1
1,4-Dichlorobenzene	106-46-7	<0.000214	0.00500	0.000214	mg/kg	10.06.2020 01:59	U	1
Dichlorodifluoromethane	75-71-8	<0.00111	0.00500	0.00111	mg/kg	10.06.2020 01:59	U	1
1,2-Dichloroethane	107-06-2	<0.000304	0.00500	0.000304	mg/kg	10.06.2020 01:59	U	1
1,1-Dichloroethane	75-34-3	<0.000376	0.00500	0.000376	mg/kg	10.06.2020 01:59	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000434	0.00500	0.000434	mg/kg	10.06.2020 01:59	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000301	0.00500	0.000301	mg/kg	10.06.2020 01:59	U	1
1,1-Dichloroethene	75-35-4	<0.000277	0.00500	0.000277	mg/kg	10.06.2020 01:59	U	1
2,2-Dichloropropane	594-20-7	<0.000524	0.00500	0.000524	mg/kg	10.06.2020 01:59	U	1
1,3-Dichloropropane	142-28-9	<0.000409	0.00500	0.000409	mg/kg	10.06.2020 01:59	U	1
1,2-Dichloropropane	78-87-5	<0.000198	0.00500	0.000198	mg/kg	10.06.2020 01:59	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000909	0.00500	0.000909	mg/kg	10.06.2020 01:59	U	1
1,1-Dichloropropene	563-58-6	<0.000448	0.00500	0.000448	mg/kg	10.06.2020 01:59	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000230	0.00500	0.000230	mg/kg	10.06.2020 01:59	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100	0.000336	mg/kg	10.06.2020 01:59	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/kg	10.06.2020 01:59	U	1
Isopropylbenzene	98-82-8	<0.000174	0.00500	0.000174	mg/kg	10.06.2020 01:59	U	1
Methylene Chloride	75-09-2	<0.00422	0.0200	0.00422	mg/kg	10.06.2020 01:59	U	1
MTBE	1634-04-4	<0.000409	0.00500	0.000409	mg/kg	10.06.2020 01:59	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/kg	10.06.2020 01:59	U	1

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712713-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712713-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5035A
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138983	Date Prep: 10.05.2020 19:00	

Parameter	CAS Number	Prep seq: 7712713 Result MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000286 0.00500	0.000286	mg/kg	10.06.2020 01:59	U	1
Styrene	100-42-5	<0.000205 0.00500	0.000205	mg/kg	10.06.2020 01:59	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000267 0.00500	0.000267	mg/kg	10.06.2020 01:59	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000470 0.00500	0.000470	mg/kg	10.06.2020 01:59	U	1
Tetrachloroethylene	127-18-4	<0.000370 0.00500	0.000370	mg/kg	10.06.2020 01:59	U	1
Toluene	108-88-3	<0.00100 0.00500	0.00100	mg/kg	10.06.2020 01:59	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200 0.00500	0.00200	mg/kg	10.06.2020 01:59	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200 0.00500	0.00200	mg/kg	10.06.2020 01:59	U	1
1,1,2-Trichloroethane	79-00-5	<0.000392 0.00500	0.000392	mg/kg	10.06.2020 01:59	U	1
1,1,1-Trichloroethane	71-55-6	<0.000503 0.00500	0.000503	mg/kg	10.06.2020 01:59	U	1
Trichloroethylene	79-01-6	<0.000494 0.00500	0.000494	mg/kg	10.06.2020 01:59	U	1
Trichlorofluoromethane	75-69-4	<0.000307 0.00500	0.000307	mg/kg	10.06.2020 01:59	U	1
1,2,3-Trichloropropane	96-18-4	<0.000450 0.00500	0.000450	mg/kg	10.06.2020 01:59	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000255 0.00500	0.000255	mg/kg	10.06.2020 01:59	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000289 0.00500	0.000289	mg/kg	10.06.2020 01:59	U	1
Vinyl Chloride	75-01-4	<0.000441 0.00500	0.000441	mg/kg	10.06.2020 01:59	U	1
o-Xylene	95-47-6	<0.000985 0.00100	0.000985	mg/kg	10.06.2020 01:59	U	1
m,p-Xylenes	179601-23-1	<0.000800 0.00200	0.000800	mg/kg	10.06.2020 01:59	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	97	53 - 142	%		
1,2-Dichloroethane-D4	98	56 - 150	%		
Toluene-D8	100	70 - 130	%		
4-Bromofluorobenzene	102	68 - 152	%		

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712828-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712828-1-BLK	Date Collected:	Date Received:
Analytical Method: PAHs by SW846 8270D SIM		Prep Method: SW3511
Analyst: DNE	% Moist:	
Seq Number: 3139285	Date Prep: 10.05.2020 16:56	Tech: DNE
	Prep seq: 7712828	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	<0.000100	0.000182	0.0001000	mg/L	10.08.2020 11:43	U	1
Acenaphthylene	208-96-8	<0.0000842	0.000182	0.0000842	mg/L	10.08.2020 11:43	U	1
Anthracene	120-12-7	<0.0000866	0.000182	0.0000866	mg/L	10.08.2020 11:43	U	1
Benzo(a)anthracene	56-55-3	<0.000134	0.000182	0.000134	mg/L	10.08.2020 11:43	U	1
Benzo(a)pyrene	50-32-8	<0.0000571	0.000182	0.0000571	mg/L	10.08.2020 11:43	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000711	0.000182	0.0000711	mg/L	10.08.2020 11:43	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000113	0.000182	0.000113	mg/L	10.08.2020 11:43	U	1
Benzo(k)fluoranthene	207-08-9	<0.000116	0.000182	0.000116	mg/L	10.08.2020 11:43	U	1
Chrysene	218-01-9	<0.000156	0.000182	0.000156	mg/L	10.08.2020 11:43	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000760	0.000182	0.0000760	mg/L	10.08.2020 11:43	U	1
Fluoranthene	206-44-0	<0.000157	0.000182	0.000157	mg/L	10.08.2020 11:43	U	1
Fluorene	86-73-7	<0.000101	0.000182	0.000101	mg/L	10.08.2020 11:43	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.0000913	0.000182	0.0000913	mg/L	10.08.2020 11:43	U	1
Naphthalene	91-20-3	<0.0000972	0.000364	0.0000972	mg/L	10.08.2020 11:43	U	1
Phenanthrene	85-01-8	<0.0000850	0.000182	0.0000850	mg/L	10.08.2020 11:43	U	1
Pyrene	129-00-0	<0.000130	0.000182	0.000130	mg/L	10.08.2020 11:43	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	106	54 - 146	%		
Nitrobenzene-d5	111	46 - 151	%		
Terphenyl-D14	82	51 - 139	%		

Certificate of Analytical Results

673823

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712899-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712899-1-BLK	Date Collected:	Date Received:
Analytical Method: PAHs by SW846 8270D SIM		Prep Method: SW3546
Analyst: DNE	% Moist:	
Seq Number: 3139328	Date Prep: 10.09.2020 12:00	Tech: DNE
	Prep seq: 7712899	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	<0.00158	0.00333	0.00158	mg/kg	10.09.2020 13:57	U	2
Acenaphthylene	208-96-8	<0.00179	0.00333	0.00179	mg/kg	10.09.2020 13:57	U	2
Anthracene	120-12-7	<0.00218	0.00333	0.00218	mg/kg	10.09.2020 13:57	U	2
Benzo(a)anthracene	56-55-3	<0.00217	0.00333	0.00217	mg/kg	10.09.2020 13:57	U	2
Benzo(a)pyrene	50-32-8	<0.00244	0.00333	0.00244	mg/kg	10.09.2020 13:57	U	2
Benzo(b)fluoranthene	205-99-2	<0.00229	0.00333	0.00229	mg/kg	10.09.2020 13:57	U	2
Benzo(g,h,i)perylene	191-24-2	<0.00289	0.00333	0.00289	mg/kg	10.09.2020 13:57	U	2
Benzo(k)fluoranthene	207-08-9	<0.00198	0.00333	0.00198	mg/kg	10.09.2020 13:57	U	2
Chrysene	218-01-9	<0.00169	0.00333	0.00169	mg/kg	10.09.2020 13:57	U	2
Dibenz(a,h)anthracene	53-70-3	<0.00275	0.00333	0.00275	mg/kg	10.09.2020 13:57	U	2
Fluoranthene	206-44-0	<0.00267	0.00333	0.00267	mg/kg	10.09.2020 13:57	U	2
Fluorene	86-73-7	<0.00184	0.00333	0.00184	mg/kg	10.09.2020 13:57	U	2
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.00265	0.00333	0.00265	mg/kg	10.09.2020 13:57	U	2
Naphthalene	91-20-3	<0.00170	0.0333	0.00170	mg/kg	10.09.2020 13:57	U	2
Phenanthrene	85-01-8	<0.00202	0.00333	0.00202	mg/kg	10.09.2020 13:57	U	2
Pyrene	129-00-0	<0.00182	0.00333	0.00182	mg/kg	10.09.2020 13:57	U	2

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	84	34 - 104	%		
Nitrobenzene-d5	84	37 - 101	%		
Terphenyl-D14	79	37 - 117	%		

Certificate of Analytical Results

673823

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **7713112-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7713112-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aliphatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139673 Date Prep: 10.02.2020 10:20 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7713112

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<13.8	30.0	13.8	mg/kg	10.12.2020 17:50	U	1
C6 Aliphatic Hydrocarbons	ALHYDRC6	<6.23	20.0	6.23	mg/kg	10.12.2020 17:50	U	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	<2.18	5.00	2.18	mg/kg	10.12.2020 17:50	U	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10C	<2.04	5.00	2.04	mg/kg	10.12.2020 17:50	U	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12C	<4.31	5.00	4.31	mg/kg	10.12.2020 17:50	U	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16C	<4.34	5.00	4.34	mg/kg	10.12.2020 17:50	U	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21C	<18.4	20.0	18.4	mg/kg	10.12.2020 17:50	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	79	52 - 126	%		

Sample Id: **7713113-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7713113-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aromatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139674 Date Prep: 10.02.2020 10:20 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7713113

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<2.23	10.0	2.23	mg/kg	10.12.2020 18:14	U	1
C8 to C10 Aromatic Hydrocarbons		<2.18	5.00	2.18	mg/kg	10.12.2020 18:14	U	1
C10 to C12 Aromatic Hydrocarbons		<5.00	5.00	5.00	mg/kg	10.12.2020 18:14	U	1
C12 to C16 Aromatic Hydrocarbons		<2.87	5.00	2.87	mg/kg	10.12.2020 18:14	U	1
C16 to C21 Aromatic Hydrocarbons		<5.00	5.00	5.00	mg/kg	10.12.2020 18:14	U	1
C21 to C35 Aromatic Hydrocarbons		<15.1	20.0	15.1	mg/kg	10.12.2020 18:14	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	86	61 - 131	%		

Certificate of Analytical Results

673823

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **7713114-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7713114-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aliphatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139677 Date Prep: 10.02.2020 11:05 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7713114

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<13.8	30.0	13.8	mg/kg	10.12.2020 17:50	U	1
C6 Aliphatic Hydrocarbons	ALHYDRC6	<6.23	20.0	6.23	mg/kg	10.12.2020 17:50	U	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	<2.18	5.00	2.18	mg/kg	10.12.2020 17:50	U	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10C	<2.04	5.00	2.04	mg/kg	10.12.2020 17:50	U	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12C	<4.31	5.00	4.31	mg/kg	10.12.2020 17:50	U	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16C	<4.34	5.00	4.34	mg/kg	10.12.2020 17:50	U	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21C	<18.4	20.0	18.4	mg/kg	10.12.2020 17:50	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	79	52 - 126	%		

Sample Id: **7713115-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7713115-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aromatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139678 Date Prep: 10.02.2020 11:05 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7713115

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<2.23	10.0	2.23	mg/kg	10.12.2020 18:14	U	1
C8 to C10 Aromatic Hydrocarbons		<2.18	5.00	2.18	mg/kg	10.12.2020 18:14	U	1
C10 to C12 Aromatic Hydrocarbons		<5.00	5.00	5.00	mg/kg	10.12.2020 18:14	U	1
C12 to C16 Aromatic Hydrocarbons		<2.87	5.00	2.87	mg/kg	10.12.2020 18:14	U	1
C16 to C21 Aromatic Hydrocarbons		<5.00	5.00	5.00	mg/kg	10.12.2020 18:14	U	1
C21 to C35 Aromatic Hydrocarbons		<15.1	20.0	15.1	mg/kg	10.12.2020 18:14	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	86	61 - 131	%		

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture by SM2540G

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-06 (2-4)	673823-001	09.28.2020			09.30.2020	03.27.2021	
T2 TMW-07 (2-4)	673823-002	09.28.2020			09.30.2020	03.27.2021	
T2 TMW-08 (8-10)	673823-003	09.28.2020			09.30.2020	03.27.2021	
T2 TMW-09 (2-4)	673823-004	09.28.2020			09.30.2020	03.27.2021	
T2 TMW-10 (2-4)	673823-005	09.28.2020			09.30.2020	03.27.2021	
T2 TMW-04 (12-14)	673823-006	09.28.2020			09.30.2020	03.27.2021	
T2 TMW-05 (2-4)	673823-007	09.28.2020			09.30.2020	03.27.2021	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Total RCRA Metals by SW6020A

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-06 (2-4)	673823-001	09.28.2020	10.02.2020	03.27.2021	10.02.2020	03.31.2021	
T2 TMW-07 (2-4)	673823-002	09.28.2020	10.02.2020	03.27.2021	10.02.2020	03.31.2021	
T2 TMW-08 (8-10)	673823-003	09.28.2020	10.02.2020	03.27.2021	10.02.2020	03.31.2021	
T2 TMW-09 (2-4)	673823-004	09.28.2020	10.02.2020	03.27.2021	10.02.2020	03.31.2021	
T2 TMW-10 (2-4)	673823-005	09.28.2020	10.02.2020	03.27.2021	10.02.2020	03.31.2021	
T2 TMW-04 (12-14)	673823-006	09.28.2020	10.02.2020	03.27.2021	10.02.2020	03.31.2021	
T2 TMW-05 (2-4)	673823-007	09.28.2020	10.02.2020	03.27.2021	10.02.2020	03.31.2021	
T2 TMW-04	673823-015	09.28.2020	10.05.2020	03.27.2021	10.05.2020	04.03.2021	
T2 TMW-05	673823-016	09.28.2020	10.05.2020	03.27.2021	10.05.2020	04.03.2021	
T2 TMW-06	673823-017	09.28.2020	10.05.2020	03.27.2021	10.05.2020	04.03.2021	
T2 TMW-07	673823-018	09.28.2020	10.05.2020	03.27.2021	10.05.2020	04.03.2021	
T2 TMW-08	673823-019	09.28.2020	10.05.2020	03.27.2021	10.05.2020	04.03.2021	
T2 TMW-09	673823-020	09.28.2020	10.05.2020	03.27.2021	10.05.2020	04.03.2021	
T2 TMW-10	673823-021	09.28.2020	10.05.2020	03.27.2021	10.05.2020	04.03.2021	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Mercury by SW-846 7470A

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-04	673823-015	09.28.2020			10.06.2020	10.26.2020	
T2 TMW-05	673823-016	09.28.2020			10.05.2020	10.26.2020	
T2 TMW-06	673823-017	09.28.2020			10.06.2020	10.26.2020	
T2 TMW-07	673823-018	09.28.2020			10.06.2020	10.26.2020	
T2 TMW-08	673823-019	09.28.2020			10.06.2020	10.26.2020	
T2 TMW-09	673823-020	09.28.2020			10.06.2020	10.26.2020	
T2 TMW-10	673823-021	09.28.2020			10.06.2020	10.26.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Mercury by SW 7471A

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-06 (2-4)	673823-001	09.28.2020	10.05.2020	10.26.2020	10.05.2020	11.02.2020	
T2 TMW-07 (2-4)	673823-002	09.28.2020	10.05.2020	10.26.2020	10.05.2020	11.02.2020	
T2 TMW-08 (8-10)	673823-003	09.28.2020	10.05.2020	10.26.2020	10.05.2020	11.02.2020	
T2 TMW-09 (2-4)	673823-004	09.28.2020	10.05.2020	10.26.2020	10.05.2020	11.02.2020	
T2 TMW-10 (2-4)	673823-005	09.28.2020	10.05.2020	10.26.2020	10.05.2020	11.02.2020	
T2 TMW-04 (12-14)	673823-006	09.28.2020	10.05.2020	10.26.2020	10.05.2020	11.02.2020	
T2 TMW-05 (2-4)	673823-007	09.28.2020	10.05.2020	10.26.2020	10.05.2020	11.02.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOCs by SW-846 8260C

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-06 (2-4)	673823-001	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-07 (2-4)	673823-002	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-08 (8-10)	673823-003	09.28.2020			10.06.2020	10.12.2020	
T2 TMW-09 (2-4)	673823-004	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-10 (2-4)	673823-005	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-04 (12-14)	673823-006	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-05 (2-4)	673823-007	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-04	673823-015	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-05	673823-016	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-06	673823-017	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-07	673823-018	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-08	673823-019	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-09	673823-020	09.28.2020			10.02.2020	10.12.2020	
T2 TMW-10	673823-021	09.28.2020			10.02.2020	10.12.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : PAHs by SW846 8270D SIM

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-04 (12-14)	673823-006	09.28.2020	10.09.2020	10.12.2020	10.12.2020	11.18.2020	
T2 TMW-04	673823-015	09.28.2020	10.05.2020	10.05.2020	10.08.2020	11.14.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH by Texas1005

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-06 (2-4)	673823-001	09.28.2020	10.02.2020	10.12.2020	10.05.2020	10.16.2020	
T2 TMW-07 (2-4)	673823-002	09.28.2020	10.02.2020	10.12.2020	10.05.2020	10.16.2020	
T2 TMW-08 (8-10)	673823-003	09.28.2020	10.02.2020	10.12.2020	10.05.2020	10.16.2020	
T2 TMW-09 (2-4)	673823-004	09.28.2020	10.02.2020	10.12.2020	10.05.2020	10.16.2020	
T2 TMW-10 (2-4)	673823-005	09.28.2020	10.02.2020	10.12.2020	10.05.2020	10.16.2020	
T2 TMW-04 (12-14)	673823-006	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-05 (2-4)	673823-007	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-04	673823-015	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-05	673823-016	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-06	673823-017	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-07	673823-018	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-08	673823-019	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-09	673823-020	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	
T2 TMW-10	673823-021	09.28.2020	10.02.2020	10.12.2020	10.02.2020	10.16.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH Speciation by Texas 1006 - Aliphatics

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-08 (8-10)	673823-003	09.28.2020	10.02.2020	10.14.2020	10.12.2020	10.16.2020	
T2 TMW-05 (2-4)	673823-007	09.28.2020	10.02.2020	10.14.2020	10.12.2020	10.16.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH Speciation by Texas 1006 - Aromatics

Client : ESE Partners

Work Order #: **673823**

Project ID: 20-0506

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2 TMW-08 (8-10)	673823-003	09.28.2020	10.02.2020	10.14.2020	10.12.2020	10.16.2020	
T2 TMW-05 (2-4)	673823-007	09.28.2020	10.02.2020	10.14.2020	10.12.2020	10.16.2020	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Analytical Method:	<u>Percent Moisture by SM2540G</u>	Batch #:	<u>3138492</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04 (12-14)</u>	<u>673823-006</u>	<u>SMP</u>
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>SMP</u>
<u>T2 TMW-06 (2-4)</u>	<u>673823-001</u>	<u>SMP</u>
<u>T2 TMW-07 (2-4)</u>	<u>673823-002</u>	<u>SMP</u>
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>SMP</u>
<u>T2 TMW-09 (2-4)</u>	<u>673823-004</u>	<u>SMP</u>
<u>T2 TMW-10 (2-4)</u>	<u>673823-005</u>	<u>SMP</u>
<u> </u>	<u>3138492-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>673583-002 D</u>	<u>MD</u>
<u> </u>	<u>673676-001 D</u>	<u>MD</u>

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138710</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04</u>	<u>673823-015</u>	<u>SMP</u>
<u>T2 TMW-05</u>	<u>673823-016</u>	<u>SMP</u>
<u>T2 TMW-06</u>	<u>673823-017</u>	<u>SMP</u>
<u>T2 TMW-07</u>	<u>673823-018</u>	<u>SMP</u>
<u>T2 TMW-08</u>	<u>673823-019</u>	<u>SMP</u>
<u>T2 TMW-09</u>	<u>673823-020</u>	<u>SMP</u>
<u> </u>	<u>673776-001 S</u>	<u>MS</u>
<u> </u>	<u>7712525-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712525-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712525-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Total RCRA Metals by SW6020A</u>	Batch #:	<u>3138754</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04 (12-14)</u>	<u>673823-006</u>	<u>SMP</u>
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>SMP</u>
<u>T2 TMW-06 (2-4)</u>	<u>673823-001</u>	<u>SMP</u>
<u>T2 TMW-07 (2-4)</u>	<u>673823-002</u>	<u>SMP</u>
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>SMP</u>
<u>T2 TMW-09 (2-4)</u>	<u>673823-004</u>	<u>SMP</u>
<u>T2 TMW-10 (2-4)</u>	<u>673823-005</u>	<u>SMP</u>
<u> </u>	<u>673823-001 S</u>	<u>MS</u>
<u> </u>	<u>673823-001 SD</u>	<u>MSD</u>
<u> </u>	<u>7712514-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712514-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712514-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138775</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04 (12-14)</u>	<u>673823-006</u>	<u>SMP</u>
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>SMP</u>
<u>T2 TMW-06 (2-4)</u>	<u>673823-001</u>	<u>SMP</u>
<u>T2 TMW-07 (2-4)</u>	<u>673823-002</u>	<u>SMP</u>
<u>T2 TMW-09 (2-4)</u>	<u>673823-004</u>	<u>SMP</u>
<u>T2 TMW-10 (2-4)</u>	<u>673823-005</u>	<u>SMP</u>
<u> </u>	<u>673526-001 S</u>	<u>MS</u>
<u> </u>	<u>673526-001 SD</u>	<u>MSD</u>
<u> </u>	<u>7712582-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712582-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712582-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>TPH by Texas1005</u>	Batch #:	<u>3138811</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04 (12-14)</u>	<u>673823-006</u>	<u>SMP</u>
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>DL</u>
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>SMP</u>
<u> </u>	<u>673868-001 S</u>	<u>MS</u>
<u> </u>	<u>673868-001 SD</u>	<u>MSD</u>
<u> </u>	<u>7712500-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712500-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712500-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Mercury by SW 7471A</u>	Batch #:	<u>3138838</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04 (12-14)</u>	<u>673823-006</u>	<u>SMP</u>
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>SMP</u>
<u>T2 TMW-06 (2-4)</u>	<u>673823-001</u>	<u>SMP</u>
<u>T2 TMW-07 (2-4)</u>	<u>673823-002</u>	<u>SMP</u>
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>SMP</u>
<u>T2 TMW-09 (2-4)</u>	<u>673823-004</u>	<u>SMP</u>
<u>T2 TMW-10 (2-4)</u>	<u>673823-005</u>	<u>SMP</u>
<u> </u>	<u>673823-004 P</u>	<u>PDS</u>
<u> </u>	<u>673823-004 S</u>	<u>MS</u>
<u> </u>	<u>673823-004 SD</u>	<u>MSD</u>
<u> </u>	<u>673823-004 SDL</u>	<u>SDL</u>
<u> </u>	<u>673897-001 S</u>	<u>MS</u>
<u> </u>	<u>673897-001 SD</u>	<u>MSD</u>
<u> </u>	<u>7712602-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712602-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712602-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>TPH by Texas1005</u>	Batch #:	<u>3138845</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04</u>	<u>673823-015</u>	<u>SMP</u>
<u>T2 TMW-05</u>	<u>673823-016</u>	<u>SMP</u>
<u>T2 TMW-06</u>	<u>673823-017</u>	<u>SMP</u>
<u>T2 TMW-07</u>	<u>673823-018</u>	<u>SMP</u>
<u>T2 TMW-08</u>	<u>673823-019</u>	<u>SMP</u>
<u>T2 TMW-09</u>	<u>673823-020</u>	<u>SMP</u>
<u>T2 TMW-10</u>	<u>673823-021</u>	<u>SMP</u>
<u> </u>	<u>673823-015 S</u>	<u>MS</u>
<u> </u>	<u>7712558-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712558-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712558-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138848</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-10</u>	<u>673823-021</u>	<u>SMP</u>
<u></u>	<u>673986-001 S</u>	<u>MS</u>
<u></u>	<u>7712629-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712629-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712629-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method:	<u>TPH by Texas1005</u>	Batch #:	<u>3138856</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-06 (2-4)</u>	<u>673823-001</u>	<u>SMP</u>
<u>T2 TMW-07 (2-4)</u>	<u>673823-002</u>	<u>SMP</u>
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>SMP</u>
<u>T2 TMW-09 (2-4)</u>	<u>673823-004</u>	<u>SMP</u>
<u>T2 TMW-10 (2-4)</u>	<u>673823-005</u>	<u>SMP</u>
<u> </u>	<u>673583-001 S</u>	<u>MS</u>
<u> </u>	<u>673583-001 SD</u>	<u>MSD</u>
<u> </u>	<u>7712499-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712499-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712499-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Mercury by SW-846 7470A</u>	Batch #:	<u>3138905</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-05</u>	<u>673823-016</u>	<u>SMP</u>
<u></u>	<u>673986-001 S</u>	<u>MS</u>
<u></u>	<u>673986-001 SD</u>	<u>MSD</u>
<u></u>	<u>7712609-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712609-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712609-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Total RCRA Metals by SW6020A</u>	Batch #:	<u>3138916</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04</u>	<u>673823-015</u>	<u>SMP</u>
<u>T2 TMW-05</u>	<u>673823-016</u>	<u>SMP</u>
<u>T2 TMW-06</u>	<u>673823-017</u>	<u>SMP</u>
<u>T2 TMW-07</u>	<u>673823-018</u>	<u>SMP</u>
<u>T2 TMW-08</u>	<u>673823-019</u>	<u>SMP</u>
<u>T2 TMW-09</u>	<u>673823-020</u>	<u>SMP</u>
<u>T2 TMW-10</u>	<u>673823-021</u>	<u>SMP</u>
<u></u>	<u>673794-001 S</u>	<u>MS</u>
<u></u>	<u>673794-001 SD</u>	<u>MSD</u>
<u></u>	<u>7712620-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712620-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712620-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138983</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>DL</u>
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>SMP</u>
<u>_____</u>	<u>674121-001 S</u>	<u>MS</u>
<u>_____</u>	<u>674121-001 SD</u>	<u>MSD</u>
<u>_____</u>	<u>7712713-1-BKS</u>	<u>BKS</u>
<u>_____</u>	<u>7712713-1-BLK</u>	<u>BLK</u>
<u>_____</u>	<u>7712713-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Mercury by SW-846 7470A</u>	Batch #:	<u>3138984</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04</u>	<u>673823-015</u>	<u>SMP</u>
<u>T2 TMW-06</u>	<u>673823-017</u>	<u>SMP</u>
<u>T2 TMW-07</u>	<u>673823-018</u>	<u>SMP</u>
<u>T2 TMW-08</u>	<u>673823-019</u>	<u>SMP</u>
<u>T2 TMW-09</u>	<u>673823-020</u>	<u>SMP</u>
<u>T2 TMW-10</u>	<u>673823-021</u>	<u>SMP</u>
<u> </u>	<u>673823-017 P</u>	<u>PDS</u>
<u> </u>	<u>673823-017 S</u>	<u>MS</u>
<u> </u>	<u>673823-017 SD</u>	<u>MSD</u>
<u> </u>	<u>673823-017 SDL</u>	<u>SDL</u>
<u> </u>	<u>7712690-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712690-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712690-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>PAHs by SW846 8270D SIM</u>	Batch #:	<u>3139285</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04</u>	<u>673823-015</u>	<u>SMP</u>
<u> </u>	<u>7712828-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712828-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712828-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method:	<u>PAHs by SW846 8270D SIM</u>	Batch #:	<u>3139328</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-04 (12-14)</u>	<u>673823-006</u>	<u>SMP</u>
<u> </u>	<u>674504-004 S</u>	<u>MS</u>
<u> </u>	<u>674504-004 SD</u>	<u>MSD</u>
<u> </u>	<u>7712899-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712899-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712899-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>TPH Speciation by Texas 1006 - Aliph</u>	Batch #:	<u>3139673</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>SMP</u>
<u></u>	<u>7713112-1-BLK</u>	<u>BLK</u>

Analytical Method:	<u>TPH Speciation by Texas 1006 - Arom</u>	Batch #:	<u>3139674</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-08 (8-10)</u>	<u>673823-003</u>	<u>SMP</u>
<u></u>	<u>7713113-1-BLK</u>	<u>BLK</u>

Analytical Log

Analytical Method:	<u>TPH Speciation by Texas 1006 - Aliph</u>	Batch #:	<u>3139677</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>SMP</u>
<u></u>	<u>7713114-1-BLK</u>	<u>BLK</u>

Analytical Method:	<u>TPH Speciation by Texas 1006 - Arom</u>	Batch #:	<u>3139678</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>673823</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2 TMW-05 (2-4)</u>	<u>673823-007</u>	<u>SMP</u>
<u></u>	<u>7713115-1-BLK</u>	<u>BLK</u>

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3139285

Sample: 7712828-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.08.2020 11:43

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.531	0.500	106	54-146	
Nitrobenzene-d5	0.556	0.500	111	46-151	
Terphenyl-D14	0.409	0.500	82	51-139	

Lab Batch #: 3139285

Sample: 7712828-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.08.2020 12:01

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.535	0.500	107	54-146	
Nitrobenzene-d5	0.573	0.500	115	46-151	
Terphenyl-D14	0.400	0.500	80	51-139	

Lab Batch #: 3139285

Sample: 7712828-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.08.2020 12:18

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.536	0.500	107	54-146	
Nitrobenzene-d5	0.573	0.500	115	46-151	
Terphenyl-D14	0.397	0.500	79	51-139	

Lab Batch #: 3139328

Sample: 7712899-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.09.2020 13:57

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.838	1.00	84	34-104	
Nitrobenzene-d5	0.835	1.00	84	37-101	
Terphenyl-D14	0.786	1.00	79	37-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Project ID: 20-0506

Work Orders : 673823

Lab Batch #: 3139328

Sample: 7712899-1-BKS / BKS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.09.2020 14:14

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.879	1.00	88	34-104	
Nitrobenzene-d5	0.874	1.00	87	37-101	
Terphenyl-D14	0.789	1.00	79	37-117	

Lab Batch #: 3139328

Sample: 7712899-1-BSD / BSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.09.2020 14:31

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.870	1.00	87	34-104	
Nitrobenzene-d5	0.871	1.00	87	37-101	
Terphenyl-D14	0.814	1.00	81	37-117	

Lab Batch #: 3139328

Sample: 674504-004 S / MS

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 10.09.2020 15:23

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.843	1.00	84	34-104	
Nitrobenzene-d5	0.847	1.00	85	37-101	
Terphenyl-D14	0.775	1.00	78	37-117	

Lab Batch #: 3139328

Sample: 674504-004 SD / MSD

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 10.09.2020 15:41

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.843	1.00	84	34-104	
Nitrobenzene-d5	0.854	1.00	85	37-101	
Terphenyl-D14	0.817	1.00	82	37-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3139673

Sample: 7713112-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.12.2020 17:50

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aliphatics	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	79.3	100	79	52-126	

Lab Batch #: 3139677

Sample: 7713114-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.12.2020 17:50

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aliphatics	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	79.3	100	79	52-126	

Lab Batch #: 3139674

Sample: 7713113-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.12.2020 18:14

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aromatics	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	42.9	50.0	86	61-131	

Lab Batch #: 3139678

Sample: 7713115-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.12.2020 18:14

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aromatics	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	42.9	50.0	86	61-131	

Lab Batch #: 3138811

Sample: 7712500-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.02.2020 18:01

SURROGATE RECOVERY STUDY

TPH by Texas1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	47.2	50.0	94	70-130	
1-Chlorooctane	99.6	100	100	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138811

Sample: 7712500-1-BKS / BKS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.02.2020 18:22

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	57.5	50.0	115	70-130	
1-Chlorooctane	124	100	124	70-130	

Lab Batch #: 3138811

Sample: 7712500-1-BSD / BSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.02.2020 18:42

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	55.5	50.0	111	70-130	
1-Chlorooctane	118	100	118	70-130	

Lab Batch #: 3138811

Sample: 673868-001 S / MS

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 10.02.2020 21:06

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	56.5	50.0	113	70-130	
1-Chlorooctane	120	99.9	120	70-130	

Lab Batch #: 3138811

Sample: 673868-001 SD / MSD

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 10.02.2020 21:46

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	55.1	49.8	111	70-130	
1-Chlorooctane	121	99.6	121	70-130	

Lab Batch #: 3138845

Sample: 7712558-1-BLK / BLK

Batch: 1 Matrix:Water

Units: mg/L

Date Analyzed: 10.02.2020 18:01

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	4.79	5.00	96	70-130	
1-Chlorooctane	8.57	10.0	86	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138845

Sample: 7712558-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.02.2020 18:22

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	4.03	5.00	81	70-130	
1-Chlorooctane	8.92	10.0	89	70-130	

Lab Batch #: 3138845

Sample: 7712558-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.02.2020 18:42

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	4.53	5.00	91	70-130	
1-Chlorooctane	9.92	10.0	99	70-130	

Lab Batch #: 3138845

Sample: 673823-015 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 10.02.2020 20:45

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	5.13	4.86	106	70-130	
1-Chlorooctane	11.6	9.72	119	70-130	

Lab Batch #: 3138856

Sample: 7712499-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.03.2020 01:30

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	50.3	50.0	101	70-130	
1-Chlorooctane	107	100	107	70-130	

Lab Batch #: 3138856

Sample: 7712499-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.03.2020 01:50

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	51.7	50.0	103	70-130	
1-Chlorooctane	116	100	116	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138856

Sample: 7712499-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.03.2020 02:11

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	51.4	50.0	103	70-130	
1-Chlorooctane	113	100	113	70-130	

Lab Batch #: 3138856

Sample: 673583-001 S / MS

Batch: 1 Matrix: Solid Waste

Units: mg/kg

Date Analyzed: 10.03.2020 02:52

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	39.9	49.7	80	70-130	
1-Chlorooctane	80.0	99.4	80	70-130	

Lab Batch #: 3138856

Sample: 673583-001 SD / MSD

Batch: 1 Matrix: Solid Waste

Units: mg/kg

Date Analyzed: 10.03.2020 03:13

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	44.5	50.1	89	70-130	
1-Chlorooctane	85.8	100	86	70-130	

Lab Batch #: 3138710

Sample: 7712525-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.01.2020 20:41

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0480	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0510	0.0500	102	63-144	
Toluene-D8	0.0521	0.0500	104	80-117	
4-Bromofluorobenzene	0.0501	0.0500	100	74-124	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138710

Sample: 7712525-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.01.2020 21:01

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0519	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0561	0.0500	112	63-144	
Toluene-D8	0.0504	0.0500	101	80-117	
4-Bromofluorobenzene	0.0544	0.0500	109	74-124	

Lab Batch #: 3138710

Sample: 673776-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.01.2020 21:21

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0512	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0556	0.0500	111	63-144	
Toluene-D8	0.0516	0.0500	103	80-117	
4-Bromofluorobenzene	0.0499	0.0500	100	74-124	

Lab Batch #: 3138710

Sample: 7712525-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.01.2020 22:41

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0500	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0590	0.0500	118	63-144	
Toluene-D8	0.0499	0.0500	100	80-117	
4-Bromofluorobenzene	0.0490	0.0500	98	74-124	

Lab Batch #: 3138775

Sample: 7712582-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.02.2020 09:52

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0561	0.0500	112	53-142	
1,2-Dichloroethane-D4	0.0515	0.0500	103	56-150	
Toluene-D8	0.0453	0.0500	91	70-130	
4-Bromofluorobenzene	0.0489	0.0500	98	68-152	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138775

Sample: 7712582-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.02.2020 10:15

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0560	0.0500	112	53-142	
1,2-Dichloroethane-D4	0.0470	0.0500	94	56-150	
Toluene-D8	0.0479	0.0500	96	70-130	
4-Bromofluorobenzene	0.0501	0.0500	100	68-152	

Lab Batch #: 3138775

Sample: 673526-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10.02.2020 11:36

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0563	0.0500	113	53-142	
1,2-Dichloroethane-D4	0.0505	0.0500	101	56-150	
Toluene-D8	0.0473	0.0500	95	70-130	
4-Bromofluorobenzene	0.0502	0.0500	100	68-152	

Lab Batch #: 3138775

Sample: 673526-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10.02.2020 11:59

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0596	0.0500	119	53-142	
1,2-Dichloroethane-D4	0.0514	0.0500	103	56-150	
Toluene-D8	0.0445	0.0500	89	70-130	
4-Bromofluorobenzene	0.0497	0.0500	99	68-152	

Lab Batch #: 3138775

Sample: 7712582-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.02.2020 13:55

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0558	0.0500	112	53-142	
1,2-Dichloroethane-D4	0.0516	0.0500	103	56-150	
Toluene-D8	0.0462	0.0500	92	70-130	
4-Bromofluorobenzene	0.0498	0.0500	100	68-152	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138848

Sample: 7712629-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.02.2020 15:02

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0497	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0461	0.0500	92	63-144	
Toluene-D8	0.0502	0.0500	100	80-117	
4-Bromofluorobenzene	0.0504	0.0500	101	74-124	

Lab Batch #: 3138848

Sample: 7712629-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.02.2020 15:22

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0478	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0417	0.0500	83	63-144	
Toluene-D8	0.0501	0.0500	100	80-117	
4-Bromofluorobenzene	0.0516	0.0500	103	74-124	

Lab Batch #: 3138848

Sample: 673986-001 S / MS

Batch: 1 Matrix: Liquid

Units: mg/L

Date Analyzed: 10.02.2020 15:42

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0497	0.0500	99	75-131	
1,2-Dichloroethane-D4	0.0464	0.0500	93	63-144	
Toluene-D8	0.0497	0.0500	99	80-117	
4-Bromofluorobenzene	0.0508	0.0500	102	74-124	

Lab Batch #: 3138848

Sample: 7712629-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.02.2020 16:43

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0521	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0492	0.0500	98	63-144	
Toluene-D8	0.0516	0.0500	103	80-117	
4-Bromofluorobenzene	0.0495	0.0500	99	74-124	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138983

Sample: 7712713-1-BKS / BKS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.05.2020 22:31

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0504	0.0500	101	53-142	
1,2-Dichloroethane-D4	0.0501	0.0500	100	56-150	
Toluene-D8	0.0493	0.0500	99	70-130	
4-Bromofluorobenzene	0.0485	0.0500	97	68-152	

Lab Batch #: 3138983

Sample: 7712713-1-BSD / BSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.05.2020 22:54

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0502	0.0500	100	53-142	
1,2-Dichloroethane-D4	0.0520	0.0500	104	56-150	
Toluene-D8	0.0492	0.0500	98	70-130	
4-Bromofluorobenzene	0.0494	0.0500	99	68-152	

Lab Batch #: 3138983

Sample: 674121-001 S / MS

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 10.05.2020 23:17

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0467	0.0500	93	53-142	
1,2-Dichloroethane-D4	0.0503	0.0500	101	56-150	
Toluene-D8	0.0535	0.0500	107	70-130	
4-Bromofluorobenzene	0.0530	0.0500	106	68-152	

Lab Batch #: 3138983

Sample: 674121-001 SD / MSD

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 10.05.2020 23:40

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0437	0.0500	87	53-142	
1,2-Dichloroethane-D4	0.0463	0.0500	93	56-150	
Toluene-D8	0.0536	0.0500	107	70-130	
4-Bromofluorobenzene	0.0538	0.0500	108	68-152	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10152020

Work Orders : 673823

Project ID: 20-0506

Lab Batch #: 3138983

Sample: 7712713-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 10.06.2020 01:59

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0487	0.0500	97	53-142	
1,2-Dichloroethane-D4	0.0492	0.0500	98	56-150	
Toluene-D8	0.0501	0.0500	100	70-130	
4-Bromofluorobenzene	0.0508	0.0500	102	68-152	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

ESE Partners
Yellow Cab Tract 2

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Solid
MB Sample Id: 3138492-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	0.0200	%	09.30.2020 12:56	

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Solid Waste
Parent Sample Id: 673583-002 MD Sample Id: 673583-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	1.61	1.57	3	10	%	09.30.2020 12:56	

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Soil
Parent Sample Id: 673676-001 MD Sample Id: 673676-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	15.6	15.5	1	10	%	09.30.2020 12:56	

Analytical Method: Mercury by SW 7471A

Seq Number: 3138838 Matrix: Solid Prep Method: SW7471P
MB Sample Id: 7712602-1-BLK LCS Sample Id: 7712602-1-BKS Date Prep: 10.05.2020
LCSD Sample Id: 7712602-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.00363	0.189	0.204	108	0.204	108	80-120	0	20	mg/kg	10.05.2020 11:22	

Analytical Method: Mercury by SW 7471A

Seq Number: 3138838 Matrix: Soil Prep Method: SW7471P
Parent Sample Id: 673823-004 MS Sample Id: 673823-004 S Date Prep: 10.05.2020
MSD Sample Id: 673823-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0204	0.210	0.262	115	0.254	113	75-125	3	20	mg/kg	10.05.2020 12:03	

Analytical Method: Mercury by SW 7471A

Seq Number: 3138838 Matrix: Soil Prep Method: SW7471P
Parent Sample Id: 673897-001 MS Sample Id: 673897-001 S Date Prep: 10.05.2020
MSD Sample Id: 673897-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0204	0.225	0.266	109	0.266	109	75-125	0	20	mg/kg	10.05.2020 11:28	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138905
MB Sample Id: 7712609-1-BLK

Matrix: Water
LCS Sample Id: 7712609-1-BKS

Prep Method: SW7470P
Date Prep: 10.05.2020
LCSD Sample Id: 7712609-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000263	0.00200	0.00175	88	0.00181	91	80-120	3	20	mg/L	10.05.2020 13:36	

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138984
MB Sample Id: 7712690-1-BLK

Matrix: Water
LCS Sample Id: 7712690-1-BKS

Prep Method: SW7470P
Date Prep: 10.06.2020
LCSD Sample Id: 7712690-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000263	0.00200	0.00204	102	0.00204	102	80-120	0	20	mg/L	10.06.2020 13:03	

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138905
Parent Sample Id: 673986-001

Matrix: Liquid
MS Sample Id: 673986-001 S

Prep Method: SW7470P
Date Prep: 10.05.2020
MSD Sample Id: 673986-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.0000263	0.00200	0.000574	29	0.000642	32	75-125	11	20	mg/L	10.05.2020 13:42	X

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3138984
Parent Sample Id: 673823-017

Matrix: Ground Water
MS Sample Id: 673823-017 S

Prep Method: SW7470P
Date Prep: 10.06.2020
MSD Sample Id: 673823-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.0000920	0.00200	0.000830	37	0.000821	36	75-125	1	20	mg/L	10.06.2020 13:14	X

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138754
MB Sample Id: 7712514-1-BLK

Matrix: Solid
LCS Sample Id: 7712514-1-BKS

Prep Method: SW3051
Date Prep: 10.02.2020
LCSD Sample Id: 7712514-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.0541	8.77	8.29	95	8.01	95	80-120	3	20	mg/kg	10.02.2020 13:20	
Barium	<0.0304	8.77	8.36	95	8.04	95	80-120	4	20	mg/kg	10.02.2020 13:20	
Cadmium	<0.0102	8.77	8.60	98	8.17	96	80-120	5	20	mg/kg	10.02.2020 13:20	
Chromium	<0.0238	8.77	8.54	97	8.11	96	80-120	5	20	mg/kg	10.02.2020 13:20	
Lead	<0.0170	8.77	8.48	97	8.28	98	80-120	2	20	mg/kg	10.02.2020 13:20	
Selenium	<0.0435	8.77	8.40	96	8.04	95	80-120	4	20	mg/kg	10.02.2020 13:20	
Silver	<0.0139	4.39	4.32	98	4.13	97	80-120	4	20	mg/kg	10.02.2020 13:20	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138916

MB Sample Id: 7712620-1-BLK

Matrix: Water

LCS Sample Id: 7712620-1-BKS

Prep Method: SW3010A

Date Prep: 10.05.2020

LCSD Sample Id: 7712620-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.000246	0.100	0.0983	98	0.0979	98	80-120	0	20	mg/L	10.05.2020 21:34	
Barium	<0.000484	0.100	0.0958	96	0.0972	97	80-120	1	20	mg/L	10.05.2020 21:34	
Cadmium	<0.000147	0.100	0.0983	98	0.0996	100	80-120	1	20	mg/L	10.05.2020 21:34	
Chromium	<0.000525	0.100	0.0979	98	0.0990	99	80-120	1	20	mg/L	10.05.2020 21:34	
Lead	<0.000152	0.100	0.0980	98	0.0986	99	80-120	1	20	mg/L	10.05.2020 21:34	
Selenium	<0.000454	0.100	0.0985	99	0.0989	99	80-120	0	20	mg/L	10.05.2020 21:34	
Silver	<0.000251	0.0500	0.0493	99	0.0494	99	80-120	0	20	mg/L	10.05.2020 21:34	

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138754

Parent Sample Id: 673823-001

Matrix: Soil

MS Sample Id: 673823-001 S

Prep Method: SW3051

Date Prep: 10.02.2020

MSD Sample Id: 673823-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	1.23	11.4	12.8	101	12.7	101	75-125	1	30	mg/kg	10.02.2020 13:29	
Barium	23.1	11.4	34.1	96	33.6	92	75-125	1	30	mg/kg	10.02.2020 13:29	
Cadmium	<0.132	11.4	11.8	104	11.9	104	75-125	1	30	mg/kg	10.02.2020 13:29	
Chromium	9.75	11.4	21.7	105	21.8	106	75-125	0	30	mg/kg	10.02.2020 13:29	
Lead	10.2	11.4	21.6	100	21.6	100	75-125	0	30	mg/kg	10.02.2020 13:29	
Selenium	<0.567	11.4	12.2	107	12.1	106	75-125	1	30	mg/kg	10.02.2020 13:29	
Silver	<0.182	5.71	5.96	104	5.97	105	75-125	0	30	mg/kg	10.02.2020 13:29	

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3138916

Parent Sample Id: 673794-001

Matrix: Ground Water

MS Sample Id: 673794-001 S

Prep Method: SW3010A

Date Prep: 10.05.2020

MSD Sample Id: 673794-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.000246	0.100	0.0964	96	0.0954	95	75-125	1	20	mg/L	10.05.2020 21:43	
Barium	<0.000484	0.100	0.109	109	0.107	107	75-125	2	20	mg/L	10.05.2020 21:43	
Cadmium	<0.000147	0.100	0.0983	98	0.0971	97	75-125	1	20	mg/L	10.05.2020 21:43	
Chromium	<0.000525	0.100	0.100	100	0.0995	100	75-125	1	20	mg/L	10.05.2020 21:43	
Lead	<0.000152	0.100	0.100	100	0.0990	99	75-125	1	20	mg/L	10.05.2020 21:43	
Selenium	<0.000454	0.100	0.0969	97	0.0940	94	75-125	3	20	mg/L	10.05.2020 21:43	
Silver	<0.000251	0.0500	0.0511	102	0.0505	101	75-125	1	20	mg/L	10.05.2020 21:43	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: PAHs by SW846 8270D SIM

Seq Number: 3139285

MB Sample Id: 7712828-1-BLK

Matrix: Water

LCS Sample Id: 7712828-1-BKS

Prep Method: SW3511

Date Prep: 10.05.2020

LCSD Sample Id: 7712828-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.000100	0.0182	0.0214	118	0.0215	118	75-127	0	30	mg/L	10.08.2020 12:01	
Acenaphthylene	<0.0000842	0.0182	0.0220	121	0.0222	122	78-133	1	30	mg/L	10.08.2020 12:01	
Anthracene	<0.0000866	0.0182	0.0211	116	0.0211	116	73-145	0	30	mg/L	10.08.2020 12:01	
Benzo(a)anthracene	<0.000134	0.0182	0.0178	98	0.0174	96	77-131	2	30	mg/L	10.08.2020 12:01	
Benzo(a)pyrene	<0.0000571	0.0182	0.0158	87	0.0156	86	56-163	1	30	mg/L	10.08.2020 12:01	
Benzo(b)fluoranthene	<0.0000711	0.0182	0.0167	92	0.0166	91	74-138	1	30	mg/L	10.08.2020 12:01	
Benzo(g,h,i)perylene	<0.000113	0.0182	0.0156	86	0.0155	85	77-127	1	30	mg/L	10.08.2020 12:01	
Benzo(k)fluoranthene	<0.000116	0.0182	0.0163	90	0.0161	88	67-142	1	30	mg/L	10.08.2020 12:01	
Chrysene	<0.000156	0.0182	0.0194	107	0.0189	104	66-126	3	30	mg/L	10.08.2020 12:01	
Dibenz(a,h)anthracene	<0.0000760	0.0182	0.0150	82	0.0149	82	71-142	1	30	mg/L	10.08.2020 12:01	
Fluoranthene	<0.000157	0.0182	0.0207	114	0.0207	114	78-138	0	30	mg/L	10.08.2020 12:01	
Fluorene	<0.000101	0.0182	0.0203	112	0.0204	112	79-128	0	30	mg/L	10.08.2020 12:01	
Indeno(1,2,3-c,d)Pyrene	<0.0000913	0.0182	0.0151	83	0.0151	83	76-140	0	30	mg/L	10.08.2020 12:01	
Naphthalene	<0.0000972	0.0182	0.0196	108	0.0197	108	72-122	1	30	mg/L	10.08.2020 12:01	
Phenanthrene	<0.0000850	0.0182	0.0209	115	0.0209	115	76-129	0	30	mg/L	10.08.2020 12:01	
Pyrene	<0.000130	0.0182	0.0220	121	0.0217	119	74-138	1	30	mg/L	10.08.2020 12:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	106		107		107		54-146	%	10.08.2020 12:01
Nitrobenzene-d5	111		115		115		46-151	%	10.08.2020 12:01
Terphenyl-D14	82		80		79		51-139	%	10.08.2020 12:01

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: PAHs by SW846 8270D SIM

Seq Number: 3139328

MB Sample Id: 7712899-1-BLK

Matrix: Solid

LCS Sample Id: 7712899-1-BKS

Prep Method: SW3546

Date Prep: 10.09.2020

LCSD Sample Id: 7712899-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.00158	0.0667	0.0620	93	0.0622	93	37-110	0	25	mg/kg	10.09.2020 14:14	
Acenaphthylene	<0.00179	0.0667	0.0642	96	0.0642	96	35-110	0	25	mg/kg	10.09.2020 14:14	
Anthracene	<0.00218	0.0667	0.0642	96	0.0654	98	36-113	2	25	mg/kg	10.09.2020 14:14	
Benzo(a)anthracene	<0.00217	0.0667	0.0637	96	0.0653	98	42-119	2	25	mg/kg	10.09.2020 14:14	
Benzo(a)pyrene	<0.00244	0.0667	0.0597	90	0.0624	94	39-125	4	25	mg/kg	10.09.2020 14:14	
Benzo(b)fluoranthene	<0.00229	0.0667	0.0620	93	0.0654	98	43-124	5	25	mg/kg	10.09.2020 14:14	
Benzo(g,h,i)perylene	<0.00289	0.0667	0.0620	93	0.0641	96	34-136	3	25	mg/kg	10.09.2020 14:14	
Benzo(k)fluoranthene	<0.00198	0.0667	0.0598	90	0.0629	94	44-114	5	25	mg/kg	10.09.2020 14:14	
Chrysene	<0.00169	0.0667	0.0650	97	0.0683	102	47-107	5	25	mg/kg	10.09.2020 14:14	
Dibenz(a,h)anthracene	<0.00275	0.0667	0.0615	92	0.0639	96	35-132	4	25	mg/kg	10.09.2020 14:14	
Fluoranthene	<0.00267	0.0667	0.0656	98	0.0674	101	34-129	3	25	mg/kg	10.09.2020 14:14	
Fluorene	<0.00184	0.0667	0.0597	90	0.0607	91	35-100	2	25	mg/kg	10.09.2020 14:14	
Indeno(1,2,3-c,d)Pyrene	<0.00265	0.0667	0.0617	93	0.0641	96	36-130	4	25	mg/kg	10.09.2020 14:14	
Naphthalene	<0.00170	0.0667	0.0566	85	0.0570	85	34-110	1	25	mg/kg	10.09.2020 14:14	
Phenanthrene	<0.00202	0.0667	0.0630	94	0.0640	96	37-108	2	25	mg/kg	10.09.2020 14:14	
Pyrene	<0.00182	0.0667	0.0625	94	0.0651	98	47-112	4	25	mg/kg	10.09.2020 14:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	84		88		87		34-104	%	10.09.2020 14:14
Nitrobenzene-d5	84		87		87		37-101	%	10.09.2020 14:14
Terphenyl-D14	79		79		81		37-117	%	10.09.2020 14:14

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: PAHs by SW846 8270D SIM
Seq Number: 3139328
Parent Sample Id: 674504-004

Matrix: Soil
MS Sample Id: 674504-004 S

Prep Method: SW3546
Date Prep: 10.09.2020
MSD Sample Id: 674504-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.00236	0.0995	0.0899	90	0.0917	92	37-110	2	25	mg/kg	10.09.2020 15:23	
Acenaphthylene	<0.00266	0.0995	0.0933	94	0.0945	95	35-110	1	25	mg/kg	10.09.2020 15:23	
Anthracene	<0.00326	0.0995	0.0927	93	0.0960	96	36-113	3	25	mg/kg	10.09.2020 15:23	
Benzo(a)anthracene	<0.00324	0.0995	0.0905	91	0.0942	94	42-119	4	25	mg/kg	10.09.2020 15:23	
Benzo(a)pyrene	<0.00364	0.0995	0.0859	86	0.0891	89	39-125	4	25	mg/kg	10.09.2020 15:23	
Benzo(b)fluoranthene	<0.00341	0.0995	0.0876	88	0.0921	92	43-124	5	25	mg/kg	10.09.2020 15:23	
Benzo(g,h,i)perylene	<0.00432	0.0995	0.0887	89	0.0955	96	34-136	7	25	mg/kg	10.09.2020 15:23	
Benzo(k)fluoranthene	<0.00296	0.0995	0.0859	86	0.0897	90	44-114	4	25	mg/kg	10.09.2020 15:23	
Chrysene	<0.00253	0.0995	0.0944	95	0.0987	99	47-107	4	25	mg/kg	10.09.2020 15:23	
Dibenz(a,h)anthracene	<0.00410	0.0995	0.0882	89	0.0901	90	35-132	2	25	mg/kg	10.09.2020 15:23	
Fluoranthene	<0.00399	0.0995	0.0926	93	0.0953	95	34-129	3	25	mg/kg	10.09.2020 15:23	
Fluorene	<0.00275	0.0995	0.0859	86	0.0875	88	35-100	2	25	mg/kg	10.09.2020 15:23	
Indeno(1,2,3-c,d)Pyrene	<0.00395	0.0995	0.0882	89	0.0904	90	36-130	2	25	mg/kg	10.09.2020 15:23	
Naphthalene	<0.00253	0.0995	0.0824	83	0.0827	83	34-110	0	25	mg/kg	10.09.2020 15:23	
Phenanthrene	<0.00301	0.0995	0.0907	91	0.0938	94	37-108	3	25	mg/kg	10.09.2020 15:23	
Pyrene	<0.00272	0.0995	0.0929	93	0.0989	99	47-112	6	25	mg/kg	10.09.2020 15:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	84		84		34-104	%	10.09.2020 15:23
Nitrobenzene-d5	85		85		37-101	%	10.09.2020 15:23
Terphenyl-D14	78		82		37-117	%	10.09.2020 15:23

Analytical Method: TPH Speciation by Texas 1006 - Aliphatics
Seq Number: 3139673

Matrix: Solid
MB Sample Id: 7713112-1-BLK

Prep Method: TX1006P
Date Prep: 10.02.2020

Parameter	MB Result	Units	Analysis Date	Flag
C6 Aliphatic Hydrocarbons	<6.23	mg/kg	10.12.2020 17:50	
C6 to C8 Aliphatic Hydrocarbons	<13.8	mg/kg	10.12.2020 17:50	
C8 to C10 Aliphatic Hydrocarbons	<2.18	mg/kg	10.12.2020 17:50	
C10 to C12 Aliphatic Hydrocarbons	<2.04	mg/kg	10.12.2020 17:50	
C12 to C16 Aliphatic Hydrocarbons	<4.31	mg/kg	10.12.2020 17:50	
C16 to C21 Aliphatic Hydrocarbons	<4.34	mg/kg	10.12.2020 17:50	
C21 to C35 Aliphatic Hydrocarbons	<18.4	mg/kg	10.12.2020 17:50	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: TPH Speciation by Texas 1006 - Aliphatics

Seq Number: 3139677

Matrix: Solid

Prep Method: TX1006P

Date Prep: 10.02.2020

MB Sample Id: 7713114-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
C6 Aliphatic Hydrocarbons	<6.23	mg/kg	10.12.2020 17:50	
C6 to C8 Aliphatic Hydrocarbons	<13.8	mg/kg	10.12.2020 17:50	
C8 to C10 Aliphatic Hydrocarbons	<2.18	mg/kg	10.12.2020 17:50	
C10 to C12 Aliphatic Hydrocarbons	<2.04	mg/kg	10.12.2020 17:50	
C12 to C16 Aliphatic Hydrocarbons	<4.31	mg/kg	10.12.2020 17:50	
C16 to C21 Aliphatic Hydrocarbons	<4.34	mg/kg	10.12.2020 17:50	
C21 to C35 Aliphatic Hydrocarbons	<18.4	mg/kg	10.12.2020 17:50	

Analytical Method: TPH Speciation by Texas 1006 - Aromatics

Seq Number: 3139674

Matrix: Solid

Prep Method: TX1006P

Date Prep: 10.02.2020

MB Sample Id: 7713113-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
C7 to C8 Aromatic Hydrocarbons	<2.23	mg/kg	10.12.2020 18:14	
C8 to C10 Aromatic Hydrocarbons	<2.18	mg/kg	10.12.2020 18:14	
C10 to C12 Aromatic Hydrocarbons	<5.00	mg/kg	10.12.2020 18:14	
C12 to C16 Aromatic Hydrocarbons	<2.87	mg/kg	10.12.2020 18:14	
C16 to C21 Aromatic Hydrocarbons	<5.00	mg/kg	10.12.2020 18:14	
C21 to C35 Aromatic Hydrocarbons	<15.1	mg/kg	10.12.2020 18:14	

Analytical Method: TPH Speciation by Texas 1006 - Aromatics

Seq Number: 3139678

Matrix: Solid

Prep Method: TX1006P

Date Prep: 10.02.2020

MB Sample Id: 7713115-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
C7 to C8 Aromatic Hydrocarbons	<2.23	mg/kg	10.12.2020 18:14	
C8 to C10 Aromatic Hydrocarbons	<2.18	mg/kg	10.12.2020 18:14	
C10 to C12 Aromatic Hydrocarbons	<5.00	mg/kg	10.12.2020 18:14	
C12 to C16 Aromatic Hydrocarbons	<2.87	mg/kg	10.12.2020 18:14	
C16 to C21 Aromatic Hydrocarbons	<5.00	mg/kg	10.12.2020 18:14	
C21 to C35 Aromatic Hydrocarbons	<15.1	mg/kg	10.12.2020 18:14	

Analytical Method: TPH by Texas1005

Seq Number: 3138856

Matrix: Solid

Prep Method: TX1005P

Date Prep: 10.02.2020

MB Sample Id: 7712499-1-BLK

LCS Sample Id: 7712499-1-BKS

LCSD Sample Id: 7712499-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<21.1	1000	1140	114	1110	111	75-125	3	20	mg/kg	10.03.2020 01:50	
>C12-C28 Diesel Range Hydrocarbons	<21.1	1000	1080	108	1070	107	75-125	1	20	mg/kg	10.03.2020 01:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	101		103		103		70-130	%	10.03.2020 01:50
1-Chlorooctane	107		116		113		70-130	%	10.03.2020 01:50

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: TPH by Texas1005

Seq Number: 3138811
MB Sample Id: 7712500-1-BLK

Matrix: Solid
LCS Sample Id: 7712500-1-BKS

Prep Method: TX1005P
Date Prep: 10.02.2020
LCSD Sample Id: 7712500-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<21.1	1000	1210	121	1160	116	75-125	4	20	mg/kg	10.02.2020 18:22	
>C12-C28 Diesel Range Hydrocarbons	<21.1	1000	1150	115	1100	110	75-125	4	20	mg/kg	10.02.2020 18:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	94		115		111		70-130	%	10.02.2020 18:22
1-Chlorooctane	100		124		118		70-130	%	10.02.2020 18:22

Analytical Method: TPH by Texas1005

Seq Number: 3138845
MB Sample Id: 7712558-1-BLK

Matrix: Water
LCS Sample Id: 7712558-1-BKS

Prep Method: TX1005P
Date Prep: 10.02.2020
LCSD Sample Id: 7712558-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.885	100	83.7	84	85.9	86	75-125	3	20	mg/L	10.02.2020 18:22	
>C12-C28 Diesel Range Hydrocarbons	<0.863	100	79.9	80	91.7	92	75-125	14	20	mg/L	10.02.2020 18:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
o-Terphenyl	96		81		91		70-130	%	10.02.2020 18:22
1-Chlorooctane	86		89		99		70-130	%	10.02.2020 18:22

Analytical Method: TPH by Texas1005

Seq Number: 3138856
MB Sample Id: 7712499-1-BLK

Matrix: Solid

Prep Method: TX1005P
Date Prep: 10.02.2020

Parameter	MB Result	Units	Analysis Date	Flag
>C28-C35 Oil Range Hydrocarbons	<21.1	mg/kg	10.03.2020 01:30	

Analytical Method: TPH by Texas1005

Seq Number: 3138811
MB Sample Id: 7712500-1-BLK

Matrix: Solid

Prep Method: TX1005P
Date Prep: 10.02.2020

Parameter	MB Result	Units	Analysis Date	Flag
>C28-C35 Oil Range Hydrocarbons	<21.1	mg/kg	10.02.2020 18:01	

Analytical Method: TPH by Texas1005

Seq Number: 3138845
MB Sample Id: 7712558-1-BLK

Matrix: Water

Prep Method: TX1005P
Date Prep: 10.02.2020

Parameter	MB Result	Units	Analysis Date	Flag
>C28-C35 Oil Range Hydrocarbons	<0.863	mg/L	10.02.2020 18:01	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: TPH by Texas1005
Seq Number: 3138856
Parent Sample Id: 673583-001

Matrix: Solid Waste
MS Sample Id: 673583-001 S

Prep Method: TX1005P
Date Prep: 10.02.2020
MSD Sample Id: 673583-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	1430	996	2090	66	2300	87	75-125	10	20	mg/kg	10.03.2020 02:52	X
>C12-C28 Diesel Range Hydrocarbons	265	996	1110	85	1220	96	75-125	9	20	mg/kg	10.03.2020 02:52	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
o-Terphenyl	80		89		70-130	%	10.03.2020 02:52
1-Chlorooctane	80		86		70-130	%	10.03.2020 02:52

Analytical Method: TPH by Texas1005
Seq Number: 3138811
Parent Sample Id: 673868-001

Matrix: Soil
MS Sample Id: 673868-001 S

Prep Method: TX1005P
Date Prep: 10.02.2020
MSD Sample Id: 673868-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<23.1	1090	1270	117	1290	118	75-125	2	20	mg/kg	10.02.2020 21:06	
>C12-C28 Diesel Range Hydrocarbons	<23.1	1090	1240	114	1240	114	75-125	0	20	mg/kg	10.02.2020 21:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
o-Terphenyl	113		111		70-130	%	10.02.2020 21:06
1-Chlorooctane	120		121		70-130	%	10.02.2020 21:06

Analytical Method: TPH by Texas1005
Seq Number: 3138845
Parent Sample Id: 673823-015

Matrix: Ground Water
MS Sample Id: 673823-015 S

Prep Method: TX1005P
Date Prep: 10.02.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	1.41	97.2	112	114	75-125	mg/L	10.02.2020 20:45	
>C12-C28 Diesel Range Hydrocarbons	167	97.2	325	163	75-125	mg/L	10.02.2020 20:45	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
o-Terphenyl	106		70-130	%	10.02.2020 20:45
1-Chlorooctane	119		70-130	%	10.02.2020 20:45

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138710

MB Sample Id: 7712525-1-BLK

Matrix: Water

LCS Sample Id: 7712525-1-BKS

Prep Method: SW5030B

Date Prep: 10.01.2020

LCSD Sample Id: 7712525-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0503	101	0.0506	101	66-142	1	25	mg/L	10.01.2020 20:41	
Bromobenzene	<0.000300	0.0500	0.0488	98	0.0533	107	75-125	9	25	mg/L	10.01.2020 20:41	
Bromochloromethane	<0.000209	0.0500	0.0482	96	0.0533	107	60-140	10	25	mg/L	10.01.2020 20:41	
Bromodichloromethane	<0.000231	0.0500	0.0489	98	0.0506	101	75-125	3	25	mg/L	10.01.2020 20:41	
Bromoform	<0.000630	0.0500	0.0460	92	0.0452	90	75-125	2	25	mg/L	10.01.2020 20:41	
Methyl bromide	<0.001105	0.0500	0.0456	91	0.0449	90	60-140	2	25	mg/L	10.01.2020 20:41	
2-Butanone	<0.00270	0.250	0.213	85	0.230	92	60-140	8	25	mg/L	10.01.2020 20:41	
n-Butylbenzene	<0.000286	0.0500	0.0571	114	0.0565	113	75-125	1	25	mg/L	10.01.2020 20:41	
Sec-Butylbenzene	<0.000199	0.0500	0.0527	105	0.0531	106	75-125	1	25	mg/L	10.01.2020 20:41	
tert-Butylbenzene	<0.000195	0.0500	0.0515	103	0.0530	106	75-125	3	25	mg/L	10.01.2020 20:41	
Carbon Tetrachloride	<0.000423	0.0500	0.0480	96	0.0504	101	62-125	5	25	mg/L	10.01.2020 20:41	
Chlorobenzene	<0.000159	0.0500	0.0484	97	0.0499	100	60-133	3	25	mg/L	10.01.2020 20:41	
Chloroethane	<0.000433	0.0500	0.0455	91	0.0460	92	60-140	1	25	mg/L	10.01.2020 20:41	
Chloroform	<0.000259	0.0500	0.0473	95	0.0522	104	70-130	10	25	mg/L	10.01.2020 20:41	
Methyl Chloride	<0.000318	0.0500	0.0438	88	0.0409	82	60-140	7	25	mg/L	10.01.2020 20:41	
2-Chlorotoluene	<0.000214	0.0500	0.0553	111	0.0561	112	73-125	1	25	mg/L	10.01.2020 20:41	
4-Chlorotoluene	<0.000183	0.0500	0.0498	100	0.0518	104	74-125	4	25	mg/L	10.01.2020 20:41	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0518	104	0.0527	105	75-125	2	25	mg/L	10.01.2020 20:41	
Dibromochloromethane	<0.000739	0.0500	0.0457	91	0.0486	97	73-125	6	25	mg/L	10.01.2020 20:41	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0543	109	0.0521	104	59-125	4	25	mg/L	10.01.2020 20:41	
1,2-Dibromoethane	<0.000337	0.0500	0.0484	97	0.0493	99	73-125	2	25	mg/L	10.01.2020 20:41	
Methylene Bromide	<0.000130	0.0500	0.0477	95	0.0480	96	69-127	1	25	mg/L	10.01.2020 20:41	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0522	104	0.0537	107	75-125	3	25	mg/L	10.01.2020 20:41	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0508	102	0.0526	105	75-125	3	25	mg/L	10.01.2020 20:41	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0479	96	0.0484	97	75-125	1	25	mg/L	10.01.2020 20:41	
Dichlorodifluoromethane	<0.000316	0.0500	0.0490	98	0.0484	97	60-140	1	25	mg/L	10.01.2020 20:41	
1,1-Dichloroethane	<0.000244	0.0500	0.0494	99	0.0530	106	72-125	7	25	mg/L	10.01.2020 20:41	
1,2-Dichloroethane	<0.000285	0.0500	0.0498	100	0.0504	101	68-127	1	25	mg/L	10.01.2020 20:41	
1,1-Dichloroethene	<0.000216	0.0500	0.0487	97	0.0521	104	59-172	7	25	mg/L	10.01.2020 20:41	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0475	95	0.0518	104	75-125	9	25	mg/L	10.01.2020 20:41	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0473	95	0.0531	106	75-125	12	25	mg/L	10.01.2020 20:41	
1,2-Dichloropropane	<0.000396	0.0500	0.0514	103	0.0514	103	74-125	0	25	mg/L	10.01.2020 20:41	
1,3-Dichloropropane	<0.000439	0.0500	0.0479	96	0.0488	98	75-125	2	25	mg/L	10.01.2020 20:41	
2,2-Dichloropropane	<0.000360	0.0500	0.0492	98	0.0489	98	75-125	1	25	mg/L	10.01.2020 20:41	
1,1-Dichloropropene	<0.000481	0.0500	0.0469	94	0.0504	101	75-125	7	25	mg/L	10.01.2020 20:41	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0453	91	0.0482	96	74-125	6	25	mg/L	10.01.2020 20:41	
trans-1,3-dichloropropene	<0.000752	0.0500	0.0466	93	0.0492	98	66-125	5	25	mg/L	10.01.2020 20:41	
Ethylbenzene	<0.000146	0.0500	0.0539	108	0.0524	105	75-125	3	25	mg/L	10.01.2020 20:41	
Hexachlorobutadiene	<0.00200	0.0500	0.0522	104	0.0506	101	75-125	3	25	mg/L	10.01.2020 20:41	
Isopropylbenzene	<0.000161	0.0500	0.0577	115	0.0554	111	75-125	4	25	mg/L	10.01.2020 20:41	
Methylene Chloride	<0.00191	0.0500	0.0438	88	0.0476	95	75-125	8	25	mg/L	10.01.2020 20:41	
MTBE	<0.000571	0.0500	0.0506	101	0.0517	103	65-135	2	25	mg/L	10.01.2020 20:41	
Naphthalene	<0.00200	0.0500	0.0551	110	0.0531	106	70-130	4	25	mg/L	10.01.2020 20:41	
n-Propylbenzene	<0.000179	0.0500	0.0563	113	0.0568	114	75-125	1	25	mg/L	10.01.2020 20:41	
Styrene	<0.000162	0.0500	0.0508	102	0.0494	99	75-125	3	25	mg/L	10.01.2020 20:41	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0563	113	0.0547	109	72-125	3	25	mg/L	10.01.2020 20:41	
1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0550	110	0.0536	107	74-125	3	25	mg/L	10.01.2020 20:41	
Tetrachloroethylene	<0.000500	0.0500	0.0533	107	0.0520	104	71-125	2	25	mg/L	10.01.2020 20:41	
Toluene	<0.000500	0.0500	0.0502	100	0.0498	100	59-139	1	25	mg/L	10.01.2020 20:41	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0540	108	0.0531	106	75-137	2	25	mg/L	10.01.2020 20:41	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138710

MB Sample Id: 7712525-1-BLK

Matrix: Water

LCS Sample Id: 7712525-1-BKS

Prep Method: SW5030B

Date Prep: 10.01.2020

LCSD Sample Id: 7712525-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0533	107	0.0528	106	75-135	1	25	mg/L	10.01.2020 20:41	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0480	96	0.0507	101	75-125	5	25	mg/L	10.01.2020 20:41	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0470	94	0.0472	94	75-127	0	25	mg/L	10.01.2020 20:41	
Trichloroethylene	<0.000424	0.0500	0.0485	97	0.0497	99	62-137	2	25	mg/L	10.01.2020 20:41	
Trichlorofluoromethane	<0.000245	0.0500	0.0486	97	0.0473	95	60-140	3	25	mg/L	10.01.2020 20:41	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0519	104	0.0534	107	75-125	3	25	mg/L	10.01.2020 20:41	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0577	115	0.0591	118	75-125	2	25	mg/L	10.01.2020 20:41	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0594	119	0.0600	120	70-125	1	25	mg/L	10.01.2020 20:41	
o-Xylene	<0.000192	0.0500	0.0559	112	0.0536	107	75-125	4	25	mg/L	10.01.2020 20:41	
m,p-Xylenes	<0.000330	0.100	0.105	105	0.101	101	75-125	4	25	mg/L	10.01.2020 20:41	
Vinyl Chloride	<0.000234	0.0500	0.0487	97	0.0489	98	60-140	0	25	mg/L	10.01.2020 20:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		96		104		75-131	%	10.01.2020 20:41
1,2-Dichloroethane-D4	118		102		112		63-144	%	10.01.2020 20:41
Toluene-D8	100		104		101		80-117	%	10.01.2020 20:41
4-Bromofluorobenzene	98		100		109		74-124	%	10.01.2020 20:41

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138775

MB Sample Id: 7712582-1-BLK

Matrix: Solid

LCS Sample Id: 7712582-1-BKS

Prep Method: SW5035A

Date Prep: 10.02.2020

LCSD Sample Id: 7712582-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000207	0.0500	0.0531	106	0.0486	97	66-142	9	25	mg/kg	10.02.2020 09:52	
Bromobenzene	<0.000346	0.0500	0.0435	87	0.0463	93	75-125	6	25	mg/kg	10.02.2020 09:52	
Bromochloromethane	<0.000526	0.0500	0.0562	112	0.0520	104	60-140	8	25	mg/kg	10.02.2020 09:52	
Bromodichloromethane	<0.000251	0.0500	0.0529	106	0.0490	98	75-125	8	25	mg/kg	10.02.2020 09:52	
Bromoform	<0.00103	0.0500	0.0472	94	0.0477	95	75-125	1	25	mg/kg	10.02.2020 09:52	
Methyl bromide	<0.000943	0.0500	0.0870	174	0.0701	140	60-140	22	25	mg/kg	10.02.2020 09:52	H
2-Butanone	<0.00365	0.250	0.318	127	0.300	120	75-125	6	25	mg/kg	10.02.2020 09:52	H
tert-Butylbenzene	<0.00128	0.0500	0.0464	93	0.0480	96	75-125	3	25	mg/kg	10.02.2020 09:52	
Sec-Butylbenzene	<0.000261	0.0500	0.0467	93	0.0493	99	75-125	5	25	mg/kg	10.02.2020 09:52	
n-Butylbenzene	<0.000274	0.0500	0.0490	98	0.0517	103	75-125	5	25	mg/kg	10.02.2020 09:52	
Carbon Tetrachloride	<0.00164	0.0500	0.0622	124	0.0568	114	62-125	9	25	mg/kg	10.02.2020 09:52	
Chlorobenzene	<0.000237	0.0500	0.0475	95	0.0475	95	60-133	0	25	mg/kg	10.02.2020 09:52	
Chloroethane	<0.000444	0.0500	0.0569	114	0.0540	108	60-140	5	25	mg/kg	10.02.2020 09:52	
Chloroform	<0.000173	0.0500	0.0572	114	0.0529	106	74-125	8	25	mg/kg	10.02.2020 09:52	
Methyl Chloride	<0.000431	0.0500	0.0400	80	0.0359	72	60-140	11	25	mg/kg	10.02.2020 09:52	
2-Chlorotoluene	<0.000342	0.0500	0.0442	88	0.0469	94	73-125	6	25	mg/kg	10.02.2020 09:52	
4-Chlorotoluene	<0.000264	0.0500	0.0449	90	0.0473	95	74-125	5	25	mg/kg	10.02.2020 09:52	
p-Cymene (p-Isopropyltoluene)	<0.000319	0.0500	0.0471	94	0.0494	99	75-125	5	25	mg/kg	10.02.2020 09:52	
1,2-Dibromo-3-Chloropropane	<0.000704	0.0500	0.0496	99	0.0550	110	59-125	10	25	mg/kg	10.02.2020 09:52	
Dibromochloromethane	<0.000895	0.0500	0.0475	95	0.0475	95	73-125	0	25	mg/kg	10.02.2020 09:52	
1,2-Dibromoethane	<0.00104	0.0500	0.0468	94	0.0469	94	73-125	0	25	mg/kg	10.02.2020 09:52	
Methylene Bromide	<0.000371	0.0500	0.0521	104	0.0486	97	69-127	7	25	mg/kg	10.02.2020 09:52	
1,2-Dichlorobenzene	<0.000288	0.0500	0.0461	92	0.0487	97	75-125	5	25	mg/kg	10.02.2020 09:52	
1,3-Dichlorobenzene	<0.000273	0.0500	0.0457	91	0.0483	97	75-125	6	25	mg/kg	10.02.2020 09:52	
1,4-Dichlorobenzene	<0.000214	0.0500	0.0457	91	0.0482	96	75-125	5	25	mg/kg	10.02.2020 09:52	
Dichlorodifluoromethane	<0.00111	0.0500	0.0443	89	0.0408	82	65-135	8	25	mg/kg	10.02.2020 09:52	
1,2-Dichloroethane	<0.000304	0.0500	0.0525	105	0.0481	96	68-127	9	25	mg/kg	10.02.2020 09:52	
1,1-Dichloroethane	<0.000376	0.0500	0.0592	118	0.0538	108	72-125	10	25	mg/kg	10.02.2020 09:52	
trans-1,2-dichloroethylene	<0.000434	0.0500	0.0546	109	0.0501	100	75-125	9	25	mg/kg	10.02.2020 09:52	
cis-1,2-Dichloroethylene	<0.000301	0.0500	0.0580	116	0.0533	107	75-125	8	25	mg/kg	10.02.2020 09:52	
1,1-Dichloroethene	<0.000277	0.0500	0.0563	113	0.0512	102	59-172	9	25	mg/kg	10.02.2020 09:52	
2,2-Dichloropropane	<0.000524	0.0500	0.0600	120	0.0531	106	75-125	12	25	mg/kg	10.02.2020 09:52	
1,3-Dichloropropane	<0.000409	0.0500	0.0476	95	0.0485	97	75-125	2	25	mg/kg	10.02.2020 09:52	
1,2-Dichloropropane	<0.000198	0.0500	0.0552	110	0.0508	102	74-125	8	25	mg/kg	10.02.2020 09:52	
trans-1,3-dichloropropene	<0.000909	0.0500	0.0508	102	0.0506	101	66-125	0	25	mg/kg	10.02.2020 09:52	
1,1-Dichloropropene	<0.000448	0.0500	0.0598	120	0.0540	108	75-125	10	25	mg/kg	10.02.2020 09:52	
cis-1,3-Dichloropropene	<0.000230	0.0500	0.0563	113	0.0519	104	74-125	8	25	mg/kg	10.02.2020 09:52	
Ethylbenzene	<0.000336	0.0500	0.0475	95	0.0477	95	75-125	0	25	mg/kg	10.02.2020 09:52	
Hexachlorobutadiene	<0.00200	0.0500	0.0496	99	0.0520	104	75-125	5	25	mg/kg	10.02.2020 09:52	
Isopropylbenzene	<0.000174	0.0500	0.0485	97	0.0480	96	75-125	1	25	mg/kg	10.02.2020 09:52	
Methylene Chloride	<0.00422	0.0500	0.0557	111	0.0494	99	75-125	12	25	mg/kg	10.02.2020 09:52	
MTBE	<0.000409	0.0500	0.0581	116	0.0540	108	60-140	7	25	mg/kg	10.02.2020 09:52	
Naphthalene	<0.00200	0.0500	0.0570	114	0.0650	130	70-130	13	25	mg/kg	10.02.2020 09:52	
n-Propylbenzene	<0.000286	0.0500	0.0452	90	0.0480	96	75-125	6	25	mg/kg	10.02.2020 09:52	
Styrene	<0.000205	0.0500	0.0489	98	0.0491	98	75-125	0	25	mg/kg	10.02.2020 09:52	
1,1,1,2-Tetrachloroethane	<0.000267	0.0500	0.0488	98	0.0490	98	72-125	0	25	mg/kg	10.02.2020 09:52	
1,1,2,2-Tetrachloroethane	<0.000470	0.0500	0.0445	89	0.0484	97	74-125	8	25	mg/kg	10.02.2020 09:52	
Tetrachloroethylene	<0.000370	0.0500	0.0471	94	0.0464	93	71-125	1	25	mg/kg	10.02.2020 09:52	
Toluene	<0.00100	0.0500	0.0466	93	0.0463	93	59-139	1	25	mg/kg	10.02.2020 09:52	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0528	106	0.0582	116	75-137	10	25	mg/kg	10.02.2020 09:52	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138775

MB Sample Id: 7712582-1-BLK

Matrix: Solid

LCS Sample Id: 7712582-1-BKS

Prep Method: SW5035A

Date Prep: 10.02.2020

LCSD Sample Id: 7712582-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0518	104	0.0564	113	75-135	9	25	mg/kg	10.02.2020 09:52	
1,1,2-Trichloroethane	<0.000392	0.0500	0.0471	94	0.0475	95	75-127	1	25	mg/kg	10.02.2020 09:52	
1,1,1-Trichloroethane	<0.000503	0.0500	0.0568	114	0.0530	106	75-125	7	25	mg/kg	10.02.2020 09:52	
Trichloroethylene	<0.000494	0.0500	0.0521	104	0.0481	96	62-137	8	25	mg/kg	10.02.2020 09:52	
Trichlorofluoromethane	<0.000307	0.0500	0.0562	112	0.0524	105	67-125	7	25	mg/kg	10.02.2020 09:52	
1,2,3-Trichloropropane	<0.000450	0.0500	0.0504	101	0.0533	107	75-125	6	25	mg/kg	10.02.2020 09:52	
1,2,4-Trimethylbenzene	<0.000255	0.0500	0.0458	92	0.0478	96	75-125	4	25	mg/kg	10.02.2020 09:52	
1,3,5-Trimethylbenzene	<0.000289	0.0500	0.0454	91	0.0477	95	70-130	5	25	mg/kg	10.02.2020 09:52	
Vinyl Chloride	<0.000441	0.0500	0.0557	111	0.0509	102	60-140	9	25	mg/kg	10.02.2020 09:52	
o-Xylene	<0.000985	0.0500	0.0468	94	0.0469	94	75-125	0	25	mg/kg	10.02.2020 09:52	
m,p-Xylenes	<0.000800	0.100	0.0951	95	0.0941	94	75-125	1	25	mg/kg	10.02.2020 09:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	112		112		112		53-142	%	10.02.2020 09:52
1,2-Dichloroethane-D4	103		103		94		56-150	%	10.02.2020 09:52
Toluene-D8	92		91		96		70-130	%	10.02.2020 09:52
4-Bromofluorobenzene	100		98		100		68-152	%	10.02.2020 09:52

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138848

MB Sample Id: 7712629-1-BLK

Matrix: Water

LCS Sample Id: 7712629-1-BKS

Prep Method: SW5030B

Date Prep: 10.02.2020

LCSD Sample Id: 7712629-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0457	91	0.0454	91	66-142	1	25	mg/L	10.02.2020 15:02	
Bromobenzene	<0.000300	0.0500	0.0476	95	0.0498	100	75-125	5	25	mg/L	10.02.2020 15:02	
Bromochloromethane	<0.000209	0.0500	0.0479	96	0.0463	93	60-140	3	25	mg/L	10.02.2020 15:02	
Bromodichloromethane	<0.000231	0.0500	0.0497	99	0.0511	102	75-125	3	25	mg/L	10.02.2020 15:02	
Bromoform	<0.000630	0.0500	0.0497	99	0.0527	105	75-125	6	25	mg/L	10.02.2020 15:02	
Methyl bromide	<0.001105	0.0500	0.0458	92	0.0469	94	60-140	2	25	mg/L	10.02.2020 15:02	
2-Butanone	<0.00270	0.250	0.283	113	0.299	120	60-140	5	25	mg/L	10.02.2020 15:02	
n-Butylbenzene	<0.000286	0.0500	0.0480	96	0.0494	99	75-125	3	25	mg/L	10.02.2020 15:02	
Sec-Butylbenzene	<0.000199	0.0500	0.0500	100	0.0496	99	75-125	1	25	mg/L	10.02.2020 15:02	
tert-Butylbenzene	<0.000195	0.0500	0.0453	91	0.0454	91	75-125	0	25	mg/L	10.02.2020 15:02	
Carbon Tetrachloride	<0.000423	0.0500	0.0490	98	0.0470	94	62-125	4	25	mg/L	10.02.2020 15:02	
Chlorobenzene	<0.000159	0.0500	0.0480	96	0.0504	101	60-133	5	25	mg/L	10.02.2020 15:02	
Chloroethane	<0.000433	0.0500	0.0446	89	0.0452	90	60-140	1	25	mg/L	10.02.2020 15:02	
Chloroform	<0.000259	0.0500	0.0491	98	0.0482	96	70-130	2	25	mg/L	10.02.2020 15:02	
Methyl Chloride	<0.000318	0.0500	0.0459	92	0.0468	94	60-140	2	25	mg/L	10.02.2020 15:02	
2-Chlorotoluene	<0.000214	0.0500	0.0481	96	0.0489	98	73-125	2	25	mg/L	10.02.2020 15:02	
4-Chlorotoluene	<0.000183	0.0500	0.0483	97	0.0505	101	74-125	4	25	mg/L	10.02.2020 15:02	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0499	100	0.0503	101	75-125	1	25	mg/L	10.02.2020 15:02	
Dibromochloromethane	<0.000739	0.0500	0.0496	99	0.0510	102	73-125	3	25	mg/L	10.02.2020 15:02	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0466	93	0.0497	99	59-125	6	25	mg/L	10.02.2020 15:02	
1,2-Dibromoethane	<0.000337	0.0500	0.0508	102	0.0524	105	73-125	3	25	mg/L	10.02.2020 15:02	
Methylene Bromide	<0.000130	0.0500	0.0499	100	0.0493	99	69-127	1	25	mg/L	10.02.2020 15:02	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0465	93	0.0474	95	75-125	2	25	mg/L	10.02.2020 15:02	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0461	92	0.0494	99	75-125	7	25	mg/L	10.02.2020 15:02	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0464	93	0.0493	99	75-125	6	25	mg/L	10.02.2020 15:02	
Dichlorodifluoromethane	<0.000316	0.0500	0.0463	93	0.0464	93	60-140	0	25	mg/L	10.02.2020 15:02	
1,1-Dichloroethane	<0.000244	0.0500	0.0496	99	0.0475	95	72-125	4	25	mg/L	10.02.2020 15:02	
1,2-Dichloroethane	<0.000285	0.0500	0.0496	99	0.0473	95	68-127	5	25	mg/L	10.02.2020 15:02	
1,1-Dichloroethene	<0.000216	0.0500	0.0454	91	0.0454	91	59-172	0	25	mg/L	10.02.2020 15:02	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0495	99	0.0471	94	75-125	5	25	mg/L	10.02.2020 15:02	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0493	99	0.0476	95	75-125	4	25	mg/L	10.02.2020 15:02	
1,2-Dichloropropane	<0.000396	0.0500	0.0478	96	0.0471	94	74-125	1	25	mg/L	10.02.2020 15:02	
1,3-Dichloropropane	<0.000439	0.0500	0.0502	100	0.0520	104	75-125	4	25	mg/L	10.02.2020 15:02	
2,2-Dichloropropane	<0.000360	0.0500	0.0470	94	0.0471	94	75-125	0	25	mg/L	10.02.2020 15:02	
1,1-Dichloropropene	<0.000481	0.0500	0.0488	98	0.0510	102	75-125	4	25	mg/L	10.02.2020 15:02	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0531	106	0.0567	113	74-125	7	25	mg/L	10.02.2020 15:02	
trans-1,3-dichloropropene	<0.000752	0.0500	0.0533	107	0.0573	115	66-125	7	25	mg/L	10.02.2020 15:02	
Ethylbenzene	<0.000146	0.0500	0.0468	94	0.0492	98	75-125	5	25	mg/L	10.02.2020 15:02	
Hexachlorobutadiene	<0.00200	0.0500	0.0476	95	0.0473	95	75-125	1	25	mg/L	10.02.2020 15:02	
Isopropylbenzene	<0.000161	0.0500	0.0485	97	0.0486	97	75-125	0	25	mg/L	10.02.2020 15:02	
Methylene Chloride	<0.00191	0.0500	0.0456	91	0.0444	89	75-125	3	25	mg/L	10.02.2020 15:02	
MTBE	<0.000571	0.0500	0.0492	98	0.0494	99	65-135	0	25	mg/L	10.02.2020 15:02	
Naphthalene	<0.00200	0.0500	0.0475	95	0.0495	99	70-130	4	25	mg/L	10.02.2020 15:02	
n-Propylbenzene	<0.000179	0.0500	0.0492	98	0.0497	99	75-125	1	25	mg/L	10.02.2020 15:02	
Styrene	<0.000162	0.0500	0.0485	97	0.0520	104	75-125	7	25	mg/L	10.02.2020 15:02	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0455	91	0.0441	88	72-125	3	25	mg/L	10.02.2020 15:02	
1,1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0454	91	0.0469	94	74-125	3	25	mg/L	10.02.2020 15:02	
Tetrachloroethylene	<0.000500	0.0500	0.0465	93	0.0472	94	71-125	1	25	mg/L	10.02.2020 15:02	
Toluene	<0.000500	0.0500	0.0505	101	0.0514	103	59-139	2	25	mg/L	10.02.2020 15:02	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0449	90	0.0456	91	75-137	2	25	mg/L	10.02.2020 15:02	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138848

MB Sample Id: 7712629-1-BLK

Matrix: Water

LCS Sample Id: 7712629-1-BKS

Prep Method: SW5030B

Date Prep: 10.02.2020

LCSD Sample Id: 7712629-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0464	93	0.0474	95	75-135	2	25	mg/L	10.02.2020 15:02	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0480	96	0.0493	99	75-125	3	25	mg/L	10.02.2020 15:02	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0506	101	0.0527	105	75-127	4	25	mg/L	10.02.2020 15:02	
Trichloroethylene	<0.000424	0.0500	0.0475	95	0.0483	97	62-137	2	25	mg/L	10.02.2020 15:02	
Trichlorofluoromethane	<0.000245	0.0500	0.0434	87	0.0445	89	60-140	3	25	mg/L	10.02.2020 15:02	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0462	92	0.0507	101	75-125	9	25	mg/L	10.02.2020 15:02	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0494	99	0.0497	99	75-125	1	25	mg/L	10.02.2020 15:02	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0507	101	0.0495	99	70-125	2	25	mg/L	10.02.2020 15:02	
o-Xylene	<0.000192	0.0500	0.0480	96	0.0483	97	75-125	1	25	mg/L	10.02.2020 15:02	
m,p-Xylenes	<0.000330	0.100	0.0956	96	0.101	101	75-125	5	25	mg/L	10.02.2020 15:02	
Vinyl Chloride	<0.000234	0.0500	0.0457	91	0.0461	92	60-140	1	25	mg/L	10.02.2020 15:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	104		99		96		75-131	%	10.02.2020 15:02
1,2-Dichloroethane-D4	98		92		83		63-144	%	10.02.2020 15:02
Toluene-D8	103		100		100		80-117	%	10.02.2020 15:02
4-Bromofluorobenzene	99		101		103		74-124	%	10.02.2020 15:02

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138983

MB Sample Id: 7712713-1-BLK

Matrix: Solid

LCS Sample Id: 7712713-1-BKS

Prep Method: SW5035A

Date Prep: 10.05.2020

LCSD Sample Id: 7712713-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000207	0.0500	0.0469	94	0.0462	92	66-142	2	25	mg/kg	10.05.2020 22:31	
Bromobenzene	<0.000346	0.0500	0.0446	89	0.0451	90	75-125	1	25	mg/kg	10.05.2020 22:31	
Bromochloromethane	<0.000526	0.0500	0.0468	94	0.0466	93	60-140	0	25	mg/kg	10.05.2020 22:31	
Bromodichloromethane	<0.000251	0.0500	0.0498	100	0.0476	95	75-125	5	25	mg/kg	10.05.2020 22:31	
Bromoform	<0.00103	0.0500	0.0507	101	0.0492	98	75-125	3	25	mg/kg	10.05.2020 22:31	
Methyl bromide	<0.000943	0.0500	0.0499	100	0.0482	96	60-140	3	25	mg/kg	10.05.2020 22:31	
2-Butanone	<0.00365	0.250	0.254	102	0.251	100	75-125	1	25	mg/kg	10.05.2020 22:31	
tert-Butylbenzene	<0.00128	0.0500	0.0439	88	0.0437	87	75-125	0	25	mg/kg	10.05.2020 22:31	
Sec-Butylbenzene	<0.000261	0.0500	0.0435	87	0.0439	88	75-125	1	25	mg/kg	10.05.2020 22:31	
n-Butylbenzene	<0.000274	0.0500	0.0448	90	0.0441	88	75-125	2	25	mg/kg	10.05.2020 22:31	
Carbon Tetrachloride	<0.00164	0.0500	0.0465	93	0.0431	86	62-125	8	25	mg/kg	10.05.2020 22:31	
Chlorobenzene	<0.000237	0.0500	0.0466	93	0.0451	90	60-133	3	25	mg/kg	10.05.2020 22:31	
Chloroethane	<0.000444	0.0500	0.0456	91	0.0471	94	60-140	3	25	mg/kg	10.05.2020 22:31	
Chloroform	<0.000173	0.0500	0.0474	95	0.0459	92	74-125	3	25	mg/kg	10.05.2020 22:31	
Methyl Chloride	<0.000431	0.0500	0.0440	88	0.0445	89	60-140	1	25	mg/kg	10.05.2020 22:31	
2-Chlorotoluene	<0.000342	0.0500	0.0435	87	0.0441	88	73-125	1	25	mg/kg	10.05.2020 22:31	
4-Chlorotoluene	<0.000264	0.0500	0.0438	88	0.0436	87	74-125	0	25	mg/kg	10.05.2020 22:31	
p-Cymene (p-Isopropyltoluene)	<0.000319	0.0500	0.0444	89	0.0444	89	75-125	0	25	mg/kg	10.05.2020 22:31	
1,2-Dibromo-3-Chloropropane	<0.000704	0.0500	0.0457	91	0.0477	95	59-125	4	25	mg/kg	10.05.2020 22:31	
Dibromochloromethane	<0.000895	0.0500	0.0496	99	0.0480	96	73-125	3	25	mg/kg	10.05.2020 22:31	
1,2-Dibromoethane	<0.00104	0.0500	0.0486	97	0.0477	95	73-125	2	25	mg/kg	10.05.2020 22:31	
Methylene Bromide	<0.000371	0.0500	0.0493	99	0.0476	95	69-127	4	25	mg/kg	10.05.2020 22:31	
1,2-Dichlorobenzene	<0.000288	0.0500	0.0443	89	0.0440	88	75-125	1	25	mg/kg	10.05.2020 22:31	
1,3-Dichlorobenzene	<0.000273	0.0500	0.0440	88	0.0445	89	75-125	1	25	mg/kg	10.05.2020 22:31	
1,4-Dichlorobenzene	<0.000214	0.0500	0.0434	87	0.0432	86	75-125	0	25	mg/kg	10.05.2020 22:31	
Dichlorodifluoromethane	<0.00111	0.0500	0.0425	85	0.0431	86	65-135	1	25	mg/kg	10.05.2020 22:31	
1,2-Dichloroethane	<0.000304	0.0500	0.0491	98	0.0450	90	68-127	9	25	mg/kg	10.05.2020 22:31	
1,1-Dichloroethane	<0.000376	0.0500	0.0473	95	0.0470	94	72-125	1	25	mg/kg	10.05.2020 22:31	
trans-1,2-dichloroethylene	<0.000434	0.0500	0.0446	89	0.0448	90	75-125	0	25	mg/kg	10.05.2020 22:31	
cis-1,2-Dichloroethylene	<0.000301	0.0500	0.0473	95	0.0467	93	75-125	1	25	mg/kg	10.05.2020 22:31	
1,1-Dichloroethene	<0.000277	0.0500	0.0432	86	0.0437	87	59-172	1	25	mg/kg	10.05.2020 22:31	
2,2-Dichloropropane	<0.000524	0.0500	0.0430	86	0.0420	84	75-125	2	25	mg/kg	10.05.2020 22:31	
1,3-Dichloropropane	<0.000409	0.0500	0.0475	95	0.0469	94	75-125	1	25	mg/kg	10.05.2020 22:31	
1,2-Dichloropropane	<0.000198	0.0500	0.0486	97	0.0487	97	74-125	0	25	mg/kg	10.05.2020 22:31	
trans-1,3-dichloropropene	<0.000909	0.0500	0.0490	98	0.0475	95	66-125	3	25	mg/kg	10.05.2020 22:31	
1,1-Dichloropropene	<0.000448	0.0500	0.0450	90	0.0443	89	75-125	2	25	mg/kg	10.05.2020 22:31	
cis-1,3-Dichloropropene	<0.000230	0.0500	0.0496	99	0.0488	98	74-125	2	25	mg/kg	10.05.2020 22:31	
Ethylbenzene	<0.000336	0.0500	0.0453	91	0.0439	88	75-125	3	25	mg/kg	10.05.2020 22:31	
Hexachlorobutadiene	<0.00200	0.0500	0.0450	90	0.0456	91	75-125	1	25	mg/kg	10.05.2020 22:31	
Isopropylbenzene	<0.000174	0.0500	0.0453	91	0.0439	88	75-125	3	25	mg/kg	10.05.2020 22:31	
Methylene Chloride	<0.00422	0.0500	0.0510	102	0.0518	104	75-125	2	25	mg/kg	10.05.2020 22:31	
MTBE	<0.000409	0.0500	0.0465	93	0.0470	94	60-140	1	25	mg/kg	10.05.2020 22:31	
Naphthalene	<0.00200	0.0500	0.0440	88	0.0489	98	70-130	11	25	mg/kg	10.05.2020 22:31	
n-Propylbenzene	<0.000286	0.0500	0.0437	87	0.0437	87	75-125	0	25	mg/kg	10.05.2020 22:31	
Styrene	<0.000205	0.0500	0.0473	95	0.0463	93	75-125	2	25	mg/kg	10.05.2020 22:31	
1,1,1,2-Tetrachloroethane	<0.000267	0.0500	0.0466	93	0.0462	92	72-125	1	25	mg/kg	10.05.2020 22:31	
1,1,2,2-Tetrachloroethane	<0.000470	0.0500	0.0442	88	0.0462	92	74-125	4	25	mg/kg	10.05.2020 22:31	
Tetrachloroethylene	<0.000370	0.0500	0.0446	89	0.0428	86	71-125	4	25	mg/kg	10.05.2020 22:31	
Toluene	<0.00100	0.0500	0.0507	101	0.0495	99	59-139	2	25	mg/kg	10.05.2020 22:31	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0449	90	0.0468	94	75-137	4	25	mg/kg	10.05.2020 22:31	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138983

MB Sample Id: 7712713-1-BLK

Matrix: Solid

LCS Sample Id: 7712713-1-BKS

Prep Method: SW5035A

Date Prep: 10.05.2020

LCSD Sample Id: 7712713-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0441	88	0.0450	90	75-135	2	25	mg/kg	10.05.2020 22:31	
1,1,2-Trichloroethane	<0.000392	0.0500	0.0468	94	0.0459	92	75-127	2	25	mg/kg	10.05.2020 22:31	
1,1,1-Trichloroethane	<0.000503	0.0500	0.0462	92	0.0440	88	75-125	5	25	mg/kg	10.05.2020 22:31	
Trichloroethylene	<0.000494	0.0500	0.0476	95	0.0454	91	62-137	5	25	mg/kg	10.05.2020 22:31	
Trichlorofluoromethane	<0.000307	0.0500	0.0420	84	0.0438	88	67-125	4	25	mg/kg	10.05.2020 22:31	
1,2,3-Trichloropropane	<0.000450	0.0500	0.0465	93	0.0465	93	75-125	0	25	mg/kg	10.05.2020 22:31	
1,2,4-Trimethylbenzene	<0.000255	0.0500	0.0439	88	0.0441	88	75-125	0	25	mg/kg	10.05.2020 22:31	
1,3,5-Trimethylbenzene	<0.000289	0.0500	0.0440	88	0.0436	87	70-130	1	25	mg/kg	10.05.2020 22:31	
Vinyl Chloride	<0.000441	0.0500	0.0455	91	0.0464	93	60-140	2	25	mg/kg	10.05.2020 22:31	
o-Xylene	<0.000985	0.0500	0.0455	91	0.0437	87	75-125	4	25	mg/kg	10.05.2020 22:31	
m,p-Xylenes	<0.000800	0.100	0.0892	89	0.0869	87	75-125	3	25	mg/kg	10.05.2020 22:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	97		101		100		53-142	%	10.05.2020 22:31
1,2-Dichloroethane-D4	98		100		104		56-150	%	10.05.2020 22:31
Toluene-D8	100		99		98		70-130	%	10.05.2020 22:31
4-Bromofluorobenzene	102		97		99		68-152	%	10.05.2020 22:31

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138775

Parent Sample Id: 673526-001

Matrix: Soil

MS Sample Id: 673526-001 S

Prep Method: SW5035A

Date Prep: 10.02.2020

MSD Sample Id: 673526-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000206	0.0497	0.0525	106	0.0450	91	66-142	15	25	mg/kg	10.02.2020 11:36	
Bromobenzene	<0.000344	0.0497	0.0479	96	0.0328	66	75-125	37	25	mg/kg	10.02.2020 11:36	XF
Bromochloromethane	<0.000523	0.0497	0.0564	113	0.0472	95	60-140	18	25	mg/kg	10.02.2020 11:36	
Bromodichloromethane	<0.000250	0.0497	0.0526	106	0.0421	85	75-125	22	25	mg/kg	10.02.2020 11:36	
Bromoform	<0.00103	0.0497	0.0465	94	0.0337	68	75-125	32	25	mg/kg	10.02.2020 11:36	XF
Methyl bromide	<0.000938	0.0497	0.0925	186	0.0846	171	60-140	9	25	mg/kg	10.02.2020 11:36	X
2-Butanone	<0.00362	0.249	0.266	107	0.238	96	75-125	11	25	mg/kg	10.02.2020 11:36	
tert-Butylbenzene	<0.00128	0.0497	0.0494	99	0.0391	79	75-125	23	25	mg/kg	10.02.2020 11:36	
Sec-Butylbenzene	<0.000259	0.0497	0.0501	101	0.0399	81	75-125	23	25	mg/kg	10.02.2020 11:36	
n-Butylbenzene	<0.000272	0.0497	0.0517	104	0.0405	82	75-125	24	25	mg/kg	10.02.2020 11:36	
Carbon Tetrachloride	<0.00163	0.0497	0.0586	118	0.0579	117	62-125	1	25	mg/kg	10.02.2020 11:36	
Chlorobenzene	<0.000235	0.0497	0.0487	98	0.0364	74	60-133	29	25	mg/kg	10.02.2020 11:36	F
Chloroethane	<0.000441	0.0497	0.0589	119	0.0568	115	60-140	4	25	mg/kg	10.02.2020 11:36	
Chloroform	<0.000172	0.0497	0.0567	114	0.0497	100	74-125	13	25	mg/kg	10.02.2020 11:36	
Methyl Chloride	<0.000428	0.0497	0.0431	87	0.0408	82	60-140	5	25	mg/kg	10.02.2020 11:36	
2-Chlorotoluene	<0.000340	0.0497	0.0482	97	0.0354	72	73-125	31	25	mg/kg	10.02.2020 11:36	XF
4-Chlorotoluene	<0.000262	0.0497	0.0489	98	0.0349	71	74-125	33	25	mg/kg	10.02.2020 11:36	XF
p-Cymene (p-Isopropyltoluene)	<0.000317	0.0497	0.0503	101	0.0394	80	75-125	24	25	mg/kg	10.02.2020 11:36	
1,2-Dibromo-3-Chloropropane	<0.000700	0.0497	0.0473	95	0.0353	71	59-125	29	25	mg/kg	10.02.2020 11:36	F
Dibromochloromethane	<0.000889	0.0497	0.0480	97	0.0350	71	73-125	31	25	mg/kg	10.02.2020 11:36	XF
1,2-Dibromoethane	<0.00104	0.0497	0.0462	93	0.0348	70	73-125	28	25	mg/kg	10.02.2020 11:36	XF
Methylene Bromide	<0.000369	0.0497	0.0503	101	0.0408	82	69-127	21	25	mg/kg	10.02.2020 11:36	
1,2-Dichlorobenzene	<0.000286	0.0497	0.0475	96	0.0320	65	75-125	39	25	mg/kg	10.02.2020 11:36	XF
1,3-Dichlorobenzene	<0.000271	0.0497	0.0484	97	0.0330	67	75-125	38	25	mg/kg	10.02.2020 11:36	XF
1,4-Dichlorobenzene	<0.000213	0.0497	0.0482	97	0.0327	66	75-125	38	25	mg/kg	10.02.2020 11:36	XF
Dichlorodifluoromethane	<0.00111	0.0497	0.0493	99	0.0521	105	65-135	6	25	mg/kg	10.02.2020 11:36	
1,2-Dichloroethane	<0.000302	0.0497	0.0508	102	0.0411	83	68-127	21	25	mg/kg	10.02.2020 11:36	
1,1-Dichloroethane	<0.000374	0.0497	0.0589	119	0.0524	106	72-125	12	25	mg/kg	10.02.2020 11:36	
trans-1,2-dichloroethylene	<0.000431	0.0497	0.0558	112	0.0516	104	75-125	8	25	mg/kg	10.02.2020 11:36	
cis-1,2-Dichloroethylene	<0.000299	0.0497	0.0583	117	0.0508	103	75-125	14	25	mg/kg	10.02.2020 11:36	
1,1-Dichloroethene	<0.000275	0.0497	0.0557	112	0.0556	112	59-172	0	25	mg/kg	10.02.2020 11:36	
2,2-Dichloropropane	<0.000521	0.0497	0.0561	113	0.0526	106	75-125	6	25	mg/kg	10.02.2020 11:36	
1,3-Dichloropropane	<0.000406	0.0497	0.0484	97	0.0358	72	75-125	30	25	mg/kg	10.02.2020 11:36	XF
1,2-Dichloropropane	<0.000197	0.0497	0.0541	109	0.0441	89	74-125	20	25	mg/kg	10.02.2020 11:36	
trans-1,3-dichloropropene	<0.000904	0.0497	0.0517	104	0.0372	75	66-125	33	25	mg/kg	10.02.2020 11:36	F
1,1-Dichloropropene	<0.000446	0.0497	0.0569	114	0.0549	111	75-125	4	25	mg/kg	10.02.2020 11:36	
cis-1,3-Dichloropropene	<0.000228	0.0497	0.0555	112	0.0437	88	74-125	24	25	mg/kg	10.02.2020 11:36	
Ethylbenzene	<0.000334	0.0497	0.0492	99	0.0384	78	75-125	25	25	mg/kg	10.02.2020 11:36	
Hexachlorobutadiene	<0.00199	0.0497	0.0476	96	0.0383	77	75-125	22	25	mg/kg	10.02.2020 11:36	
Isopropylbenzene	<0.000173	0.0497	0.0486	98	0.0393	79	75-125	21	25	mg/kg	10.02.2020 11:36	
Methylene Chloride	<0.00419	0.0497	0.0559	112	0.0459	93	75-125	20	25	mg/kg	10.02.2020 11:36	
MTBE	<0.000406	0.0497	0.0570	115	0.0481	97	60-140	17	25	mg/kg	10.02.2020 11:36	
Naphthalene	<0.00199	0.0497	0.0551	111	0.0394	80	70-130	33	25	mg/kg	10.02.2020 11:36	F
n-Propylbenzene	<0.000284	0.0497	0.0495	100	0.0381	77	75-125	26	25	mg/kg	10.02.2020 11:36	F
Styrene	<0.000204	0.0497	0.0498	100	0.0363	73	75-125	31	25	mg/kg	10.02.2020 11:36	XF
1,1,1,2-Tetrachloroethane	<0.000265	0.0497	0.0501	101	0.0369	75	72-125	30	25	mg/kg	10.02.2020 11:36	F
1,1,2,2-Tetrachloroethane	<0.000467	0.0497	0.0471	95	0.0338	68	74-125	33	25	mg/kg	10.02.2020 11:36	XF
Tetrachloroethylene	<0.000367	0.0497	0.0464	93	0.0393	79	71-125	17	25	mg/kg	10.02.2020 11:36	
Toluene	<0.000994	0.0497	0.0479	96	0.0380	77	59-139	23	25	mg/kg	10.02.2020 11:36	
1,2,3-Trichlorobenzene	<0.00199	0.0497	0.0475	96	0.0325	66	75-137	38	25	mg/kg	10.02.2020 11:36	XF

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C
Seq Number: 3138775
Parent Sample Id: 673526-001

Matrix: Soil
MS Sample Id: 673526-001 S

Prep Method: SW5035A
Date Prep: 10.02.2020
MSD Sample Id: 673526-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00199	0.0497	0.0480	97	0.0323	65	75-135	39	25	mg/kg	10.02.2020 11:36	XF
1,1,2-Trichloroethane	<0.000390	0.0497	0.0476	96	0.0350	71	75-127	31	25	mg/kg	10.02.2020 11:36	XF
1,1,1-Trichloroethane	<0.000500	0.0497	0.0549	110	0.0533	108	75-125	3	25	mg/kg	10.02.2020 11:36	
Trichloroethylene	<0.000491	0.0497	0.0507	102	0.0452	91	62-137	11	25	mg/kg	10.02.2020 11:36	
Trichlorofluoromethane	<0.000306	0.0497	0.0549	110	0.0568	115	67-125	3	25	mg/kg	10.02.2020 11:36	
1,2,3-Trichloropropane	<0.000447	0.0497	0.0522	105	0.0375	76	75-125	33	25	mg/kg	10.02.2020 11:36	F
1,2,4-Trimethylbenzene	<0.000253	0.0497	0.0492	99	0.0362	73	75-125	30	25	mg/kg	10.02.2020 11:36	XF
1,3,5-Trimethylbenzene	<0.000287	0.0497	0.0496	100	0.0375	76	70-130	28	25	mg/kg	10.02.2020 11:36	F
Vinyl Chloride	<0.000439	0.0497	0.0591	119	0.0589	119	60-140	0	25	mg/kg	10.02.2020 11:36	
o-Xylene	<0.000979	0.0497	0.0482	97	0.0367	74	75-125	27	25	mg/kg	10.02.2020 11:36	XF
m,p-Xylenes	<0.000795	0.0994	0.0979	98	0.0755	76	75-125	26	25	mg/kg	10.02.2020 11:36	F

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	113		119		53-142	%	10.02.2020 11:36
1,2-Dichloroethane-D4	101		103		56-150	%	10.02.2020 11:36
Toluene-D8	95		89		70-130	%	10.02.2020 11:36
4-Bromofluorobenzene	100		99		68-152	%	10.02.2020 11:36

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138983

Parent Sample Id: 674121-001

Matrix: Soil

MS Sample Id: 674121-001 S

Prep Method: SW5035A

Date Prep: 10.05.2020

MSD Sample Id: 674121-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00586	0.0496	0.0330	46	0.0414	63	66-142	23	25	mg/kg	10.05.2020 23:17	X
Bromobenzene	<0.000344	0.0496	0.0154	31	0.0226	45	75-125	38	25	mg/kg	10.05.2020 23:17	XF
Bromochloromethane	<0.000521	0.0496	0.0271	55	0.0312	63	60-140	14	25	mg/kg	10.05.2020 23:17	X
Bromodichloromethane	<0.000249	0.0496	0.0246	50	0.0312	63	75-125	24	25	mg/kg	10.05.2020 23:17	X
Bromoform	<0.00102	0.0496	0.0178	36	0.0236	47	75-125	28	25	mg/kg	10.05.2020 23:17	XF
Methyl bromide	<0.000936	0.0496	0.0250	50	0.0299	60	60-140	18	25	mg/kg	10.05.2020 23:17	X
2-Butanone	<0.00362	0.248	0.140	56	0.149	60	75-125	6	25	mg/kg	10.05.2020 23:17	X
tert-Butylbenzene	<0.00127	0.0496	0.0132	27	0.0225	45	75-125	52	25	mg/kg	10.05.2020 23:17	XF
Sec-Butylbenzene	<0.000259	0.0496	0.0111	22	0.0195	39	75-125	55	25	mg/kg	10.05.2020 23:17	XF
n-Butylbenzene	<0.000272	0.0496	0.00923	19	0.0148	30	75-125	46	25	mg/kg	10.05.2020 23:17	XF
Carbon Tetrachloride	<0.00163	0.0496	0.0256	52	0.0341	68	62-125	28	25	mg/kg	10.05.2020 23:17	XF
Chlorobenzene	<0.000235	0.0496	0.0194	39	0.0278	56	60-133	36	25	mg/kg	10.05.2020 23:17	XF
Chloroethane	<0.000440	0.0496	0.0373	75	0.0428	86	60-140	14	25	mg/kg	10.05.2020 23:17	
Chloroform	<0.000171	0.0496	0.0282	57	0.0334	67	74-125	17	25	mg/kg	10.05.2020 23:17	X
Methyl Chloride	<0.000427	0.0496	0.0351	71	0.0384	77	60-140	9	25	mg/kg	10.05.2020 23:17	
2-Chlorotoluene	<0.000339	0.0496	0.0136	27	0.0230	46	73-125	51	25	mg/kg	10.05.2020 23:17	XF
4-Chlorotoluene	<0.000261	0.0496	0.0138	28	0.0218	44	74-125	45	25	mg/kg	10.05.2020 23:17	XF
p-Cymene (p-Isopropyltoluene)	<0.000316	0.0496	0.0107	22	0.0185	37	75-125	53	25	mg/kg	10.05.2020 23:17	XF
1,2-Dibromo-3-Chloropropane	<0.000698	0.0496	0.0160	32	0.0181	36	59-125	12	25	mg/kg	10.05.2020 23:17	X
Dibromochloromethane	<0.000888	0.0496	0.0218	44	0.0280	56	73-125	25	25	mg/kg	10.05.2020 23:17	X
1,2-Dibromoethane	<0.00104	0.0496	0.0232	47	0.0299	60	73-125	25	25	mg/kg	10.05.2020 23:17	X
Methylene Bromide	<0.000368	0.0496	0.0260	52	0.0303	61	69-127	15	25	mg/kg	10.05.2020 23:17	X
1,2-Dichlorobenzene	<0.000285	0.0496	0.00943	19	0.0146	29	75-125	43	25	mg/kg	10.05.2020 23:17	XF
1,3-Dichlorobenzene	<0.000270	0.0496	0.0106	21	0.0172	35	75-125	47	25	mg/kg	10.05.2020 23:17	XF
1,4-Dichlorobenzene	<0.000213	0.0496	0.0112	23	0.0172	35	75-125	42	25	mg/kg	10.05.2020 23:17	XF
Dichlorodifluoromethane	<0.00111	0.0496	0.0359	72	0.0429	86	65-135	18	25	mg/kg	10.05.2020 23:17	
1,2-Dichloroethane	<0.000301	0.0496	0.0259	52	0.0311	62	68-127	18	25	mg/kg	10.05.2020 23:17	X
1,1-Dichloroethane	<0.000373	0.0496	0.0318	64	0.0369	74	72-125	15	25	mg/kg	10.05.2020 23:17	X
trans-1,2-dichloroethylene	<0.000430	0.0496	0.0323	65	0.0371	74	75-125	14	25	mg/kg	10.05.2020 23:17	X
cis-1,2-Dichloroethylene	<0.000298	0.0496	0.0286	58	0.0342	69	75-125	18	25	mg/kg	10.05.2020 23:17	X
1,1-Dichloroethene	<0.000275	0.0496	0.0340	69	0.0398	80	59-172	16	25	mg/kg	10.05.2020 23:17	
2,2-Dichloropropane	<0.000520	0.0496	0.0274	55	0.0334	67	75-125	20	25	mg/kg	10.05.2020 23:17	X
1,3-Dichloropropane	<0.000406	0.0496	0.0251	51	0.0313	63	75-125	22	25	mg/kg	10.05.2020 23:17	X
1,2-Dichloropropane	<0.000197	0.0496	0.0282	57	0.0347	70	74-125	21	25	mg/kg	10.05.2020 23:17	X
trans-1,3-dichloropropene	<0.000902	0.0496	0.0228	46	0.0277	56	66-125	19	25	mg/kg	10.05.2020 23:17	X
1,1-Dichloropropene	<0.000445	0.0496	0.0270	54	0.0348	70	75-125	25	25	mg/kg	10.05.2020 23:17	X
cis-1,3-Dichloropropene	<0.000228	0.0496	0.0226	46	0.0274	55	74-125	19	25	mg/kg	10.05.2020 23:17	X
Ethylbenzene	0.00226	0.0496	0.0207	36	0.0306	55	75-125	39	25	mg/kg	10.05.2020 23:17	XF
Hexachlorobutadiene	<0.00198	0.0496	0.00602	12	0.00741	15	75-125	21	25	mg/kg	10.05.2020 23:17	X
Isopropylbenzene	<0.000173	0.0496	0.0158	32	0.0253	51	75-125	46	25	mg/kg	10.05.2020 23:17	XF
Methylene Chloride	<0.00419	0.0496	0.0342	69	0.0391	79	75-125	13	25	mg/kg	10.05.2020 23:17	X
MTBE	<0.000405	0.0496	0.0286	58	0.0319	64	60-140	11	25	mg/kg	10.05.2020 23:17	X
Naphthalene	<0.00198	0.0496	0.0183	37	0.0158	32	70-130	15	25	mg/kg	10.05.2020 23:17	X
n-Propylbenzene	<0.000284	0.0496	0.0149	30	0.0242	49	75-125	48	25	mg/kg	10.05.2020 23:17	XF
Styrene	<0.000204	0.0496	0.0164	33	0.0240	48	75-125	38	25	mg/kg	10.05.2020 23:17	XF
1,1,1,2-Tetrachloroethane	<0.000265	0.0496	0.0206	42	0.0279	56	72-125	30	25	mg/kg	10.05.2020 23:17	XF
1,1,1,2,2-Tetrachloroethane	<0.000466	0.0496	0.0187	38	0.0252	51	74-125	30	25	mg/kg	10.05.2020 23:17	XF
Tetrachloroethylene	<0.000367	0.0496	0.0201	41	0.0307	62	71-125	42	25	mg/kg	10.05.2020 23:17	XF
Toluene	<0.000992	0.0496	0.0329	44	0.0454	69	59-139	32	25	mg/kg	10.05.2020 23:17	XF
1,2,3-Trichlorobenzene	<0.00198	0.0496	0.00933	19	0.00743	15	75-137	23	25	mg/kg	10.05.2020 23:17	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138983

Parent Sample Id: 674121-001

Matrix: Soil

MS Sample Id: 674121-001 S

Prep Method: SW5035A

Date Prep: 10.05.2020

MSD Sample Id: 674121-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00198	0.0496	0.00787	16	0.00794	16	75-135	1	25	mg/kg	10.05.2020 23:17	X
1,1,2-Trichloroethane	<0.000389	0.0496	0.0240	48	0.0309	62	75-127	25	25	mg/kg	10.05.2020 23:17	X
1,1,1-Trichloroethane	<0.000499	0.0496	0.0277	56	0.0345	69	75-125	22	25	mg/kg	10.05.2020 23:17	X
Trichloroethylene	<0.000490	0.0496	0.0264	53	0.0342	69	62-137	26	25	mg/kg	10.05.2020 23:17	XF
Trichlorofluoromethane	<0.000305	0.0496	0.0340	69	0.0410	82	67-125	19	25	mg/kg	10.05.2020 23:17	
1,2,3-Trichloropropane	<0.000446	0.0496	0.0194	39	0.0252	51	75-125	26	25	mg/kg	10.05.2020 23:17	XF
1,2,4-Trimethylbenzene	<0.000253	0.0496	0.0138	28	0.0230	46	75-125	50	25	mg/kg	10.05.2020 23:17	XF
1,3,5-Trimethylbenzene	<0.000287	0.0496	0.0133	27	0.0233	47	70-130	55	25	mg/kg	10.05.2020 23:17	XF
Vinyl Chloride	<0.000438	0.0496	0.0395	80	0.0444	89	60-140	12	25	mg/kg	10.05.2020 23:17	
o-Xylene	0.00396	0.0496	0.0190	28	0.0284	47	75-125	40	25	mg/kg	10.05.2020 23:17	XF
m,p-Xylenes	0.00502	0.0992	0.0389	33	0.0582	52	75-125	40	25	mg/kg	10.05.2020 23:17	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	93		87		53-142	%	10.05.2020 23:17
1,2-Dichloroethane-D4	101		93		56-150	%	10.05.2020 23:17
Toluene-D8	107		107		70-130	%	10.05.2020 23:17
4-Bromofluorobenzene	106		108		68-152	%	10.05.2020 23:17

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138710

Parent Sample Id: 673776-001

Matrix: Water

MS Sample Id: 673776-001 S

Prep Method: SW5030B

Date Prep: 10.01.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0535	107	66-142	mg/L	10.01.2020 21:21	
Bromobenzene	<0.000300	0.0500	0.0509	102	75-125	mg/L	10.01.2020 21:21	
Bromochloromethane	<0.000209	0.0500	0.0536	107	60-140	mg/L	10.01.2020 21:21	
Bromodichloromethane	<0.000231	0.0500	0.0512	102	75-125	mg/L	10.01.2020 21:21	
Bromoform	<0.000630	0.0500	0.0464	93	75-125	mg/L	10.01.2020 21:21	
Methyl bromide	<0.001105	0.0500	0.0496	99	60-140	mg/L	10.01.2020 21:21	
2-Butanone	<0.00270	0.250	0.220	88	60-140	mg/L	10.01.2020 21:21	
n-Butylbenzene	<0.000286	0.0500	0.0580	116	75-125	mg/L	10.01.2020 21:21	
Sec-Butylbenzene	<0.000199	0.0500	0.0544	109	75-125	mg/L	10.01.2020 21:21	
tert-Butylbenzene	<0.000195	0.0500	0.0537	107	75-125	mg/L	10.01.2020 21:21	
Carbon Tetrachloride	<0.000423	0.0500	0.0544	109	62-125	mg/L	10.01.2020 21:21	
Chlorobenzene	<0.000159	0.0500	0.0518	104	60-133	mg/L	10.01.2020 21:21	
Chloroethane	<0.000433	0.0500	0.0483	97	60-140	mg/L	10.01.2020 21:21	
Chloroform	<0.000259	0.0500	0.0542	108	70-130	mg/L	10.01.2020 21:21	
Methyl Chloride	<0.000318	0.0500	0.0520	104	60-140	mg/L	10.01.2020 21:21	
2-Chlorotoluene	<0.000214	0.0500	0.0580	116	73-125	mg/L	10.01.2020 21:21	
4-Chlorotoluene	<0.000183	0.0500	0.0515	103	74-125	mg/L	10.01.2020 21:21	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0533	107	75-125	mg/L	10.01.2020 21:21	
Dibromochloromethane	<0.000739	0.0500	0.0495	99	73-125	mg/L	10.01.2020 21:21	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0550	110	59-125	mg/L	10.01.2020 21:21	
1,2-Dibromoethane	<0.000337	0.0500	0.0494	99	73-125	mg/L	10.01.2020 21:21	
Methylene Bromide	<0.000130	0.0500	0.0506	101	69-127	mg/L	10.01.2020 21:21	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0530	106	75-125	mg/L	10.01.2020 21:21	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0515	103	75-125	mg/L	10.01.2020 21:21	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0497	99	75-125	mg/L	10.01.2020 21:21	
Dichlorodifluoromethane	<0.000316	0.0500	0.0621	124	60-140	mg/L	10.01.2020 21:21	
1,1-Dichloroethane	<0.000244	0.0500	0.0550	110	72-125	mg/L	10.01.2020 21:21	
1,2-Dichloroethane	<0.000285	0.0500	0.0512	102	68-127	mg/L	10.01.2020 21:21	
1,1-Dichloroethene	<0.000216	0.0500	0.0572	114	59-172	mg/L	10.01.2020 21:21	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0543	109	75-125	mg/L	10.01.2020 21:21	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0546	109	75-125	mg/L	10.01.2020 21:21	
1,2-Dichloropropane	<0.000396	0.0500	0.0523	105	74-125	mg/L	10.01.2020 21:21	
1,3-Dichloropropane	<0.000439	0.0500	0.0489	98	75-125	mg/L	10.01.2020 21:21	
2,2-Dichloropropane	<0.000360	0.0500	0.0581	116	75-125	mg/L	10.01.2020 21:21	
1,1-Dichloropropene	<0.000481	0.0500	0.0516	103	75-125	mg/L	10.01.2020 21:21	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0504	101	74-125	mg/L	10.01.2020 21:21	
trans-1,3-dichloropropene	<0.000752	0.0500	0.0514	103	66-125	mg/L	10.01.2020 21:21	
Ethylbenzene	<0.000146	0.0500	0.0548	110	75-125	mg/L	10.01.2020 21:21	
Hexachlorobutadiene	<0.00200	0.0500	0.0539	108	75-125	mg/L	10.01.2020 21:21	
Isopropylbenzene	<0.000161	0.0500	0.0590	118	75-125	mg/L	10.01.2020 21:21	
Methylene Chloride	<0.00191	0.0500	0.0494	99	75-125	mg/L	10.01.2020 21:21	
MTBE	<0.000571	0.0500	0.0542	108	65-135	mg/L	10.01.2020 21:21	
Naphthalene	<0.00200	0.0500	0.0550	110	70-130	mg/L	10.01.2020 21:21	
n-Propylbenzene	<0.000179	0.0500	0.0573	115	75-125	mg/L	10.01.2020 21:21	
Styrene	<0.000162	0.0500	0.0518	104	75-125	mg/L	10.01.2020 21:21	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0565	113	72-125	mg/L	10.01.2020 21:21	
1,1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0622	124	74-125	mg/L	10.01.2020 21:21	
Tetrachloroethylene	<0.000500	0.0500	0.0550	110	71-125	mg/L	10.01.2020 21:21	
Toluene	<0.000500	0.0500	0.0519	104	59-139	mg/L	10.01.2020 21:21	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0550	110	75-137	mg/L	10.01.2020 21:21	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138710

Parent Sample Id: 673776-001

Matrix: Water

MS Sample Id: 673776-001 S

Prep Method: SW5030B

Date Prep: 10.01.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0546	109	75-135	mg/L	10.01.2020 21:21	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0538	108	75-125	mg/L	10.01.2020 21:21	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0481	96	75-127	mg/L	10.01.2020 21:21	
Trichloroethylene	<0.000424	0.0500	0.0492	98	62-137	mg/L	10.01.2020 21:21	
Trichlorofluoromethane	<0.000245	0.0500	0.0534	107	60-140	mg/L	10.01.2020 21:21	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0512	102	75-125	mg/L	10.01.2020 21:21	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0587	117	75-125	mg/L	10.01.2020 21:21	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0614	123	70-125	mg/L	10.01.2020 21:21	
o-Xylene	<0.000192	0.0500	0.0560	112	75-125	mg/L	10.01.2020 21:21	
m,p-Xylenes	<0.000330	0.100	0.108	108	75-125	mg/L	10.01.2020 21:21	
Vinyl Chloride	<0.000234	0.0500	0.0548	110	60-140	mg/L	10.01.2020 21:21	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		75-131	%	10.01.2020 21:21
1,2-Dichloroethane-D4	111		63-144	%	10.01.2020 21:21
Toluene-D8	103		80-117	%	10.01.2020 21:21
4-Bromofluorobenzene	100		74-124	%	10.01.2020 21:21

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138848

Parent Sample Id: 673986-001

Matrix: Liquid

MS Sample Id: 673986-001 S

Prep Method: SW5030B

Date Prep: 10.02.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0469	94	66-142	mg/L	10.02.2020 15:42	
Bromobenzene	<0.000300	0.0500	0.0482	96	75-125	mg/L	10.02.2020 15:42	
Bromochloromethane	<0.000209	0.0500	0.0488	98	60-140	mg/L	10.02.2020 15:42	
Bromodichloromethane	<0.000231	0.0500	0.0520	104	75-125	mg/L	10.02.2020 15:42	
Bromoform	<0.000630	0.0500	0.0511	102	75-125	mg/L	10.02.2020 15:42	
Methyl bromide	<0.001105	0.0500	0.0475	95	60-140	mg/L	10.02.2020 15:42	
2-Butanone	<0.00270	0.250	0.297	119	60-140	mg/L	10.02.2020 15:42	
n-Butylbenzene	<0.000286	0.0500	0.0485	97	75-125	mg/L	10.02.2020 15:42	
Sec-Butylbenzene	<0.000199	0.0500	0.0504	101	75-125	mg/L	10.02.2020 15:42	
tert-Butylbenzene	<0.000195	0.0500	0.0456	91	75-125	mg/L	10.02.2020 15:42	
Carbon Tetrachloride	<0.000423	0.0500	0.0502	100	62-125	mg/L	10.02.2020 15:42	
Chlorobenzene	<0.000159	0.0500	0.0494	99	60-133	mg/L	10.02.2020 15:42	
Chloroethane	<0.000433	0.0500	0.0481	96	60-140	mg/L	10.02.2020 15:42	
Chloroform	<0.000259	0.0500	0.0497	99	70-130	mg/L	10.02.2020 15:42	
Methyl Chloride	<0.000318	0.0500	0.0481	96	60-140	mg/L	10.02.2020 15:42	
2-Chlorotoluene	<0.000214	0.0500	0.0493	99	73-125	mg/L	10.02.2020 15:42	
4-Chlorotoluene	<0.000183	0.0500	0.0496	99	74-125	mg/L	10.02.2020 15:42	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0503	101	75-125	mg/L	10.02.2020 15:42	
Dibromochloromethane	<0.000739	0.0500	0.0538	108	73-125	mg/L	10.02.2020 15:42	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0497	99	59-125	mg/L	10.02.2020 15:42	
1,2-Dibromoethane	<0.000337	0.0500	0.0518	104	73-125	mg/L	10.02.2020 15:42	
Methylene Bromide	<0.000130	0.0500	0.0497	99	69-127	mg/L	10.02.2020 15:42	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0467	93	75-125	mg/L	10.02.2020 15:42	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0486	97	75-125	mg/L	10.02.2020 15:42	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0485	97	75-125	mg/L	10.02.2020 15:42	
Dichlorodifluoromethane	<0.000316	0.0500	0.0520	104	60-140	mg/L	10.02.2020 15:42	
1,1-Dichloroethane	<0.000244	0.0500	0.0505	101	72-125	mg/L	10.02.2020 15:42	
1,2-Dichloroethane	<0.000285	0.0500	0.0485	97	68-127	mg/L	10.02.2020 15:42	
1,1-Dichloroethene	<0.000216	0.0500	0.0493	99	59-172	mg/L	10.02.2020 15:42	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0508	102	75-125	mg/L	10.02.2020 15:42	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0501	100	75-125	mg/L	10.02.2020 15:42	
1,2-Dichloropropane	<0.000396	0.0500	0.0483	97	74-125	mg/L	10.02.2020 15:42	
1,3-Dichloropropane	<0.000439	0.0500	0.0509	102	75-125	mg/L	10.02.2020 15:42	
2,2-Dichloropropane	<0.000360	0.0500	0.0511	102	75-125	mg/L	10.02.2020 15:42	
1,1-Dichloropropene	<0.000481	0.0500	0.0510	102	75-125	mg/L	10.02.2020 15:42	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0553	111	74-125	mg/L	10.02.2020 15:42	
trans-1,3-dichloropropene	<0.000752	0.0500	0.0560	112	66-125	mg/L	10.02.2020 15:42	
Ethylbenzene	<0.000146	0.0500	0.0494	99	75-125	mg/L	10.02.2020 15:42	
Hexachlorobutadiene	<0.00200	0.0500	0.0501	100	75-125	mg/L	10.02.2020 15:42	
Isopropylbenzene	<0.000161	0.0500	0.0510	102	75-125	mg/L	10.02.2020 15:42	
Methylene Chloride	<0.00191	0.0500	0.0473	95	75-125	mg/L	10.02.2020 15:42	
MTBE	<0.000571	0.0500	0.0513	103	65-135	mg/L	10.02.2020 15:42	
Naphthalene	<0.00200	0.0500	0.0505	101	70-130	mg/L	10.02.2020 15:42	
n-Propylbenzene	<0.000179	0.0500	0.0507	101	75-125	mg/L	10.02.2020 15:42	
Styrene	<0.000162	0.0500	0.0506	101	75-125	mg/L	10.02.2020 15:42	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0477	95	72-125	mg/L	10.02.2020 15:42	
1,1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0489	98	74-125	mg/L	10.02.2020 15:42	
Tetrachloroethylene	<0.000500	0.0500	0.0474	95	71-125	mg/L	10.02.2020 15:42	
Toluene	<0.000500	0.0500	0.0517	103	59-139	mg/L	10.02.2020 15:42	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0461	92	75-137	mg/L	10.02.2020 15:42	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138848

Parent Sample Id: 673986-001

Matrix: Liquid

MS Sample Id: 673986-001 S

Prep Method: SW5030B

Date Prep: 10.02.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0473	95	75-135	mg/L	10.02.2020 15:42	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0511	102	75-125	mg/L	10.02.2020 15:42	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0513	103	75-127	mg/L	10.02.2020 15:42	
Trichloroethylene	<0.000424	0.0500	0.0481	96	62-137	mg/L	10.02.2020 15:42	
Trichlorofluoromethane	<0.000245	0.0500	0.0478	96	60-140	mg/L	10.02.2020 15:42	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0502	100	75-125	mg/L	10.02.2020 15:42	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0494	99	75-125	mg/L	10.02.2020 15:42	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0496	99	70-125	mg/L	10.02.2020 15:42	
o-Xylene	<0.000192	0.0500	0.0490	98	75-125	mg/L	10.02.2020 15:42	
m,p-Xylenes	<0.000330	0.100	0.100	100	75-125	mg/L	10.02.2020 15:42	
Vinyl Chloride	<0.000234	0.0500	0.0483	97	60-140	mg/L	10.02.2020 15:42	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	99		75-131	%	10.02.2020 15:42
1,2-Dichloroethane-D4	93		63-144	%	10.02.2020 15:42
Toluene-D8	99		80-117	%	10.02.2020 15:42
4-Bromofluorobenzene	102		74-124	%	10.02.2020 15:42

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Attachment A Laboratory Data Package Cover Page

Project Name: **Yellow Cab Tract 2**

Laboratory Number: **673823**

This Data package consists of : Laboratory Batch No(s): **7712582, 7713113, 7712899, 7712828, 7712**

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate Recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs) and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.
- Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies, observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC 25.6 and was last inspection by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Debbie Simmons
Name (Printed)


Signature

Project Manager
Official Title (printed)

10152020
Date

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data							
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10152020					
Project Name: Yellow Cab Tract 2		Laboratory Job Number : 673823					
Reviewer Name: DES		Batch Number(s) : 7712582, 7713113, 7712899, 7712828, 7712620, 7712499, 7712713, 7712609, 7712558, 7712514, 7713114, 7712690, 7712629, 7713112, 7712602, 7712500, 7713115, 7712525, 3138492					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (COC)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?	X				
		If required for the project, were TICs reported?			X		
R4	O	Surrogate Recovery Data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test Reports/Summary Forms for Blank Samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency ?	X				
		Were method blanks taken through the entire analytical procedure, including preparation and, if applicable, cleanup procedures ?	X				
		Were Blank Concentrations <MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within the QC limits?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within the laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs)					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data							
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10152020					
Project Name: Yellow Cab Tract 2		Laboratory Job Number : 673823					
Reviewer Name: DES		Batch Number(s) : 7712582, 7713113, 7712899, 7712828, 7712620, 7712499, 7712713, 7712609, 7712558, 7712514, 7713114, 7712690, 7712629, 7713112, 7712602, 7712500, 7713115, 7712525, 3138492					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and the highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB <MDL?	X				
S3	O	Mass Spectral Tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standard (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestions Spikes, and Method of Standard Additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method Detection Limit (MDL) Studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)					
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted to the TCEQ-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report Identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Attachment A (cont'd): Laboratory Review Checklist: Exception Reports

Laboratory Name: EUROFINS XENCO, LLC		LRC Date: 10152020	
Project Name: Yellow Cab Tract 2		Laboratory Job Number: 673823	
Reviewer Name: DES		Batch Number(s) : 7712582, 7713113, 7712899, 7712828, 7712620, 7712499, 7712713, 7712609, 7712558, 7712514, 7713114, 7712690, 7712629, 7713112, 7712602, 7712500, 7713115, 7712525, 3138492	
ER# 1	DESCRIPTION		
1	<p>SW8270D_SIM Batch 3139285, Surrogate Terphenyl-D14 recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 673823-015.</p>		
2	<p>SW8260C Batch 3138775, 2-Butanone, Methyl bromide recovered above QC limits in the laboratory control sample. Samples in the analytical batch are: 673823-001, -002, -004, -005, -006, -007. SW8270D_SIM Batch 3139054, Benzo(g,h,i)perylene, Indeno(1,2,3-c,d)Pyrene recovered below QC limits in the Blank Spike Duplicate indicating bias low results. Samples in the analytical batch are: 673823-015.</p>		
3	<p>TX1005 Batch 3138845, Lab Sample ID 673823-015 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). >C12-C28 Diesel Range Hydrocarbons recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673823-015, -016, -017, -018, -019, -020, -021. The Laboratory Control Sample for >C12-C28 Diesel Range Hydrocarbons is within laboratory Control Limits, therefore the data was accepted. SW7470A Batch 3138984, Lab Sample ID 673823-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Mercury recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673823-015, -017, -018, -019, -020, -021. The Laboratory Control Sample for Mercury is within laboratory Control Limits, therefore the data was accepted.</p>		

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No is checked on the LRC).

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **Mercury by SW 7471A**

Matrix: **Soil**

Prep Method: **SW7471P**

Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Mercury	0.00384	0.0200	0.00200	0.00229	mg/kg

Analytical Method: **Mercury by SW-846 7470A**

Matrix: **Water**

Prep Method: **SW7470P**

Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Mercury	0.0000263	0.000200	0.000100	0.000110	mg/L

Analytical Method: **PAHs by SW846 8270D SIM**

Matrix: **Soil**

Prep Method: **SW3546**

Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Acenaphthene	0.000790	0.00167	0.000833	0.000787	mg/kg
Acenaphthylene	0.000893	0.00167	0.000833	0.000753	mg/kg
Anthracene	0.00109	0.00167	0.000833	0.000705	mg/kg
Benzo(a)anthracene	0.00108	0.00167	0.000833	0.000759	mg/kg
Benzo(a)pyrene	0.00122	0.00167	0.000833	0.000450	mg/kg
Benzo(b)fluoranthene	0.00114	0.00167	0.000833	0.000921	mg/kg
Benzo(g,h,i)perylene	0.00145	0.00167	0.000833	0.00111	mg/kg
Benzo(k)fluoranthene	0.000992	0.00167	0.000833	0.00163	mg/kg
Chrysene	0.000847	0.00167	0.000833	0.00105	mg/kg
Dibenz(a,h)anthracene	0.00137	0.00167	0.000833	0.00118	mg/kg
Fluoranthene	0.00134	0.00167	0.000833	0.000892	mg/kg
Fluorene	0.000922	0.00167	0.000833	0.000773	mg/kg
Indeno(1,2,3-c,d)Pyrene	0.00132	0.00167	0.000833	0.00103	mg/kg
Naphthalene	0.000849	0.0167	0.000833	0.000891	mg/kg
Phenanthrene	0.00101	0.00167	0.000833	0.000755	mg/kg
Pyrene	0.000911	0.00167	0.000833	0.000778	mg/kg

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: PAHs by SW846 8270D SIM

Matrix: Water

Prep Method: SW3511

Laboratory: Xenco - Houston

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Acenaphthene	.00000275	0.00000500	0.0000050	0.0000035	mg/L
Acenaphthylene	.00000232	0.00000500	0.0000050	0.0000029	mg/L
Anthracene	.00000238	0.00000500	0.0000050	0.0000029	mg/L
Benzo(a)anthracene	.00000370	0.00000500	0.0000050	0.0000039	mg/L
Benzo(a)pyrene	.00000157	0.00000500	0.0000050	0.0000029	mg/L
Benzo(b)fluoranthene	.00000196	0.00000500	0.0000050	0.0000039	mg/L
Benzo(g,h,i)perylene	.00000311	0.00000500	0.0000050	0.0000031	mg/L
Benzo(k)fluoranthene	.00000319	0.00000500	0.0000050	0.0000034	mg/L
Chrysene	.00000429	0.00000500	0.0000050	0.0000047	mg/L
Dibenz(a,h)anthracene	.00000209	0.00000500	0.0000050	0.0000024	mg/L
Fluoranthene	.00000432	0.00000500	0.0000050	0.0000044	mg/L
Fluorene	.00000277	0.00000500	0.0000050	0.0000032	mg/L
Indeno(1,2,3-c,d)Pyrene	.00000251	0.00000500	0.0000050	0.0000027	mg/L
Naphthalene	.00000267	0.0000100	0.0000050	0.0000036	mg/L
Phenanthrene	.00000234	0.00000500	0.0000050	0.0000035	mg/L
Pyrene	.00000358	0.00000500	0.0000050	0.0000036	mg/L

Analytical Method: TPH by Texas1005

Matrix: Soil

Prep Method: TX1005P

Laboratory: Xenco - Houston

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
C6-C12 Gasoline Range	21.1	50.0	25.0	25.0	mg/kg
>C12-C28 Diesel Range	21.1	50.0	25.0	21.0	mg/kg

Analytical Method: TPH by Texas1005

Matrix: Water

Prep Method: TX1005P

Laboratory: Xenco - Houston

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
C6-C12 Gasoline Range	0.885	5.00	0.250	0.220	mg/L
>C12-C28 Diesel Range	0.863	5.00	0.250	0.210	mg/L

Analytical Method: Total RCRA Metals by SW6020A

Matrix: Soil

Prep Method: SW3051

Laboratory: Xenco - Houston

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Arsenic	0.0617	0.400	0.400	0.284	mg/kg
Barium	0.0347	0.400	0.400	0.373	mg/kg
Cadmium	0.0116	0.200	0.200	0.155	mg/kg
Chromium	0.0271	0.400	0.400	0.380	mg/kg
Lead	0.0194	0.200	0.200	0.180	mg/kg
Selenium	0.0496	0.200	0.0500	0.0370	mg/kg
Silver	0.0159	0.200	0.200	0.167	mg/kg

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **Total RCRA Metals by SW6020A**

Matrix: **Water**

Prep Method: **SW3010A**

Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Arsenic	0.000246	0.00400	0.00200	0.00294	mg/L
Barium	0.000484	0.00400	0.00400	0.00401	mg/L
Cadmium	0.000147	0.00200	0.00100	0.00163	mg/L
Chromium	0.000525	0.00400	0.00200	0.00400	mg/L
Lead	0.000152	0.00200	0.00100	0.00190	mg/L
Selenium	0.000454	0.00200	0.00100	0.00237	mg/L
Silver	0.000251	0.00200	0.00100	0.00171	mg/L

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Soil**

Prep Method: **SW5035A**

Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Benzene	0.000207	0.00100	0.00100	0.00104	mg/kg
Bromobenzene	0.000346	0.00500	0.00100	0.00104	mg/kg
Bromochloromethane	0.000526	0.00500	0.00100	0.000960	mg/kg
Bromodichloromethane	0.000251	0.00500	0.00100	0.000830	mg/kg
Bromoform	0.00103	0.00500	0.00500	0.00473	mg/kg
Methyl bromide	0.000943	0.00500	0.00100	0.00107	mg/kg
2-Butanone	0.00365	0.0200	0.00500	0.00572	mg/kg
tert-Butylbenzene	0.00128	0.00500	0.00500	0.00533	mg/kg
Sec-Butylbenzene	0.000261	0.00500	0.00100	0.000880	mg/kg
n-Butylbenzene	0.000274	0.00500	0.00100	0.000860	mg/kg
Carbon Tetrachloride	0.00164	0.00500	0.00500	0.00402	mg/kg
Chlorobenzene	0.000237	0.00500	0.00100	0.00109	mg/kg
Chloroethane	0.000444	0.0100	0.00100	0.00111	mg/kg
Chloroform	0.000173	0.00500	0.00100	0.000970	mg/kg
Methyl Chloride	0.000431	0.00500	0.00100	0.00121	mg/kg
2-Chlorotoluene	0.000342	0.00500	0.00100	0.00108	mg/kg
4-Chlorotoluene	0.000264	0.00500	0.00100	0.00105	mg/kg
p-Cymene (p-Isopropyl	0.000319	0.00500	0.00100	0.000870	mg/kg
1,2-Dibromo-3-Chloro	0.000704	0.00500	0.00100	0.00110	mg/kg
Dibromochloromethane	0.000895	0.00500	0.00100	0.00299	mg/kg
1,2-Dibromoethane	0.00104	0.00500	0.00500	0.00455	mg/kg
Methylene Bromide	0.000371	0.00500	0.00100	0.00107	mg/kg
1,2-Dichlorobenzene	0.000288	0.00500	0.00100	0.00108	mg/kg
1,3-Dichlorobenzene	0.000273	0.00500	0.00100	0.00100	mg/kg
1,4-Dichlorobenzene	0.000214	0.00500	0.00100	0.00105	mg/kg
Dichlorodifluoromethan	0.00111	0.00500	0.00500	0.00418	mg/kg
1,2-Dichloroethane	0.000304	0.00500	0.00100	0.00101	mg/kg
1,1-Dichloroethane	0.000376	0.00500	0.00100	0.00108	mg/kg
trans-1,2-dichloroethyle	0.000434	0.00500	0.00100	0.000940	mg/kg
cis-1,2-Dichloroethylen	0.000301	0.00500	0.00100	0.000970	mg/kg
1,1-Dichloroethene	0.000277	0.00500	0.00100	0.00100	mg/kg
2,2-Dichloropropane	0.000524	0.00500	0.00100	0.000970	mg/kg
1,3-Dichloropropane	0.000409	0.00500	0.00100	0.000900	mg/kg
1,2-Dichloropropane	0.000198	0.00500	0.00100	0.000760	mg/kg
trans-1,3-dichloroprop	0.000909	0.00500	0.00100	0.00127	mg/kg
1,1-Dichloropropene	0.000448	0.00500	0.00100	0.00132	mg/kg
cis-1,3-Dichloropropen	0.000230	0.00500	0.00100	0.00124	mg/kg
Ethylbenzene	0.000336	0.00100	0.00100	0.00115	mg/kg
Hexachlorobutadiene	0.00200	0.00500	0.00100	0.00108	mg/kg
Isopropylbenzene	0.000174	0.00500	0.00100	0.00104	mg/kg
Methylene Chloride	0.00422	0.0200	0.00500	0.00572	mg/kg
MTBE	0.000409	0.00500	0.00100	0.00123	mg/kg
Naphthalene	0.00200	0.0100	0.00100	0.00104	mg/kg
n-Propylbenzene	0.000286	0.00500	0.00100	0.000940	mg/kg
Styrene	0.000205	0.00500	0.00100	0.000980	mg/kg
1,1,1,2-Tetrachloroethar	0.000267	0.00500	0.00100	0.000810	mg/kg
1,1,2,2-Tetrachloroethar	0.000470	0.00500	0.00100	0.000980	mg/kg
Tetrachloroethylene	0.000370	0.00500	0.00100	0.000950	mg/kg
Toluene	0.00100	0.00500	0.00100	0.00138	mg/kg
1,2,3-Trichlorobenzene	0.00200	0.00500	0.00500	0.00467	mg/kg
1,2,4-Trichlorobenzene	0.00200	0.00500	0.00100	0.000980	mg/kg

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Soil**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
1,1,2-Trichloroethane	0.000392	0.00500	0.00100	0.000880	mg/kg
1,1,1-Trichloroethane	0.000503	0.00500	0.00100	0.00135	mg/kg
Trichloroethylene	0.000494	0.00500	0.00100	0.000990	mg/kg
Trichlorofluoromethane	0.000307	0.00500	0.00100	0.00100	mg/kg
1,2,3-Trichloropropane	0.000450	0.00500	0.00100	0.00114	mg/kg
1,2,4-Trimethylbenzene	0.000255	0.00500	0.00100	0.000960	mg/kg
1,3,5-Trimethylbenzene	0.000289	0.00500	0.00100	0.000910	mg/kg
Vinyl Chloride	0.000441	0.00500	0.00100	0.00112	mg/kg
o-Xylene	0.000985	0.00100	0.00100	0.00118	mg/kg
m,p-Xylenes	0.000800	0.00200	0.00200	0.00226	mg/kg

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Water**

Prep Method: **SW5030B**

Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Benzene	0.000214	0.00100	0.000250	0.000370	mg/L
Bromobenzene	0.000300	0.00100	0.000250	0.000370	mg/L
Bromochloromethane	0.000209	0.00100	0.000500	0.000440	mg/L
Bromodichloromethane	0.000231	0.00100	0.000250	0.000460	mg/L
Bromoform	0.000630	0.00500	0.00100	0.00124	mg/L
Methyl bromide	0.00105	0.00500	0.000500	0.000570	mg/L
2-Butanone	0.00270	0.0500	0.00250	0.00375	mg/L
n-Butylbenzene	0.000286	0.00100	0.00200	0.00176	mg/L
Sec-Butylbenzene	0.000199	0.00100	0.000250	0.000230	mg/L
tert-Butylbenzene	0.000195	0.00100	0.000250	0.000210	mg/L
Carbon Tetrachloride	0.000423	0.00500	0.000250	0.000270	mg/L
Chlorobenzene	0.000159	0.00100	0.000250	0.000280	mg/L
Chloroethane	0.000433	0.0100	0.000500	0.000630	mg/L
Chloroform	0.000259	0.00100	0.000250	0.000600	mg/L
Methyl Chloride	0.000318	0.0100	0.000250	0.000450	mg/L
2-Chlorotoluene	0.000214	0.00100	0.000250	0.000210	mg/L
4-Chlorotoluene	0.000183	0.00100	0.000250	0.000260	mg/L
p-Cymene (p-Isopropyl)	0.000233	0.00100	0.000250	0.000150	mg/L
Dibromochloromethane	0.000739	0.00500	0.000250	0.000440	mg/L
1,2-Dibromo-3-Chloro	0.000319	0.00100	0.00100	0.000800	mg/L
1,2-Dibromoethane	0.000337	0.00500	0.000500	0.000450	mg/L
Methylene Bromide	0.000130	0.00100	0.000500	0.000460	mg/L
1,2-Dichlorobenzene	0.000236	0.00100	0.000250	0.000360	mg/L
1,3-Dichlorobenzene	0.000197	0.00100	0.000250	0.000370	mg/L
1,4-Dichlorobenzene	0.000199	0.00100	0.000250	0.000430	mg/L
Dichlorodifluoromethan	0.000316	0.00100	0.000250	0.000310	mg/L
1,1-Dichloroethane	0.000244	0.00100	0.000250	0.000300	mg/L
1,2-Dichloroethane	0.000285	0.00100	0.000250	0.000260	mg/L
1,1-Dichloroethene	0.000216	0.00100	0.000250	0.000280	mg/L
cis-1,2-Dichloroethylen	0.000174	0.00100	0.000250	0.000240	mg/L
trans-1,2-dichloroethyle	0.000256	0.00100	0.000250	0.000200	mg/L
1,2-Dichloropropane	0.000396	0.00500	0.000250	0.000270	mg/L
1,3-Dichloropropane	0.000439	0.00500	0.000250	0.000240	mg/L
2,2-Dichloropropane	0.000360	0.00500	0.000250	0.000170	mg/L
1,1-Dichloropropene	0.000481	0.00500	0.000250	0.000290	mg/L
cis-1,3-Dichloropropen	0.000690	0.00500	0.000500	0.000390	mg/L
trans-1,3-dichloroprope	0.000752	0.00500	0.000500	0.000420	mg/L
Ethylbenzene	0.000146	0.00100	0.000250	0.000260	mg/L
Hexachlorobutadiene	0.00200	0.00500	0.00200	0.00197	mg/L
Isopropylbenzene	0.000161	0.00100	0.000250	0.000240	mg/L
Methylene Chloride	0.00191	0.00500	0.00200	0.00206	mg/L
MTBE	0.000571	0.00500	0.000500	0.000750	mg/L
Naphthalene	0.00200	0.0100	0.00200	0.00145	mg/L
n-Propylbenzene	0.000179	0.00100	0.000250	0.000280	mg/L
Styrene	0.000162	0.00100	0.000250	0.000290	mg/L
1,1,1,2-Tetrachloroethar	0.000327	0.00100	0.000500	0.000540	mg/L
1,1,2,2-Tetrachloroethar	0.000284	0.00100	0.000500	0.000460	mg/L
Tetrachloroethylene	0.000500	0.00100	0.000500	0.000500	mg/L
Toluene	0.000500	0.00100	0.000500	0.000480	mg/L
1,2,3-Trichlorobenzene	0.00200	0.00500	0.00200	0.00174	mg/L
1,2,4-Trichlorobenzene	0.00200	0.00500	0.00200	0.00189	mg/L

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Water**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
1,1,1-Trichloroethane	0.000504	0.00500	0.000250	0.000200	mg/L
1,1,2-Trichloroethane	0.000228	0.00100	0.000500	0.000460	mg/L
Trichloroethylene	0.000424	0.00500	0.000250	0.000210	mg/L
Trichlorofluoromethane	0.000245	0.00100	0.000250	0.000360	mg/L
1,2,3-Trichloropropane	0.000283	0.00100	0.000250	0.000270	mg/L
1,2,4-Trimethylbenzene	0.000252	0.00100	0.000250	0.000280	mg/L
1,3,5-Trimethylbenzene	0.000279	0.00100	0.000250	0.000210	mg/L
o-Xylene	0.000192	0.00100	0.000500	0.000430	mg/L
m,p-Xylenes	0.000330	0.0100	0.00100	0.000900	mg/L
Vinyl Chloride	0.000234	0.00200	0.000250	0.000240	mg/L



Chain of Custody

Work Order No: **673823**

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

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Project Manager:	<i>John Lenette</i>	Bill to: (if different)	
Company Name:	<i>Est Partners</i>	Company Name:	
Address:	<i>2002 West Grand Parkway N, Suite 140</i>	Address:	
City, State ZIP:	<i>Hobby, TX 77449</i>	City, State ZIP:	
Phone:	<i>281-501-6100</i>	Email:	<i>john@estpartners.com</i>

Program:	<input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:	<input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input checked="" type="checkbox"/> Level IV
Reporting Level:	<input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input checked="" type="checkbox"/> Level IV
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	<i>Yellow Cab Tract 2</i>	Turn Around	<input checked="" type="checkbox"/>
Project Number:	<i>20-0506</i>	Routine	<input type="checkbox"/>
P.O. Number:		Rush:	<input type="checkbox"/>
Sampler's Name:	<i>Lothar Beall</i>	Due Date:	<i>10-6-2020</i>

SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No
Temperature (°C):		Thermometer ID				
Received Intact:	Yes	No				
Cooler Custody Seals:	Yes	No		Temp: <i>4.6</i>	IR ID: <i>HOU-203</i>	
Sample Custody Seals:	Yes	No		C/F: <i>+0.1</i>	Corrected Temp: <i>4.7</i>	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Work Order Notes
T-2 TMR-06 (2-4)	5	9:28:20	0900	2-4'	6	TPH (1005) VOC (8260) RCRA 8 Metals TPH (1006) PAH pH	H = Hold
T-2 TMR-07 (2-4)	1	1040	1040	2-4'			
T-2 TMR-08 (8-10)	1	1449	1449	8-10'			
T-2 TMR-09 (2-4)		1350	1350	2-4'			
T-2 TMR-10 (2-4)		0810	0810	2-4'			
T-2 TMR-15 (2-4)		0942	0942	2-4'			
T-2 TMR-06 (2-24)		1243	1243	2-24'			
T-2 TMR-08 (2-24)		1049	1049	2-24'			

Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	9:28:20	<i>[Signature]</i>	<i>[Signature]</i>	9:28:20



Chain of Custody

Work Order No: 673823

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Project Manager: ESE Partners Bill to: (if different)

Company Name: ESE Partners Company Name:

Address: Address:

City, State ZIP: City, State ZIP:

Phone: Email:

Project Name: Yellow Cab Tract 2 Turn Around

Project Number: 20-0506 Routine

P.O. Number: Rush:

Sampler's Name: Colin Bell Due Date: 10.6.2020

Program: UST/PST PRP Brownfields RRC Superfund

State of Project:

Reporting Level: Level II Level III PST/UST TRRP Level IV

Deliverables: EDD ADAPT Other:

SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No

Temperature (°C): Thermometer ID

Received Intact: Yes No

Cooler Custody Seals: Yes No N/A Correction Factor:

Sample Custody Seals: Yes No N/A Total Containers:

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (1005)	VOC (826)	RCRA 8 Metals	TPH (1006)	PAH	pH
T-2 TMM-09 (22-24)	S	9-28-2020	1527	22-24'	6	H	H	H	H	H	H
T-2 TMM-10 (22-24)			1354	22-24'	1	H	H	H	H	H	H
T-2 TMM-04 (22-24)			0815	22-24'	1	H	H	H	H	H	H
T-2 TMM-05 (22-24)			0949	22-24'	1	H	H	H	H	H	H
T-2 TMM-04	GW		0830		8	H	H	H	H	H	H
T-2 TMM-05			1000			H	H	H	H	H	H
T-2 TMM-06			0912			H	H	H	H	H	H
T-2 TMM-07			1300			H	H	H	H	H	H
T-2 TMM-08			1100			H	H	H	H	H	H
T-2 TMM-09			1540			H	H	H	H	H	H

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 09/20/20

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 09/20/20



Chain of Custody

Work Order No: 673823

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Project Manager:	ESE Partners	Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	
Project Name:	Yellow Cab Tract 2	Turn Around:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush:
Project Number:	90-0506	Sampler's Name:	Collin Bell
P.O. Number:		Due Date:	10.6.2020
Sampler's Name:	Collin Bell	SAMPLE RECEIPT	Temp Blank: Yes No Wet Ice: Yes No Thermometer ID
		Temperature (°C):	Received Intact: Yes No Cooler Custody Seals: Yes No N/A Sample Custody Seals: Yes No N/A

ANALYSIS REQUEST

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level: I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input checked="" type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	
Work Order Notes	H=Hold

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers							Sample Comments		
					TPH (1005)	VOC (8260)	RCRA 8 Metals	TPH (1006)	PAH	pH				
T-2 TMW-10	Gr	9-28-2020	1440 hr	-	8	X	X	X	H	H	H			T-2 TMW-10

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9-28-2020 8:15		Risarkur	9-29-2010 3:0

Inter-Office Shipment

IOS Number : 71593

Date/Time: 10.08.2020

Created by: Debbie Simmons

Please send report to: Debbie Simmons

Lab# From: **Houston**

Delivery Priority:

Address: 4147 Greenbriar Dr.

Lab# To: **Dallas**


Air Bill No.:

E-Mail: debbie.simmons@xenco.com


Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
673823-003	S	T2 TMW-08 (8-10)	09.28.2020 10:40	TX1006AL	TPH Speciation by Texas 1006 - Alipha	10.14.2020	10.14.2020 10:40	DES	CLC8N PHCC12C16AL I	
673823-003	S	T2 TMW-08 (8-10)	09.28.2020 10:40	TX1006AR	TPH Speciation by Texas 1006 - Aroma	10.14.2020	10.14.2020 10:40	DES	CLC8N HYDAROM HYI	
673823-007	S	T2 TMW-05 (2-4)	09.28.2020 09:42	TX1006AL	TPH Speciation by Texas 1006 - Alipha	10.14.2020	10.14.2020 09:42	DES	CLC8N PHCC12C16AL I	
673823-007	S	T2 TMW-05 (2-4)	09.28.2020 09:42	TX1006AR	TPH Speciation by Texas 1006 - Aroma	10.14.2020	10.14.2020 09:42	DES	CLC8N HYDAROM HYI	

Inter Office Shipment or Sample Comments:

1005 extracted 10/2

Relinquished By: 
Debbie Simmons

Date Relinquished: 10.08.2020

Received By: 
Whitney Capps

Date Received: 10.09.2020

Cooler Temperature: 3.3



Inter Office Report- Sample Receipt Checklist

Sent To: Dallas

IOS #: 71593

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR2

Sent By: Debbie Simmons

Date Sent: 10.08.2020 01.52 PM

Received By: Whitney Capps

Date Received: 10.09.2020 11.07 AM

Sample Receipt Checklist

Comments

- #1 *Temperature of cooler(s)? 3.3
- #2 *Shipping container in good condition? Yes
- #3 *Samples received with appropriate temperature? Yes
- #4 *Custody Seals intact on shipping container/ cooler? No
- #5 *Custody Seals Signed and dated for Containers/coolers N/A
- #6 *IOS present? Yes
- #7 Any missing/extra samples? No
- #8 IOS agrees with sample label(s)/matrix? Yes
- #9 Sample matrix/ properties agree with IOS? Yes
- #10 Samples in proper container/ bottle? Yes
- #11 Samples properly preserved? Yes
- #12 Sample container(s) intact? Yes
- #13 Sufficient sample amount for indicated test(s)? Yes
- #14 All samples received within hold time? Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

1005 extracted 10/2

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Whitney Capps

Date: 10.09.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: ESE Partners

Date/ Time Received: 09.29.2020 10.30.00 AM

Work Order #: 673823

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-203

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	Yes

SET OF TRIP BLANK NOT ON THE COC

SOME SAMPLES DEPHT DID NOT MATCH COC FOLLO THE COC

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: TOL

PH Device/Lot#: 10BDH0601 ONLY ON METAL

Eurofins Xenco, LLC
Prelogin/Nonconformance Report- Sample Log-In

Client: ESE Partners

Date/ Time Received: 09.29.2020 10.30.00 AM

Work Order #: 673823

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Sample Receipt Checklist

10BDH0601 ONLY ON METAL CONTAINER

Checklist completed by: Lisandra Date: 09.29.2020
Lisandra Torres

Checklist reviewed by: Debbie Simmons Date: 09.29.2020
Debbie Simmons

Analytical Report 673859

for

ESE Partners

Project Manager: Jason Binford

20-0506

10.01.2020

Collected By: Client



**4147 Greenbriar Dr.
Stafford, TX 77477**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.01.2020

Project Manager: **Jason Binford**

ESE Partners

2002 West Grand Parkway North, Suite 140
Katy, TX 77449

Reference: Eurofins Xenco, LLC Report No(s): **673859**
20-0506

Project Address:

Jason Binford:

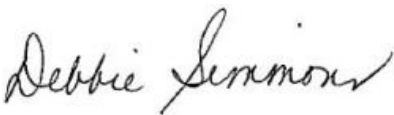
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673859. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673859 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Debbie Simmons
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 673859

ESE Partners, Katy, TX

20-0506

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TS-TMW-02	W	09.29.2020 12:40		673859-001

CASE NARRATIVE SUMMARY

Client Name: ESE Partners

Project Name: 20-0506

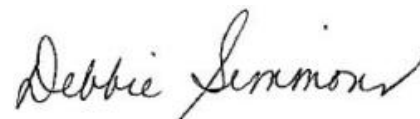
Project ID:

Work Order Number: 673859

Report Date: 10.01.2020

Date Received: 09.29.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.



Debbie Simmons
Project Manager

Certificate of Analytical Results

673859

ESE Partners, Katy, TX
 20-0506

Sample Id: TS-TMW-02	Matrix: Water	Sample Depth:
Lab Sample Id: 673859-001	Date Collected: 09.29.2020 12:40	Date Received: 09.29.2020 17:02
Analytical Method: Chromium, Hexavalent by SW 7196A		Prep Method:
Analyst: KBU	% Moist:	Tech: KBU
Seq Number: 3138513	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chromium, Hexavalent	18540-29-9	<0.00239	0.0100	0.00239	mg/L	09.30.2020 09:46	U	1

Certificate of Analytical Results

673859

ESE Partners, Katy, TX
 20-0506

Sample Id: 3138513-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 3138513-1-BLK	Date Collected:	Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A	% Moist:	Prep Method:
Analyst: KBU	Date Prep:	Tech: KBU
Seq Number: 3138513	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chromium, Hexavalent	18540-29-9	<0.00239	0.0100	0.00239	mg/L	09.30.2020 09:46	U	1

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Chromium, Hexavalent by SW 7196A

Client : ESE Partners

Work Order #: **673859**

Project ID:

Date Received: 09.29.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
TS-TMW-02	673859-001	09.29.2020			09.30.2020	09.30.2020	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Analytical Log

Analytical Method: Chromium, Hexavalent by SW 7196A
Project Name: 20-0506
Client Name: ESE Partners

Batch #: 3138513
Project ID: _____
WO Number: 673859

Client Sample Id	Lab Sample Id	QC Types
TS-TMW-02	673859-001	SMP
	3138513-1-BKS	BKS
	3138513-1-BLK	BLK
	3138513-1-BSD	BSD
	673859-001 S	MS
	673859-001 SD	MSD

ESE Partners

20-0506

Analytical Method: Chromium, Hexavalent by SW 7196A

Seq Number: 3138513 Matrix: Water
 MB Sample Id: 3138513-1-BLK LCS Sample Id: 3138513-1-BKS LCSD Sample Id: 3138513-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium, Hexavalent	<0.00239	0.200	0.204	102	0.207	104	85-115	1	20	mg/L	09.30.2020 09:46	

Analytical Method: Chromium, Hexavalent by SW 7196A

Seq Number: 3138513 Matrix: Water
 Parent Sample Id: 673859-001 MS Sample Id: 673859-001 S MSD Sample Id: 673859-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium, Hexavalent	<0.00239	0.200	0.185	93	0.184	92	85-115	1	20	mg/L	09.30.2020 09:46	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Attachment A Laboratory Data Package Cover Page

Project Name: 20-0506

Laboratory Number: 673859

This Data package consists of : Laboratory Batch No(s): 3138513

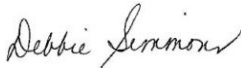
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate Recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs) and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.
- Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies, observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC 25.6 and was last inspection by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Debbie Simmons
Name (Printed)


Signature

Project Manager
Official Title (printed)

10012020
Date

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data							
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10012020					
Project Name: 20-0506		Laboratory Job Number : 673859					
Reviewer Name: DES		Batch Number(s) : 3138513					
#1	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (COC)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results <MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, were TICs reported?			X		
R4	O	Surrogate Recovery Data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency ?	X				
		Were method blanks taken through the entire analytical procedure, including preparation and, if applicable, cleanup procedures ?	X				
		Were Blank Concentrations <MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within the QC limits?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within the laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method Quantitation Limits (MQLs)					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data							
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10012020					
Project Name: 20-0506		Laboratory Job Number : 673859					
Reviewer Name: DES		Batch Number(s) : 3138513					
#1	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and the highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X		
S3	O	Mass Spectral Tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal Standard (IS)					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	Raw Data (NELAC 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual Column Confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial Dilutions, Post Digestions Spikes, and Method of Standard Additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method Detection Limit (MDL) Studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)					
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted to the TCEQ-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report Identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Attachment A (cont'd): Laboratory Review Checklist: Exception Reports

Laboratory Name: EUROFINS XENCO, LLC	LRC Date: 10012020
Project Name: 20-0506	Laboratory Job Number: 673859
Reviewer Name: DES	Batch Number(s) : 3138513
ER# 1	DESCRIPTION

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No is checked on the LRC).

ESE Partners, Katy, TX
20-0506

Analytical Method: **Chromium, Hexavalent by SW 7196A**

Matrix: **Water**

Prep Method:

Laboratory: **Xenco - Houston**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
Chromium, Hexavalent	0.00239	0.0100	0.00500	0.00400	mg/L



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8900) Tampa, FL (813-620-2000)

Xenco

Work Order No: 1072859

www.xenco.com Page _____ of _____

Project Manager: ESE Partners, LLC	Bill to: (if different)	Work Order Comments	
Address: 2002 West Grand Parkway North, Ste 140 Katy, Texas 77449	Company Name: ESE Partners	Program: <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____	
Phone: 281.501.6100	Email: <u>yuan@esepartners.com</u>		

ANALYSIS REQUEST				Work Order Notes																	
Project Name:	Turn Around	Number of Containers																			
Project Number: 20-0506	Routine <input type="checkbox"/>			TAT starts the day received by the lab, if received by 4:30pm																	
P.O. Number: 20-0506	Rush: <input type="checkbox"/>																				
Sampler's Name: Bunkerford	Due Date: _____			Sample Comments																	
<table border="1"> <tr> <th>SAMPLE RECEIPT</th> <th>Temp Blank:</th> <th>Wet Ice:</th> <th>Thermometer ID</th> </tr> <tr> <td>Temperature (°C): 1-11.2</td> <td>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></td> <td>Yes No <input type="checkbox"/> <input type="checkbox"/></td> <td>H0V-203</td> </tr> <tr> <td>Received Intact: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></td> <td>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></td> <td>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></td> <td>Correction Factor: 10.1</td> </tr> <tr> <td>Cooler Custody Seals: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></td> <td>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></td> <td colspan="2">Total Containers: _____</td> </tr> </table>					SAMPLE RECEIPT	Temp Blank:	Wet Ice:	Thermometer ID	Temperature (°C): 1-11.2	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input type="checkbox"/> <input type="checkbox"/>	H0V-203	Received Intact: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Correction Factor: 10.1	Cooler Custody Seals: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Total Containers: _____		
SAMPLE RECEIPT	Temp Blank:	Wet Ice:	Thermometer ID																		
Temperature (°C): 1-11.2	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input type="checkbox"/> <input type="checkbox"/>	H0V-203																		
Received Intact: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Correction Factor: 10.1																		
Cooler Custody Seals: Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Total Containers: _____																			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth																	
T2-TM1-02	W	9/29/20	12:40	-																	

Relinquished by: (Signature)	Relinquished by: (Signature)	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	9-29-20 4:20	9-29-20 4:10

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client; if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Relinquished by: (Signature)	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	9-29-20 4:20	9-29-20 4:10

Date: 9/29/2020
Signature: [Handwritten Signature]



Sign

Eurofins Xenco, LLC
Prelogin/Nonconformance Report- Sample Log-In

Client: ESE Partners

Date/ Time Received: 09.29.2020 05.02.00 PM

Work Order #: 673859

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-203

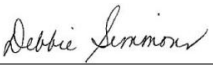
Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: MDB

PH Device/Lot#: 10BDH0681

Checklist completed by:  Date: 09.29.2020
Monica Benavides

Checklist reviewed by:  Date: 09.30.2020
Debbie Simmons

Analytical Report 673901

for

ESE Partners

Project Manager: John Lembcke

Yellow Cab Tract 2

20-0506

10.13.2020

Collected By: Client



**9701 Harry Hines Blvd
Dallas, TX 75220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.13.2020

Project Manager: **John Lembcke**

ESE Partners

2002 West Grand Parkway North, Suite 140

Katy, TX 77449

Reference: Eurofins Xenco, LLC Report No(s): **673901**

Yellow Cab Tract 2

Project Address: ---

John Lembcke:

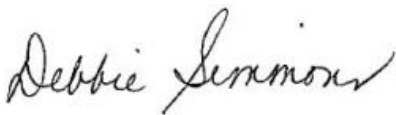
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 673901. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 673901 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Debbie Simmons

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 673901

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-2 SGS-01	A	09.28.2020 17:34		673901-001
T-2 SGS-02	A	09.28.2020 17:19		673901-002
T-2 SGS-03	A	09.28.2020 17:00		673901-003
T-2 SGS-04	A	09.28.2020 16:49		673901-004
T-2 SGS-05	A	09.28.2020 12:04		673901-005
T-2 SGS-06	A	09.28.2020 14:06		673901-006

CASE NARRATIVE

Client Name: ESE Partners

Project Name: Yellow Cab Tract 2

Project ID: 20-0506
Work Order Number(s): 673901

Report Date: 10.13.2020
Date Received: 09.30.2020

Sample receipt non conformances and comments:

Lab Pressure Reading

001: -2"Hg
002: -1"Hg
003: -2"Hg
004: -2"Hg
005: -1"Hg
006: -1"Hg

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3138952 VOCs in Air by GC/MS by TO-15

Surrogate Difluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 674112-004 D.

Certificate of Analytical Results 673901

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id: T-2 SGS-01	Matrix: Air	Date Received: 09.30.20 10.47
Lab Sample Id: 673901-001	Date Collected: 09.28.20 17.34	
Analytical Method: VOCs in Air by GC/MS by TO-15		Prep Method: TO-15_PREP
Tech: SOZ		% Moisture:
Analyst: SOZ	Date Prep: 10.05.20 12.05	
Seq Number: 3138952		SUB: T104704295-19-26

Parameter	Cas Number	Result ppbv	MDL ppbv	Result ug/m3	RL ug/m3	MDL ug/m3	Analysis Date	Flag	Dil
1,1-Dichloroethene	75-35-4	<0.250	0.250	<0.991	3.96	0.991	10.06.20 14.23	U*	1
Benzene	71-43-2	10.5	0.250	33.4	3.19	0.798	10.06.20 14.23		1
cis-1,2-Dichloroethene	156-59-2	<0.250	0.250	<0.991	3.96	0.991	10.06.20 14.23	U	1
Ethyl Benzene	100-41-4	2.44	0.251	10.6	4.34	1.09	10.06.20 14.23		1
m,p-Xylene	179601-23-1	3.09	0.251	13.4	4.34	1.09	10.06.20 14.23		1
Methyl t-Butyl Ether (MtBE)	1634-04-4	<0.250	0.250	<0.899	3.60	0.899	10.06.20 14.23	U*	1
Naphthalene	91-20-3	0.300	0.250	1.57	5.24	1.31	10.06.20 14.23	J+	1
o-Xylene	95-47-6	2.22	0.251	9.64	4.34	1.09	10.06.20 14.23		1
Tetrachloroethylene	127-18-4	<0.249	0.249	<1.69	6.78	1.69	10.06.20 14.23	U	1
Toluene	108-88-3	16.7	0.250	62.8	3.77	0.942	10.06.20 14.23		1
trans-1,2-dichloroethene	156-60-5	<0.250	0.250	<0.991	3.96	0.991	10.06.20 14.23	U	1
Trichloroethylene	79-01-6	<0.249	0.249	<1.34	5.37	1.34	10.06.20 14.23	U	1
Vinyl Chloride	75-01-4	<0.250	0.250	<0.639	2.56	0.639	10.06.20 14.23	U	1
				%					
Surrogate				Recovery	Units	Limits	Analysis Date	Flag	
Difluorobenzene				102	%	70-130	10.06.20 14.23		

Certificate of Analytical Results 673901

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 SGS-02** Matrix: Air Date Received: 09.30.20 10.47
 Lab Sample Id: 673901-002 Date Collected: 09.28.20 17.19
 Analytical Method: VOCs in Air by GC/MS by TO-15 Prep Method: TO-15_PREP
 Tech: SOZ % Moisture:
 Analyst: SOZ Date Prep: 10.05.20 12.05
 Seq Number: 3138952 SUB: T104704295-19-26

Parameter	Cas Number	Result ppbv	MDL ppbv	Result ug/m3	RL ug/m3	MDL ug/m3	Analysis Date	Flag	Dil
1,1-Dichloroethene	75-35-4	<0.250	0.250	<0.991	3.96	0.991	10.06.20 14.54	U*	1
Benzene	71-43-2	19.8	0.250	63.1	3.19	0.798	10.06.20 14.54		1
cis-1,2-Dichloroethene	156-59-2	<0.250	0.250	<0.991	3.96	0.991	10.06.20 14.54	U	1
Ethyl Benzene	100-41-4	2.30	0.251	9.98	4.34	1.09	10.06.20 14.54		1
m,p-Xylene	179601-23-1	3.18	0.251	13.8	4.34	1.09	10.06.20 14.54		1
Methyl t-Butyl Ether (MtBE)	1634-04-4	<0.250	0.250	<0.899	3.60	0.899	10.06.20 14.54	U*	1
Naphthalene	91-20-3	0.290	0.250	1.52	5.24	1.31	10.06.20 14.54	J+	1
o-Xylene	95-47-6	2.20	0.251	9.55	4.34	1.09	10.06.20 14.54		1
Tetrachloroethylene	127-18-4	<0.249	0.249	<1.69	6.78	1.69	10.06.20 14.54	U	1
Toluene	108-88-3	27.3	0.250	103	3.77	0.942	10.06.20 14.54		1
trans-1,2-dichloroethene	156-60-5	<0.250	0.250	<0.991	3.96	0.991	10.06.20 14.54	U	1
Trichloroethylene	79-01-6	<0.249	0.249	<1.34	5.37	1.34	10.06.20 14.54	U	1
Vinyl Chloride	75-01-4	0.841	0.250	2.15	2.56	0.639	10.06.20 14.54	J	1
				%					
Surrogate				Recovery	Units	Limits	Analysis Date	Flag	
Difluorobenzene				105	%	70-130	10.06.20 14.54		

Certificate of Analytical Results 673901

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 SGS-03** Matrix: Air Date Received: 09.30.20 10.47
 Lab Sample Id: 673901-003 Date Collected: 09.28.20 17.00
 Analytical Method: VOCs in Air by GC/MS by TO-15 Prep Method: TO-15_PREP
 Tech: SOZ % Moisture:
 Analyst: SOZ Date Prep: 10.05.20 12.05
 Seq Number: 3138952 SUB: T104704295-19-26

Parameter	Cas Number	Result ppbv	MDL ppbv	Result ug/m3	RL ug/m3	MDL ug/m3	Analysis Date	Flag	Dil
1,1-Dichloroethene	75-35-4	<0.250	0.250	<0.991	3.96	0.991	10.06.20 17.46	U*	1
Benzene	71-43-2	20700	351	66100	4480	1120	10.08.20 15.09	D	1402
cis-1,2-Dichloroethene	156-59-2	<0.250	0.250	<0.991	3.96	0.991	10.06.20 17.46	U	1
Ethyl Benzene	100-41-4	7070	350	30700	6090	1520	10.08.20 15.09	D	1402
m,p-Xylene	179601-23-1	103	2.51	445	43.4	10.9	10.06.20 18.15	D	10
Methyl t-Butyl Ether (MtBE)	1634-04-4	23700	350	85300	5040	1260	10.08.20 15.09	D*	1402
Naphthalene	91-20-3	0.719	0.250	3.77	5.24	1.31	10.06.20 17.46	J+	1
o-Xylene	95-47-6	47.5	2.51	206	43.4	10.9	10.06.20 18.15	D	10
Tetrachloroethylene	127-18-4	<0.249	0.249	<1.69	6.78	1.69	10.06.20 17.46	U	1
Toluene	108-88-3	94.8	2.50	357	37.7	9.42	10.06.20 18.15	D	10
trans-1,2-dichloroethene	156-60-5	<0.250	0.250	<0.991	3.96	0.991	10.06.20 17.46	U	1
Trichloroethylene	79-01-6	<0.249	0.249	<1.34	5.37	1.34	10.06.20 17.46	U	1
Vinyl Chloride	75-01-4	2.51	0.250	6.41	2.56	0.639	10.06.20 17.46		1
				%					
Surrogate				Recovery	Units	Limits	Analysis Date	Flag	
Difluorobenzene				114	%	70-130	10.06.20 17.46		

Certificate of Analytical Results 673901

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 SGS-04** Matrix: Air Date Received: 09.30.20 10.47
 Lab Sample Id: 673901-004 Date Collected: 09.28.20 16.49
 Analytical Method: VOCs in Air by GC/MS by TO-15 Prep Method: TO-15_PREP
 Tech: SOZ % Moisture:
 Analyst: SOZ Date Prep: 10.05.20 12.05
 Seq Number: 3138952 SUB: T104704295-19-26

Parameter	Cas Number	Result ppbv	MDL ppbv	Result ug/m3	RL ug/m3	MDL ug/m3	Analysis Date	Flag	Dil
1,1-Dichloroethene	75-35-4	<0.250	0.250	<0.991	3.96	0.991	10.06.20 18.46	U*	1
Benzene	71-43-2	6.80	0.250	21.7	3.19	0.798	10.06.20 18.46		1
cis-1,2-Dichloroethene	156-59-2	<0.250	0.250	<0.991	3.96	0.991	10.06.20 18.46	U	1
Ethyl Benzene	100-41-4	2.28	0.251	9.90	4.34	1.09	10.06.20 18.46		1
m,p-Xylene	179601-23-1	2.35	0.251	10.2	4.34	1.09	10.06.20 18.46		1
Methyl t-Butyl Ether (MtBE)	1634-04-4	<0.250	0.250	<0.899	3.60	0.899	10.06.20 18.46	U*	1
Naphthalene	91-20-3	0.361	0.250	1.89	5.24	1.31	10.06.20 18.46	J+	1
o-Xylene	95-47-6	1.71	0.251	7.42	4.34	1.09	10.06.20 18.46		1
Tetrachloroethylene	127-18-4	<0.249	0.249	<1.69	6.78	1.69	10.06.20 18.46	U	1
Toluene	108-88-3	29.2	0.250	110	3.77	0.942	10.06.20 18.46		1
trans-1,2-dichloroethene	156-60-5	<0.250	0.250	<0.991	3.96	0.991	10.06.20 18.46	U	1
Trichloroethylene	79-01-6	<0.249	0.249	<1.34	5.37	1.34	10.06.20 18.46	U	1
Vinyl Chloride	75-01-4	<0.250	0.250	<0.639	2.56	0.639	10.06.20 18.46	U	1
Surrogate				% Recovery	Units	Limits	Analysis Date	Flag	
Difluorobenzene				101	%	70-130	10.06.20 18.46		

Certificate of Analytical Results 673901

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id: **T-2 SGS-05** Matrix: Air Date Received: 09.30.20 10.47
 Lab Sample Id: 673901-005 Date Collected: 09.28.20 12.04
 Analytical Method: VOCs in Air by GC/MS by TO-15 Prep Method: TO-15_PREP
 Tech: SOZ % Moisture:
 Analyst: SOZ Date Prep: 10.05.20 12.05
 Seq Number: 3138952 SUB: T104704295-19-26

Parameter	Cas Number	Result ppbv	MDL ppbv	Result ug/m3	RL ug/m3	MDL ug/m3	Analysis Date	Flag	Dil
1,1-Dichloroethene	75-35-4	<0.250	0.250	<0.991	3.96	0.991	10.06.20 19.46	U*	1
Benzene	71-43-2	9.43	0.250	30.1	3.19	0.798	10.06.20 19.46		1
cis-1,2-Dichloroethene	156-59-2	<0.250	0.250	<0.991	3.96	0.991	10.06.20 19.46	U	1
Ethyl Benzene	100-41-4	2.51	0.251	10.9	4.34	1.09	10.06.20 19.46		1
m,p-Xylene	179601-23-1	3.66	0.251	15.9	4.34	1.09	10.06.20 19.46		1
Methyl t-Butyl Ether (MtBE)	1634-04-4	<0.250	0.250	<0.899	3.60	0.899	10.06.20 19.46	U*	1
Naphthalene	91-20-3	2.46	0.250	12.9	5.24	1.31	10.06.20 19.46	+	1
o-Xylene	95-47-6	3.34	0.251	14.5	4.34	1.09	10.06.20 19.46		1
Tetrachloroethylene	127-18-4	<0.249	0.249	<1.69	6.78	1.69	10.06.20 19.46	U	1
Toluene	108-88-3	13.2	0.250	49.9	3.77	0.942	10.06.20 19.46		1
trans-1,2-dichloroethene	156-60-5	<0.250	0.250	<0.991	3.96	0.991	10.06.20 19.46	U	1
Trichloroethylene	79-01-6	<0.249	0.249	<1.34	5.37	1.34	10.06.20 19.46	U	1
Vinyl Chloride	75-01-4	0.411	0.250	1.05	2.56	0.639	10.06.20 19.46	J	1
Surrogate				% Recovery	Units	Limits	Analysis Date	Flag	
Difluorobenzene				103	%	70-130	10.06.20 19.46		

Certificate of Analytical Results 673901

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id: **T-2 SGS-06** Matrix: Air Date Received: 09.30.20 10.47
 Lab Sample Id: 673901-006 Date Collected: 09.28.20 14.06
 Analytical Method: VOCs in Air by GC/MS by TO-15 Prep Method: TO-15_PREP
 Tech: SOZ % Moisture:
 Analyst: SOZ Date Prep: 10.05.20 12.05
 Seq Number: 3138952 SUB: T104704295-19-26

Parameter	Cas Number	Result ppbv	MDL ppbv	Result ug/m3	RL ug/m3	MDL ug/m3	Analysis Date	Flag	Dil
1,1-Dichloroethene	75-35-4	<0.250	0.250	<0.991	3.96	0.991	10.06.20 20.46	U*	1
Benzene	71-43-2	13.1	0.250	41.8	3.19	0.798	10.06.20 20.46		1
cis-1,2-Dichloroethene	156-59-2	1.26	0.250	4.99	3.96	0.991	10.06.20 20.46		1
Ethyl Benzene	100-41-4	2.10	0.251	9.12	4.34	1.09	10.06.20 20.46		1
m,p-Xylene	179601-23-1	2.60	0.251	11.3	4.34	1.09	10.06.20 20.46		1
Methyl t-Butyl Ether (MtBE)	1634-04-4	<0.250	0.250	<0.899	3.60	0.899	10.06.20 20.46	U*	1
Naphthalene	91-20-3	<0.250	0.250	<1.31	5.24	1.31	10.06.20 20.46	U+	1
o-Xylene	95-47-6	1.84	0.251	7.99	4.34	1.09	10.06.20 20.46		1
Tetrachloroethylene	127-18-4	1.12	0.249	7.59	6.78	1.69	10.06.20 20.46		1
Toluene	108-88-3	21.1	0.250	79.6	3.77	0.942	10.06.20 20.46		1
trans-1,2-dichloroethene	156-60-5	<0.250	0.250	<0.991	3.96	0.991	10.06.20 20.46	U	1
Trichloroethylene	79-01-6	<0.249	0.249	<1.34	5.37	1.34	10.06.20 20.46	U	1
Vinyl Chloride	75-01-4	1.85	0.250	4.73	2.56	0.639	10.06.20 20.46		1
Surrogate				% Recovery	Units	Limits	Analysis Date	Flag	
Difluorobenzene				103	%	70-130	10.06.20 20.46		

ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: 7712705-1-BLK
Lab Sample Id: 7712705-1-BLK

Matrix: AIR

Analytical Method: VOCs in Air by GC/MS by TO-15

Prep Method: TO-15_PREP

Tech: SOZ

Analyst: SOZ

Date Prep: 10.05.2020 12:05

Seq Number: 3138952

SUB: T104704295-19-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,1-Dichloroethene	75-35-4	<0.991	3.96	0.991	ug/m3	10.05.2020 23:16	U	1
Benzene	71-43-2	<0.798	3.19	0.798	ug/m3	10.05.2020 23:16	U	1
cis-1,2-Dichloroethene	156-59-2	<0.991	3.96	0.991	ug/m3	10.05.2020 23:16	U	1
Ethyl Benzene	100-41-4	<1.09	4.34	1.09	ug/m3	10.05.2020 23:16	U	1
m,p-Xylene	179601-23-1	<1.09	4.34	1.09	ug/m3	10.05.2020 23:16	U	1
Methyl t-Butyl Ether (MtBE)	1634-04-4	<0.899	3.60	0.899	ug/m3	10.05.2020 23:16	U	1
Naphthalene	91-20-3	<1.31	5.24	1.31	ug/m3	10.05.2020 23:16	U	1
o-Xylene	95-47-6	<1.09	4.34	1.09	ug/m3	10.05.2020 23:16	U	1
Tetrachloroethylene	127-18-4	<1.69	6.78	1.69	ug/m3	10.05.2020 23:16	U	1
Toluene	108-88-3	<0.942	3.77	0.942	ug/m3	10.05.2020 23:16	U	1
trans-1,2-dichloroethene	156-60-5	<0.991	3.96	0.991	ug/m3	10.05.2020 23:16	U	1
Trichloroethylene	79-01-6	<1.34	5.37	1.34	ug/m3	10.05.2020 23:16	U	1
Vinyl Chloride	75-01-4	<0.639	2.56	0.639	ug/m3	10.05.2020 23:16	U	1

ESE Partners, Katy, TX
 Yellow Cab Tract 2

Sample Id: 7712890-1-BLK

Matrix: AIR

Lab Sample Id: 7712890-1-BLK

Analytical Method: **VOCs in Air by GC/MS by TO-15**

Prep Method: TO-15_PREP

Tech: SOZ

Analyst: SOZ

Date Prep: 10.08.2020 09:00

Seq Number: 3139198

SUB: T104704295-19-26

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.79	3.19	0.798	ug/m3	10.08.2020 12:46		1
Ethyl Benzene	100-41-4	<1.09	4.34	1.09	ug/m3	10.08.2020 12:46		1
m,p-Xylene	179601-23-1	<1.09	4.34	1.09	ug/m3	10.08.2020 12:46		1
Methyl t-Butyl Ether (MtBE)	1634-04-4	2.05	3.60	0.899	ug/m3	10.08.2020 12:46		1
o-Xylene	95-47-6	<1.09	4.34	1.09	ug/m3	10.08.2020 12:46		1
Toluene	108-88-3	<0.942	3.77	0.942	ug/m3	10.08.2020 12:46		1

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 673901

Project ID: 20-0506

Lab Batch #: 3138952

Sample: 7712705-1-BKS / BKS

Batch: 1 Matrix: Air

Units: ug/m3

Date Analyzed: 10.05.2020 22:47

SURROGATE RECOVERY STUDY

VOCs in Air by GC/MS by TO-15 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Difluorobenzene	11.7	11.7	100	70-130	

Lab Batch #: 3138952

Sample: 7712705-1-BLK / BLK

Batch: 1 Matrix: Air

Units: ug/m3

Date Analyzed: 10.05.2020 23:16

SURROGATE RECOVERY STUDY

VOCs in Air by GC/MS by TO-15 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Difluorobenzene	11.4	11.7	97	70-130	

Lab Batch #: 3138952

Sample: 674112-004 D / MD

Batch: 1 Matrix: Air

Units: ug/m3

Date Analyzed: 10.06.2020 12:26

SURROGATE RECOVERY STUDY

VOCs in Air by GC/MS by TO-15 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Difluorobenzene	<1.17	11.7	0	70-130	**

Lab Batch #: 3139198

Sample: 7712890-1-BKS / BKS

Batch: 1 Matrix: Air

Units: ug/m3

Date Analyzed: 10.08.2020 12:17

SURROGATE RECOVERY STUDY

VOCs in Air by GC/MS by TO-15 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Difluorobenzene	11.8	11.7	101	70-130	

Lab Batch #: 3139198

Sample: 7712890-1-BLK / BLK

Batch: 1 Matrix: Air

Units: ug/m3

Date Analyzed: 10.08.2020 12:46

SURROGATE RECOVERY STUDY

VOCs in Air by GC/MS by TO-15 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Difluorobenzene	10.5	11.7	90	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs in Air by GC/MS by TO-15

Seq Number: 3138952

Matrix: Air

Prep Method: TO-15_PREP

Date Prep: 10.05.2020

MB Sample Id: 7712705-1-BLK

LCS Sample Id: 7712705-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.991	19.8	22.9	116	70-130	ug/m3	10.05.2020 22:47	
Benzene	<0.798	16.0	18.1	113	70-130	ug/m3	10.05.2020 22:47	
cis-1,2-Dichloroethene	<0.991	19.8	23.2	117	70-130	ug/m3	10.05.2020 22:47	
Ethyl Benzene	<1.09	21.7	24.8	114	70-130	ug/m3	10.05.2020 22:47	
m,p-Xylene	<1.09	21.7	24.4	112	70-130	ug/m3	10.05.2020 22:47	
Methyl t-Butyl Ether (MtBE)	<0.899	18.0	20.5	114	70-130	ug/m3	10.05.2020 22:47	
Naphthalene	<1.31	26.2	29.2	111	70-130	ug/m3	10.05.2020 22:47	
o-Xylene	<1.09	21.7	25.7	118	70-130	ug/m3	10.05.2020 22:47	
Tetrachloroethylene	<1.69	33.9	37.2	110	70-130	ug/m3	10.05.2020 22:47	
Toluene	<0.942	18.8	20.8	111	70-130	ug/m3	10.05.2020 22:47	
trans-1,2-dichloroethene	<0.991	19.8	22.9	116	70-130	ug/m3	10.05.2020 22:47	
Trichloroethylene	<1.34	26.9	30.8	114	70-130	ug/m3	10.05.2020 22:47	
Vinyl Chloride	<0.639	12.8	14.5	113	70-130	ug/m3	10.05.2020 22:47	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date	
Difluorobenzene	97		100		70-130	%	10.05.2020 22:47	

Analytical Method: VOCs in Air by GC/MS by TO-15

Seq Number: 3139198

Matrix: Air

Prep Method: TO-15_PREP

Date Prep: 10.08.2020

MB Sample Id: 7712890-1-BLK

LCS Sample Id: 7712890-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Benzene	1.79	16.0	17.5	109	70-130	ug/m3	10.08.2020 12:17	
Ethyl Benzene	<1.09	21.7	20.9	96	70-130	ug/m3	10.08.2020 12:17	
m,p-Xylene	<1.09	21.7	20.6	95	70-130	ug/m3	10.08.2020 12:17	
Methyl t-Butyl Ether (MtBE)	2.05	18.0	20.5	114	70-130	ug/m3	10.08.2020 12:17	
o-Xylene	<1.09	21.7	20.6	95	70-130	ug/m3	10.08.2020 12:17	
Toluene	<0.942	18.8	18.5	98	70-130	ug/m3	10.08.2020 12:17	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date	
Difluorobenzene	90		101		70-130	%	10.08.2020 12:17	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs in Air by GC/MS by TO-15

Seq Number: 3138952

Matrix: Air

Prep Method: TO-15_PREP

Date Prep: 10.05.2020

Parent Sample Id: 674112-004

MD Sample Id: 674112-004 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1-Dichloroethene	<3.96	<3.96	0	25	ug/m3	10.06.2020 12:26	
Benzene	150	172	14	25	ug/m3	10.06.2020 12:26	
cis-1,2-Dichloroethene	<3.96	<3.96	0	25	ug/m3	10.06.2020 12:26	
Ethyl Benzene	37.3	41.3	10	25	ug/m3	10.06.2020 12:26	
m,p-Xylene	39.9	44.4	11	25	ug/m3	10.06.2020 12:26	
Methyl t-Butyl Ether (MtBE)	<3.60	<3.60	0	25	ug/m3	10.06.2020 12:26	
Naphthalene	<5.24	<5.24	0	25	ug/m3	10.06.2020 12:26	
o-Xylene	36.5	39.4	8	25	ug/m3	10.06.2020 12:26	
Tetrachloroethylene	<6.78	<6.78	0	25	ug/m3	10.06.2020 12:26	
Toluene	2200	2430	10	25	ug/m3	10.06.2020 12:26	
trans-1,2-dichloroethene	<3.96	<3.96	0	25	ug/m3	10.06.2020 12:26	
Trichloroethylene	<5.37	<5.37	0	25	ug/m3	10.06.2020 12:26	
Vinyl Chloride	<2.56	3.99	NC	25	ug/m3	10.06.2020 12:26	J

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Setting the Standard since 1990

AIR SAMPLING CHAIN OF CUSTODY

Xenco Job #: 03001D

Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

San Antonio, Texas (210-509-3334)
Lubbock, TX (806-794-1296)

Midland, TX (432-704-5251)
Phoenix, Arizona (480-355-0900)

El Paso, TX (915-585-34

Client/Project Information

Company Name: ESE Partners
 Project Contact: John Lembecke
 Email: john.lembecke@esepartners.com Ph.No.: 281.501.6100
 Project Name & No.: Yellow Lab Tract 2 (20-0506)
 Site Location:
 P.O. No.:
 Samplers(s): Colton Beall

AIR TYPE
 = Indoor SV = Soil Vapor
 A = Ambient

Lab #	Field ID/Point of Collection	Start Date	Start Time	Stop Date	Stop Time
T-2	565-01	9-28-2020	1704 hr	9-28-2020	1734 hr
T-2	565-02		1634 hr		1719 hr
T-2	565-03		1627 hr		1700 hr
T-2	565-04		1618 hr		1649 hr
T-2	565-05		1127 hr		1204 hr
T-2	565-06		1327 hr		1406 hr

Canister ID	Flow Regulator ID	Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab
5834	10017	29	0	2
14053	10005	24	0	1
5933	10003	27	0	2
14013	06734	30	0	2
14037	06987	30	0	1
14027	06504	28	0	1

Analysis Requested	Remarks
VOC (TO-15)	

(1) Relinquished By: _____ Date/Time: 9-29-20 09:20
 (2) Relinquished By: _____ Date/Time: 9-29-20 09:15
 (3) Relinquished By: _____ Date/Time: 9-29-20 10:30
 (4) Relinquished By: _____ Date/Time: 12-01-20 10:47

(1) Received By: _____
 (2) Received By: _____
 (3) Received By: _____
 (4) Received By: _____

Requested TAT: 7 Day 3 Day Same Day
 5 Day 2 Day Need By:
 Shipping Information: FedEx Other: UPS Tracking No.: LSO

12.9/23.3

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: ESE Partners

Date/ Time Received: 09.30.2020 10.47.00 AM

Work Order #: 673901

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR2

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	No
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Whitney Capps Date: 09.30.2020
 Whitney Capps

Checklist reviewed by: Debbie Simmons Date: 09.30.2020
 Debbie Simmons

Analytical Report 674205

for

ESE Partners

Project Manager: John Lembcke

Yellow Cab Tract 2

10.13.2020

Collected By: Client



**4147 Greenbriar Dr.
Stafford, TX 77477**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.13.2020

Project Manager: **John Lembcke**

ESE Partners

2002 West Grand Parkway North, Suite 140
Katy, TX 77449

Reference: Eurofins Xenco, LLC Report No(s): **674205**

Yellow Cab Tract 2

Project Address:

John Lembcke:

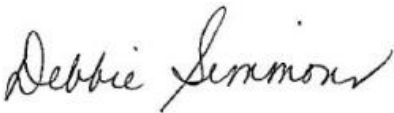
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674205. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674205 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Debbie Simmons

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 674205

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T2-MW-1	W	10.01.2020 14:55		674205-001
T2-MW-3	W	10.01.2020 14:30		674205-002
Trip Blank	W	10.01.2020 00:00		Not Analyzed

CASE NARRATIVE SUMMARY

Client Name: *ESE Partners*

Project Name: *Yellow Cab Tract 2*

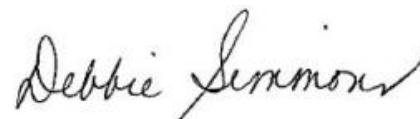
Project ID:

Work Order Number: 674205

Report Date: 10.13.2020

Date Received: 10.02.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.



Debbie Simmons
Project Manager

Certificate of Analytical Results

674205

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2-MW-1	Matrix: Water	Sample Depth:
Lab Sample Id: 674205-001	Date Collected: 10.01.2020 14:55	Date Received: 10.02.2020 13:55
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3139070	Date Prep: 10.07.2020 07:50	Tech: ANJ
	Prep seq: 7712768	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	10.07.2020 13:57	U	1

Analytical Method: Total RCRA Metals by SW6020A	Prep Method: 3010A
Analyst: DEP	% Moist:
Seq Number: 3139021	Date Prep: 10.06.2020 10:05
	Prep seq: 7712701
	Tech: DEP

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0162	0.00400	0.000246	mg/L	10.06.2020 19:52		1
Barium	7440-39-3	0.225	0.00400	0.000484	mg/L	10.06.2020 19:52		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.06.2020 19:52	U	1
Chromium	7440-47-3	<0.000525	0.00400	0.000525	mg/L	10.06.2020 19:52	U	1
Lead	7439-92-1	0.000374	0.00200	0.000152	mg/L	10.06.2020 19:52	J	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.06.2020 19:52	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.06.2020 19:52	U	1

Analytical Method: TPH by Texas1005	Prep Method: 1005
Analyst: ISU	% Moist:
Seq Number: 3139189	Date Prep: 10.07.2020 11:32
	Prep seq: 7712778
	Tech: ISU

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Range Hydrocarbons	PHC612	0.962	4.71	0.834	mg/L	10.07.2020 17:51	J	1
>C12-C28 Range Hydrocarbons	PHCG1228	<0.813	4.71	0.813	mg/L	10.07.2020 17:51	U	1
>C28-C35 Range Hydrocarbons	PHCG2835	<0.813	4.71	0.813	mg/L	10.07.2020 17:51	U	1
Total TPH 1005	PHC635	0.962		0.813	mg/L	10.07.2020 17:51	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	94	70 - 130	%		
1-Chlorooctane	80	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2-MW-1	Matrix: Water	Sample Depth:
Lab Sample Id: 674205-001	Date Collected: 10.01.2020 14:55	Date Received: 10.02.2020 13:55
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138973	Date Prep: 10.05.2020 16:00	Tech: SAD
	Prep seq: 7712715	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00491	0.00100	0.000214	mg/L	10.05.2020 18:28		1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.05.2020 18:28	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.05.2020 18:28	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.05.2020 18:28	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.05.2020 18:28	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.05.2020 18:28	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.05.2020 18:28	UH	1
n-Butylbenzene	104-51-8	0.000600	0.00100	0.000286	mg/L	10.05.2020 18:28	J	1
Sec-Butylbenzene	135-98-8	0.000510	0.00100	0.000199	mg/L	10.05.2020 18:28	J	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.05.2020 18:28	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.05.2020 18:28	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.05.2020 18:28	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.05.2020 18:28	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.05.2020 18:28	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.05.2020 18:28	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.05.2020 18:28	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.05.2020 18:28	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.05.2020 18:28	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.05.2020 18:28	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.05.2020 18:28	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.05.2020 18:28	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.05.2020 18:28	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.05.2020 18:28	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.05.2020 18:28	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.05.2020 18:28	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.05.2020 18:28	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.05.2020 18:28	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.05.2020 18:28	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.05.2020 18:28	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.05.2020 18:28	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.05.2020 18:28	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.05.2020 18:28	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.05.2020 18:28	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.05.2020 18:28	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.05.2020 18:28	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.05.2020 18:28	UH	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.05.2020 18:28	UH	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.05.2020 18:28	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.05.2020 18:28	U	1
Isopropylbenzene	98-82-8	0.00446	0.00100	0.000161	mg/L	10.05.2020 18:28		1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.05.2020 18:28	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	10.05.2020 18:28	U	1
Naphthalene	91-20-3	0.0106	0.0100	0.00200	mg/L	10.05.2020 18:28		1

Certificate of Analytical Results

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: T2-MW-1	Matrix: Water	Sample Depth:
Lab Sample Id: 674205-001	Date Collected: 10.01.2020 14:55	Date Received: 10.02.2020 13:55
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138973	Date Prep: 10.05.2020 16:00	

Parameter	CAS Number	Prep seq: 7712715 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	0.00755	0.00100	0.000179	mg/L	10.05.2020 18:28		1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.05.2020 18:28	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.05.2020 18:28	U	1
1,1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.05.2020 18:28	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.05.2020 18:28	U	1
Toluene	108-88-3	0.00106	0.00100	0.000500	mg/L	10.05.2020 18:28		1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.05.2020 18:28	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.05.2020 18:28	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.05.2020 18:28	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.05.2020 18:28	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.05.2020 18:28	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.05.2020 18:28	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.05.2020 18:28	U	1
1,2,4-Trimethylbenzene	95-63-6	0.000590	0.00100	0.000252	mg/L	10.05.2020 18:28	J	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.05.2020 18:28	U	1
o-Xylene	95-47-6	0.000690	0.00100	0.000192	mg/L	10.05.2020 18:28	J	1
m,p-Xylenes	179601-23-1	0.00232	0.0100	0.000330	mg/L	10.05.2020 18:28	J	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.05.2020 18:28	U	1
Total Xylenes	1330-20-7	0.00301		0.000192	mg/L	10.05.2020 18:28		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	100	75 - 131	%		
1,2-Dichloroethane-D4	92	63 - 144	%		
Toluene-D8	99	80 - 117	%		
4-Bromofluorobenzene	106	74 - 124	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2-MW-3	Matrix: Water	Sample Depth:
Lab Sample Id: 674205-002	Date Collected: 10.01.2020 14:30	Date Received: 10.02.2020 13:55
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3139070	Date Prep: 10.07.2020 07:50	Tech: ANJ
	Prep seq: 7712768	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	0.0000320	0.000200	0.0000263	mg/L	10.07.2020 13:59	J	1

Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3139021	Date Prep: 10.06.2020 10:05	Tech: DEP
	Prep seq: 7712701	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00112	0.00400	0.000246	mg/L	10.06.2020 19:55	J	1
Barium	7440-39-3	0.121	0.00400	0.000484	mg/L	10.06.2020 19:55		1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.06.2020 19:55	U	1
Chromium	7440-47-3	0.000759	0.00400	0.000525	mg/L	10.06.2020 19:55	J	1
Lead	7439-92-1	0.00146	0.00200	0.000152	mg/L	10.06.2020 19:55	J	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.06.2020 19:55	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.06.2020 19:55	U	1

Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3139189	Date Prep: 10.07.2020 11:38	Tech: ISU
	Prep seq: 7712778	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Range Hydrocarbons	PHC612	<0.840	4.74	0.840	mg/L	10.07.2020 18:32	U	1
>C12-C28 Range Hydrocarbons	PHCG1228	<0.819	4.74	0.819	mg/L	10.07.2020 18:32	U	1
>C28-C35 Range Hydrocarbons	PHCG2835	<0.819	4.74	0.819	mg/L	10.07.2020 18:32	U	1
Total TPH 1005	PHC635	<0.819		0.819	mg/L	10.07.2020 18:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	94	70 - 130	%		
1-Chlorooctane	81	70 - 130	%		

Certificate of Analytical Results

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ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: T2-MW-3	Matrix: Water	Sample Depth:
Lab Sample Id: 674205-002	Date Collected: 10.01.2020 14:30	Date Received: 10.02.2020 13:55
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138973	Date Prep: 10.05.2020 16:00	Tech: SAD
	Prep seq: 7712715	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.05.2020 18:48	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.05.2020 18:48	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.05.2020 18:48	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.05.2020 18:48	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.05.2020 18:48	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.05.2020 18:48	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.05.2020 18:48	UH	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.05.2020 18:48	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.05.2020 18:48	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.05.2020 18:48	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.05.2020 18:48	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.05.2020 18:48	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.05.2020 18:48	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.05.2020 18:48	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.05.2020 18:48	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.05.2020 18:48	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.05.2020 18:48	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.05.2020 18:48	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.05.2020 18:48	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.05.2020 18:48	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.05.2020 18:48	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.05.2020 18:48	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.05.2020 18:48	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.05.2020 18:48	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.05.2020 18:48	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.05.2020 18:48	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.05.2020 18:48	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.05.2020 18:48	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.05.2020 18:48	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.05.2020 18:48	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.05.2020 18:48	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.05.2020 18:48	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.05.2020 18:48	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.05.2020 18:48	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.05.2020 18:48	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.05.2020 18:48	UH	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.05.2020 18:48	UH	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.05.2020 18:48	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.05.2020 18:48	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.05.2020 18:48	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.05.2020 18:48	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	10.05.2020 18:48	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.05.2020 18:48	U	1

Certificate of Analytical Results

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ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: T2-MW-3	Matrix: Water	Sample Depth:
Lab Sample Id: 674205-002	Date Collected: 10.01.2020 14:30	Date Received: 10.02.2020 13:55
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138973	Date Prep: 10.05.2020 16:00	

Parameter	CAS Number	Prep seq: 7712715 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.05.2020 18:48	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.05.2020 18:48	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.05.2020 18:48	U	1
1,1,1,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.05.2020 18:48	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.05.2020 18:48	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.05.2020 18:48	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.05.2020 18:48	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.05.2020 18:48	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.05.2020 18:48	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.05.2020 18:48	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.05.2020 18:48	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.05.2020 18:48	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.05.2020 18:48	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.05.2020 18:48	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.05.2020 18:48	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.05.2020 18:48	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.05.2020 18:48	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.05.2020 18:48	U	1
Total Xylenes	1330-20-7	<0.000192		0.000192	mg/L	10.05.2020 18:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	98	75 - 131	%		
1,2-Dichloroethane-D4	98	63 - 144	%		
Toluene-D8	101	80 - 117	%		
4-Bromofluorobenzene	103	74 - 124	%		

Certificate of Analytical Results

674205

ESE Partners, Katy, TX
 Yellow Cab Tract 2

Sample Id: 7712701-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712701-1-BLK	Date Collected:	Date Received:
Analytical Method: Total RCRA Metals by SW6020A		Prep Method: 3010A
Analyst: DEP	% Moist:	
Seq Number: 3139021	Date Prep: 10.06.2020 10:05	Tech: DEP
	Prep seq: 7712701	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	<0.000246	0.00400	0.000246	mg/L	10.06.2020 19:14	U	1
Barium	7440-39-3	<0.000484	0.00400	0.000484	mg/L	10.06.2020 19:14	U	1
Cadmium	7440-43-9	<0.000147	0.00200	0.000147	mg/L	10.06.2020 19:14	U	1
Chromium	7440-47-3	<0.000525	0.00400	0.000525	mg/L	10.06.2020 19:14	U	1
Lead	7439-92-1	<0.000152	0.00200	0.000152	mg/L	10.06.2020 19:14	U	1
Selenium	7782-49-2	<0.000454	0.00200	0.000454	mg/L	10.06.2020 19:14	U	1
Silver	7440-22-4	<0.000251	0.00200	0.000251	mg/L	10.06.2020 19:14	U	1

Certificate of Analytical Results

674205

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712715-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712715-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	
Seq Number: 3138973	Date Prep: 10.05.2020 12:20	Tech: SAD
	Prep seq: 7712715	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000214	0.00100	0.000214	mg/L	10.05.2020 13:53	U	1
Bromobenzene	108-86-1	<0.000300	0.00100	0.000300	mg/L	10.05.2020 13:53	U	1
Bromochloromethane	74-97-5	<0.000209	0.00100	0.000209	mg/L	10.05.2020 13:53	U	1
Bromodichloromethane	75-27-4	<0.000231	0.00100	0.000231	mg/L	10.05.2020 13:53	U	1
Bromoform	75-25-2	<0.000630	0.00500	0.000630	mg/L	10.05.2020 13:53	U	1
Methyl bromide	74-83-9	<0.00105	0.00500	0.00105	mg/L	10.05.2020 13:53	U	1
2-Butanone	78-93-3	<0.00270	0.0500	0.00270	mg/L	10.05.2020 13:53	U	1
n-Butylbenzene	104-51-8	<0.000286	0.00100	0.000286	mg/L	10.05.2020 13:53	U	1
Sec-Butylbenzene	135-98-8	<0.000199	0.00100	0.000199	mg/L	10.05.2020 13:53	U	1
tert-Butylbenzene	98-06-6	<0.000195	0.00100	0.000195	mg/L	10.05.2020 13:53	U	1
Carbon Tetrachloride	56-23-5	<0.000423	0.00500	0.000423	mg/L	10.05.2020 13:53	U	1
Chlorobenzene	108-90-7	<0.000159	0.00100	0.000159	mg/L	10.05.2020 13:53	U	1
Chloroethane	75-00-3	<0.000433	0.0100	0.000433	mg/L	10.05.2020 13:53	U	1
Chloroform	67-66-3	<0.000259	0.00100	0.000259	mg/L	10.05.2020 13:53	U	1
Methyl Chloride	74-87-3	<0.000318	0.0100	0.000318	mg/L	10.05.2020 13:53	U	1
2-Chlorotoluene	95-49-8	<0.000214	0.00100	0.000214	mg/L	10.05.2020 13:53	U	1
4-Chlorotoluene	106-43-4	<0.000183	0.00100	0.000183	mg/L	10.05.2020 13:53	U	1
p-Cymene (p-Isopropyltoluene)	99-87-6	<0.000233	0.00100	0.000233	mg/L	10.05.2020 13:53	U	1
Dibromochloromethane	124-48-1	<0.000739	0.00500	0.000739	mg/L	10.05.2020 13:53	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	<0.000319	0.00100	0.000319	mg/L	10.05.2020 13:53	U	1
1,2-Dibromoethane	106-93-4	<0.000337	0.00500	0.000337	mg/L	10.05.2020 13:53	U	1
Methylene Bromide	74-95-3	<0.000130	0.00100	0.000130	mg/L	10.05.2020 13:53	U	1
1,2-Dichlorobenzene	95-50-1	<0.000236	0.00100	0.000236	mg/L	10.05.2020 13:53	U	1
1,3-Dichlorobenzene	541-73-1	<0.000197	0.00100	0.000197	mg/L	10.05.2020 13:53	U	1
1,4-Dichlorobenzene	106-46-7	<0.000199	0.00100	0.000199	mg/L	10.05.2020 13:53	U	1
Dichlorodifluoromethane	75-71-8	<0.000316	0.00100	0.000316	mg/L	10.05.2020 13:53	U	1
1,1-Dichloroethane	75-34-3	<0.000244	0.00100	0.000244	mg/L	10.05.2020 13:53	U	1
1,2-Dichloroethane	107-06-2	<0.000285	0.00100	0.000285	mg/L	10.05.2020 13:53	U	1
1,1-Dichloroethene	75-35-4	<0.000216	0.00100	0.000216	mg/L	10.05.2020 13:53	U	1
cis-1,2-Dichloroethylene	156-59-2	<0.000174	0.00100	0.000174	mg/L	10.05.2020 13:53	U	1
trans-1,2-dichloroethylene	156-60-5	<0.000256	0.00100	0.000256	mg/L	10.05.2020 13:53	U	1
1,2-Dichloropropane	78-87-5	<0.000396	0.00500	0.000396	mg/L	10.05.2020 13:53	U	1
1,3-Dichloropropane	142-28-9	<0.000439	0.00500	0.000439	mg/L	10.05.2020 13:53	U	1
2,2-Dichloropropane	594-20-7	<0.000360	0.00500	0.000360	mg/L	10.05.2020 13:53	U	1
1,1-Dichloropropene	563-58-6	<0.000481	0.00500	0.000481	mg/L	10.05.2020 13:53	U	1
cis-1,3-Dichloropropene	10061-01-5	<0.000690	0.00500	0.000690	mg/L	10.05.2020 13:53	U	1
trans-1,3-dichloropropene	10061-02-6	<0.000752	0.00500	0.000752	mg/L	10.05.2020 13:53	U	1
Ethylbenzene	100-41-4	<0.000146	0.00100	0.000146	mg/L	10.05.2020 13:53	U	1
Hexachlorobutadiene	87-68-3	<0.00200	0.00500	0.00200	mg/L	10.05.2020 13:53	U	1
Isopropylbenzene	98-82-8	<0.000161	0.00100	0.000161	mg/L	10.05.2020 13:53	U	1
Methylene Chloride	75-09-2	<0.00191	0.00500	0.00191	mg/L	10.05.2020 13:53	U	1
MTBE	1634-04-4	<0.000571	0.00500	0.000571	mg/L	10.05.2020 13:53	U	1
Naphthalene	91-20-3	<0.00200	0.0100	0.00200	mg/L	10.05.2020 13:53	U	1

Certificate of Analytical Results

674205

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712715-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712715-1-BLK	Date Collected:	Date Received:
Analytical Method: VOCs by SW-846 8260C		Prep Method: 5030B
Analyst: SAD	% Moist:	Tech: SAD
Seq Number: 3138973	Date Prep: 10.05.2020 12:20	

Parameter	CAS Number	Prep seq: 7712715 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
n-Propylbenzene	103-65-1	<0.000179	0.00100	0.000179	mg/L	10.05.2020 13:53	U	1
Styrene	100-42-5	<0.000162	0.00100	0.000162	mg/L	10.05.2020 13:53	U	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.000327	0.00100	0.000327	mg/L	10.05.2020 13:53	U	1
1,1,2,2-Tetrachloroethane	79-34-5	<0.000284	0.00100	0.000284	mg/L	10.05.2020 13:53	U	1
Tetrachloroethylene	127-18-4	<0.000500	0.00100	0.000500	mg/L	10.05.2020 13:53	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/L	10.05.2020 13:53	U	1
1,2,3-Trichlorobenzene	87-61-6	<0.00200	0.00500	0.00200	mg/L	10.05.2020 13:53	U	1
1,2,4-Trichlorobenzene	120-82-1	<0.00200	0.00500	0.00200	mg/L	10.05.2020 13:53	U	1
1,1,1-Trichloroethane	71-55-6	<0.000504	0.00500	0.000504	mg/L	10.05.2020 13:53	U	1
1,1,2-Trichloroethane	79-00-5	<0.000228	0.00100	0.000228	mg/L	10.05.2020 13:53	U	1
Trichloroethylene	79-01-6	<0.000424	0.00500	0.000424	mg/L	10.05.2020 13:53	U	1
Trichlorofluoromethane	75-69-4	<0.000245	0.00100	0.000245	mg/L	10.05.2020 13:53	U	1
1,2,3-Trichloropropane	96-18-4	<0.000283	0.00100	0.000283	mg/L	10.05.2020 13:53	U	1
1,2,4-Trimethylbenzene	95-63-6	<0.000252	0.00100	0.000252	mg/L	10.05.2020 13:53	U	1
1,3,5-Trimethylbenzene	108-67-8	<0.000279	0.00100	0.000279	mg/L	10.05.2020 13:53	U	1
o-Xylene	95-47-6	<0.000192	0.00100	0.000192	mg/L	10.05.2020 13:53	U	1
m,p-Xylenes	179601-23-1	<0.000330	0.0100	0.000330	mg/L	10.05.2020 13:53	U	1
Vinyl Chloride	75-01-4	<0.000234	0.00200	0.000234	mg/L	10.05.2020 13:53	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
Dibromofluoromethane	104	75 - 131	%		
1,2-Dichloroethane-D4	99	63 - 144	%		
Toluene-D8	103	80 - 117	%		
4-Bromofluorobenzene	106	74 - 124	%		

Sample Id: 7712768-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712768-1-BLK	Date Collected:	Date Received:
Analytical Method: Mercury by SW-846 7470A		Prep Method: SW7470P
Analyst: ANJ	% Moist:	
Seq Number: 3139070	Date Prep: 10.07.2020 07:50	Tech: ANJ
	Prep seq: 7712768	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Mercury	7439-97-6	<0.0000263	0.000200	0.0000263	mg/L	10.07.2020 13:27	U	1

Certificate of Analytical Results

674205

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712778-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 7712778-1-BLK	Date Collected:	Date Received:
Analytical Method: TPH by Texas1005		Prep Method: 1005
Analyst: ISU	% Moist:	
Seq Number: 3139189	Date Prep: 10.07.2020 11:23	Tech: ISU
	Prep seq: 7712778	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Range Hydrocarbons	PHC612	<0.885	5.00	0.885	mg/L	10.08.2020 15:36	U	1
>C12-C28 Range Hydrocarbons	PHCG1228	<0.863	5.00	0.863	mg/L	10.08.2020 15:36	U	1
>C28-C35 Range Hydrocarbons	PHCG2835	<0.863	5.00	0.863	mg/L	10.08.2020 15:36	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	120	70 - 130	%		
1-Chlorooctane	101	70 - 130	%		

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Total RCRA Metals by SW6020A

Client : ESE Partners

Work Order #: **674205**

Project ID:

Date Received: 10.02.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2-MW-1	674205-001	10.01.2020	10.06.2020	03.30.2021	10.06.2020	04.04.2021	
T2-MW-3	674205-002	10.01.2020	10.06.2020	03.30.2021	10.06.2020	04.04.2021	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Mercury by SW-846 7470A

Client : ESE Partners

Work Order #: **674205**

Project ID:

Date Received: 10.02.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2-MW-1	674205-001	10.01.2020			10.07.2020	10.29.2020	
T2-MW-3	674205-002	10.01.2020			10.07.2020	10.29.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : VOCs by SW-846 8260C

Client : ESE Partners

Work Order #: **674205**

Project ID:

Date Received: 10.02.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2-MW-1	674205-001	10.01.2020			10.05.2020	10.15.2020	
T2-MW-3	674205-002	10.01.2020			10.05.2020	10.15.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH by Texas1005

Client : ESE Partners

Work Order #: **674205**

Project ID:

Date Received: 10.02.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T2-MW-1	674205-001	10.01.2020	10.07.2020	10.15.2020	10.07.2020	10.21.2020	
T2-MW-3	674205-002	10.01.2020	10.07.2020	10.15.2020	10.07.2020	10.21.2020	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Analytical Log

Analytical Method:	<u>VOCs by SW-846 8260C</u>	Batch #:	<u>3138973</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u> </u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674205</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2-MW-1</u>	<u>674205-001</u>	<u>SMP</u>
<u>T2-MW-3</u>	<u>674205-002</u>	<u>SMP</u>
<u> </u>	<u>674142-001 S</u>	<u>MS</u>
<u> </u>	<u>7712715-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712715-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712715-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>Total RCRA Metals by SW6020A</u>	Batch #:	<u>3139021</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u></u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674205</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2-MW-1</u>	<u>674205-001</u>	<u>SMP</u>
<u>T2-MW-3</u>	<u>674205-002</u>	<u>SMP</u>
<u></u>	<u>674140-001 S</u>	<u>MS</u>
<u></u>	<u>674140-001 SD</u>	<u>MSD</u>
<u></u>	<u>7712701-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712701-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712701-1-BSD</u>	<u>BSD</u>

Analytical Method: Mercury by SW-846 7470A
Project Name: Yellow Cab Tract 2
Client Name: ESE Partners

Batch #: 3139070
Project ID:
WO Number: 674205

Client Sample Id	Lab Sample Id	QC Types
T2-MW-1	674205-001	SMP
T2-MW-3	674205-002	SMP
	674260-002 S	MS
	674260-002 SD	MSD
	7712768-1-BKS	BKS
	7712768-1-BLK	BLK
	7712768-1-BSD	BSD

Analytical Method:	<u>TPH by Texas1005</u>	Batch #:	<u>3139189</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u></u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674205</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T2-MW-1</u>	<u>674205-001</u>	<u>SMP</u>
<u>T2-MW-3</u>	<u>674205-002</u>	<u>SMP</u>
<u></u>	<u>674205-001 S</u>	<u>MS</u>
<u></u>	<u>7712778-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712778-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712778-1-BSD</u>	<u>BSD</u>

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 674205

Project ID:

Lab Batch #: 3139189

Sample: 7712778-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.07.2020 17:10

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	4.29	5.00	86	70-130	
1-Chlorooctane	8.87	10.0	89	70-130	

Lab Batch #: 3139189

Sample: 7712778-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.07.2020 17:31

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	4.29	5.00	86	70-130	
1-Chlorooctane	9.03	10.0	90	70-130	

Lab Batch #: 3139189

Sample: 7712778-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.08.2020 15:36

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	5.99	5.00	120	70-130	
1-Chlorooctane	10.1	10.0	101	70-130	

Lab Batch #: 3139189

Sample: 674205-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.08.2020 16:39

SURROGATE RECOVERY STUDY

TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	5.20	4.71	110	70-130	
1-Chlorooctane	10.5	9.42	111	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 674205

Project ID:

Lab Batch #: 3138973

Sample: 7712715-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.05.2020 11:41

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0451	0.0500	90	75-131	
1,2-Dichloroethane-D4	0.0470	0.0500	94	63-144	
Toluene-D8	0.0501	0.0500	100	80-117	
4-Bromofluorobenzene	0.0529	0.0500	106	74-124	

Lab Batch #: 3138973

Sample: 7712715-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.05.2020 12:07

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0435	0.0500	87	75-131	
1,2-Dichloroethane-D4	0.0401	0.0500	80	63-144	
Toluene-D8	0.0500	0.0500	100	80-117	
4-Bromofluorobenzene	0.0535	0.0500	107	74-124	

Lab Batch #: 3138973

Sample: 674142-001 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 10.05.2020 12:40

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0506	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0450	0.0500	90	63-144	
Toluene-D8	0.0490	0.0500	98	80-117	
4-Bromofluorobenzene	0.0526	0.0500	105	74-124	

Lab Batch #: 3138973

Sample: 7712715-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.05.2020 13:53

SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0522	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0496	0.0500	99	63-144	
Toluene-D8	0.0516	0.0500	103	80-117	
4-Bromofluorobenzene	0.0530	0.0500	106	74-124	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

ESE Partners
Yellow Cab Tract 2

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3139070

MB Sample Id: 7712768-1-BLK

Matrix: Water

LCS Sample Id: 7712768-1-BKS

Prep Method: SW7470P

Date Prep: 10.07.2020

LCSD Sample Id: 7712768-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000263	0.00200	0.00207	104	0.00207	104	80-120	0	20	mg/L	10.07.2020 13:29	

Analytical Method: Mercury by SW-846 7470A

Seq Number: 3139070

Parent Sample Id: 674260-002

Matrix: Surface Water

MS Sample Id: 674260-002 S

Prep Method: SW7470P

Date Prep: 10.07.2020

MSD Sample Id: 674260-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.000263	0.00200	0.00190	95	0.00198	99	75-125	4	20	mg/L	10.07.2020 13:36	

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3139021

MB Sample Id: 7712701-1-BLK

Matrix: Water

LCS Sample Id: 7712701-1-BKS

Prep Method: SW3010A

Date Prep: 10.06.2020

LCSD Sample Id: 7712701-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	<0.000246	0.100	0.0979	98	0.0975	98	80-120	0	20	mg/L	10.06.2020 19:17	
Barium	<0.000484	0.100	0.0970	97	0.0967	97	80-120	0	20	mg/L	10.06.2020 19:17	
Cadmium	<0.000147	0.100	0.0982	98	0.0980	98	80-120	0	20	mg/L	10.06.2020 19:17	
Chromium	<0.000525	0.100	0.0966	97	0.0975	98	80-120	1	20	mg/L	10.06.2020 19:17	
Lead	<0.000152	0.100	0.0968	97	0.0974	97	80-120	1	20	mg/L	10.06.2020 19:17	
Selenium	<0.000454	0.100	0.0995	100	0.0995	100	80-120	0	20	mg/L	10.06.2020 19:17	
Silver	<0.000251	0.0500	0.0490	98	0.0489	98	80-120	0	20	mg/L	10.06.2020 19:17	

Analytical Method: Total RCRA Metals by SW6020A

Seq Number: 3139021

Parent Sample Id: 674140-001

Matrix: Water

MS Sample Id: 674140-001 S

Prep Method: SW3010A

Date Prep: 10.06.2020

MSD Sample Id: 674140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Arsenic	0.00155	0.100	0.0954	94	0.0954	94	75-125	0	20	mg/L	10.06.2020 19:26	
Barium	0.0921	0.100	0.185	93	0.184	92	75-125	1	20	mg/L	10.06.2020 19:26	
Cadmium	0.000258	0.100	0.0941	94	0.0945	94	75-125	0	20	mg/L	10.06.2020 19:26	
Chromium	0.00404	0.100	0.0992	95	0.0995	95	75-125	0	20	mg/L	10.06.2020 19:26	
Lead	0.00311	0.100	0.101	98	0.0997	97	75-125	1	20	mg/L	10.06.2020 19:26	
Selenium	<0.000454	0.100	0.0936	94	0.0922	92	75-125	2	20	mg/L	10.06.2020 19:26	
Silver	<0.000251	0.0500	0.0486	97	0.0488	98	75-125	0	20	mg/L	10.06.2020 19:26	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: TPH by Texas1005

Seq Number: 3139189
MB Sample Id: 7712778-1-BLK

Matrix: Water
LCS Sample Id: 7712778-1-BKS

Prep Method: TX1005P
Date Prep: 10.07.2020
LCSD Sample Id: 7712778-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Range Hydrocarbons	<0.885	100	80.2	80	87.2	87	75-125	8	20	mg/L	10.07.2020 17:10	
>C12-C28 Range Hydrocarbons	<0.863	100	81.5	82	86.8	87	75-125	6	20	mg/L	10.07.2020 17:10	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
o-Terphenyl	120		86		86		70-130			%	10.07.2020 17:10	
1-Chlorooctane	101		89		90		70-130			%	10.07.2020 17:10	

Analytical Method: TPH by Texas1005

Seq Number: 3139189

Matrix: Water
MB Sample Id: 7712778-1-BLK

Prep Method: TX1005P
Date Prep: 10.07.2020

Parameter	MB Result	Units	Analysis Date	Flag
>C28-C35 Range Hydrocarbons	<0.863	mg/L	10.08.2020 15:36	

Analytical Method: TPH by Texas1005

Seq Number: 3139189
Parent Sample Id: 674205-001

Matrix: Water
MS Sample Id: 674205-001 S

Prep Method: TX1005P
Date Prep: 10.07.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
C6-C12 Range Hydrocarbons	0.962	94.2	88.1	93	75-125	mg/L	10.08.2020 16:39	
>C12-C28 Range Hydrocarbons	<0.813	94.2	92.1	98	75-125	mg/L	10.08.2020 16:39	
Surrogate			MS %Rec	MS Flag	Limits	Units	Analysis Date	
o-Terphenyl			110		70-130	%	10.08.2020 16:39	
1-Chlorooctane			111		70-130	%	10.08.2020 16:39	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138973

MB Sample Id: 7712715-1-BLK

Matrix: Water

LCS Sample Id: 7712715-1-BKS

Prep Method: SW5030B

Date Prep: 10.05.2020

LCSD Sample Id: 7712715-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0443	89	0.0452	90	66-142	2	25	mg/L	10.05.2020 12:07	
Bromobenzene	<0.000300	0.0500	0.0517	103	0.0505	101	75-125	2	25	mg/L	10.05.2020 12:07	
Bromochloromethane	<0.000209	0.0500	0.0435	87	0.0431	86	60-140	1	25	mg/L	10.05.2020 12:07	
Bromodichloromethane	<0.000231	0.0500	0.0493	99	0.0502	100	75-125	2	25	mg/L	10.05.2020 12:07	
Bromoform	<0.000630	0.0500	0.0601	120	0.0585	117	75-125	3	25	mg/L	10.05.2020 12:07	
Methyl bromide	<0.001105	0.0500	0.0435	87	0.0437	87	60-140	0	25	mg/L	10.05.2020 12:07	
2-Butanone	<0.00270	0.250	0.381	152	0.348	139	60-140	9	25	mg/L	10.05.2020 12:07	H
n-Butylbenzene	<0.000286	0.0500	0.0479	96	0.0478	96	75-125	0	25	mg/L	10.05.2020 12:07	
Sec-Butylbenzene	<0.000199	0.0500	0.0416	83	0.0420	84	75-125	1	25	mg/L	10.05.2020 12:07	
tert-Butylbenzene	<0.000195	0.0500	0.0432	86	0.0436	87	75-125	1	25	mg/L	10.05.2020 12:07	
Carbon Tetrachloride	<0.000423	0.0500	0.0438	88	0.0443	89	62-125	1	25	mg/L	10.05.2020 12:07	
Chlorobenzene	<0.000159	0.0500	0.0525	105	0.0516	103	60-133	2	25	mg/L	10.05.2020 12:07	
Chloroethane	<0.000433	0.0500	0.0376	75	0.0390	78	60-140	4	25	mg/L	10.05.2020 12:07	
Chloroform	<0.000259	0.0500	0.0449	90	0.0450	90	70-130	0	25	mg/L	10.05.2020 12:07	
Methyl Chloride	<0.000318	0.0500	0.0546	109	0.0562	112	60-140	3	25	mg/L	10.05.2020 12:07	
2-Chlorotoluene	<0.000214	0.0500	0.0470	94	0.0471	94	73-125	0	25	mg/L	10.05.2020 12:07	
4-Chlorotoluene	<0.000183	0.0500	0.0548	110	0.0532	106	74-125	3	25	mg/L	10.05.2020 12:07	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0456	91	0.0457	91	75-125	0	25	mg/L	10.05.2020 12:07	
Dibromochloromethane	<0.000739	0.0500	0.0539	108	0.0554	111	73-125	3	25	mg/L	10.05.2020 12:07	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0472	94	0.0460	92	59-125	3	25	mg/L	10.05.2020 12:07	
1,2-Dibromoethane	<0.000337	0.0500	0.0599	120	0.0579	116	73-125	3	25	mg/L	10.05.2020 12:07	
Methylene Bromide	<0.000130	0.0500	0.0484	97	0.0487	97	69-127	1	25	mg/L	10.05.2020 12:07	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0470	94	0.0451	90	75-125	4	25	mg/L	10.05.2020 12:07	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0503	101	0.0494	99	75-125	2	25	mg/L	10.05.2020 12:07	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0516	103	0.0509	102	75-125	1	25	mg/L	10.05.2020 12:07	
Dichlorodifluoromethane	<0.000316	0.0500	0.0551	110	0.0564	113	60-140	2	25	mg/L	10.05.2020 12:07	
1,1-Dichloroethane	<0.000244	0.0500	0.0463	93	0.0459	92	72-125	1	25	mg/L	10.05.2020 12:07	
1,2-Dichloroethane	<0.000285	0.0500	0.0481	96	0.0493	99	68-127	2	25	mg/L	10.05.2020 12:07	
1,1-Dichloroethene	<0.000216	0.0500	0.0407	81	0.0429	86	59-172	5	25	mg/L	10.05.2020 12:07	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0420	84	0.0435	87	75-125	4	25	mg/L	10.05.2020 12:07	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0403	81	0.0422	84	75-125	5	25	mg/L	10.05.2020 12:07	
1,2-Dichloropropane	<0.000396	0.0500	0.0492	98	0.0496	99	74-125	1	25	mg/L	10.05.2020 12:07	
1,3-Dichloropropane	<0.000439	0.0500	0.0618	124	0.0597	119	75-125	3	25	mg/L	10.05.2020 12:07	
2,2-Dichloropropane	<0.000360	0.0500	0.0435	87	0.0435	87	75-125	0	25	mg/L	10.05.2020 12:07	
1,1-Dichloropropene	<0.000481	0.0500	0.0539	108	0.0533	107	75-125	1	25	mg/L	10.05.2020 12:07	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0646	129	0.0617	123	74-125	5	25	mg/L	10.05.2020 12:07	H
trans-1,3-dichloropropene	<0.000752	0.0500	0.0641	128	0.0619	124	66-125	3	25	mg/L	10.05.2020 12:07	H
Ethylbenzene	<0.000146	0.0500	0.0508	102	0.0503	101	75-125	1	25	mg/L	10.05.2020 12:07	
Hexachlorobutadiene	<0.00200	0.0500	0.0448	90	0.0444	89	75-125	1	25	mg/L	10.05.2020 12:07	
Isopropylbenzene	<0.000161	0.0500	0.0446	89	0.0455	91	75-125	2	25	mg/L	10.05.2020 12:07	
Methylene Chloride	<0.00191	0.0500	0.0378	76	0.0382	76	75-125	1	25	mg/L	10.05.2020 12:07	
MTBE	<0.000571	0.0500	0.0420	84	0.0417	83	65-135	1	25	mg/L	10.05.2020 12:07	
Naphthalene	<0.00200	0.0500	0.0455	91	0.0449	90	70-130	1	25	mg/L	10.05.2020 12:07	
n-Propylbenzene	<0.000179	0.0500	0.0511	102	0.0508	102	75-125	1	25	mg/L	10.05.2020 12:07	
Styrene	<0.000162	0.0500	0.0542	108	0.0545	109	75-125	1	25	mg/L	10.05.2020 12:07	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0405	81	0.0416	83	72-125	3	25	mg/L	10.05.2020 12:07	
1,1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0492	98	0.0470	94	74-125	5	25	mg/L	10.05.2020 12:07	
Tetrachloroethylene	<0.000500	0.0500	0.0510	102	0.0489	98	71-125	4	25	mg/L	10.05.2020 12:07	
Toluene	<0.000500	0.0500	0.0548	110	0.0536	107	59-139	2	25	mg/L	10.05.2020 12:07	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0392	78	0.0395	79	75-137	1	25	mg/L	10.05.2020 12:07	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138973

MB Sample Id: 7712715-1-BLK

Matrix: Water

LCS Sample Id: 7712715-1-BKS

Prep Method: SW5030B

Date Prep: 10.05.2020

LCSD Sample Id: 7712715-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0433	87	0.0408	82	75-135	6	25	mg/L	10.05.2020 12:07	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0444	89	0.0451	90	75-125	2	25	mg/L	10.05.2020 12:07	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0557	111	0.0547	109	75-127	2	25	mg/L	10.05.2020 12:07	
Trichloroethylene	<0.000424	0.0500	0.0484	97	0.0488	98	62-137	1	25	mg/L	10.05.2020 12:07	
Trichlorofluoromethane	<0.000245	0.0500	0.0460	92	0.0455	91	60-140	1	25	mg/L	10.05.2020 12:07	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0570	114	0.0532	106	75-125	7	25	mg/L	10.05.2020 12:07	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0470	94	0.0461	92	75-125	2	25	mg/L	10.05.2020 12:07	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0462	92	0.0462	92	70-125	0	25	mg/L	10.05.2020 12:07	
o-Xylene	<0.000192	0.0500	0.0472	94	0.0475	95	75-125	1	25	mg/L	10.05.2020 12:07	
m,p-Xylenes	<0.000330	0.100	0.105	105	0.105	105	75-125	0	25	mg/L	10.05.2020 12:07	
Vinyl Chloride	<0.000234	0.0500	0.0483	97	0.0484	97	60-140	0	25	mg/L	10.05.2020 12:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	104		87		90		75-131	%	10.05.2020 12:07
1,2-Dichloroethane-D4	99		80		94		63-144	%	10.05.2020 12:07
Toluene-D8	103		100		100		80-117	%	10.05.2020 12:07
4-Bromofluorobenzene	106		107		106		74-124	%	10.05.2020 12:07

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138973

Parent Sample Id: 674142-001

Matrix: Ground Water

MS Sample Id: 674142-001 S

Prep Method: SW5030B

Date Prep: 10.05.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000214	0.0500	0.0486	97	66-142	mg/L	10.05.2020 12:40	
Bromobenzene	<0.000300	0.0500	0.0528	106	75-125	mg/L	10.05.2020 12:40	
Bromochloromethane	<0.000209	0.0500	0.0512	102	60-140	mg/L	10.05.2020 12:40	
Bromodichloromethane	<0.000231	0.0500	0.0514	103	75-125	mg/L	10.05.2020 12:40	
Bromoform	<0.000630	0.0500	0.0575	115	75-125	mg/L	10.05.2020 12:40	
Methyl bromide	<0.00105	0.0500	0.0498	100	60-140	mg/L	10.05.2020 12:40	
2-Butanone	<0.00270	0.250	0.317	127	60-140	mg/L	10.05.2020 12:40	
n-Butylbenzene	0.00191	0.0500	0.0516	99	75-125	mg/L	10.05.2020 12:40	
Sec-Butylbenzene	0.00168	0.0500	0.0471	91	75-125	mg/L	10.05.2020 12:40	
tert-Butylbenzene	<0.000195	0.0500	0.0473	95	75-125	mg/L	10.05.2020 12:40	
Carbon Tetrachloride	<0.000423	0.0500	0.0508	102	62-125	mg/L	10.05.2020 12:40	
Chlorobenzene	<0.000159	0.0500	0.0509	102	60-133	mg/L	10.05.2020 12:40	
Chloroethane	<0.000433	0.0500	0.0429	86	60-140	mg/L	10.05.2020 12:40	
Chloroform	<0.000259	0.0500	0.0513	103	70-130	mg/L	10.05.2020 12:40	
Methyl Chloride	<0.000318	0.0500	0.0693	139	60-140	mg/L	10.05.2020 12:40	
2-Chlorotoluene	<0.000214	0.0500	0.0483	97	73-125	mg/L	10.05.2020 12:40	
4-Chlorotoluene	<0.000183	0.0500	0.0534	107	74-125	mg/L	10.05.2020 12:40	
p-Cymene (p-Isopropyltoluene)	<0.000233	0.0500	0.0493	99	75-125	mg/L	10.05.2020 12:40	
Dibromochloromethane	<0.000739	0.0500	0.0540	108	73-125	mg/L	10.05.2020 12:40	
1,2-Dibromo-3-Chloropropane	<0.000319	0.0500	0.0499	100	59-125	mg/L	10.05.2020 12:40	
1,2-Dibromoethane	<0.000337	0.0500	0.0569	114	73-125	mg/L	10.05.2020 12:40	
Methylene Bromide	<0.000130	0.0500	0.0526	105	69-127	mg/L	10.05.2020 12:40	
1,2-Dichlorobenzene	<0.000236	0.0500	0.0480	96	75-125	mg/L	10.05.2020 12:40	
1,3-Dichlorobenzene	<0.000197	0.0500	0.0500	100	75-125	mg/L	10.05.2020 12:40	
1,4-Dichlorobenzene	<0.000199	0.0500	0.0519	104	75-125	mg/L	10.05.2020 12:40	
Dichlorodifluoromethane	<0.000316	0.0500	0.0634	127	60-140	mg/L	10.05.2020 12:40	
1,1-Dichloroethane	<0.000244	0.0500	0.0545	109	72-125	mg/L	10.05.2020 12:40	
1,2-Dichloroethane	<0.000285	0.0500	0.0515	103	68-127	mg/L	10.05.2020 12:40	
1,1-Dichloroethene	<0.000216	0.0500	0.0493	99	59-172	mg/L	10.05.2020 12:40	
cis-1,2-Dichloroethylene	<0.000174	0.0500	0.0509	102	75-125	mg/L	10.05.2020 12:40	
trans-1,2-dichloroethylene	<0.000256	0.0500	0.0501	100	75-125	mg/L	10.05.2020 12:40	
1,2-Dichloropropane	<0.000396	0.0500	0.0507	101	74-125	mg/L	10.05.2020 12:40	
1,3-Dichloropropane	<0.000439	0.0500	0.0568	114	75-125	mg/L	10.05.2020 12:40	
2,2-Dichloropropane	<0.000360	0.0500	0.0492	98	75-125	mg/L	10.05.2020 12:40	
1,1-Dichloropropene	<0.000481	0.0500	0.0569	114	75-125	mg/L	10.05.2020 12:40	
cis-1,3-Dichloropropene	<0.000690	0.0500	0.0608	122	74-125	mg/L	10.05.2020 12:40	
trans-1,3-dichloropropene	<0.000752	0.0500	0.0600	120	66-125	mg/L	10.05.2020 12:40	
Ethylbenzene	0.000650	0.0500	0.0506	100	75-125	mg/L	10.05.2020 12:40	
Hexachlorobutadiene	<0.00200	0.0500	0.0482	96	75-125	mg/L	10.05.2020 12:40	
Isopropylbenzene	0.000613	0.0500	0.0531	94	75-125	mg/L	10.05.2020 12:40	
Methylene Chloride	<0.00191	0.0500	0.0456	91	75-125	mg/L	10.05.2020 12:40	
MTBE	<0.000571	0.0500	0.0489	98	65-135	mg/L	10.05.2020 12:40	
Naphthalene	0.0101	0.0500	0.0572	94	70-130	mg/L	10.05.2020 12:40	
n-Propylbenzene	0.0215	0.0500	0.0685	94	75-125	mg/L	10.05.2020 12:40	
Styrene	<0.000162	0.0500	0.0526	105	75-125	mg/L	10.05.2020 12:40	
1,1,1,2-Tetrachloroethane	<0.000327	0.0500	0.0457	91	72-125	mg/L	10.05.2020 12:40	
1,1,1,2,2-Tetrachloroethane	<0.000284	0.0500	0.0520	104	74-125	mg/L	10.05.2020 12:40	
Tetrachloroethylene	<0.000500	0.0500	0.0503	101	71-125	mg/L	10.05.2020 12:40	
Toluene	<0.000500	0.0500	0.0538	108	59-139	mg/L	10.05.2020 12:40	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0435	87	75-137	mg/L	10.05.2020 12:40	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3138973

Parent Sample Id: 674142-001

Matrix: Ground Water

MS Sample Id: 674142-001 S

Prep Method: SW5030B

Date Prep: 10.05.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0462	92	75-135	mg/L	10.05.2020 12:40	
1,1,1-Trichloroethane	<0.000504	0.0500	0.0515	103	75-125	mg/L	10.05.2020 12:40	
1,1,2-Trichloroethane	<0.000228	0.0500	0.0544	109	75-127	mg/L	10.05.2020 12:40	
Trichloroethylene	<0.000424	0.0500	0.0510	102	62-137	mg/L	10.05.2020 12:40	
Trichlorofluoromethane	<0.000245	0.0500	0.0510	102	60-140	mg/L	10.05.2020 12:40	
1,2,3-Trichloropropane	<0.000283	0.0500	0.0558	112	75-125	mg/L	10.05.2020 12:40	
1,2,4-Trimethylbenzene	<0.000252	0.0500	0.0494	99	75-125	mg/L	10.05.2020 12:40	
1,3,5-Trimethylbenzene	<0.000279	0.0500	0.0505	101	70-125	mg/L	10.05.2020 12:40	
o-Xylene	<0.000192	0.0500	0.0511	102	75-125	mg/L	10.05.2020 12:40	
m,p-Xylenes	<0.000330	0.100	0.104	104	75-125	mg/L	10.05.2020 12:40	
Vinyl Chloride	<0.000234	0.0500	0.0530	106	60-140	mg/L	10.05.2020 12:40	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	101		75-131	%	10.05.2020 12:40
1,2-Dichloroethane-D4	90		63-144	%	10.05.2020 12:40
Toluene-D8	98		80-117	%	10.05.2020 12:40
4-Bromofluorobenzene	105		74-124	%	10.05.2020 12:40

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Attachment A Laboratory Data Package Cover Page

Project Name: **Yellow Cab Tract 2**

Laboratory Number: **674205**

This Data package consists of : Laboratory Batch No(s): **7712701, 7712715, 7712778, 7712768**


This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate Recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs) and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.
- Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies, observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC 25.6 and was last inspection by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Debbie Simmons
Name (Printed)


Signature

Project Manager
Official Title (printed)

10132020
Date

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data						
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10132020				
Project Name: Yellow Cab Tract 2		Laboratory Job Number : 674205				
Reviewer Name: DES		Batch Number(s) : 7712701, 7712715, 7712778, 7712768				
#1	A ²	Description	Yes	No	NA ³	NR ⁴ ER# ⁵
R1	OI	Chain-of-Custody (COC)				
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X			
		Were all departures from standard conditions described in an exception report?			X	
R2	OI	Sample and Quality Control (QC) Identification				
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X			
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X			
R3	OI	Test Reports				
		Were all samples prepared and analyzed within holding times?	X			
		Other than those results <MQL, were all other raw values bracketed by calibration standards?	X			
		Were calculations checked by a peer or supervisor?	X			
		Were all analyte identifications checked by a peer or supervisor?	X			
		Were sample detection limits reported for all analytes not detected?	X			
		Were all results for soil and sediment samples reported on a dry weight basis?			X	
		Were % moisture (or solids) reported for all soil and sediment samples?			X	
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X	
		If required for the project, were TICs reported?			X	
R4	O	Surrogate Recovery Data				
		Were surrogates added prior to extraction?	X			
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X			
R5	OI	Test Reports/Summary Forms for Blank Samples				
		Were appropriate type(s) of blanks analyzed?	X			
		Were blanks analyzed at the appropriate frequency ?	X			
		Were method blanks taken through the entire analytical procedure, including preparation and, if applicable, cleanup procedures ?	X			
		Were Blank Concentrations <MQL?	X			
R6	OI	Laboratory Control Samples (LCS):				
		Were all COCs included in the LCS?	X			
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X			
		Were LCSs analyzed at the required frequency?	X			
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X		1
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X			
		Was the LCSD RPD within the QC limits?	X			
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data				
		Were the project/method specified analytes included in the MS and MSD?	X			
		Were MS/MSD analyzed at the appropriate frequency?	X			
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X			
		Were MS/MSD RPDs within the laboratory QC limits?	X			
R8	OI	Analytical Duplicate Data				
		Were appropriate analytical duplicates analyzed for each matrix?			X	
		Were analytical duplicates analyzed at the appropriate frequency?			X	
		Were RPDs or relative standard deviations within the laboratory QC limits?			X	
R9	OI	Method Quantitation Limits (MQLs)				
		Are the MQLs for each method analyte included in the laboratory data package?	X			
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X			
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X			
R10	OI	Other Problems/Anomalies				
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X			
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X			
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X			

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data						
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10132020				
Project Name: Yellow Cab Tract 2		Laboratory Job Number : 674205				
Reviewer Name: DES		Batch Number(s) : 7712701, 7712715, 7712778, 7712768				
#1	A ²	Description	Yes	No	NA ³	NR ⁴ ER# ⁵
S1	OI	Initial Calibration (ICAL)				
		Were response factors and/or relative response factors for each analyte within QC limits?	X			
		Were percent RSDs or correlation coefficient criteria met?	X			
		Was the number of standards recommended in the method used for all analytes?	X			
		Were all points generated between the lowest and the highest standard used to calculate the curve?	X			
		Are ICAL data available for all instruments used?	X			
		Has the initial calibration curve been verified using an appropriate second source standard?	X			
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and continuing calibration blank (CCB)				
		Was the CCV analyzed at the method-required frequency?	X			
		Were percent differences for each analyte within the method-required QC limits?	X			
		Was the ICAL curve verified for each analyte?	X			
		Was the absolute value of the analyte concentration in the inorganic CCB <MDL?	X			
S3	O	Mass Spectral Tuning				
		Was the appropriate compound for the method used for tuning?	X			
		Were ion abundance data within the method-required QC limits?	X			
S4	O	Internal Standard (IS)				
		Were IS area counts and retention times within the method-required QC limits?	X			
S5	OI	Raw Data (NELAC 5.5.10)				
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X			
		Were data associated with manual integrations flagged on the raw data?	X			
S6	O	Dual Column Confirmation				
		Did dual column confirmation results meet the method-required QC?			X	
S7	O	Tentatively Identified Compounds (TICs)				
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X	
S8	I	Interference Check Sample (ICS) Results				
		Were percent recoveries within method QC limits?	X			
S9	I	Serial Dilutions, Post Digestions Spikes, and Method of Standard Additions				
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X			
S10	OI	Method Detection Limit (MDL) Studies				
		Was a MDL study performed for each reported analyte?	X			
		Is the MDL either adjusted or supported by the analysis of DCSs?	X			
S11	OI	Proficiency Test Reports				
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X			
S12	OI	Standards Documentation				
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X			
S13	OI	Compound/Analyte Identification Procedures				
		Are the procedures for compound/analyte identification documented?	X			
S14	OI	Demonstration of Analyst Competency (DOC)				
		Was DOC conducted consistent with NELAC Chapter 5?	X			
		Is documentation of the analyst's competency up-to-date and on file?	X			
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)				
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X			
S16	OI	Laboratory Standard Operating Procedures (SOPs)				
		Are laboratory SOPs current and on file for each method performed?	X			

- Items identified by the letter "R" must be included in the laboratory data package submitted to the TCEQ-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report Identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Attachment A (cont'd): Laboratory Review Checklist: Exception Reports

Laboratory Name: EUROFINS XENCO, LLC		LRC Date: 10132020	
Project Name: Yellow Cab Tract 2		Laboratory Job Number: 674205	
Reviewer Name: DES		Batch Number(s) : 7712701, 7712715, 7712778, 7712768	
ER# ¹	DESCRIPTION		
1	SW8260C Batch 3138973, 2-Butanone, cis-1,3-Dichloropropene, trans-1,3-dichloropropene recovered above QC limits in the laboratory control sample. Samples in the analytical batch are: 674205-001, -002.		

¹ ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No is checked on the LRC).

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **Mercury by SW-846 7470A** Matrix: **Water**
Prep Method: **SW7470P** Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Mercury	0.0000263	0.000200	0.000100	0.000110	mg/L

Analytical Method: **TPH by Texas1005** Matrix: **Water**
Prep Method: **TX1005P** Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
C6-C12 Range Hydroca	0.885	5.00	0.250	0.220	mg/L
>C12-C28 Range Hydro	0.863	5.00	0.250	0.210	mg/L

Analytical Method: **Total RCRA Metals by SW6020A** Matrix: **Water**
Prep Method: **SW3010A** Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Arsenic	0.000246	0.00400	0.00200	0.00294	mg/L
Barium	0.000484	0.00400	0.00400	0.00401	mg/L
Cadmium	0.000147	0.00200	0.00100	0.00163	mg/L
Chromium	0.000525	0.00400	0.00200	0.00400	mg/L
Lead	0.000152	0.00200	0.00100	0.00190	mg/L
Selenium	0.000454	0.00200	0.00100	0.00237	mg/L
Silver	0.000251	0.00200	0.00100	0.00171	mg/L

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Water**

Prep Method: **SW5030B**

Laboratory: **Xenco - Houston**

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Benzene	0.000214	0.00100	0.000250	0.000370	mg/L
Bromobenzene	0.000300	0.00100	0.000250	0.000370	mg/L
Bromochloromethane	0.000209	0.00100	0.000500	0.000440	mg/L
Bromodichloromethane	0.000231	0.00100	0.000250	0.000460	mg/L
Bromoform	0.000630	0.00500	0.00100	0.00124	mg/L
Methyl bromide	0.00105	0.00500	0.000500	0.000570	mg/L
2-Butanone	0.00270	0.0500	0.00250	0.00375	mg/L
n-Butylbenzene	0.000286	0.00100	0.00200	0.00176	mg/L
Sec-Butylbenzene	0.000199	0.00100	0.000250	0.000230	mg/L
tert-Butylbenzene	0.000195	0.00100	0.000250	0.000210	mg/L
Carbon Tetrachloride	0.000423	0.00500	0.000250	0.000270	mg/L
Chlorobenzene	0.000159	0.00100	0.000250	0.000280	mg/L
Chloroethane	0.000433	0.0100	0.000500	0.000630	mg/L
Chloroform	0.000259	0.00100	0.000250	0.000600	mg/L
Methyl Chloride	0.000318	0.0100	0.000250	0.000450	mg/L
2-Chlorotoluene	0.000214	0.00100	0.000250	0.000210	mg/L
4-Chlorotoluene	0.000183	0.00100	0.000250	0.000260	mg/L
p-Cymene (p-Isopropyl)	0.000233	0.00100	0.000250	0.000150	mg/L
Dibromochloromethane	0.000739	0.00500	0.000250	0.000440	mg/L
1,2-Dibromo-3-Chloro	0.000319	0.00100	0.00100	0.000800	mg/L
1,2-Dibromoethane	0.000337	0.00500	0.000500	0.000450	mg/L
Methylene Bromide	0.000130	0.00100	0.000500	0.000460	mg/L
1,2-Dichlorobenzene	0.000236	0.00100	0.000250	0.000360	mg/L
1,3-Dichlorobenzene	0.000197	0.00100	0.000250	0.000370	mg/L
1,4-Dichlorobenzene	0.000199	0.00100	0.000250	0.000430	mg/L
Dichlorodifluoromethan	0.000316	0.00100	0.000250	0.000310	mg/L
1,1-Dichloroethane	0.000244	0.00100	0.000250	0.000300	mg/L
1,2-Dichloroethane	0.000285	0.00100	0.000250	0.000260	mg/L
1,1-Dichloroethene	0.000216	0.00100	0.000250	0.000280	mg/L
cis-1,2-Dichloroethylen	0.000174	0.00100	0.000250	0.000240	mg/L
trans-1,2-dichloroethyle	0.000256	0.00100	0.000250	0.000200	mg/L
1,2-Dichloropropane	0.000396	0.00500	0.000250	0.000270	mg/L
1,3-Dichloropropane	0.000439	0.00500	0.000250	0.000240	mg/L
2,2-Dichloropropane	0.000360	0.00500	0.000250	0.000170	mg/L
1,1-Dichloropropene	0.000481	0.00500	0.000250	0.000290	mg/L
cis-1,3-Dichloropropen	0.000690	0.00500	0.000500	0.000390	mg/L
trans-1,3-dichloroprope	0.000752	0.00500	0.000500	0.000420	mg/L
Ethylbenzene	0.000146	0.00100	0.000250	0.000260	mg/L
Hexachlorobutadiene	0.00200	0.00500	0.00200	0.00197	mg/L
Isopropylbenzene	0.000161	0.00100	0.000250	0.000240	mg/L
Methylene Chloride	0.00191	0.00500	0.00200	0.00206	mg/L
MTBE	0.000571	0.00500	0.000500	0.000750	mg/L
Naphthalene	0.00200	0.0100	0.00200	0.00145	mg/L
n-Propylbenzene	0.000179	0.00100	0.000250	0.000280	mg/L
Styrene	0.000162	0.00100	0.000250	0.000290	mg/L
1,1,1,2-Tetrachloroethar	0.000327	0.00100	0.000500	0.000540	mg/L
1,1,2,2-Tetrachloroethar	0.000284	0.00100	0.000500	0.000460	mg/L
Tetrachloroethylene	0.000500	0.00100	0.000500	0.000500	mg/L
Toluene	0.000500	0.00100	0.000500	0.000480	mg/L
1,2,3-Trichlorobenzene	0.00200	0.00500	0.00200	0.00174	mg/L
1,2,4-Trichlorobenzene	0.00200	0.00500	0.00200	0.00189	mg/L

ESE Partners, Katy, TX
 Yellow Cab Tract 2

Analytical Method: **VOCs by SW-846 8260C**

Matrix: **Water**

Parameter	SDL	ML	Spike Amount	Actual Amount	Units
1,1,1-Trichloroethane	0.000504	0.00500	0.000250	0.000200	mg/L
1,1,2-Trichloroethane	0.000228	0.00100	0.000500	0.000460	mg/L
Trichloroethylene	0.000424	0.00500	0.000250	0.000210	mg/L
Trichlorofluoromethane	0.000245	0.00100	0.000250	0.000360	mg/L
1,2,3-Trichloropropane	0.000283	0.00100	0.000250	0.000270	mg/L
1,2,4-Trimethylbenzene	0.000252	0.00100	0.000250	0.000280	mg/L
1,3,5-Trimethylbenzene	0.000279	0.00100	0.000250	0.000210	mg/L
o-Xylene	0.000192	0.00100	0.000500	0.000430	mg/L
m,p-Xylenes	0.000330	0.0100	0.00100	0.000900	mg/L
Vinyl Chloride	0.000234	0.00200	0.000250	0.000240	mg/L



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: 674205

www.xenco.com Page 1 of 1

Project Manager: John Lembeck Bill to: (if different)
 Company Name: ESE Partners, LLC Company Name:
 Address: 2002 West Grand Parkway North, Ste 140 Address:
 City, State ZIP: Katy, Texas 77449 City, State ZIP: John
 Phone: 281.501.6100 Email: john@esepartners.com

Work Order Comments
 Program: UST/PST PRP Brownfields RRC Superfund
 State of Project:
 Reporting: Level II Level III PST/UST RRP Level IV
 Deliverables: EDD ADaPT Other:

SAMPLE RECEIPT				ANALYSIS REQUEST				Work Order Notes
Temperature (°C):	Temp Blank:	Temp:	Wet Ice:	Matrix	Date Sampled	Time Sampled	Depth	
Received Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.2 IR ID: HOU-203 C/F: -0.1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	W	10/1/10	1400		Hold PAT
Cooler Custody Seals: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp: 5.3		W	10/1/10	1430		
Sample Custody Seals: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Turn Around				Number of Containers				
Project Name: <u>Yellow Cab Tract 2</u>	Routine <input type="checkbox"/>			Metals				
P.O. Number:	Rush:			PAH				
Sampler's Name:	Due Date:			TPH				
				VOC				
				3				
				3				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions to Xenco. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$25.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) [Signature] Date/Time 10.2.20 1050
 Received by: (Signature) [Signature] Date/Time 10.2.20 1355

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: ESE Partners

Date/ Time Received: 10.02.2020 01.55.00 PM

Work Order #: 674205

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : HOU-203

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	N/A
#8 Any missing/extra samples?	Yes Trip blanks were not on COC
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: HPK

PH Device/Lot#:

Checklist completed by:  Date: 10.02.2020
 Hypatia Keys

Checklist reviewed by:  Date: 10.03.2020
 Debbie Simmons

Analytical Report 674207

for

ESE Partners

Project Manager: John Lembcke

Yellow Cab Tract 2

20-0506

10.13.2020

Collected By: Client



**4147 Greenbriar Dr.
Stafford, TX 77477**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

10.13.2020

Project Manager: **John Lembcke**

ESE Partners

2002 West Grand Parkway North, Suite 140
Katy, TX 77449

Reference: Eurofins Xenco, LLC Report No(s): **674207**

Yellow Cab Tract 2

Project Address:

John Lembcke:

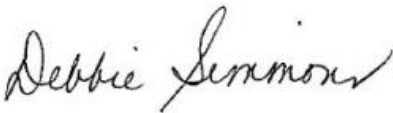
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674207. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674207 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Debbie Simmons

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 674207

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-2 TMW-02 (2-4)	S	09.25.2020 08:12	2 - 4 ft	674207-001
T-2 TMW-02	W	09.25.2020 08:30		674207-002

CASE NARRATIVE SUMMARY

Client Name: ESE Partners

Project Name: Yellow Cab Tract 2

Project ID: 20-0506

Report Date: 10.13.2020

Work Order Number: 674207

Date Received: 09.25.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.



Debbie Simmons
Project Manager

Certificate of Analytical Results

674207

ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: T-2 TMW-02 (2-4)	Matrix: Soil	Sample Depth: 2 - 4 ft
Lab Sample Id: 674207-001	Date Collected: 09.25.2020 08:12	Date Received: 09.25.2020 18:15
Analytical Method: PAHs by SW846 8270D SIM		Prep Method: 3550B
Analyst: DNE	% Moist: 19.06	
Seq Number: 3138934	Date Prep: 10.05.2020 16:35	Tech: DNE
	Prep seq: 7712659	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	<0.00427	0.00614	0.00427	mg/kg	10.05.2020 19:33	U	3
Acenaphthylene	208-96-8	0.00658	0.00614	0.00452	mg/kg	10.05.2020 19:33		3
Anthracene	120-12-7	0.00955	0.00614	0.00438	mg/kg	10.05.2020 19:33		3
Benzo(a)anthracene	56-55-3	0.0276	0.00614	0.00394	mg/kg	10.05.2020 19:33		3
Benzo(a)pyrene	50-32-8	0.0289	0.00614	0.00451	mg/kg	10.05.2020 19:33		3
Benzo(b)fluoranthene	205-99-2	0.0424	0.00614	0.00506	mg/kg	10.05.2020 19:33		3
Benzo(g,h,i)perylene	191-24-2	0.0233	0.00614	0.00487	mg/kg	10.05.2020 19:33		3
Benzo(k)fluoranthene	207-08-9	0.0128	0.00614	0.00491	mg/kg	10.05.2020 19:33		3
Chrysene	218-01-9	0.0386	0.00614	0.00341	mg/kg	10.05.2020 19:33		3
Dibenz(a,h)anthracene	53-70-3	<0.00490	0.00614	0.00490	mg/kg	10.05.2020 19:33	U	3
Fluoranthene	206-44-0	0.0665	0.00614	0.00430	mg/kg	10.05.2020 19:33		3
Fluorene	86-73-7	0.00479	0.00614	0.00431	mg/kg	10.05.2020 19:33	J	3
Indeno(1,2,3-c,d)Pyrene	193-39-5	0.0169	0.00614	0.00463	mg/kg	10.05.2020 19:33		3
Naphthalene	91-20-3	0.0149	0.0614	0.00442	mg/kg	10.05.2020 19:33	J	3
Phenanthrene	85-01-8	0.0468	0.00614	0.00431	mg/kg	10.05.2020 19:33		3
Pyrene	129-00-0	0.0619	0.00614	0.00437	mg/kg	10.05.2020 19:33		3

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	97	51 - 133	%		
Nitrobenzene-d5	101	31 - 130	%		
Terphenyl-D14	89	46 - 137	%		

Certificate of Analytical Results

674207

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **T-2 TMW-02 (2-4)** Matrix: Soil Sample Depth: 2 - 4 ft
 Lab Sample Id: 674207-001 Date Collected: 09.25.2020 08:12 Date Received: 09.25.2020 18:15
 Analytical Method: TPH Speciation by Texas 1006 - Aliphatics Prep Method: 1005
 Analyst: TPH % Moist: 19.06
 Seq Number: 3139309 Date Prep: 09.28.2020 13:24 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7712892

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6 Aliphatic Hydrocarbons	ALHYDRC6	<6.90	22.1	6.90	mg/kg	10.02.2020 11:35	U+	1
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<15.3	33.2	15.3	mg/kg	10.02.2020 11:35	U+	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	3.22	5.53	2.42	mg/kg	10.02.2020 11:35	J+	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10	<2.26	5.53	2.26	mg/kg	10.02.2020 11:35	U+	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12	7.94	5.53	4.77	mg/kg	10.02.2020 11:35	+	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16	<4.81	5.53	4.81	mg/kg	10.02.2020 11:35	U+	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21	211	22.1	20.4	mg/kg	10.02.2020 11:35	+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	52 - 126	%		

Analytical Method: TPH Speciation by Texas 1006 - Aromatics Prep Method: 1005
 Analyst: TPH % Moist: 19.06
 Seq Number: 3139314 Date Prep: 09.28.2020 13:24 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7712893

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<3.07	13.8	3.07	mg/kg	10.02.2020 11:35	U+	1
C8 to C10 Aromatic Hydrocarbons		<3.01	6.89	3.01	mg/kg	10.02.2020 11:35	U+	1
C10 to C12 Aromatic Hydrocarbons		<6.89	6.89	6.89	mg/kg	10.02.2020 11:35	U+	1
C12 to C16 Aromatic Hydrocarbons		<3.95	6.89	3.95	mg/kg	10.02.2020 11:35	U+	1
C16 to C21 Aromatic Hydrocarbons		<6.89	6.89	6.89	mg/kg	10.02.2020 11:35	U+	1
C21 to C35 Aromatic Hydrocarbons		171	27.6	20.8	mg/kg	10.02.2020 11:35	+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	132	61 - 131	%		**

Certificate of Analytical Results

674207

ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: **T-2 TMW-02**

Matrix: Water

Sample Depth:

Lab Sample Id: 674207-002

Date Collected: 09.25.2020 08:30

Date Received: 09.25.2020 18:15

Analytical Method: PAHs by SW846 8270D SIM

Prep Method: SW3511

Analyst: DNE

% Moist:

Seq Number: 3139054

Date Prep: 10.02.2020 14:32

Tech: DNE

Prep seq: 7712667

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	0.000130	0.000160	0.0000879	mg/L	10.06.2020 20:44	J	1
Acenaphthylene	208-96-8	0.000886	0.000160	0.0000740	mg/L	10.06.2020 20:44	J	1
Anthracene	120-12-7	0.000115	0.000160	0.0000761	mg/L	10.06.2020 20:44	J	1
Benzo(a)anthracene	56-55-3	0.000272	0.000160	0.000118	mg/L	10.06.2020 20:44		1
Benzo(a)pyrene	50-32-8	0.000139	0.000160	0.0000502	mg/L	10.06.2020 20:44	J	1
Benzo(b)fluoranthene	205-99-2	0.000168	0.000160	0.0000625	mg/L	10.06.2020 20:44		1
Benzo(g,h,i)perylene	191-24-2	0.000116	0.000160	0.0000996	mg/L	10.06.2020 20:44	JL	1
Benzo(k)fluoranthene	207-08-9	<0.000102	0.000160	0.000102	mg/L	10.06.2020 20:44	U	1
Chrysene	218-01-9	0.000349	0.000160	0.000137	mg/L	10.06.2020 20:44		1
Dibenz(a,h)anthracene	53-70-3	<0.0000668	0.000160	0.0000668	mg/L	10.06.2020 20:44	U	1
Fluoranthene	206-44-0	0.000645	0.000160	0.000138	mg/L	10.06.2020 20:44		1
Fluorene	86-73-7	0.000292	0.000160	0.0000886	mg/L	10.06.2020 20:44		1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.0000803	0.000160	0.0000803	mg/L	10.06.2020 20:44	UL	1
Naphthalene	91-20-3	0.000638	0.000320	0.0000855	mg/L	10.06.2020 20:44		1
Phenanthrene	85-01-8	0.00102	0.000160	0.0000748	mg/L	10.06.2020 20:44		1
Pyrene	129-00-0	0.000667	0.000160	0.000115	mg/L	10.06.2020 20:44		1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	91	54 - 146	%		
Nitrobenzene-d5	108	46 - 151	%		
Terphenyl-D14	42	51 - 139	%		**

Certificate of Analytical Results

674207

ESE Partners, Katy, TX

Yellow Cab Tract 2

Sample Id: T-2 TMW-02

Matrix: Water

Sample Depth:

Lab Sample Id: 674207-002

Date Collected: 09.25.2020 08:30

Date Received: 09.25.2020 18:15

Analytical Method: TPH Speciation by Texas 1006 - Aliphatics

Prep Method: 1005

Analyst: TPH

% Moist:

Seq Number: 3139316

Date Prep: 09.29.2020 13:41

Tech: TPH

Subcontractor: SUB: T104704295-19-26

Prep seq: 7712896

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6 Aliphatic Hydrocarbons	ALHYDRC6	<0.238	0.190	0.238	mg/L	10.02.2020 11:35	U+	1
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<0.238	1.71	0.238	mg/L	10.02.2020 11:35	U+	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	<0.261	0.476	0.261	mg/L	10.02.2020 11:35	U+	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10	<0.249	0.476	0.249	mg/L	10.02.2020 11:35	U+	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12	<0.311	0.476	0.311	mg/L	10.02.2020 11:35	U+	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16	2.22	0.476	0.217	mg/L	10.02.2020 11:35	+	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21	39.8	1.20	0.599	mg/L	10.02.2020 11:35	+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	60 - 140	%		

Analytical Method: TPH Speciation by Texas 1006 - Aromatics

Prep Method: 1005

Analyst: TPH

% Moist:

Seq Number: 3139324

Date Prep: 09.29.2020 13:41

Tech: TPH

Subcontractor: SUB: T104704295-19-26

Prep seq: 7712897

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<0.238	0.476	0.238	mg/L	10.02.2020 11:35	U+	1
C8 to C10 Aromatic Hydrocarbons		<0.261	0.476	0.261	mg/L	10.02.2020 11:35	U+	1
C10 to C12 Aromatic Hydrocarbons		<0.249	0.476	0.249	mg/L	10.02.2020 11:35	U+	1
C12 to C16 Aromatic Hydrocarbons		<0.311	0.476	0.311	mg/L	10.02.2020 11:35	U+	1
C16 to C21 Aromatic Hydrocarbons		1.32	0.476	0.217	mg/L	10.02.2020 11:35	+	1
C21 to C35 Aromatic Hydrocarbons		15.5	1.20	0.601	mg/L	10.02.2020 11:35	+	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	114	60 - 140	%		

Certificate of Analytical Results

674207

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: 7712659-1-BLK	Matrix: Solid	Sample Depth:
Lab Sample Id: 7712659-1-BLK	Date Collected:	Date Received:
Analytical Method: PAHs by SW846 8270D SIM		Prep Method: 3550B
Analyst: DNE	% Moist:	
Seq Number: 3138934	Date Prep: 10.05.2020 16:12	Tech: DNE
	Prep seq: 7712659	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	<0.00348	0.00500	0.00348	mg/kg	10.05.2020 17:32	U	3
Acenaphthylene	208-96-8	<0.00368	0.00500	0.00368	mg/kg	10.05.2020 17:32	U	3
Anthracene	120-12-7	<0.00356	0.00500	0.00356	mg/kg	10.05.2020 17:32	U	3
Benzo(a)anthracene	56-55-3	<0.00321	0.00500	0.00321	mg/kg	10.05.2020 17:32	U	3
Benzo(a)pyrene	50-32-8	<0.00367	0.00500	0.00367	mg/kg	10.05.2020 17:32	U	3
Benzo(b)fluoranthene	205-99-2	<0.00412	0.00500	0.00412	mg/kg	10.05.2020 17:32	U	3
Benzo(g,h,i)perylene	191-24-2	<0.00397	0.00500	0.00397	mg/kg	10.05.2020 17:32	U	3
Benzo(k)fluoranthene	207-08-9	<0.00400	0.00500	0.00400	mg/kg	10.05.2020 17:32	U	3
Chrysene	218-01-9	<0.00278	0.00500	0.00278	mg/kg	10.05.2020 17:32	U	3
Dibenz(a,h)anthracene	53-70-3	<0.00399	0.00500	0.00399	mg/kg	10.05.2020 17:32	U	3
Fluoranthene	206-44-0	<0.00350	0.00500	0.00350	mg/kg	10.05.2020 17:32	U	3
Fluorene	86-73-7	<0.00351	0.00500	0.00351	mg/kg	10.05.2020 17:32	U	3
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.00377	0.00500	0.00377	mg/kg	10.05.2020 17:32	U	3
Naphthalene	91-20-3	<0.00360	0.0500	0.00360	mg/kg	10.05.2020 17:32	U	3
Phenanthrene	85-01-8	<0.00351	0.00500	0.00351	mg/kg	10.05.2020 17:32	U	3
Pyrene	129-00-0	<0.00355	0.00500	0.00355	mg/kg	10.05.2020 17:32	U	3

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	98	51 - 133	%		
Nitrobenzene-d5	98	31 - 130	%		
Terphenyl-D14	101	46 - 137	%		

Certificate of Analytical Results
674207

ESE Partners, Katy, TX
Yellow Cab Tract 2

Sample Id: **7712667-1-BLK** Matrix: Water Sample Depth:
 Lab Sample Id: 7712667-1-BLK Date Collected: Date Received:
 Analytical Method: PAHs by SW846 8270D SIM Prep Method: SW3511
 Analyst: DNE % Moist:
 Seq Number: 3139054 Date Prep: 10.05.2020 16:44 Tech: DNE
 Prep seq: 7712667

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Acenaphthene	83-32-9	<0.000100	0.000182	0.0001000	mg/L	10.06.2020 18:25	U	1
Acenaphthylene	208-96-8	<0.0000842	0.000182	0.0000842	mg/L	10.06.2020 18:25	U	1
Anthracene	120-12-7	<0.0000866	0.000182	0.0000866	mg/L	10.06.2020 18:25	U	1
Benzo(a)anthracene	56-55-3	<0.000134	0.000182	0.000134	mg/L	10.06.2020 18:25	U	1
Benzo(a)pyrene	50-32-8	<0.0000571	0.000182	0.0000571	mg/L	10.06.2020 18:25	U	1
Benzo(b)fluoranthene	205-99-2	<0.0000711	0.000182	0.0000711	mg/L	10.06.2020 18:25	U	1
Benzo(g,h,i)perylene	191-24-2	<0.000113	0.000182	0.000113	mg/L	10.06.2020 18:25	U	1
Benzo(k)fluoranthene	207-08-9	<0.000116	0.000182	0.000116	mg/L	10.06.2020 18:25	U	1
Chrysene	218-01-9	<0.000156	0.000182	0.000156	mg/L	10.06.2020 18:25	U	1
Dibenz(a,h)anthracene	53-70-3	<0.0000760	0.000182	0.0000760	mg/L	10.06.2020 18:25	U	1
Fluoranthene	206-44-0	<0.000157	0.000182	0.000157	mg/L	10.06.2020 18:25	U	1
Fluorene	86-73-7	<0.000101	0.000182	0.000101	mg/L	10.06.2020 18:25	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	<0.0000913	0.000182	0.0000913	mg/L	10.06.2020 18:25	U	1
Naphthalene	91-20-3	<0.0000972	0.000364	0.0000972	mg/L	10.06.2020 18:25	U	1
Phenanthrene	85-01-8	<0.0000850	0.000182	0.0000850	mg/L	10.06.2020 18:25	U	1
Pyrene	129-00-0	<0.000130	0.000182	0.000130	mg/L	10.06.2020 18:25	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
2-Fluorobiphenyl	110	54 - 146	%		
Nitrobenzene-d5	107	46 - 151	%		
Terphenyl-D14	80	51 - 139	%		

Certificate of Analytical Results

674207

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **7712892-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7712892-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aliphatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139309 Date Prep: 09.28.2020 13:24 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7712892

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6 Aliphatic Hydrocarbons	ALHYDRC6	<6.23	20.0	6.23	mg/kg	10.02.2020 11:35	U	1
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<13.8	30.0	13.8	mg/kg	10.02.2020 11:35	U	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	<2.18	5.00	2.18	mg/kg	10.02.2020 11:35	U	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10	<2.04	5.00	2.04	mg/kg	10.02.2020 11:35	U	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12	<4.31	5.00	4.31	mg/kg	10.02.2020 11:35	U	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16	<4.34	5.00	4.34	mg/kg	10.02.2020 11:35	U	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21	<18.4	20.0	18.4	mg/kg	10.02.2020 11:35	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	61	52 - 126	%		

Sample Id: **7712893-1-BLK** Matrix: Solid Sample Depth:
 Lab Sample Id: 7712893-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aromatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139314 Date Prep: 09.28.2020 13:24 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7712893

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<2.23	10.0	2.23	mg/kg	10.02.2020 11:35	U	1
C8 to C10 Aromatic Hydrocarbons		<2.18	5.00	2.18	mg/kg	10.02.2020 11:35	U	1
C10 to C12 Aromatic Hydrocarbons		<5.00	5.00	5.00	mg/kg	10.02.2020 11:35	U	1
C12 to C16 Aromatic Hydrocarbons		5.65	5.00	2.87	mg/kg	10.02.2020 11:35	B	1
C16 to C21 Aromatic Hydrocarbons		<5.00	5.00	5.00	mg/kg	10.02.2020 11:35	U	1
C21 to C35 Aromatic Hydrocarbons		<15.1	20.0	15.1	mg/kg	10.02.2020 11:35	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	93	61 - 131	%		

Certificate of Analytical Results

674207

ESE Partners, Katy, TX Yellow Cab Tract 2

Sample Id: **7712896-1-BLK** Matrix: Water Sample Depth:
 Lab Sample Id: 7712896-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aliphatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139316 Date Prep: 09.29.2020 13:41 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7712896

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
C6 Aliphatic Hydrocarbons	ALHYDRC6	<0.250	0.200	0.250	mg/L	10.02.2020 11:35	U	1
C6 to C8 Aliphatic Hydrocarbons	ALHYDRC6C	<0.250	1.80	0.250	mg/L	10.02.2020 11:35	U	1
C8 to C10 Aliphatic Hydrocarbons	ALHYDRC8C	<0.274	0.500	0.274	mg/L	10.02.2020 11:35	U	1
C10 to C12 Aliphatic Hydrocarbons	ALHYDRC10	<0.262	0.500	0.262	mg/L	10.02.2020 11:35	U	1
C12 to C16 Aliphatic Hydrocarbons	ALHYDRC12	<0.327	0.500	0.327	mg/L	10.02.2020 11:35	U	1
C16 to C21 Aliphatic Hydrocarbons	ALHYDRC16	<0.228	0.500	0.228	mg/L	10.02.2020 11:35	U	1
C21 to C35 Aliphatic Hydrocarbons	ALHYDRC21	<0.630	1.26	0.630	mg/L	10.02.2020 11:35	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	68	60 - 140	%		

Sample Id: **7712897-1-BLK** Matrix: Water Sample Depth:
 Lab Sample Id: 7712897-1-BLK Date Collected: Date Received:
 Analytical Method: TPH Speciation by Texas 1006 - Aromatics Prep Method: 1005
 Analyst: TPH % Moist:
 Seq Number: 3139324 Date Prep: 09.29.2020 13:41 Tech: TPH
 Subcontractor: SUB: T104704295-19-26 Prep seq: 7712897

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
C7 to C8 Aromatic Hydrocarbons		<0.250	0.500	0.250	mg/L	10.02.2020 11:35	U	1
C8 to C10 Aromatic Hydrocarbons		<0.274	0.500	0.274	mg/L	10.02.2020 11:35	U	1
C10 to C12 Aromatic Hydrocarbons		<0.262	0.500	0.262	mg/L	10.02.2020 11:35	U	1
C12 to C16 Aromatic Hydrocarbons		<0.327	0.500	0.327	mg/L	10.02.2020 11:35	U	1
C16 to C21 Aromatic Hydrocarbons		<0.228	0.500	0.228	mg/L	10.02.2020 11:35	U	1
C21 to C35 Aromatic Hydrocarbons		<0.632	1.26	0.632	mg/L	10.02.2020 11:35	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
o-Terphenyl	87	60 - 140	%		

CHRONOLOGY OF HOLDING TIMES

Analytical Method : Percent Moisture by SM2540G

Client : ESE Partners

Work Order #: **674207**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-02 (2-4)	674207-001	09.25.2020			09.30.2020	03.24.2021	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : PAHs by SW846 8270D SIM

Client : ESE Partners

Work Order #: **674207**

Project ID: 20-0506

Date Received: 09.25.2020

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-02 (2-4)	674207-001	09.25.2020	10.05.2020	10.09.2020	10.05.2020	11.14.2020	
T-2 TMW-02	674207-002	09.25.2020	10.02.2020	10.02.2020	10.06.2020	11.11.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH Speciation by Texas 1006 - Aliphatics
 Work Order #: **674207**
 Date Received: 09.25.2020

Client : ESE Partners
 Project ID: 20-0506

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-02 (2-4)	674207-001	09.25.2020	09.28.2020	10.09.2020	10.02.2020	10.12.2020	
T-2 TMW-02	674207-002	09.25.2020	09.29.2020	10.02.2020	10.02.2020	10.13.2020	

F = These samples were analyzed outside the recommended holding time.

CHRONOLOGY OF HOLDING TIMES

Analytical Method : TPH Speciation by Texas 1006 - Aromatics
 Work Order #: **674207**
 Date Received: 09.25.2020

Client : ESE Partners
 Project ID: 20-0506

Field Sample ID	Lab Sample ID	Date Collected	Date Extracted	Expiration Date Extraction	Date Analyzed	Expiration Date Analysis	Q
T-2 TMW-02 (2-4)	674207-001	09.25.2020	09.28.2020	10.09.2020	10.02.2020	10.12.2020	
T-2 TMW-02	674207-002	09.25.2020	09.29.2020	10.02.2020	10.02.2020	10.13.2020	

F = These samples were analyzed outside the recommended holding time.

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Analytical Method:	<u>Percent Moisture by SM2540G</u>	Batch #:	<u>3138492</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674207</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02 (2-4)</u>	<u>674207-001</u>	<u>SMP</u>
<u> </u>	<u>3138492-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>673583-002 D</u>	<u>MD</u>
<u> </u>	<u>673676-001 D</u>	<u>MD</u>

Analytical Method:	<u>PAHs by SW846 8270D SIM</u>	Batch #:	<u>3138934</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674207</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02 (2-4)</u>	<u>674207-001</u>	<u>SMP</u>
<u> </u>	<u>673919-002 S</u>	<u>MS</u>
<u> </u>	<u>673919-002 SD</u>	<u>MSD</u>
<u> </u>	<u>7712659-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712659-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712659-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method:	<u>PAHs by SW846 8270D SIM</u>	Batch #:	<u>3138936</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674207</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02</u>	<u>674207-002</u>	<u>REX</u>
<u></u>	<u>7712576-1-BKS</u>	<u>BKS</u>
<u></u>	<u>7712576-1-BLK</u>	<u>BLK</u>
<u></u>	<u>7712576-1-BSD</u>	<u>BSD</u>

Analytical Method:	<u>PAHs by SW846 8270D SIM</u>	Batch #:	<u>3139054</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674207</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02</u>	<u>674207-002</u>	<u>SMP</u>
<u> </u>	<u>7712667-1-BKS</u>	<u>BKS</u>
<u> </u>	<u>7712667-1-BLK</u>	<u>BLK</u>
<u> </u>	<u>7712667-1-BSD</u>	<u>BSD</u>

Analytical Log

Analytical Method: TPH Speciation by Texas 1006 - Aliph Batch #: 3139309
Project Name: Yellow Cab Tract 2 Project ID: 20-0506
Client Name: ESE Partners WO Number: 674207

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02 (2-4)</u>	<u>674207-001</u>	<u>SMP</u>
<u></u>	<u>7712892-1-BLK</u>	<u>BLK</u>

Analytical Method:	<u>TPH Speciation by Texas 1006 - Arom</u>	Batch #:	<u>3139314</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674207</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02 (2-4)</u>	<u>674207-001</u>	<u>SMP</u>
<u></u>	<u>7712893-1-BLK</u>	<u>BLK</u>

Analytical Log

Analytical Method:	<u>TPH Speciation by Texas 1006 - Aliph</u>	Batch #:	<u>3139316</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674207</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02</u>	<u>674207-002</u>	<u>SMP</u>
<u></u>	<u>7712896-1-BLK</u>	<u>BLK</u>

Analytical Log

Analytical Method:	<u>TPH Speciation by Texas 1006 - Arom</u>	Batch #:	<u>3139324</u>
Project Name:	<u>Yellow Cab Tract 2</u>	Project ID:	<u>20-0506</u>
Client Name:	<u>ESE Partners</u>	WO Number:	<u>674207</u>

Client Sample Id	Lab Sample Id	QC Types
<u>T-2 TMW-02</u>	<u>674207-002</u>	<u>SMP</u>
<u></u>	<u>7712897-1-BLK</u>	<u>BLK</u>

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 674207

Project ID: 20-0506

Lab Batch #: 3138934

Sample: 7712659-1-BLK / BLK

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.05.2020 17:32

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.983	1.00	98	51-133	
Nitrobenzene-d5	0.981	1.00	98	31-130	
Terphenyl-D14	1.01	1.00	101	46-137	

Lab Batch #: 3138934

Sample: 7712659-1-BKS / BKS

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.05.2020 17:50

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.945	1.00	95	51-133	
Nitrobenzene-d5	0.949	1.00	95	31-130	
Terphenyl-D14	0.927	1.00	93	46-137	

Lab Batch #: 3138934

Sample: 7712659-1-BSD / BSD

Batch: 1 Matrix:Solid

Units: mg/kg

Date Analyzed: 10.05.2020 18:07

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.863	1.00	86	51-133	
Nitrobenzene-d5	0.842	1.00	84	31-130	
Terphenyl-D14	0.956	1.00	96	46-137	

Lab Batch #: 3138934

Sample: 673919-002 S / MS

Batch: 1 Matrix:Soil

Units: mg/kg

Date Analyzed: 10.05.2020 18:41

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.957	1.00	96	51-133	
Nitrobenzene-d5	0.996	1.00	100	31-130	
Terphenyl-D14	0.916	1.00	92	46-137	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 674207

Project ID: 20-0506

Lab Batch #: 3138934

Sample: 673919-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10.05.2020 18:59

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.975	1.00	98	51-133	
Nitrobenzene-d5	1.02	1.00	102	31-130	
Terphenyl-D14	0.976	1.00	98	46-137	

Lab Batch #: 3138936

Sample: 7712576-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.05.2020 15:08

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.541	0.500	108	54-146	
Nitrobenzene-d5	0.585	0.500	117	46-151	
Terphenyl-D14	0.479	0.500	96	51-139	

Lab Batch #: 3138936

Sample: 7712576-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.05.2020 15:25

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.532	0.500	106	54-146	
Nitrobenzene-d5	0.546	0.500	109	46-151	
Terphenyl-D14	0.360	0.500	72	51-139	

Lab Batch #: 3138936

Sample: 7712576-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.05.2020 15:43

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.574	0.500	115	54-146	
Nitrobenzene-d5	0.603	0.500	121	46-151	
Terphenyl-D14	0.439	0.500	88	51-139	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 674207

Project ID: 20-0506

Lab Batch #: 3139054

Sample: 7712667-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.06.2020 18:25

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.549	0.500	110	54-146	
Nitrobenzene-d5	0.535	0.500	107	46-151	
Terphenyl-D14	0.399	0.500	80	51-139	

Lab Batch #: 3139054

Sample: 7712667-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.06.2020 18:42

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.571	0.500	114	54-146	
Nitrobenzene-d5	0.592	0.500	118	46-151	
Terphenyl-D14	0.452	0.500	90	51-139	

Lab Batch #: 3139054

Sample: 7712667-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.06.2020 19:00

SURROGATE RECOVERY STUDY

PAHs by SW846 8270D SIM Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	0.560	0.500	112	54-146	
Nitrobenzene-d5	0.579	0.500	116	46-151	
Terphenyl-D14	0.390	0.500	78	51-139	

Lab Batch #: 3139309

Sample: 7712892-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.02.2020 11:35

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aliphatics Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	60.6	100	61	52-126	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Yellow Cab Tract 2

Report Date: 10132020

Work Orders : 674207

Project ID: 20-0506

Lab Batch #: 3139316

Sample: 7712896-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.02.2020 11:35

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aliphatics	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	6.81	10.0	68	60-140	

Lab Batch #: 3139314

Sample: 7712893-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10.02.2020 11:35

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aromatics	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	46.7	50.0	93	61-131	

Lab Batch #: 3139324

Sample: 7712897-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10.02.2020 11:35

SURROGATE RECOVERY STUDY

TPH Speciation by Texas 1006 - Aromatics	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	4.33	5.00	87	60-140	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

ESE Partners
Yellow Cab Tract 2

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Solid
MB Sample Id: 3138492-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	0.0200	%	09.30.2020 12:56	

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Solid Waste
Parent Sample Id: 673583-002 MD Sample Id: 673583-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	1.61	1.57	3	10	%	09.30.2020 12:56	

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3138492 Matrix: Soil
Parent Sample Id: 673676-001 MD Sample Id: 673676-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	15.6	15.5	1	10	%	09.30.2020 12:56	

Analytical Method: PAHs by SW846 8270D SIM

Seq Number: 3138934 Matrix: Solid Prep Method: SW3550
MB Sample Id: 7712659-1-BLK LCS Sample Id: 7712659-1-BKS Date Prep: 10.05.2020
LCSD Sample Id: 7712659-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.00348	0.100	0.0970	97	0.0875	88	42-116	10	25	mg/kg	10.05.2020 17:50	
Acenaphthylene	<0.00368	0.100	0.0987	99	0.0889	89	42-121	10	25	mg/kg	10.05.2020 17:50	
Anthracene	<0.00356	0.100	0.0961	96	0.0914	91	44-120	5	25	mg/kg	10.05.2020 17:50	
Benzo(a)anthracene	<0.00321	0.100	0.0979	98	0.0984	98	52-121	1	25	mg/kg	10.05.2020 17:50	
Benzo(a)pyrene	<0.00367	0.100	0.0910	91	0.0933	93	50-128	2	25	mg/kg	10.05.2020 17:50	
Benzo(b)fluoranthene	<0.00412	0.100	0.0985	99	0.104	104	49-137	5	25	mg/kg	10.05.2020 17:50	
Benzo(g,h,i)perylene	<0.00397	0.100	0.0968	97	0.0973	97	47-132	1	25	mg/kg	10.05.2020 17:50	
Benzo(k)fluoranthene	<0.00400	0.100	0.0980	98	0.0971	97	48-133	1	25	mg/kg	10.05.2020 17:50	
Chrysene	<0.00278	0.100	0.100	100	0.102	102	54-113	2	25	mg/kg	10.05.2020 17:50	
Dibenz(a,h)anthracene	<0.00399	0.100	0.0943	94	0.0953	95	48-133	1	25	mg/kg	10.05.2020 17:50	
Fluoranthene	<0.00350	0.100	0.0992	99	0.0984	98	54-128	1	25	mg/kg	10.05.2020 17:50	
Fluorene	<0.00351	0.100	0.0939	94	0.0871	87	44-118	8	25	mg/kg	10.05.2020 17:50	
Indeno(1,2,3-c,d)Pyrene	<0.00377	0.100	0.0956	96	0.0962	96	49-129	1	25	mg/kg	10.05.2020 17:50	
Naphthalene	<0.00360	0.100	0.0909	91	0.0792	79	40-135	14	25	mg/kg	10.05.2020 17:50	
Phenanthrene	<0.00351	0.100	0.0973	97	0.0932	93	44-119	4	25	mg/kg	10.05.2020 17:50	
Pyrene	<0.00355	0.100	0.105	105	0.104	104	50-126	1	25	mg/kg	10.05.2020 17:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	98		95		86		51-133	%	10.05.2020 17:50
Nitrobenzene-d5	98		95		84		31-130	%	10.05.2020 17:50
Terphenyl-D14	101		93		96		46-137	%	10.05.2020 17:50

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: PAHs by SW846 8270D SIM

Seq Number: 3139054

MB Sample Id: 7712667-1-BLK

Matrix: Water

LCS Sample Id: 7712667-1-BKS

Prep Method: SW3511

Date Prep: 10.05.2020

LCSD Sample Id: 7712667-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.000100	0.0182	0.0228	125	0.0221	121	75-127	3	30	mg/L	10.06.2020 18:42	
Acenaphthylene	<0.0000842	0.0182	0.0231	127	0.0225	124	78-133	3	30	mg/L	10.06.2020 18:42	
Anthracene	<0.0000866	0.0182	0.0224	123	0.0217	119	73-145	3	30	mg/L	10.06.2020 18:42	
Benzo(a)anthracene	<0.000134	0.0182	0.0192	105	0.0165	91	77-131	15	30	mg/L	10.06.2020 18:42	
Benzo(a)pyrene	<0.0000571	0.0182	0.0171	94	0.0142	78	56-163	19	30	mg/L	10.06.2020 18:42	
Benzo(b)fluoranthene	<0.0000711	0.0182	0.0174	96	0.0148	81	74-138	16	30	mg/L	10.06.2020 18:42	
Benzo(g,h,i)perylene	<0.000113	0.0182	0.0161	88	0.0137	75	77-127	16	30	mg/L	10.06.2020 18:42	L
Benzo(k)fluoranthene	<0.000116	0.0182	0.0180	99	0.0150	82	67-142	18	30	mg/L	10.06.2020 18:42	
Chrysene	<0.000156	0.0182	0.0205	113	0.0178	98	66-126	14	30	mg/L	10.06.2020 18:42	
Dibenz(a,h)anthracene	<0.0000760	0.0182	0.0157	86	0.0131	72	71-142	18	30	mg/L	10.06.2020 18:42	
Fluoranthene	<0.000157	0.0182	0.0219	120	0.0209	115	78-138	5	30	mg/L	10.06.2020 18:42	
Fluorene	<0.000101	0.0182	0.0215	118	0.0208	114	79-128	3	30	mg/L	10.06.2020 18:42	
Indeno(1,2,3-c,d)Pyrene	<0.0000913	0.0182	0.0158	87	0.0132	73	76-140	18	30	mg/L	10.06.2020 18:42	L
Naphthalene	<0.0000972	0.0182	0.0210	115	0.0205	113	72-122	2	30	mg/L	10.06.2020 18:42	
Phenanthrene	<0.0000850	0.0182	0.0223	123	0.0218	120	76-129	2	30	mg/L	10.06.2020 18:42	
Pyrene	<0.000130	0.0182	0.0221	121	0.0215	118	74-138	3	30	mg/L	10.06.2020 18:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	110		114		112		54-146	%	10.06.2020 18:42
Nitrobenzene-d5	107		118		116		46-151	%	10.06.2020 18:42
Terphenyl-D14	80		90		78		51-139	%	10.06.2020 18:42

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: PAHs by SW846 8270D SIM
Seq Number: 3138934
Parent Sample Id: 673919-002

Matrix: Soil
MS Sample Id: 673919-002 S

Prep Method: SW3550
Date Prep: 10.05.2020
MSD Sample Id: 673919-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.00367	0.105	0.0997	95	0.102	96	42-116	2	25	mg/kg	10.05.2020 18:41	
Acenaphthylene	<0.00388	0.105	0.102	97	0.105	99	42-121	3	25	mg/kg	10.05.2020 18:41	
Anthracene	<0.00376	0.105	0.0987	94	0.101	95	44-120	2	25	mg/kg	10.05.2020 18:41	
Benzo(a)anthracene	<0.00339	0.105	0.0989	94	0.102	96	52-121	3	25	mg/kg	10.05.2020 18:41	
Benzo(a)pyrene	<0.00387	0.105	0.0911	87	0.0922	87	50-128	1	25	mg/kg	10.05.2020 18:41	
Benzo(b)fluoranthene	<0.00435	0.105	0.101	96	0.0983	93	49-137	3	25	mg/kg	10.05.2020 18:41	
Benzo(g,h,i)perylene	<0.00418	0.105	0.0952	91	0.0988	93	47-132	4	25	mg/kg	10.05.2020 18:41	
Benzo(k)fluoranthene	<0.00421	0.105	0.0917	87	0.0973	92	48-133	6	25	mg/kg	10.05.2020 18:41	
Chrysene	<0.00293	0.105	0.100	95	0.102	96	54-113	2	25	mg/kg	10.05.2020 18:41	
Dibenz(a,h)anthracene	<0.00421	0.105	0.0951	91	0.0973	92	48-133	2	25	mg/kg	10.05.2020 18:41	
Fluoranthene	<0.00369	0.105	0.0948	90	0.0969	91	54-128	2	25	mg/kg	10.05.2020 18:41	
Fluorene	<0.00370	0.105	0.0956	91	0.0979	92	44-118	2	25	mg/kg	10.05.2020 18:41	
Indeno(1,2,3-c,d)Pyrene	<0.00398	0.105	0.0957	91	0.0976	92	49-129	2	25	mg/kg	10.05.2020 18:41	
Naphthalene	<0.00380	0.105	0.0955	91	0.0962	91	40-135	1	25	mg/kg	10.05.2020 18:41	
Phenanthrene	<0.00370	0.105	0.0988	94	0.101	95	44-119	2	25	mg/kg	10.05.2020 18:41	
Pyrene	<0.00375	0.105	0.113	108	0.112	106	50-126	1	25	mg/kg	10.05.2020 18:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
2-Fluorobiphenyl	96		98		51-133	%	10.05.2020 18:41
Nitrobenzene-d5	100		102		31-130	%	10.05.2020 18:41
Terphenyl-D14	92		98		46-137	%	10.05.2020 18:41

Analytical Method: TPH Speciation by Texas 1006 - Aliphatics
Seq Number: 3139309

Matrix: Solid
MB Sample Id: 7712892-1-BLK

Prep Method: TX1006P
Date Prep: 09.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
C6 Aliphatic Hydrocarbons	<6.23	mg/kg	10.02.2020 11:35	
C6 to C8 Aliphatic Hydrocarbons	<13.8	mg/kg	10.02.2020 11:35	
C8 to C10 Aliphatic Hydrocarbons	<2.18	mg/kg	10.02.2020 11:35	
C10 to C12 Aliphatic Hydrocarbons	<2.04	mg/kg	10.02.2020 11:35	
C12 to C16 Aliphatic Hydrocarbons	<4.31	mg/kg	10.02.2020 11:35	
C16 to C21 Aliphatic Hydrocarbons	<4.34	mg/kg	10.02.2020 11:35	
C21 to C35 Aliphatic Hydrocarbons	<18.4	mg/kg	10.02.2020 11:35	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ESE Partners
Yellow Cab Tract 2

Analytical Method: TPH Speciation by Texas 1006 - Aliphatics

Seq Number: 3139316

Matrix: Water

Prep Method: TX1006P

Date Prep: 09.29.2020

MB Sample Id: 7712896-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
C6 Aliphatic Hydrocarbons	<0.250	mg/L	10.02.2020 11:35	
C6 to C8 Aliphatic Hydrocarbons	<0.250	mg/L	10.02.2020 11:35	
C8 to C10 Aliphatic Hydrocarbons	<0.274	mg/L	10.02.2020 11:35	
C10 to C12 Aliphatic Hydrocarbons	<0.262	mg/L	10.02.2020 11:35	
C12 to C16 Aliphatic Hydrocarbons	<0.327	mg/L	10.02.2020 11:35	
C16 to C21 Aliphatic Hydrocarbons	<0.228	mg/L	10.02.2020 11:35	
C21 to C35 Aliphatic Hydrocarbons	<0.630	mg/L	10.02.2020 11:35	

Analytical Method: TPH Speciation by Texas 1006 - Aromatics

Seq Number: 3139314

Matrix: Solid

Prep Method: TX1006P

Date Prep: 09.28.2020

MB Sample Id: 7712893-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
C7 to C8 Aromatic Hydrocarbons	<2.23	mg/kg	10.02.2020 11:35	
C8 to C10 Aromatic Hydrocarbons	<2.18	mg/kg	10.02.2020 11:35	
C10 to C12 Aromatic Hydrocarbons	<5.00	mg/kg	10.02.2020 11:35	
C12 to C16 Aromatic Hydrocarbons	5.65	mg/kg	10.02.2020 11:35	
C16 to C21 Aromatic Hydrocarbons	<5.00	mg/kg	10.02.2020 11:35	
C21 to C35 Aromatic Hydrocarbons	<15.1	mg/kg	10.02.2020 11:35	

Analytical Method: TPH Speciation by Texas 1006 - Aromatics

Seq Number: 3139324

Matrix: Water

Prep Method: TX1006P

Date Prep: 09.29.2020

MB Sample Id: 7712897-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
C7 to C8 Aromatic Hydrocarbons	<0.250	mg/L	10.02.2020 11:35	
C8 to C10 Aromatic Hydrocarbons	<0.274	mg/L	10.02.2020 11:35	
C10 to C12 Aromatic Hydrocarbons	<0.262	mg/L	10.02.2020 11:35	
C12 to C16 Aromatic Hydrocarbons	<0.327	mg/L	10.02.2020 11:35	
C16 to C21 Aromatic Hydrocarbons	<0.228	mg/L	10.02.2020 11:35	
C21 to C35 Aromatic Hydrocarbons	<0.632	mg/L	10.02.2020 11:35	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Attachment A Laboratory Data Package Cover Page

Project Name: **Yellow Cab Tract 2**

Laboratory Number: **674207**

This Data package consists of : Laboratory Batch No(s): **7712893, 7712892, 7712659, 7712897, 7712**

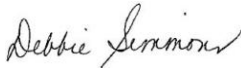
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate Recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs) and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.
- Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies, observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC 25.6 and was last inspection by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Debbie Simmons
Name (Printed)


Signature

Project Manager
Official Title (printed)

10132020
Date

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data						
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10132020				
Project Name: Yellow Cab Tract 2		Laboratory Job Number : 674207				
Reviewer Name: DES		Batch Number(s) : 7712893, 7712892, 7712659, 7712897, 7712896, 7712667, 7712576, 3138492				
#1	A ²	Description	Yes	No	NA ³	NR ⁴ ER# ⁵
R1	OI	Chain-of-Custody (COC)				
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X			
		Were all departures from standard conditions described in an exception report?			X	
R2	OI	Sample and Quality Control (QC) Identification				
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X			
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X			
R3	OI	Test Reports				
		Were all samples prepared and analyzed within holding times?	X			
		Other than those results <MQL, were all other raw values bracketed by calibration standards?	X			
		Were calculations checked by a peer or supervisor?	X			
		Were all analyte identifications checked by a peer or supervisor?	X			
		Were sample detection limits reported for all analytes not detected?	X			
		Were all results for soil and sediment samples reported on a dry weight basis?	X			
		Were % moisture (or solids) reported for all soil and sediment samples?	X			
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X	
		If required for the project, were TICs reported?			X	
R4	O	Surrogate Recovery Data				
		Were surrogates added prior to extraction?	X			
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X		2
R5	OI	Test Reports/Summary Forms for Blank Samples				
		Were appropriate type(s) of blanks analyzed?	X			
		Were blanks analyzed at the appropriate frequency ?	X			
		Were method blanks taken through the entire analytical procedure, including preparation and, if applicable, cleanup procedures ?	X			
		Were Blank Concentrations <MQL?		X		1
R6	OI	Laboratory Control Samples (LCS):				
		Were all COCs included in the LCS?	X			
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X			
		Were LCSs analyzed at the required frequency?	X			
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X		3
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X			
		Was the LCSD RPD within the QC limits?	X			
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data				
		Were the project/method specified analytes included in the MS and MSD?	X			
		Were MS/MSD analyzed at the appropriate frequency?	X			
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X			
		Were MS/MSD RPDs within the laboratory QC limits?	X			
R8	OI	Analytical Duplicate Data				
		Were appropriate analytical duplicates analyzed for each matrix?	X			
		Were analytical duplicates analyzed at the appropriate frequency?	X			
		Were RPDs or relative standard deviations within the laboratory QC limits?	X			
R9	OI	Method Quantitation Limits (MQLs)				
		Are the MQLs for each method analyte included in the laboratory data package?	X			
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X			
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X			
R10	OI	Other Problems/Anomalies				
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X			
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X			
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X			

Attachment A (cont'd) : Laboratory Review Checklist: Reportable Data						
Laboratory Name: EUROFINS XENCO, LLC		LRC Date : 10132020				
Project Name: Yellow Cab Tract 2		Laboratory Job Number : 674207				
Reviewer Name: DES		Batch Number(s) : 7712893, 7712892, 7712659, 7712897, 7712896, 7712667, 7712576, 3138492				
#1	A ²	Description	Yes	No	NA ³	NR ⁴ ER# ⁵
S1	OI	Initial Calibration (ICAL)				
		Were response factors and/or relative response factors for each analyte within QC limits?	X			
		Were percent RSDs or correlation coefficient criteria met?	X			
		Was the number of standards recommended in the method used for all analytes?	X			
		Were all points generated between the lowest and the highest standard used to calculate the curve?	X			
		Are ICAL data available for all instruments used?	X			
		Has the initial calibration curve been verified using an appropriate second source standard?	X			
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and continuing calibration blank (CCB)				
		Was the CCV analyzed at the method-required frequency?	X			
		Were percent differences for each analyte within the method-required QC limits?	X			
		Was the ICAL curve verified for each analyte?	X			
		Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			X	
S3	O	Mass Spectral Tuning				
		Was the appropriate compound for the method used for tuning?	X			
		Were ion abundance data within the method-required QC limits?	X			
S4	O	Internal Standard (IS)				
		Were IS area counts and retention times within the method-required QC limits?	X			
S5	OI	Raw Data (NELAC 5.5.10)				
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X			
		Were data associated with manual integrations flagged on the raw data?	X			
S6	O	Dual Column Confirmation				
		Did dual column confirmation results meet the method-required QC?			X	
S7	O	Tentatively Identified Compounds (TICs)				
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X	
S8	I	Interference Check Sample (ICS) Results				
		Were percent recoveries within method QC limits?			X	
S9	I	Serial Dilutions, Post Digestions Spikes, and Method of Standard Additions				
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X	
S10	OI	Method Detection Limit (MDL) Studies				
		Was a MDL study performed for each reported analyte?	X			
		Is the MDL either adjusted or supported by the analysis of DCSs?	X			
S11	OI	Proficiency Test Reports				
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X			
S12	OI	Standards Documentation				
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X			
S13	OI	Compound/Analyte Identification Procedures				
		Are the procedures for compound/analyte identification documented?	X			
S14	OI	Demonstration of Analyst Competency (DOC)				
		Was DOC conducted consistent with NELAC Chapter 5?	X			
		Is documentation of the analyst's competency up-to-date and on file?	X			
S15	OI	Verification/Validation Documentation for Methods (NELAC Chapter 5)				
		Are all methods used to generate the data documented, verified, and validated, where applicable?	X			
S16	OI	Laboratory Standard Operating Procedures (SOPs)				
		Are laboratory SOPs current and on file for each method performed?	X			

- Items identified by the letter "R" must be included in the laboratory data package submitted to the TCEQ-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report Identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Attachment A (cont'd): Laboratory Review Checklist: Exception Reports

Laboratory Name: EUROFINS XENCO, LLC		LRC Date: 10132020	
Project Name: Yellow Cab Tract 2		Laboratory Job Number: 674207	
Reviewer Name: DES		Batch Number(s) : 7712893, 7712892, 7712659, 7712897, 7712896, 7712667, 7712576, 3138492	
ER# ¹	DESCRIPTION		
1	<p>TX1006 Batch 3139314, C12 to C16 Aromatic Hydrocarbons detected in the blank above the MQL, therefore possible laboratory contamination. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples in the analytical batch are: 674207-001.</p>		
2	<p>SW8270D_SIM Batch 3138936, Surrogate Terphenyl-D14 recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 674207-002. SW8270D_SIM Batch 3139054, Surrogate Terphenyl-D14 recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 674207-002. TX1006 Batch 3139314, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 674207-001.</p>		
3	<p>SW8270D_SIM Batch 3139054, Benzo(g,h,i)perylene, Indeno(1,2,3-c,d)Pyrene recovered below QC limits in the Blank Spike Duplicate indicating bias low results. Samples in the analytical batch are: 674207-002.</p>		

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC).

ESE Partners, Katy, TX
Yellow Cab Tract 2

Analytical Method: PAHs by SW846 8270D SIM

Matrix: Soil

Prep Method: SW3550

Laboratory: Xenco - Houston

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Acenaphthene	0.000790	0.00167	0.000833	0.000787	mg/kg
Acenaphthylene	0.000893	0.00167	0.000833	0.000753	mg/kg
Anthracene	0.00109	0.00167	0.000833	0.000705	mg/kg
Benzo(a)anthracene	0.00108	0.00167	0.000833	0.000759	mg/kg
Benzo(a)pyrene	0.00122	0.00167	0.000833	0.000450	mg/kg
Benzo(b)fluoranthene	0.00114	0.00167	0.000833	0.000921	mg/kg
Benzo(g,h,i)perylene	0.00145	0.00167	0.000833	0.00111	mg/kg
Benzo(k)fluoranthene	0.000992	0.00167	0.000833	0.00163	mg/kg
Chrysene	0.000847	0.00167	0.000833	0.00105	mg/kg
Dibenz(a,h)anthracene	0.00137	0.00167	0.000833	0.00118	mg/kg
Fluoranthene	0.00134	0.00167	0.000833	0.000892	mg/kg
Fluorene	0.000922	0.00167	0.000833	0.000773	mg/kg
Indeno(1,2,3-c,d)Pyrene	0.00132	0.00167	0.000833	0.00103	mg/kg
Naphthalene	0.000849	0.0167	0.000833	0.000891	mg/kg
Phenanthrene	0.00101	0.00167	0.000833	0.000755	mg/kg
Pyrene	0.000911	0.00167	0.000833	0.000778	mg/kg

Analytical Method: PAHs by SW846 8270D SIM

Matrix: Water

Prep Method: SW3511

Laboratory: Xenco - Houston

Parameter	SDL	MQL	Spike Amount	Actual Amount	Units
Acenaphthene	0.0000275	0.0000500	0.000050	0.000035	mg/L
Acenaphthylene	0.0000232	0.0000500	0.000050	0.000029	mg/L
Anthracene	0.0000238	0.0000500	0.000050	0.000029	mg/L
Benzo(a)anthracene	0.0000370	0.0000500	0.000050	0.000039	mg/L
Benzo(a)pyrene	0.0000157	0.0000500	0.000050	0.000029	mg/L
Benzo(b)fluoranthene	0.0000196	0.0000500	0.000050	0.000039	mg/L
Benzo(g,h,i)perylene	0.0000311	0.0000500	0.000050	0.000031	mg/L
Benzo(k)fluoranthene	0.0000319	0.0000500	0.000050	0.000034	mg/L
Chrysene	0.0000429	0.0000500	0.000050	0.000047	mg/L
Dibenz(a,h)anthracene	0.0000209	0.0000500	0.000050	0.000024	mg/L
Fluoranthene	0.0000432	0.0000500	0.000050	0.000044	mg/L
Fluorene	0.0000277	0.0000500	0.000050	0.000032	mg/L
Indeno(1,2,3-c,d)Pyrene	0.0000251	0.0000500	0.000050	0.000027	mg/L
Naphthalene	0.0000267	0.0000100	0.000050	0.000036	mg/L
Phenanthrene	0.0000234	0.0000500	0.000050	0.000035	mg/L
Pyrene	0.0000358	0.0000500	0.000050	0.000036	mg/L

Debbie

674207

Can you relog the soil sample T2-TMW-02 (2-4) and the groundwater T2-TMW-02 and separately run PAH AND 1006 on both samples.

John

-----Original Message-----

From: debbie.simmons@xenco.com <debbie.simmons@xenco.com>

Sent: Friday, October 2, 2020 10:29 AM

To: John Lembcke <john@esepartners.com>; Colton Beall <colton@esepartners.com>

Subject: TPH for review of PAHs/1006 for WO 673676, project ID: 20-0506 project name: Yellow Cab Tract 2

okay found some TPH on these.....Hold time for PAHs on any waters expires today 10/2.

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions or concerns please contact:

Debbie Simmons

Project Manager

Eurofins Xenco, LLC

Email: debbie.simmons@xenco.com

Phone: Phone: 281-240-4200/D:832-986-6768 Please take a minute to rate your experience with Eurofins Xenco, LLC at <http://www.xenco.com/environmental-survey.php>

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Inter-Office Shipment

IOS Number : 71314

Date/Time: 10.02.2020

Created by: Monica Benavides

Please send report to: Debbie Simmons

Lab# From: **Houston**

Delivery Priority:

Address: 4147 Greenbriar Dr.


Lab# To: **Dallas**

Air Bill No.:

E-Mail: debbie.simmons@xenco.com


Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
674207-001	S	T-2 TMW-02 (2-4)	09.25.2020 08:12	TX1006AR	TPH Speciation by Texas 1006 - Aroma	10.07.2020	10.09.2020	DES	CLC8N HYDAROM HYI	
674207-001	S	T-2 TMW-02 (2-4)	09.25.2020 08:12	TX1006AL	TPH Speciation by Texas 1006 - Alipha	10.07.2020	10.09.2020	DES	CLC8N PHCC12C16AL I	
674207-002	W	T-2 TMW-02	09.25.2020 08:30	TX1006AR	TPH Speciation by Texas 1006 - Aroma	10.07.2020	10.02.2020 08:30	DES	CLC8N HYDAROM HYI	
674207-002	W	T-2 TMW-02	09.25.2020 08:30	TX1006AL	TPH Speciation by Texas 1006 - Alipha	10.07.2020	10.02.2020 08:30	DES	CLC8N PHCC12C16AL I	

Inter Office Shipment or Sample Comments:

Relinquished By: 

 Monica Benavides

Date Relinquished: 10.02.2020

Received By: 

 Whitney Capps

Date Received: 10.03.2020

Cooler Temperature: 4.0



Inter Office Report- Sample Receipt Checklist

Sent To: Dallas

IOS #: 71314

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR2

Sent By: Monica Benavides

Date Sent: 10.02.2020 02.43 PM

Received By: Whitney Capps

Date Received: 10.03.2020 09.39 AM

Sample Receipt Checklist

Comments

- #1 *Temperature of cooler(s)? 4
- #2 *Shipping container in good condition? Yes
- #3 *Samples received with appropriate temperature? Yes
- #4 *Custody Seals intact on shipping container/ cooler? No
- #5 *Custody Seals Signed and dated for Containers/coolers N/A
- #6 *IOS present? Yes
- #7 Any missing/extra samples? No
- #8 IOS agrees with sample label(s)/matrix? Yes
- #9 Sample matrix/ properties agree with IOS? Yes
- #10 Samples in proper container/ bottle? Yes
- #11 Samples properly preserved? Yes
- #12 Sample container(s) intact? Yes
- #13 Sufficient sample amount for indicated test(s)? Yes
- #14 All samples received within hold time? Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by:

Whitney Capps

Whitney Capps

Date: 10.03.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: ESE Partners

Date/ Time Received: 09.25.2020 06.15.00 PM

Work Order #: 674207

Acceptable Temperature Range: 0 - 6 degC
 Air and Metal samples Acceptable Range: Ambient
 Temperature Measuring device used : HOU-203

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes
#18 Water VOC samples have zero headspace?	Yes

1006 is subcontracted to Xenco Dallas

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: MDB

PH Device/Lot#:

Checklist completed by:  Date: 10.02.2020
 Monica Benavides

Checklist reviewed by:  Date: 10.02.2020
 Debbie Simmons

APPENDIX C
TCEQ TRRP TIER 1 TPH PCL CALCULATIONS

TCEQ TRRP Tier 1 TPH PCL Calculator (v 2.0 - 12/2016) for TCEQ Method 1006 Groundwater Data - Input Sheet

Site Information:		Yellow Cab - Tract 2	Sample ID:	T-2 TMW-02	October 16, 2020
		▼ INPUT ▼	$MF_i = \frac{C_i}{\sum_{i=1}^{13} C_i}$		$\frac{MF_i}{MW_i}$
TCEQ Method 1006 Boiling Point Range	<i>i</i>	TCEQ Method 1006 Boiling Point Range Concentrations <i>C_i</i> (mg/L)	Boiling Point Range Molecular Weight ¹ <i>MW_i</i> (g/mol)	Boiling Point Range Mass Fraction <i>MF_i</i> (-)	Mass Fraction / Molecular Wt Ratio, <i>MF_i/MW_i</i> (mol/g)
C ₆ Aliphatic	1	0.00 mg/L	81	-	-
>C ₆ - C ₈ Aliphatic	2	0.00 mg/L	100	-	-
>C ₈ - C ₁₀ Aliphatic	3	0.00 mg/L	130	-	-
>C ₁₀ - C ₁₂ Aliphatic	4	0.00 mg/L	160	-	-
>C ₁₂ - C ₁₆ Aliphatic	5	0.00 mg/L	200	-	-
>C ₁₆ - C ₂₁ Aliphatic	6	2.22 mg/L	270	3.77E-02	1.40E-04
>C ₂₁ - C ₃₅ Aliphatic	7	39.80 mg/L	270	6.76E-01	2.51E-03
>C ₇ - C ₈ Aromatic	8	0.00 mg/L	92	-	-
>C ₈ - C ₁₀ Aromatic	9	0.00 mg/L	120	-	-
>C ₁₀ - C ₁₂ Aromatic	10	0.00 mg/L	130	-	-
>C ₁₂ - C ₁₆ Aromatic	11	0.00 mg/L	150	-	-
>C ₁₆ - C ₂₁ Aromatic	12	1.32 mg/L	190	2.24E-02	1.18E-04
>C ₂₁ - C ₃₅ Aromatic	13	15.50 mg/L	240	2.63E-01	1.10E-03
Sum Aliphatic Fraction:		42.02 mg/L	0.7141	$\sum MF_i = 1.00E+00$	$\sum \left(\frac{MF_i}{MW_i} \right) = 3.86E-03 \text{ mol/g}$
Sum Aromatic Fraction:		16.82 mg/L	0.2859		
SumTotal TPH:		58.84 mg/L	1.0000		

TCEQ Texas Risk Reduction Program (TRRP) Tier 1 TPH PCL Calculator (v 2.0 - 7/2016) for TCEQ Method 1006 Groundwater Data - Input Sheet

Site Information:		Yellow Cab - Tract 2	Sample Information:	T-2 TMW-02	October 16, 2020
Tier 1 ^{GW} <i>GW_{Ing}</i>		Residential		Commerical / Industrial	
	PCL _{TPH Mix} =	2.77E+00 mg/L		8.35E+00 mg/L	
	Hazard Index (HI) of TPH _{Mix} =	1.13		1.12	
Tier 1 ^{GW} <i>GW_{Class 3}</i>		Residential		Commerical / Industrial	
	PCL _{TPH Mix} =	2.77E+02 mg/L		8.35E+02 mg/L	
	Hazard Index (HI) of TPH _{Mix} =	1.13		1.12	
Tier 1 ^{Air} <i>GW_{Ing-V}</i>		0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind
	PCL _{TPH Mix} =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Hazard Index (HI) of TPH _{Mix} =	0.00	0.00	0.00	0.00

This work sheet is for inputting the TQEQ Method 1006 groundwater concentration values and summarizing the PCL calculation results.
End of work sheet.

TCEQ Texas Risk Reduction Program (TRRP) Tier 1 TPH PCL Calculator (v 1.8 - 5/2015) for TCEQ Method 1006 Data - Input Sheet

Site Information:		Yellow Cab - Tract 2		Sample ID:		T-2 TMW-02 (2'-4')		Calculation Date:		October 16, 2020			
		▼ INPUT ▼		$MF_i = \frac{C_i}{\sum_{i=1}^{13} C_i}$		$\frac{MF_i}{MW_i}$		$X_i = \frac{\left(\frac{MF_i}{MW_i}\right)}{\sum_{i=1}^{13} \left(\frac{MF_i}{MW_i}\right)}$		$C_{sat,i} = S_i X_i \left[\frac{\theta_{sat} + K_r \rho_s + \theta_{sat} H^2}{A_i} \right]$		$C_i > C_{sat,i} ?$	
TCEQ Method 1006 Boiling Point Range	i	TCEQ Method 1006 Boiling Point Range Concentrations Ci (mg/kg)	Boiling Point Range Molecular Weight ¹ MWi (g/mol)	Boiling Point Range Mass Fraction MFi (-)	Mass Fraction / Molecular Wt Ratio MFi/MWi (mol/g)	Boiling Point Range Mole Fraction Xi (-)	Theoretical Soil Saturation Limit for TPH NAPL Csat, i (mg/kg)	Test for Theoretical Saturation Limit (Csat,i)					
C ₆ Aliphatic (>53% n-hexane)	1	0.00 mg/kg	81	-	-	-	-	-					
C ₆ Aliphatic (<53% n-hexane)	1	0.00 mg/kg	81	-	-	-	-	-					
>C ₆ - C ₈ Aliphatic (>53% n-hexane)	2	0.00 mg/kg	100	-	-	-	-	-					
>C ₆ - C ₈ Aliphatic (<53% n-hexane)	2	0.00 mg/kg	100	-	-	-	-	-					
>C ₈ - C ₁₀ Aliphatic	3	3.22 mg/kg	130	8.19E-03	6.30E-05	1.59E-02	5.02E-01 mg/kg	Csat,3 EXCEEDED					
>C ₁₀ - C ₁₂ Aliphatic	4	0.00 mg/kg	160	-	-	-	-	-					
>C ₁₂ - C ₁₆ Aliphatic	5	7.94 mg/kg	200	2.02E-02	1.01E-04	2.55E-02	1.95E-01 mg/kg	Csat,5 EXCEEDED					
>C ₁₆ - C ₂₁ Aliphatic	6	0.00 mg/kg	270	-	-	-	-	-					
>C ₂₁ - C ₃₅ Aliphatic	7	211.00 mg/kg	270	5.37E-01	1.99E-03	5.01E-01	1.58E+00 mg/kg	Csat,7 EXCEEDED					
Transformer mineral oil (aliphatic)			270	-	-	-	-	-					
>C ₇ - C ₉ Aromatic	8	0.00 mg/kg	92	-	-	-	-	-					
>C ₉ - C ₁₀ Aromatic	9	0.00 mg/kg	120	-	-	-	-	-					
>C ₁₀ - C ₁₂ Aromatic	10	0.00 mg/kg	130	-	-	-	-	-					
>C ₁₂ - C ₁₆ Aromatic	11	0.00 mg/kg	150	-	-	-	-	-					
>C ₁₆ - C ₂₁ Aromatic	12	0.00 mg/kg	190	-	-	-	-	-					
>C ₂₁ - C ₃₅ Aromatic	13	171.00 mg/kg	240	4.35E-01	1.81E-03	4.57E-01	7.60E-01 mg/kg	Csat,13 EXCEEDED					
Transformer mineral oil (aromatic)			240	-	-	-	-	-					
Sum Aliphatic Fraction:		222.16 mg/kg	0.5651	$\sum MF_i$ = 1.00E+00	$\sum \left(\frac{MF_i}{MW_i}\right)$ = 3.96E-03 mol/g	$\sum X_i$ = 1.00E+00							
Sum Aromatic Fraction:		171.00 mg/kg	0.4349										
SumTotal TPH:		393.16 mg/kg	1.0000	¹ from TRRP Table [§350.73(4)]									

TCEQ Texas Risk Reduction Program (TRRP) Tier 1 TPH PCL Calculator (v 1.8 - 4/2014) for TCEQ Method 1006 Data - Results

Site Information: Yellow Cab - Tract 2 Sample Information: T-2 TMW-02 (2'-4') Calculation Date: October 16, 2020

TPH NAPL Present?: Theoretical soil saturation limit IS EXCEEDED for one or more TPH fractions - Presence of NAPL is indicated - See TRRP-32 for NAPL management guidance

Mobile NAPL Present?: Presence of Mobile NAPL NOT indicated

Tier 1 ^{Tot} SOIL _{Comb}	0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind	
	PCL _{TPH Mix} =	4.60E+03 mg/kg	4.60E+03 mg/kg	4.60E+04 mg/kg	4.60E+04 mg/kg
	Hazard Index (HI) of TPH _{Mix} =	1.05	1.06	1.13	1.22
Tier 1 ^{GW} SOIL _{Ing}	0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind	
	PCL _{TPH Mix} =	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27
	Hazard Index (HI) of TPH _{Mix} =	0.00	0.00	0.00	0.00
Tier 1 ^{GW} SOIL _{Class 3}	0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind	
	PCL _{TPH Mix} =	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27
	Hazard Index (HI) of TPH _{Mix} =	0.00	0.00	0.00	0.00
Tier 1 ^{Air} SOIL _{Inh-V}	0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind	
	PCL _{TPH Mix} =	5.94E+05 mg/kg	3.07E+05 mg/kg	8.42E+05 mg/kg	4.31E+05 mg/kg
	Hazard Index (HI) of TPH _{Mix} =	1.63	1.64	1.63	1.64

This work sheet is for inputting the TQEQ Method 1006 value concentrations and the showing the PCL calculation results. End of work sheet.

TCEQ Texas Risk Reduction Program (TRRP) Tier 1 TPH PCL Calculator (v 1.8 - 5/2015) for TCEQ Method 1006 Data - Input Sheet

Site Information:		Yellow Cab - Tract 2		Sample ID:		T-2 TMW-05 (2'-4')		Calculation Date:		October 16, 2020		
		▼ INPUT ▼		$MF_i = \frac{C_i}{\sum_{i=1}^{13} C_i}$		MF_i / MW_i		$X_i = \frac{(MF_i / MW_i)}{\sum_{i=1}^{13} (MF_i / MW_i)}$		$C_{sat,i} = S_i X_i \left[\frac{\theta_{w3} + K_d \rho_s + \theta_{w3} H^i}{\rho_s} \right]$		$C_i > C_{sat,i} ?$
TCEQ Method 1006 Boiling Point Range	i	TCEQ Method 1006 Boiling Point Range Concentrations Ci (mg/kg)	Boiling Point Range Molecular Weight ¹ MWi (g/mol)	Boiling Point Range Mass Fraction MFi (-)	Mass Fraction / Molecular Wt Ratio MFi/MWi (mol/g)	Boiling Point Range Mole Fraction Xi (-)	Theoretical Soil Saturation Limit for TPH NAPL i (mg/kg)	Csat, i (mg/kg)	Test for Theoretical Saturation Limit (C _{sat,i})			
C ₆ Aliphatic (>53% n-hexane)	1	0.00 mg/kg	81	-	-	-	-	-	-			
C ₆ Aliphatic (<53% n-hexane)	1	0.00 mg/kg	81	-	-	-	-	-	-			
>C ₆ - C ₈ Aliphatic (>53% n-hexane)	2	0.00 mg/kg	100	-	-	-	-	-	-			
>C ₆ - C ₈ Aliphatic (<53% n-hexane)	2	0.00 mg/kg	100	-	-	-	-	-	-			
>C ₈ - C ₁₀ Aliphatic	3	0.00 mg/kg	130	-	-	-	-	-	-			
>C ₁₀ - C ₁₂ Aliphatic	4	0.00 mg/kg	160	-	-	-	-	-	-			
>C ₁₂ - C ₁₆ Aliphatic	5	0.00 mg/kg	200	-	-	-	-	-	-			
>C ₁₆ - C ₂₁ Aliphatic	6	826.00 mg/kg	270	9.55E-02	3.54E-04	9.41E-02	2.97E-01 mg/kg	Csat,6 EXCEEDED				
>C ₂₁ - C ₃₅ Aliphatic	7	6,980.00 mg/kg	270	8.07E-01	2.99E-03	7.95E-01	2.51E+00 mg/kg	Csat,7 EXCEEDED				
Transformer mineral oil (aliphatic)			270	-	-	-	-	-				
>C ₇ - C ₈ Aromatic	8	0.00 mg/kg	92	-	-	-	-	-	-			
>C ₈ - C ₁₀ Aromatic	9	0.00 mg/kg	120	-	-	-	-	-	-			
>C ₁₀ - C ₁₂ Aromatic	10	0.00 mg/kg	130	-	-	-	-	-	-			
>C ₁₂ - C ₁₆ Aromatic	11	0.00 mg/kg	150	-	-	-	-	-	-			
>C ₁₆ - C ₂₁ Aromatic	12	73.30 mg/kg	190	8.47E-03	4.46E-05	1.19E-02	2.45E-01 mg/kg	Csat,12 EXCEEDED				
>C ₂₁ - C ₃₅ Aromatic	13	772.00 mg/kg	240	8.92E-02	3.72E-04	9.89E-02	1.64E-01 mg/kg	Csat,13 EXCEEDED				
Transformer mineral oil (aromatic)			240	-	-	-	-	-				
Sum Aliphatic Fraction:		7,806.00 mg/kg	0.9023	$\sum MF_i$	$\sum (MF_i / MW_i)$	$\sum X_i$						
Sum Aromatic Fraction:		845.30 mg/kg	0.0977	= 1.00E+00	= 3.76E-03 mol/g	= 1.00E+00						
SumTotal TPH:		8,651.30 mg/kg	1.0000	¹ from TRRP Table [§350.73(4)]								

TCEQ Texas Risk Reduction Program (TRRP) Tier 1 TPH PCL Calculator (v 1.8 - 4/2014) for TCEQ Method 1006 Data - Results

Site Information:		Yellow Cab - Tract 2		Sample Information:		T-2 TMW-05 (2'-4')		Calculation Date:		October 16, 2020	
TPH NAPL Present?:		Theoretical soil saturation limit IS EXCEEDED for one or more TPH fractions - Presence of NAPL is indicated - See TRRP-32 for NAPL management guidance									
Mobile NAPL Present?:		Presence of Mobile NAPL NOT indicated									
Tier 1 ^{Tot} SOIL _{Comb}		0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind						
PCL _{TPH Mix} =		2.24E+04 mg/kg	2.24E+04 mg/kg	2.24E+05 mg/kg	2.24E+05 mg/kg						
Hazard Index (HI) of TPH _{Mix} =		1.25	1.25	1.30	1.30						
Tier 1 ^{GW} SOIL _{Ing}		0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind						
PCL _{TPH Mix} =		HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27						
Hazard Index (HI) of TPH _{Mix} =		0.00	0.00	0.00	0.00						
Tier 1 ^{GW} SOIL _{Class 3}		0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind						
PCL _{TPH Mix} =		HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27						
Hazard Index (HI) of TPH _{Mix} =		0.00	0.00	0.00	0.00						
Tier 1 ^{Air} SOIL _{Inh-V}		0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind						
PCL _{TPH Mix} =		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!						
Hazard Index (HI) of TPH _{Mix} =		0.00	0.00	0.00	0.00						

This work sheet is for inputting the TCEQ Method 1006 value concentrations and the showing the PCL calculation results.
End of work sheet.

TCEQ Texas Risk Reduction Program (TRRP) Tier 1 TPH PCL Calculator (v 1.8 - 5/2015) for TCEQ Method 1006 Data - Input Sheet

Site Information:		Yellow Cab - Tract 2		Sample ID:		T-2 TMW-08 (8'-10')		Calculation Date:		October 16, 2020		
		▼ INPUT ▼		$MF_i = \frac{C_i}{\sum_{i=1}^n C_i}$		$\frac{MF_i}{MW_i}$		$X_i = \frac{\left(\frac{MF_i}{MW_i}\right)}{\sum_{i=1}^n \left(\frac{MF_i}{MW_i}\right)}$		$C_{sat,i} = S \cdot X_i \left[\frac{\theta_w + K_r \rho_s + \theta_w H^2}{\beta} \right]$		$C_i > C_{sat,i} ?$
TCEQ Method 1006 Boiling Point Range	i	TCEQ Method 1006 Boiling Point Range Concentrations Ci (mg/kg)	Boiling Point Range Molecular Weight ¹ MWi (g/mol)	Boiling Point Range Mass Fraction MFi (-)	Mass Fraction / Molecular Wt Ratio MFi/MWi (mol/g)	Boiling Point Range Mole Fraction Xi (-)	Theoretical Soil Saturation Limit for TPH NAPL Csat, i (mg/kg)	Test for Theoretical Saturation Limit (Csat,i)				
C ₆ Aliphatic (>53% n-hexane)	1	0.00 mg/kg	81	-	-	-	-	-				
C ₆ Aliphatic (<53% n-hexane)	1	0.00 mg/kg	81	-	-	-	-	-				
>C ₆ - C ₈ Aliphatic (>53% n-hexane)	2	0.00 mg/kg	100	-	-	-	-	-				
>C ₆ - C ₈ Aliphatic (<53% n-hexane)	2	0.00 mg/kg	100	-	-	-	-	-				
>C ₈ - C ₁₀ Aliphatic	3	125.00 mg/kg	130	3.41E-01	2.62E-03	3.59E-01	1.13E+01 mg/kg	Csat,3 EXCEEDED				
>C ₁₀ - C ₁₂ Aliphatic	4	66.70 mg/kg	160	1.82E-01	1.14E-03	1.56E-01	2.74E+00 mg/kg	Csat,4 EXCEEDED				
>C ₁₂ - C ₁₆ Aliphatic	5	8.52 mg/kg	200	2.32E-02	1.16E-04	1.59E-02	1.22E-01 mg/kg	Csat,5 EXCEEDED				
>C ₁₆ - C ₂₁ Aliphatic	6	0.00 mg/kg	270	-	-	-	-	-				
>C ₂₁ - C ₃₅ Aliphatic	7	0.00 mg/kg	270	-	-	-	-	-				
Transformer mineral oil (aliphatic)			270	-	-	-	-	-				
>C ₇ - C ₉ Aromatic	8	0.00 mg/kg	92	-	-	-	-	-				
>C ₉ - C ₁₀ Aromatic	9	10.20 mg/kg	120	2.78E-02	2.32E-04	3.17E-02	6.86E+00 mg/kg	Csat,9 EXCEEDED				
>C ₁₀ - C ₁₂ Aromatic	10	125.00 mg/kg	130	3.44E-01	2.64E-03	3.62E-01	4.65E+01 mg/kg	Csat,10 EXCEEDED				
>C ₁₂ - C ₁₆ Aromatic	11	30.30 mg/kg	150	8.26E-02	5.51E-04	7.55E-02	4.43E+00 mg/kg	Csat,11 EXCEEDED				
>C ₁₆ - C ₂₁ Aromatic	12	0.00 mg/kg	190	-	-	-	-	-				
>C ₂₁ - C ₃₅ Aromatic	13	0.00 mg/kg	240	-	-	-	-	-				
Transformer mineral oil (aromatic)			240	-	-	-	-	-				
Sum Aliphatic Fraction:		200.22 mg/kg	0.5460	$\sum MF_i$ = 1.00E+00	$\sum \left(\frac{MF_i}{MW_i}\right)$ = 7.30E-03 mol/g	$\sum X_i$ = 1.00E+00						
Sum Aromatic Fraction:		166.50 mg/kg	0.4540									
SumTotal TPH:		366.72 mg/kg	1.0000	¹ from TRRP Table [§350.73(4)]								

TCEQ Texas Risk Reduction Program (TRRP) Tier 1 TPH PCL Calculator (v 1.8 - 4/2014) for TCEQ Method 1006 Data - Results

Site Information: Yellow Cab - Tract 2 Sample Information: T-2 TMW-08 (8'-10') Calculation Date: October 16, 2020

TPH NAPL Present?: Theoretical soil saturation limit IS EXCEEDED for one or more TPH fractions - Presence of NAPL is indicated - See TRRP-32 for NAPL management guidance

Mobile NAPL Present?: Presence of Mobile NAPL NOT indicated

	0.5 Acre Residential	30 Acre Residential	0.5 Acre Comm / Ind	30 Acre Comm / Ind
Tier 1^{Tot}SOIL_{Comb}				
PCL _{TPH Mix}	5.53E+03 mg/kg	4.37E+03 mg/kg	2.01E+04 mg/kg	1.16E+04 mg/kg
Hazard Index (HI) of TPH _{Mix}	2.08	2.19	2.41	2.49
Tier 1^{GW}SOIL_{Ing}				
PCL _{TPH Mix}	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27
Hazard Index (HI) of TPH _{Mix}	0.60	1.19	0.20	0.40
Tier 1^{GW}SOIL_{Class 3}				
PCL _{TPH Mix}	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27	HI<10 - See Pg 16 TRRP-27
Hazard Index (HI) of TPH _{Mix}	0.01	0.01	0.00	0.00
Tier 1^{Air}SOIL_{Inh-V}				
PCL _{TPH Mix}	1.92E+04 mg/kg	9.90E+03 mg/kg	2.68E+04 mg/kg	1.40E+04 mg/kg
Hazard Index (HI) of TPH _{Mix}	2.62	2.64	2.59	2.65

This work sheet is for inputting the TCEQ Method 1006 value concentrations and the showing the PCL calculation results.
End of work sheet.

APPENDIX D
ARSENIC AT PETROLEUM IMPACTED SITES

Attenuation of Naturally Occurring Arsenic at Petroleum Hydrocarbon-Impacted Sites

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ABSTRACT: In January 2006, the United States Environmental Protection Agency (USEPA) lowered the maximum contaminant level (MCL) for dissolved arsenic in groundwater from 0.050 mg/L to 0.010 mg/L due to long-term chronic health effects of low concentrations of arsenic in drinking water. This has heightened public and regulatory awareness of dissolved arsenic in groundwater.

Arsenic occurrence at petroleum-impacted sites can be summarized by five basic principles that govern the fate and transport of arsenic in shallow aquifers impacted by petroleum hydrocarbons. These are:

1. If arsenic is not present in the site mineralogy, or if arsenic has not been emplaced due to human activity, petroleum impacts will not cause arsenic impacts to groundwater. Arsenic is not a major contaminant in petroleum hydrocarbons;
2. For sites that have naturally occurring arsenic-bearing minerals, sorbed arsenic phases, or aged anthropogenic arsenic sources, there is a stable arsenic geochemistry present that determines the ambient (background) level of dissolved arsenic in groundwater. If the background level of arsenic naturally exceeds the new MCL, then the MCL is unachievable as an attenuation or remediation goal;
3. The introduction of petroleum hydrocarbons (or other degradable organics) may cause a perturbation to the existing geochemistry, resulting in the mobilization of existing naturally occurring arsenic at concentrations above the ambient level;
4. The perturbation of the ambient arsenic geochemistry (and related arsenic mobilization) will persist until the soluble hydrocarbons are attenuated; and
5. Once the hydrocarbons are attenuated, the arsenic will revert to its pre-existing stable geochemistry, which may be above or below the arsenic drinking water MCL of 0.010 mg/L, it depends on the background geochemistry and background arsenic concentrations.

Proper management of a petroleum-impacted site at which arsenic has become mobilized requires an understanding of the site-specific ambient conditions and how petroleum impacts affect arsenic chemistry and mobility in the subsurface. This understanding can be refined by developing a site-specific conceptual model incorporating background and site data to guide further investigation and remedial actions concerning arsenic.

INTRODUCTION

In January 2006, the United States Environmental Protection Agency (USEPA) lowered the maximum contaminant level (MCL) for dissolved arsenic in groundwater from 0.050 mg/L to 0.010 mg/L due to long-term chronic health effects of low concentrations

of arsenic in drinking water. This has heightened public and regulatory awareness of dissolved arsenic in groundwater.

While petroleum hydrocarbons, themselves, are not a source of arsenic, naturally-occurring arsenic may be mobilized into shallow groundwater by inputs of biodegradable organic carbon, including petroleum hydrocarbons. “Naturally-occurring arsenic” refers to arsenic that is present in the solid phase prior to impacts by degradable organic carbon, including petroleum hydrocarbons. Arsenic may be present as specific minerals, as an amorphous phase, or adsorbed onto iron oxyhydroxides and other soil constituents, either as a natural trace metal in native rocks and soils or from human activity such as agriculture or waste disposal. Hydrocarbons can mobilize arsenic by creating reduced conditions.

When a petroleum release occurs, the more soluble hydrocarbon fractions can dissolve into groundwater, stimulating biological activity. Bacteria degrade the dissolved hydrocarbons and consume the available terminal electron acceptors (TEAs), creating reduced groundwater environments. The redox level attained is a function of the TEA availability and the amount of hydrocarbon released. Once the redox conditions are at or below the Eh for iron reduction, ferric oxides in the soils are reduced to the more soluble ferrous form. Because most soil arsenic is associated with ferric oxides, arsenic will also be released and mobilized into groundwater. Dissolution of ferric oxides not only releases arsenic to the groundwater, but also decreases the future adsorption sites for arsenic. Arsenic is also reduced from As^{+5} to the more soluble As^{+3} , which is present as the arsenite anion (AsO_3^{-3}), and further increases mobility.

When the petroleum hydrocarbons are attenuated, the natural attenuation of arsenic will occur as the aquifer is restored to its original aerobic conditions. Arsenite is re-oxidized to the less soluble arsenate. Reduced iron is reoxidized and re-precipitates on the soil particles as an oxyhydroxide. These iron oxyhydroxides adsorb and bind arsenate. Over time, the adsorbed arsenate can mineralize and become even more stable. The natural attenuation of arsenic is coupled to the attenuation of hydrocarbon plumes.

NATURALLY OCCURRING ARSENIC

One of the fundamental principles of arsenic mobilization and attenuation at hydrocarbon-impacted sites is that arsenic has to be present in the soil prior to the release of the hydrocarbons.

As shown in Table 1, crude oils and therefore, petroleum products, are not a source of arsenic. Arsenic can, however, be present at a site due to either natural site mineralogy or geochemistry, or due to anthropogenic activity.

TABLE 1. Summary of arsenic concentration in 26 crude oils.

Arsenic Concentrations in 26 Crude Oils (Data are in mg/kg oil, unless otherwise noted.)	
Mean	0.06
Minimum	Not Detected
Maximum	0.57
Detection freq	7
Method Detection Level	0.08
EPA reporting limit	0.5
Mean US Soil Conc (USGS)	5.2 mg/Kg soil

Source: Magaw, et al., 2001.

Arsenic is naturally found in many soils. It may be present as specific minerals or it may be present as an adsorbed phase on metal (primarily iron) oxyhydroxides and other clay minerals. There are over 500 naturally occurring arsenic minerals. Naturally occurring arsenic is frequently associated with volcanic deposits and sulfidic minerals (e.g., pyrite [FeS₂]). Over time, arsenic minerals may weather, redistributing arsenic in the soil matrix as a stable, adsorbed phase on ubiquitous metal (iron) oxyhydroxides. Geochemical processes such as oxidation and reduction, pH shifts, precipitation, and adsorption result in arsenic redistribution in soils.

There are broad areas of the United States where arsenic in groundwater already exceeds the old MCL (50 µg/L) due to the naturally occurring mineralogy. The southwestern and the upper midwest US have natural dissolved arsenic concentrations greater than either the current or previous MCL due to naturally occurring arsenic minerals.

Arsenic also has many industrial uses. It is used in agricultural applications for animals and crops, and in lawn care. Arsenic is also used for wood treating, as a flame retardant in plastics, in semiconductors, and as a rat poison. Arsenic can be found as an impurity in mining and mineral processing sites. It is also found as a constituent of municipal landfills and leachate.

Industrial and agricultural uses of arsenic can result in both point source and non-point source contamination. Of greatest interest are non-point sources of arsenic. Typically, these uses involve application of industrial chemicals (e.g., pesticides) over wide areas resulting in diffuse, low-level arsenic contamination. Nonpoint source arsenic has the greatest potential to overlap with areas of petroleum impact.

PRINCIPLES OF ARSENIC MOBILITY

The mobility of arsenic is controlled by redox conditions (Eh), by the pH and by the presence of metal oxyhydroxides that can adsorb and bind arsenic. With petroleum impacted sites, the aquifers most commonly encountered will, for the most part, be shallow and in contact with the atmosphere. Therefore, the most common background redox condition will be an aerobic environment in which arsenic will be present as the oxidized, less mobile, As⁺⁵. The ambient groundwater concentration of the arsenic will be controlled by pH and the soil mineral content (i.e. iron oxyhydroxides). As⁺⁵, present as the arsenate anion (AsO₄⁻³), is more soluble at low pH (< 4) and high pH (>8). This is in contrast to natural groundwater pH values typically ranging between 4 and 8. Arsenate is also strongly adsorbed to iron oxyhydroxides, which are fairly ubiquitous.

An important part of understanding the mobility of naturally-occurring arsenic at petroleum impacted sites is having a good characterization of the ambient arsenic geochemistry and of the hydrogeology of the site. Site characterization should determine the ambient, background level of dissolved arsenic. The dissolved arsenic level at petroleum impacted sites, even after attenuation, cannot be lower than background. If the background level of arsenic naturally exceeds the new MCL, then the MCL is unachievable as an attenuation or remediation goal. The ambient dissolved arsenic concentrations are a function of the site mineralogy, hydrogeology and redox conditions.

Figure 1 (Boulding and Ginn, 2004) superimposes the redox conditions of groundwater on an Eh-pH diagram of arsenic. The diagram identifies the thermodynamically stable arsenic species for a given range of Eh and pH. Under oxidizing conditions (high Eh), arsenates are more stable. As shown in Figure 1, aquifers that are in contact with the

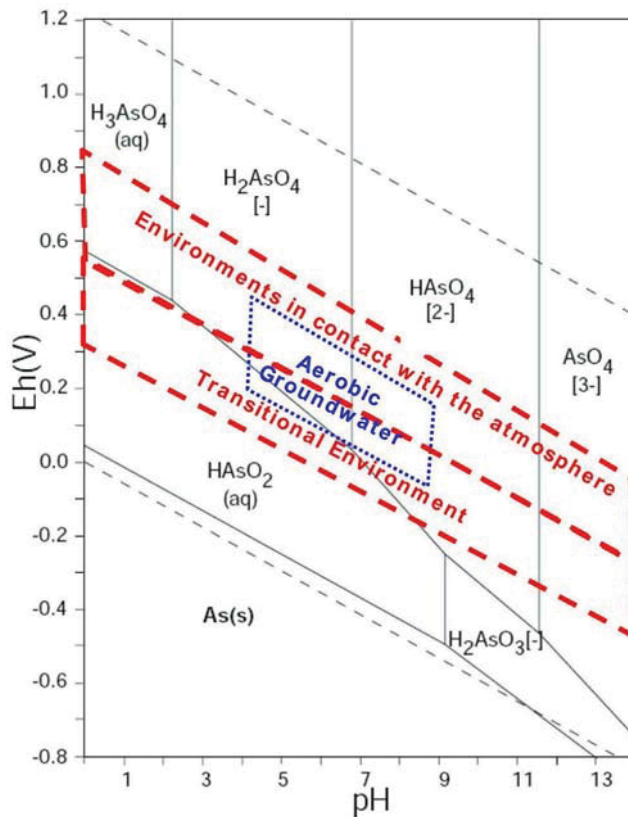


FIGURE 1. Arsenic speciation in groundwater regimes.

atmosphere (unconfined conditions) will be mostly aerobic, and arsenic will be predominately in the pentavalent (As+5; arsenate) valence state. The solubility of arsenic under aerobic conditions is determined by the pH and mineralogy, particularly the presence of iron oxy hydroxides (FeO(OH)).

The primary forms of inorganic arsenic in both oxidizing and reducing groundwater are oxyanions. Oxyanions of arsenic readily sorb to solid phase metal oxyhydroxides such as goethite. (Wilkin, 2003) Adsorption of arsenic at mineral surfaces occurs as a result of a set of chemical reactions generally referred to as sorption.

The most important reactive surface phases for arsenic attenuation in many soils and subsurface systems are cationic metal surfaces, including iron, aluminum, and calcium mineral phases. Arsenic sorption has been demonstrated for a wide range of minerals common to soils and sediments with iron oxides and sulfides playing a dominant role in oxidizing and reducing environments

IMPACT OF PETROLEUM HYDROCARBONS ON ARSENIC MOBILITY

When petroleum hydrocarbons are released to groundwater, there is a progression from aerobic to anaerobic conditions with an associated reduction in the redox conditions of the groundwater system. The progression is, in decreasing order of redox potential, aerobic respiration, followed in sequence by nitrate reduction, manganese reduction, iron reduction, sulfate reduction, and finally, methanogenesis. Typically, the most reducing conditions are in the source area and the least reducing conditions (i.e., aerobic conditions) are at the plume boundary. The relative reaction rates and levels of microbial

activity under each of these different metabolic environments are controlled by the availability of the TEAs, the types and concentrations of organic substrate(s) that can be utilized by the bacteria, and specific type and population of the microbial community. This redox progression results in a loss of organic carbon and depletion of various electron acceptors from the aquifer system as well as a progression in the types and metabolic activity of the indigenous bacteria. Figure 2 shows that the relative areas of metabolic activity vary in the direction of groundwater flow. The most reduced conditions are found in the source area. The aquifer conditions become less reducing in the direction of groundwater flow. Aerobic conditions generally bound the plume in both directions.

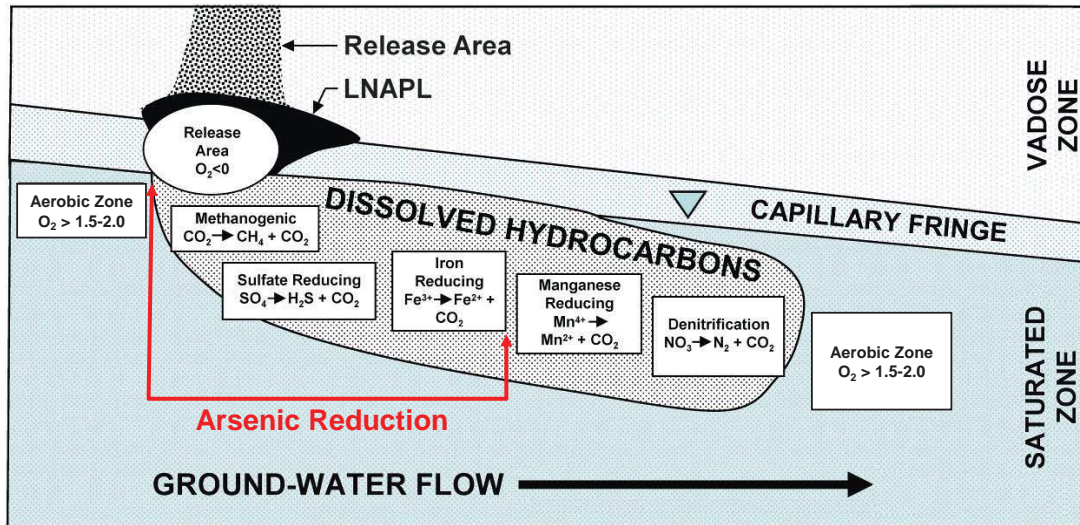


FIGURE 2. Conceptual model of biodegradation of a petroleum-hydrocarbon plume.

If microbial activity is high and there is sufficient dissolved hydrocarbon, the aquifer environment will progress rapidly through these different anaerobic metabolic conditions. Once the microbial conditions reach iron reduction or below, arsenic will be reduced and mobilized.

ATTENUATION OF HYDROCARBONS AND ARSENIC

Migration of the dissolved hydrocarbons and the resulting microbial activity creates overlapping hydrocarbon and arsenic plumes. As pictured in Figure 3, the hydrocarbon impact reduced the redox. Arsenic is initially mobilized by the change in redox. The hydrocarbons attenuate due to biological activity. The arsenic plume commonly extends beyond the hydrocarbon plume, with arsenic remaining above background concentrations until aquifer redox conditions return to aerobic. This downgradient portion of the plume is a transition zone where dissolved arsenic concentrations decrease as the aquifer becomes more oxidizing, the arsenic is reabsorbed and immobilized.

The combined plume goes through three stages over time —an initial phase of plume expansion, a period of plume stability where the footprint is static, and a final stage in which the plume retreats toward the petroleum source area. Plume expansion occurs until

the dissolution of hydrocarbons is balanced by their degradation and removal. When there are no longer sufficient hydrocarbons present to maintain the plume, the plume begins to retreat. As the plume retreats, redox conditions gradually revert to ambient conditions. Once the hydrocarbons are attenuated, the aquifer becomes aerobic, and the arsenic reverts back to the existing ambient (background) conditions

When the petroleum hydrocarbons are attenuated, natural attenuation of arsenic will occur as the aquifer is restored to aerobic conditions. Arsenite is reoxidized to the less soluble arsenate. Reduced iron is reoxidized and re-precipitates on the soil particles as an oxyhydroxide. These iron oxyhydroxides adsorb and bind arsenate. Over time, the adsorbed arsenate can mineralize and become even more stable.

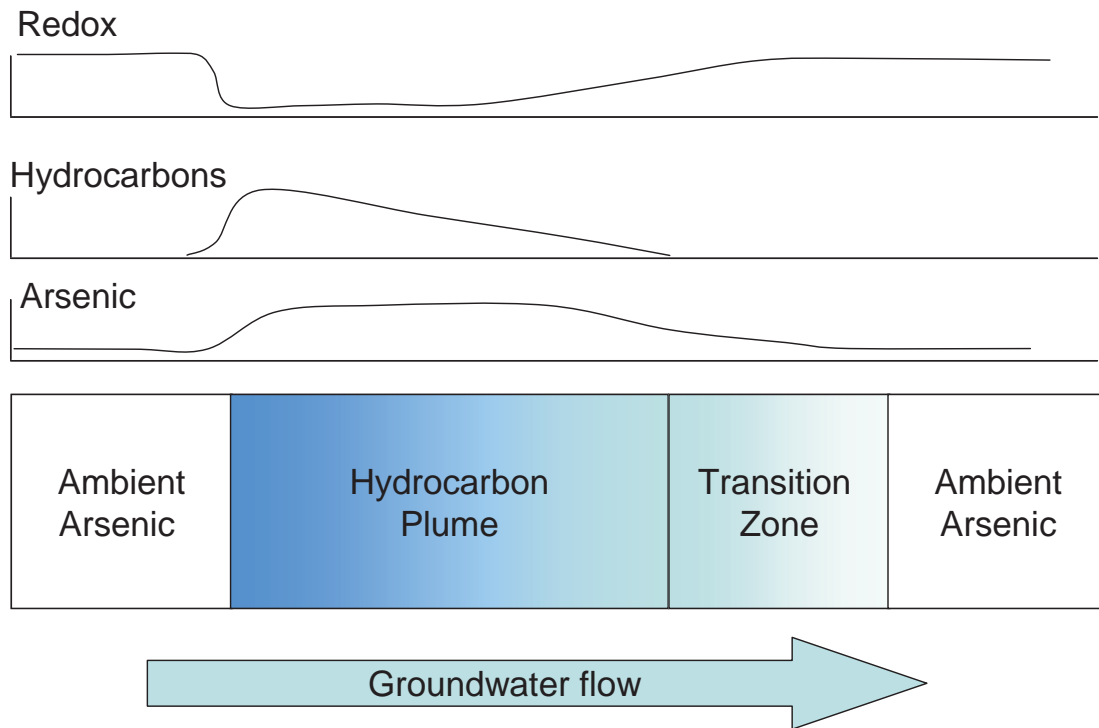


FIGURE 3. Change in hydrocarbons, arsenic, and redox with distance.

CASE STUDIES

Four case studies illustrate the basic principles of arsenic mobilization and attenuation discussed above.

1. **An Operating Refinery**—Arsenic mobilization associated with the presence of hydrocarbon LNAPL is present in an alluvial terrace sand aquifer. Correlations between iron and arsenic in both soil and groundwater indicate arsenic mobilization occurs with the loss of iron oxyhydroxide sorption sites due to changes in redox conditions. Concentrations of arsenic in groundwater downgradient of hydrocarbon impacts indicate that arsenic is not mobile under the ambient aerobic

conditions at this site. Once the hydrocarbons are attenuated, as the hydrocarbon plume migrates down gradient, aerobic conditions are re-established and the arsenic is re-oxidized and re-adsorbed onto the soil matrix when DO is observed to be ~ 1.5 to 2 mg/L.

2. **A Former Refinery**—The water bearing unit in a bluff underlying a former tank farm is impacted with hydrocarbon LNAPL and arsenic. The presence of iron oxyhydroxides is visually evident as orange and red staining of quartz grains in cored sediment from outside the hydrocarbon plume, while within the plume reducing conditions are evident by grey to black sandstone. Arsenic mobilization appears to be a result of changing redox conditions, leading to elevated arsenic in seepage water from the bluff. The arsenic concentrations correlate to dissolved iron.
3. **A Former Exploration Reserve Pit** —A former drill site reserve pit and gravel pad in northern Alaska received drilling waste, followed by closure and corrective action activities. Samples of surface water surrounding the pit before corrective action revealed evidence of potential hydrocarbon impacts and elevated dissolved arsenic concentrations. Later samples showed decreases in dissolved arsenic concentrations as the geochemical parameters pH and dissolved iron returned to background aerobic conditions.
4. **A Former Fuel Terminal**—A former fuel terminal contains elevated hydrocarbon in soil and groundwater at various locations throughout the site. Ambient geochemical conditions are naturally reducing due to native organic carbon. Dissolved arsenic has been measured throughout and upgradient of the site where groundwater conditions are reducing. Removal of hydrocarbon impacts does not decrease arsenic concentrations due to the ambient naturally occurring reduced conditions that exist at the site.

CONCLUSIONS

Five basic principles govern the fate and transport of arsenic in shallow aquifers impacted by petroleum hydrocarbons. These are:

1. If arsenic is not present in the site mineralogy, or if arsenic has not been emplaced due to human activity (agriculture, wood treating, mining, etc.), petroleum impacts will not cause arsenic impacts to groundwater.
2. For sites that have naturally-occurring arsenic-bearing minerals, sorbed arsenic phases, or aged anthropogenic arsenic sources, there is a stable arsenic geochemistry present that determines the ambient (background) level of dissolved arsenic in groundwater. The ambient dissolved arsenic level is controlled by complex geochemical interactions among Eh, pH and minerals able to adsorb, complex, or precipitate arsenic.
3. The introduction of petroleum hydrocarbons (or other degradable organics) may cause a perturbation to the existing geochemistry, resulting in the mobilization of arsenic at concentrations above the ambient level. Petroleum and other degradable organics lower the redox state to more reduced conditions. The primary mechanism for lowering the Eh is anaerobic biological activity.

4. The perturbation of the ambient arsenic geochemistry (and related arsenic mobilization) will persist until the soluble hydrocarbons are attenuated.
5. Once the hydrocarbons are attenuated, the arsenic will revert to its pre-existing stable geochemistry, which may be above or below the drinking water MCL for arsenic of 0.010 mg/L depending on the background geochemistry.

NOTE

This work is a combined effort of the American Petroleum Institute (API), The Petroleum Environmental Research Forum (PERF) and ERM. The API will be publishing a document, "API Arsenic Manual: Attenuation of Naturally Occurring Arsenic at Petroleum Impacted Sites" in 2010.

RECOMMENDATIONS

Proper management of a petroleum impacted site at which arsenic has become mobilized requires development of a site specific conceptual model (SSCM). The SSCM should have four main elements:

1. The general site geology and hydrogeology of the groundwater bearing units (GWBU) that have been or can be impacted by a petroleum release;
2. The ambient arsenic geochemistry within the impacted GWBU;
3. The petroleum distribution and microbial conditions (redox zones); and
4. A survey of potential receptors and exposure pathways for arsenic that has been mobilized.

A well-constructed SSCM has a number of uses including:

- Determining the appropriate locations for long term monitoring;
- Determining the key parameters needed to monitor the effectiveness and status of natural attenuation at the site;
- Supporting the inclusion of a natural attenuation based approach in the remediation strategy;
- Illustrating the processes of mobilization and attenuation of arsenic at a petroleum impacted site for discussing with regulators and stakeholders; and
- Assessing whether efforts beyond natural attenuation are necessary.

REFERENCES

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- Magaw, R.I., S.J. McMillen, W.R. Gala, J.H. Trefry, and R.P. Trocine. 2001. Chapter 12: Risk evaluation of metals in crude oils. In *Risk-Based Decision-Making for Assessing Petroleum Impacts at Exploration and Production Sites*, ed. McMillen, S.J. et al., Department of Energy and the Petroleum Environmental Research Fund.
- Wilkin, R.T., D. Wallschlaeger, and R.G. Ford. 2003. Speciation of arsenic in sulfidic waters. *Geochemical Transactions*. Vol. 4, pp. 1-7.



Arsenic Occurrence at Petroleum Hydrocarbon Impacted Sites

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Context for Talk

- API Manual: “Attenuation of Naturally-occurring Arsenic at Petroleum Impacted Sites”
 - Cooperative effort of ERM, API and PERF
- Purposes of Manual
 - 1) Identify potential sources of arsenic at petroleum impacted sites,
 - arsenic contained in native rock and soils, and
 - arsenic resulting from anthropogenic sources,
 - **petroleum hydrocarbons are not a source of arsenic;**
 - 3) Present the fundamentals of arsenic biogeochemistry; and
 - 4) Provide validated tools for the assessment of arsenic at petroleum impacted sites and its management through natural attenuation.

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Problem Statement

- In January, 2006 the United States Environmental Protection Agency (USEPA) lowered the maximum contaminant level (MCL) for dissolved arsenic in groundwater from 50 µg/L to 10 µg/L due to long-term chronic health effects of low levels of arsenic in drinking water.
- Are petroleum hydrocarbon releases a source of arsenic in groundwater?



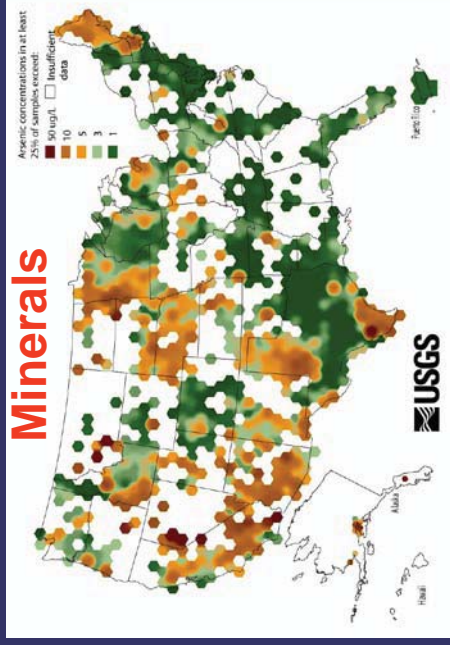
Five Principles of Arsenic Mobilization at Petroleum Impacted Sites

- Arsenic mobilization can only occur if arsenic is present as a soil mineral or from its use on site.
- Sites with sources of arsenic have a stable arsenic geochemistry controlled by Eh, pH and minerals able to adsorb, complex, or precipitate arsenic (e.g. Fe^{+3}).
- Petroleum hydrocarbons (or other degradable organics) perturb the existing geochemistry, mobilizing arsenic above the ambient level, by lowering the redox state through anaerobic biological activity.
- This perturbation of the ambient arsenic geochemistry persists until the soluble hydrocarbons are attenuated.
- Once the hydrocarbons are attenuated, the arsenic will revert to its pre-existing stable geochemistry, which may be above or below the drinking water MCL for arsenic depending on the background geochemistry.

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Sources of Arsenic



Arsenic Concentrations in 26 Crude Oils	
(Data are in mg/kg oil, unless otherwise noted.)	
Mean	0.06
Minimum	Not Detected
Maximum	0.57
Detection freq	7
Method Detection Level	0.08
EPA reporting limit	0.5
Mean US Soil Conc (USGS)	5.2 mg/Kg soil

Use/Application	Form of Arsenic Used
Fruit Trees, Nut Trees	Arsenates (AsO_4^{3-})
Golf Courses	Monosodium Methyl Arsenate (MSMA)
Animal Feed (Chickens)	Arsenates
Rat Poison Manufacturing	Arsenates
Flame Retarding Plastics Manufacturing	Arsenates
Phosphate Fertilizer Manufacturing	Arsenates
Wood Treating (Historic)	Arsenates
Animal Dips (Sheep and cows for lice and hoof diseases)	Arsenates
Pigments	Copper Arsenate, Arsenic Sulfides
Semiconductors	Arsenic Metal
Herbicide Application	Arsenate
Defoliant	Arsenic trioxide

Source: www.wikipedia.com, 2009)



Mobilization

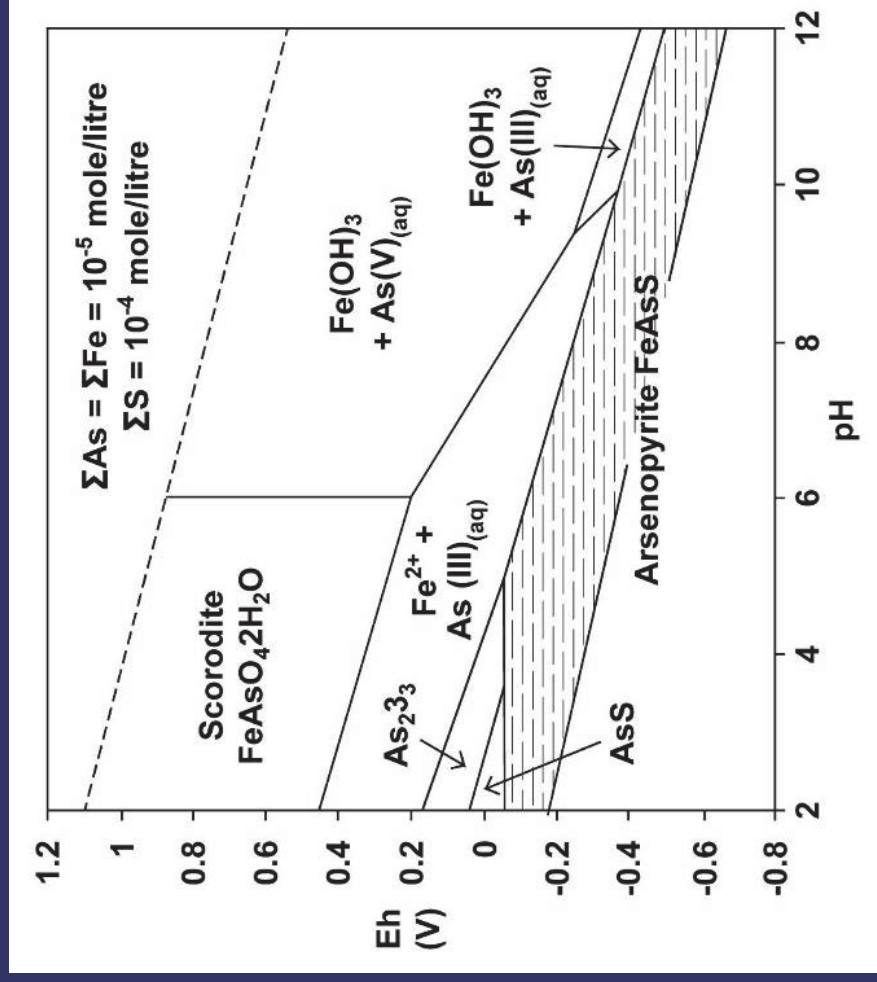
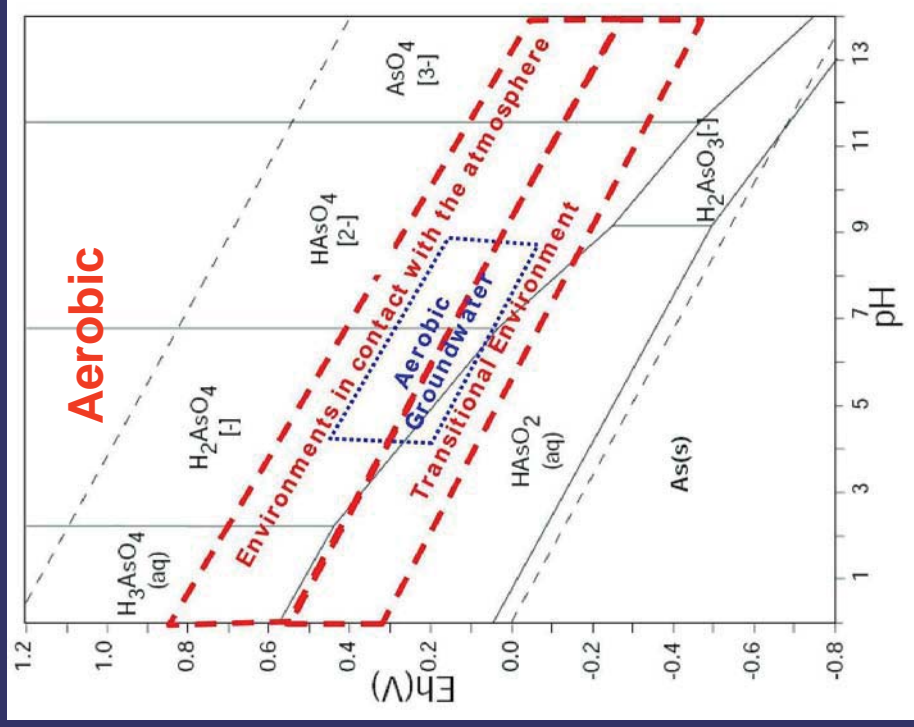
- Mobilization of arsenic from natural or anthropogenic sources can occur in the presence of petroleum hydrocarbons
- Perturbation of the ambient conditions increases arsenic solubility as a result of changes to redox conditions and pH

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Arsenic in Groundwater



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Geochemical influences on arsenic solubility

- **Minerals and dissolved-phase constituents affect the solubility of arsenic**
 - Formation of complexes
 - Stability of metal-arsenic phases
 - Sorption of arsenic onto/into solid phases
- **Background or ambient conditions**
 - Are metal-arsenic phases present?
 - Are sorptive phases present?



Arsenic Solubility vs. Valence

Table 2-1: Relative Solubilities of Arsenite and Arsenate

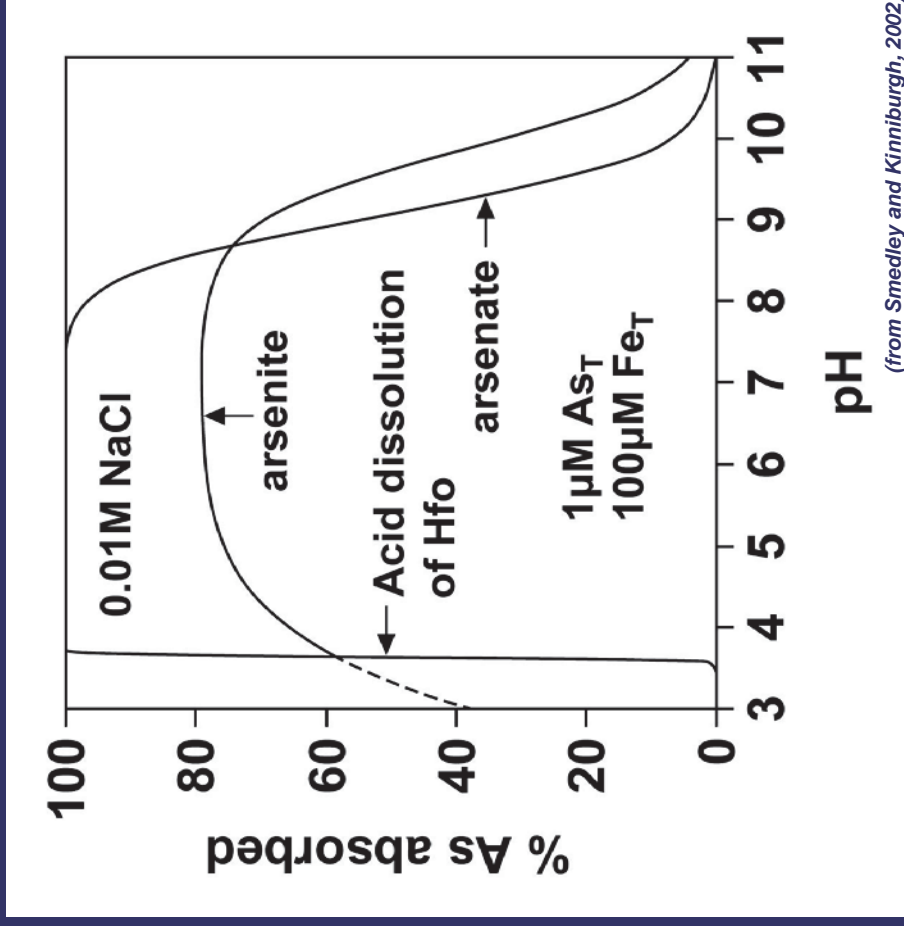
Cation Added	Initial As Conc.	Final Concentration	
		Arsenate	Arsenite
Ferric Iron	350 µg/L	6 µg/L	140 µg/L
Ferric Iron	300 µg/L	6 µg/L	138 µg/L
Aluminum (Alum)	350 µg/L	74 µg/L	263 µg/L
Aluminum (Alum)	300 µg/L	30 µg/L	249 µg/L
Aluminum (Alumina)	100 µg/L	4 µg/L	~100 µg/L
Calcium	2 mg/L	20 µg/L	160 µg/L

Table 2-3: Solubility of Metal Arsenates

Metal Cation	Compound	Log K _{sp}
Al	AlAsO ₄	15.8
Mg	Mg ₃ (AsO ₄) ₂	19.7
Ca	Ca ₃ (AsO ₄) ₂	18.2
Ba	Ba ₃ (AsO ₄) ₂	13
Cr	CrAsO ₄	20.1
Fe	FeAsO ₄	20.2
Ni	Ni ₃ (AsO ₄) ₂	25.5
Cu	Cu ₃ (AsO ₄) ₂	35.12
Zn	Zn ₃ (AsO ₄) ₂	27
Pb	Pb ₃ (AsO ₄) ₂	35.39
Mn	Mn ₃ (AsO ₄) ₂	10.7



Absorption of Arsenate and Arsenite on Hydrous Ferric Oxide



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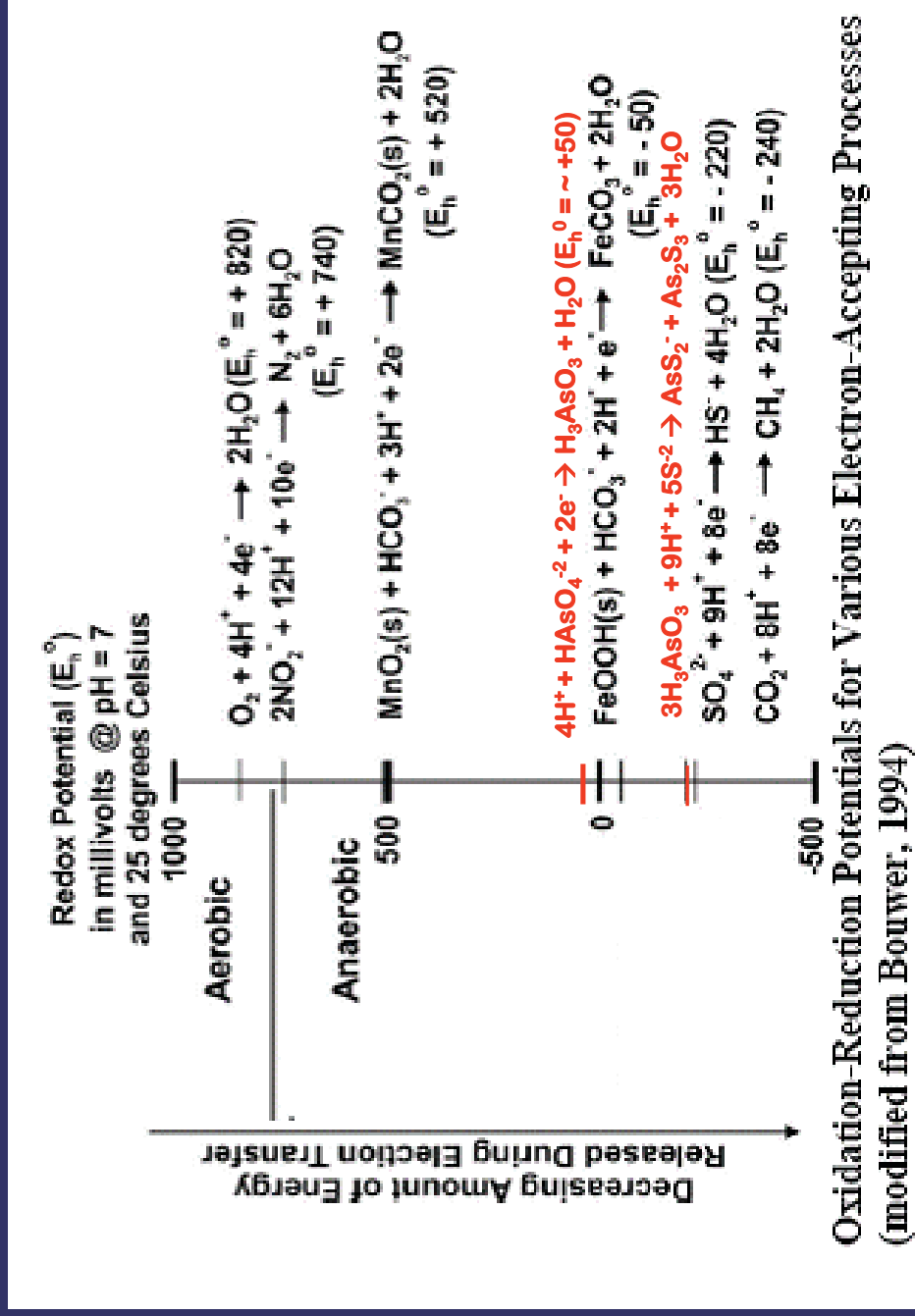


Natural Attenuation of Arsenic

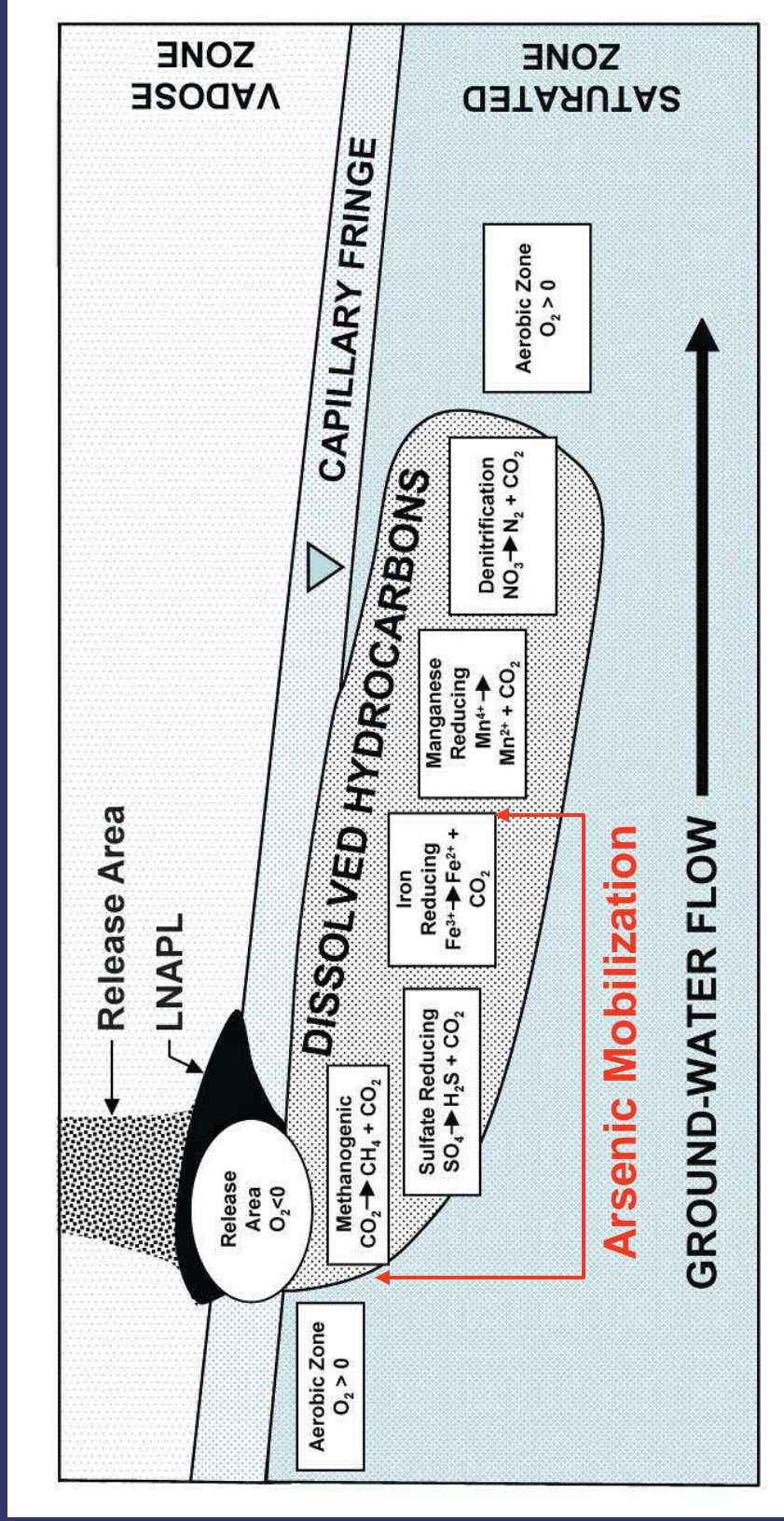
- **As conditions in groundwater become more reducing, arsenic is mobilized**
- **Attenuation of petroleum impacts by biodegradation allows ambient conditions to return**
- **As ambient conditions return, redox state of arsenic is reversible**



Arsenic Redox versus Biodegradation



Petroleum Hydrocarbon Degradation



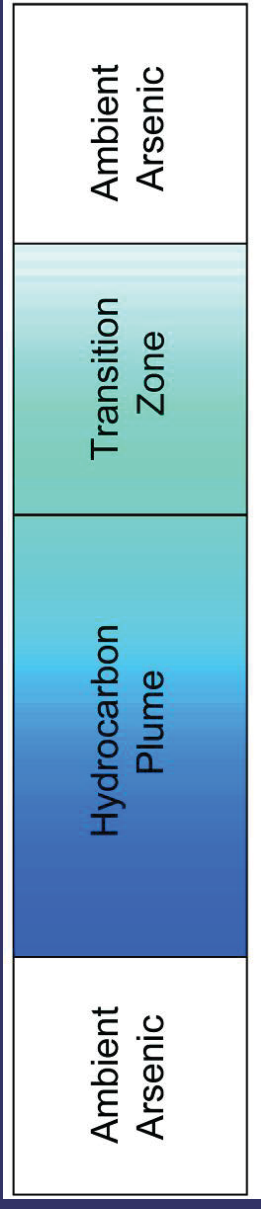
The Arsenic Plume Conceptual Model

- A plume of arsenic mobilized by petroleum hydrocarbon impacts will mimic the hydrocarbon plume
- Stages of arsenic mobilization can be related to the hydrocarbon plume conditions (expanding, stable, or shrinking)

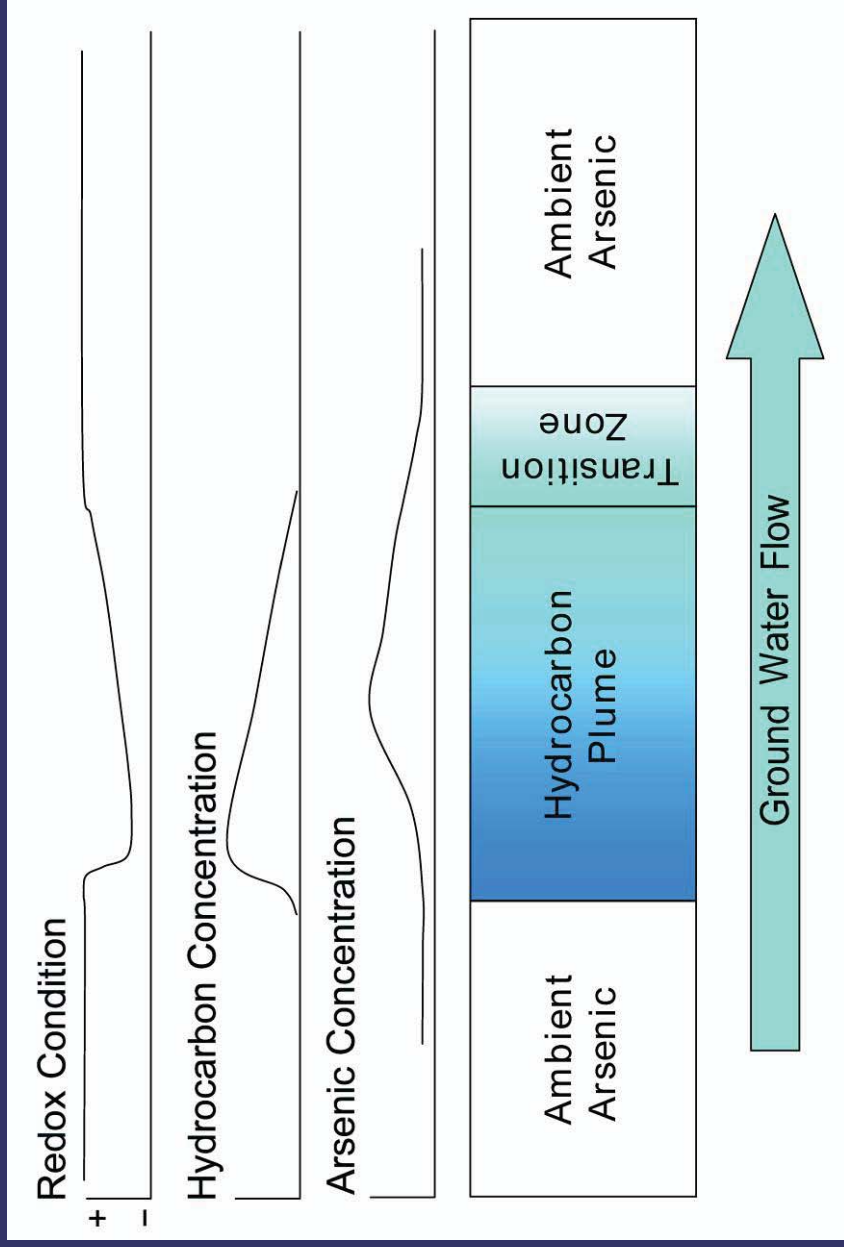


Stages of Arsenic Mobilization

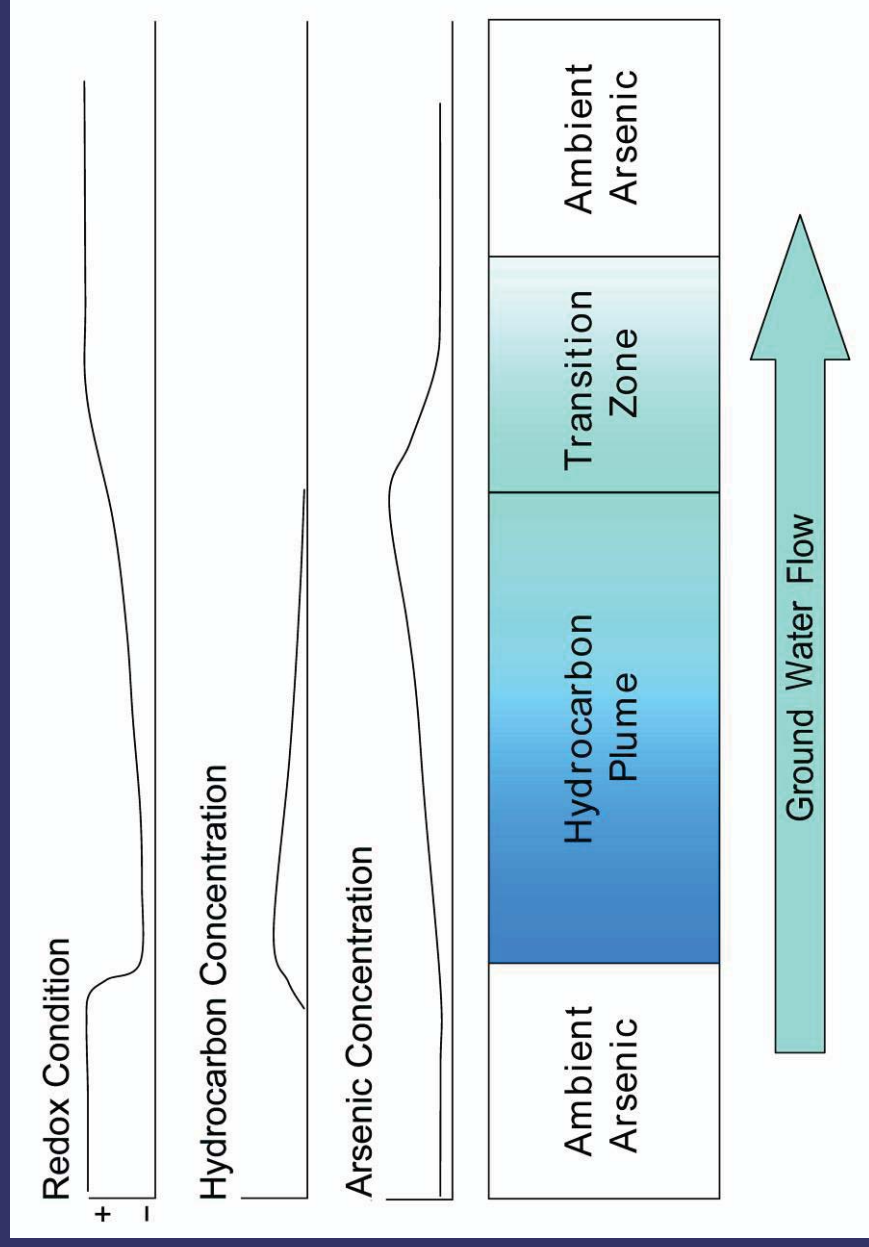
- **Expanding plume**
 - Influx of HC >> Attenuation
- **Steady State**
 - Influx of HC = Attenuation
- **Shrinking plume**
 - Influx of HC << Attenuation



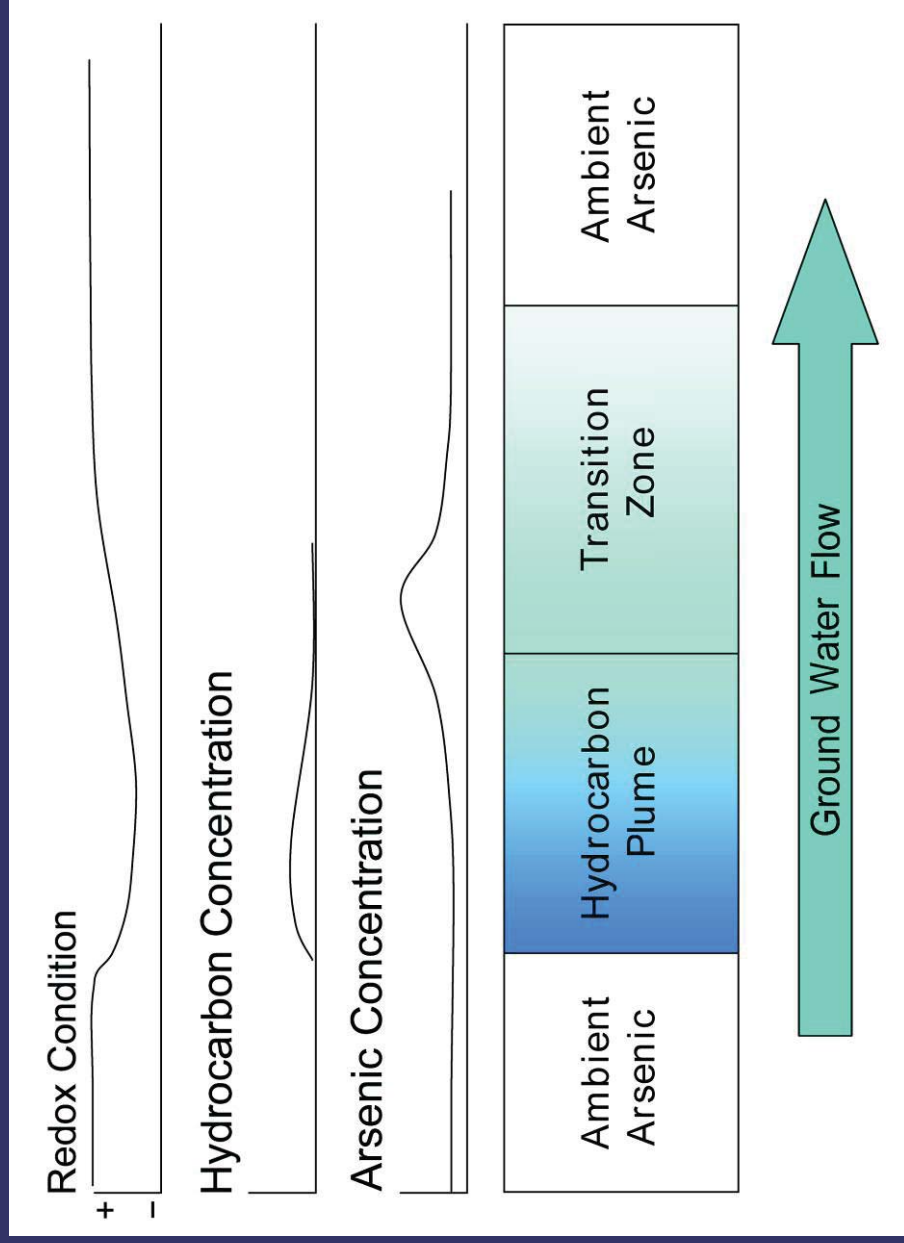
Expanding Plume



Steady State



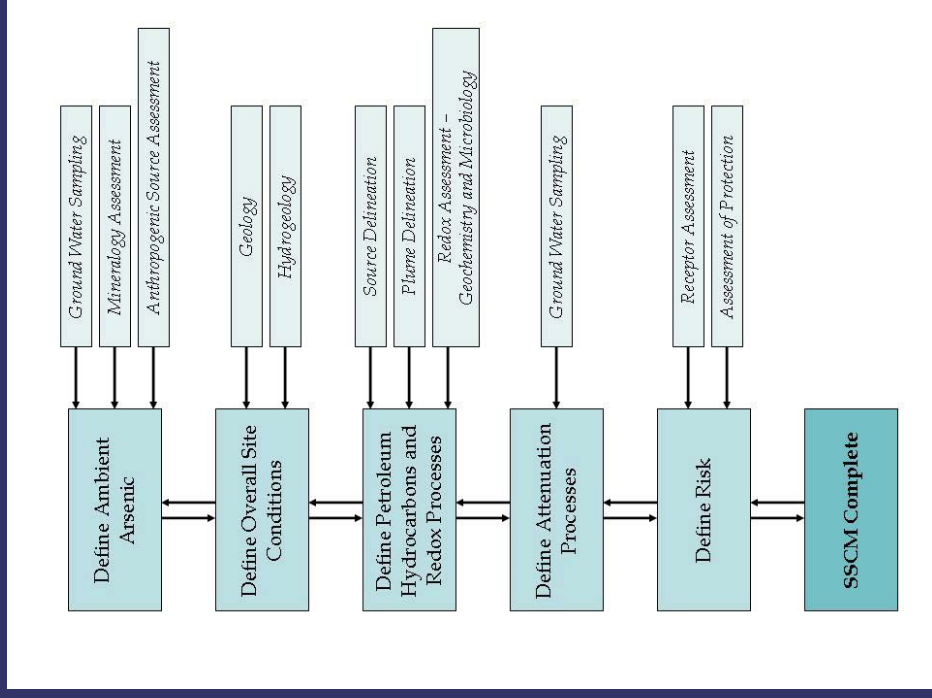
Shrinking Plume



Creating a Site-Specific Model

- **Apply general model of arsenic mobilization within a hydrocarbon plume**
- **Understand the ambient conditions (will be the limit of natural attenuation)**
- **Understand the plume stage**
- **Determine attenuation indicators**
- **Understand risk (mobility → receptors)**

Site-Specific Conceptual Model

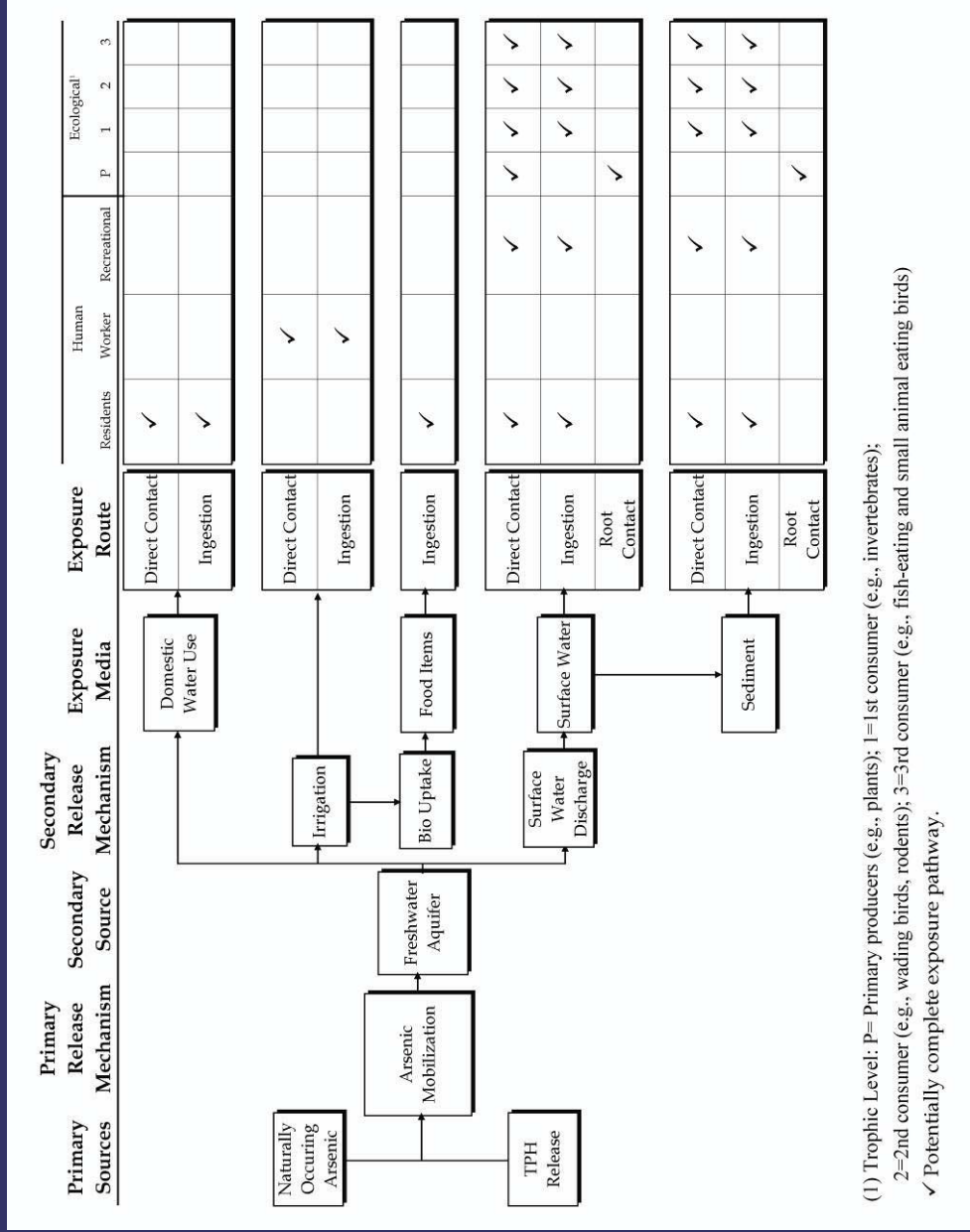


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Exposure Pathway Analysis



(1) Trophic Level: P= Primary producers (e.g., plants); 1=1st consumer (e.g., invertebrates); 2=2nd consumer (e.g., wading birds, rodents); 3=3rd consumer (e.g., fish-eating and small animal eating birds)
 ✓ Potentially complete exposure pathway.



Applying a Site-Specific Model

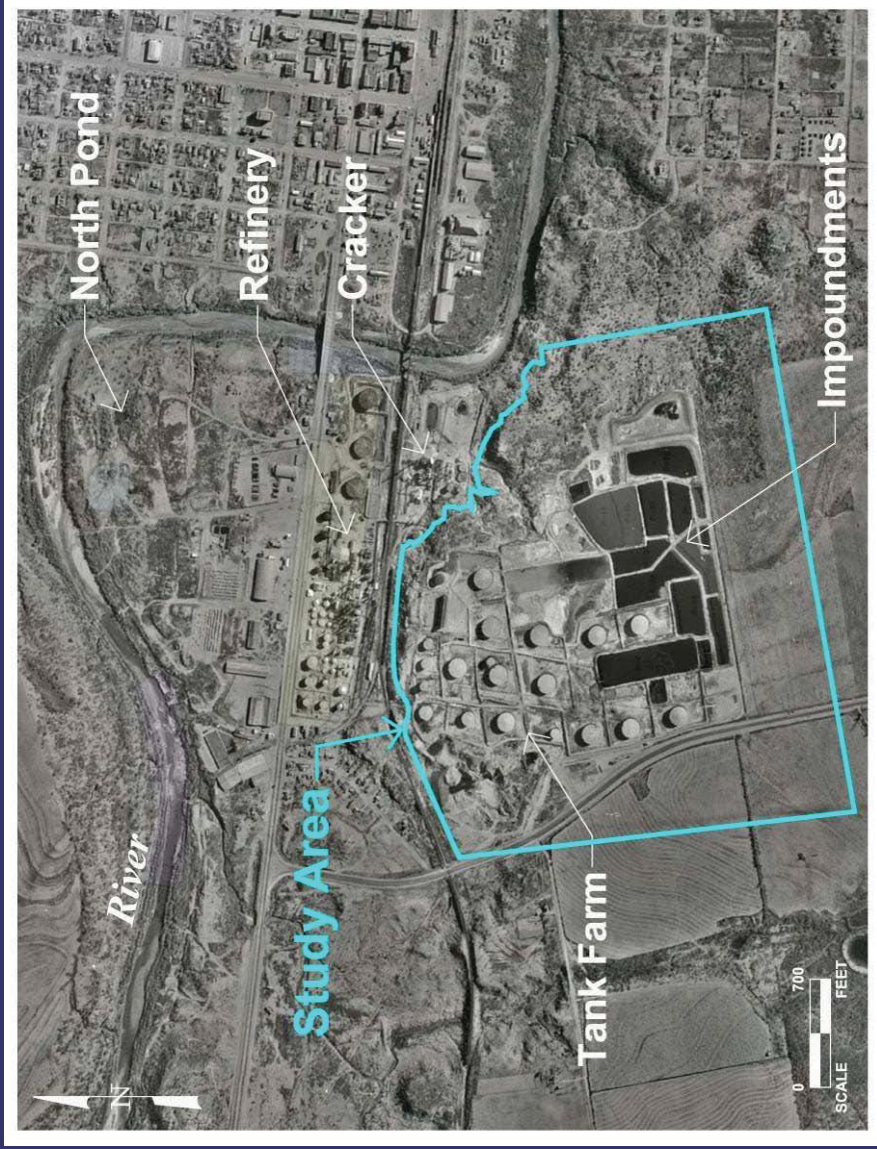
- Understand the ambient conditions (will be the limit of natural attenuation)
- Understand the plume stage
- Determine attenuation indicators
- Understand risk (mobility → receptors)

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Case History

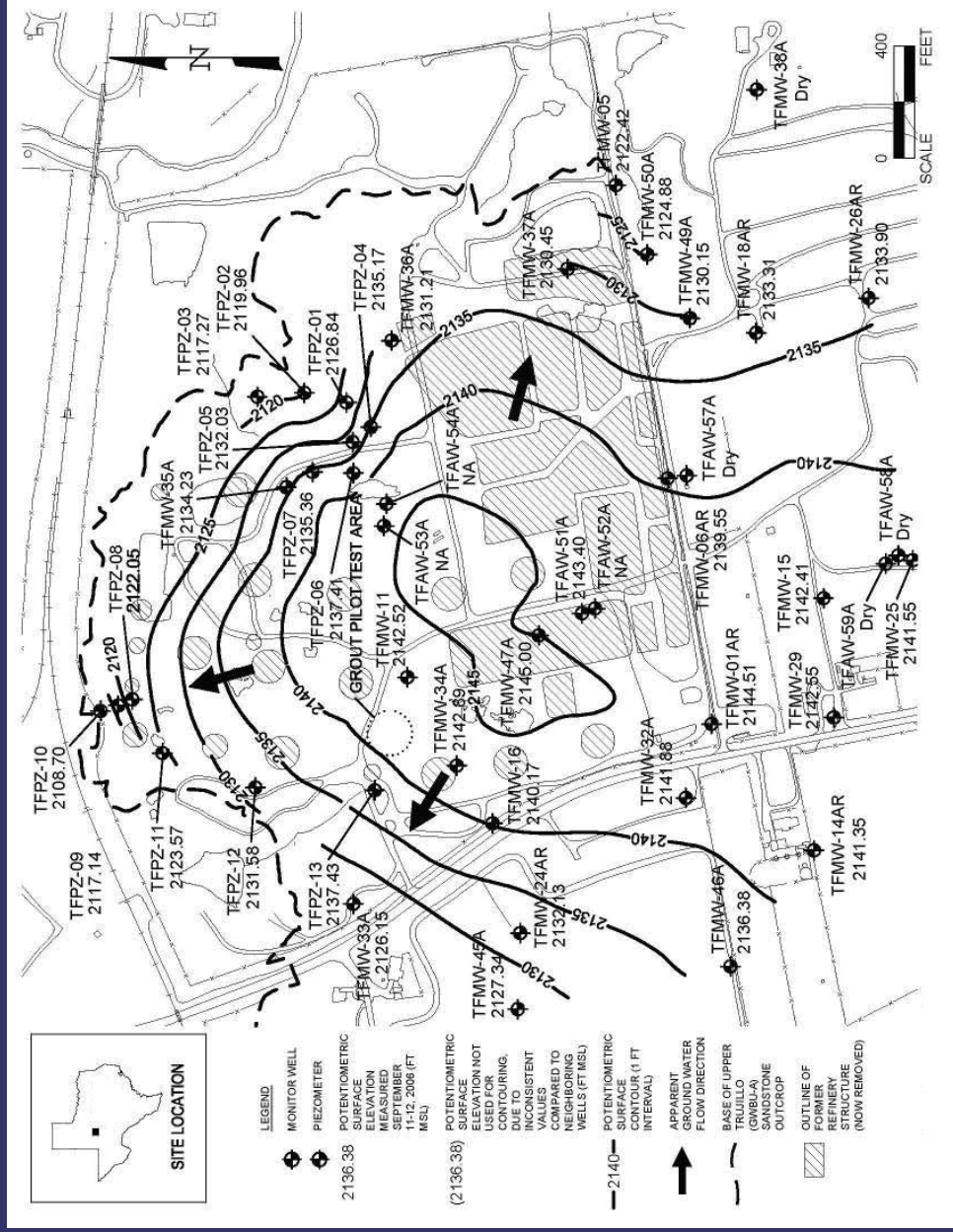


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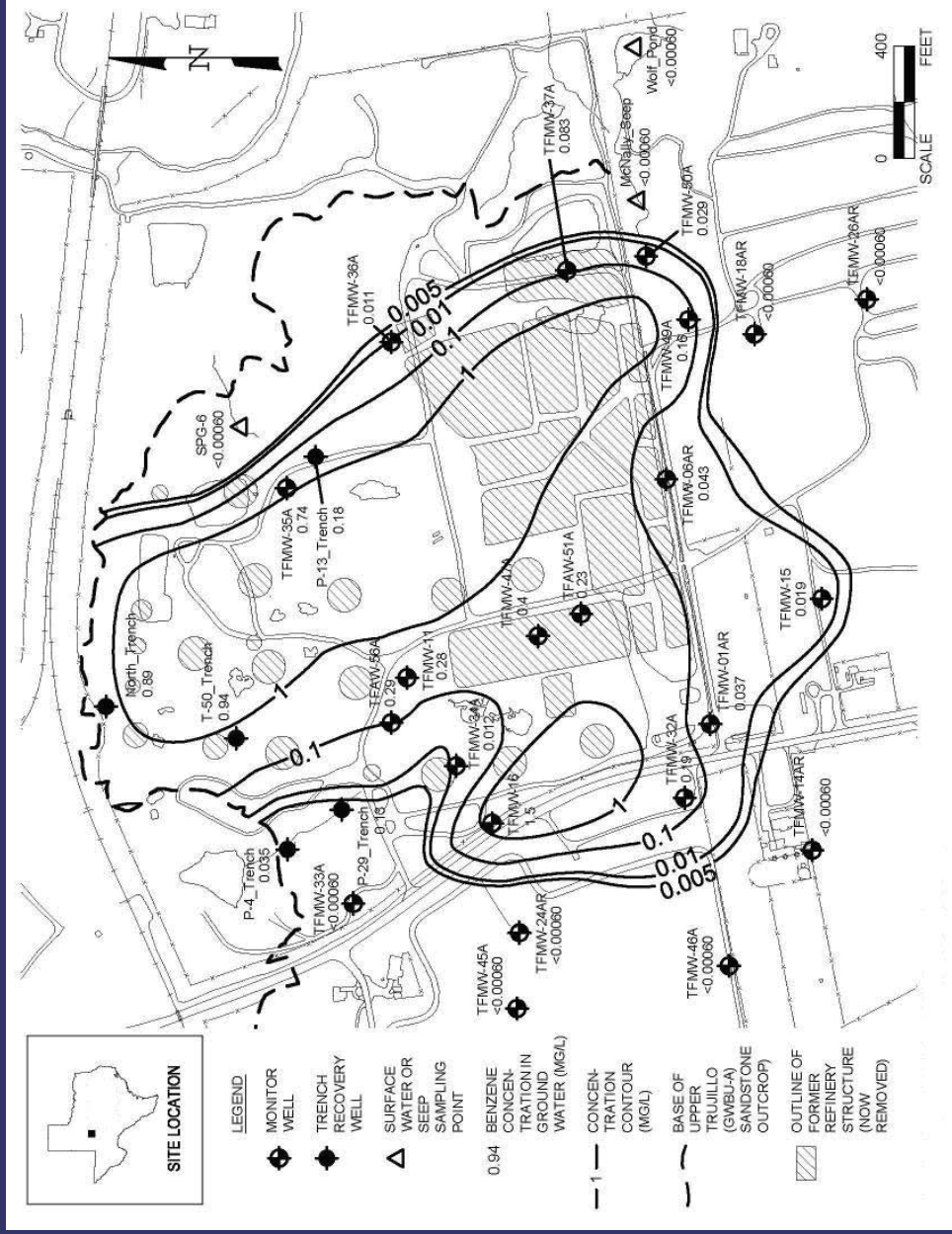
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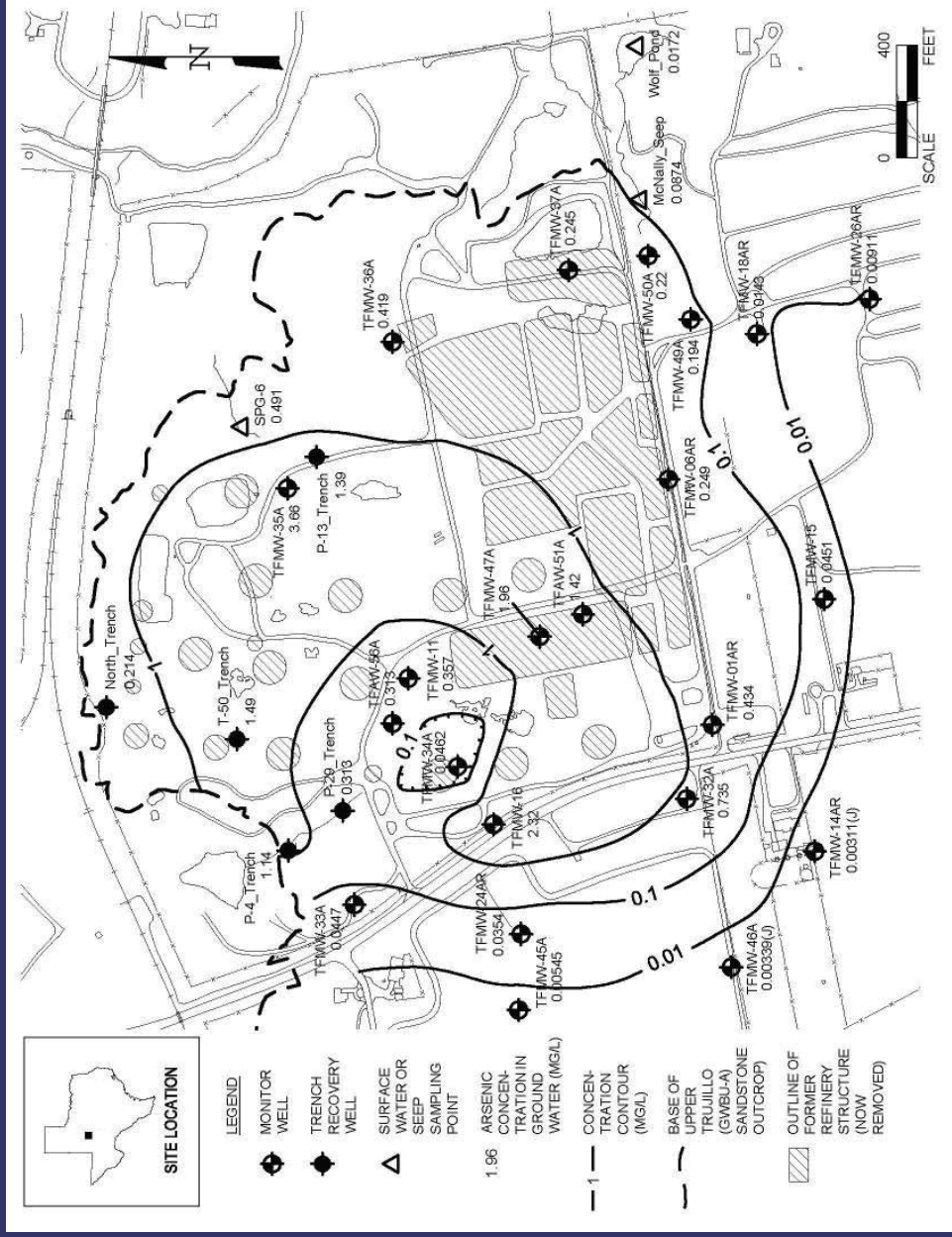
Potentiometric Surface



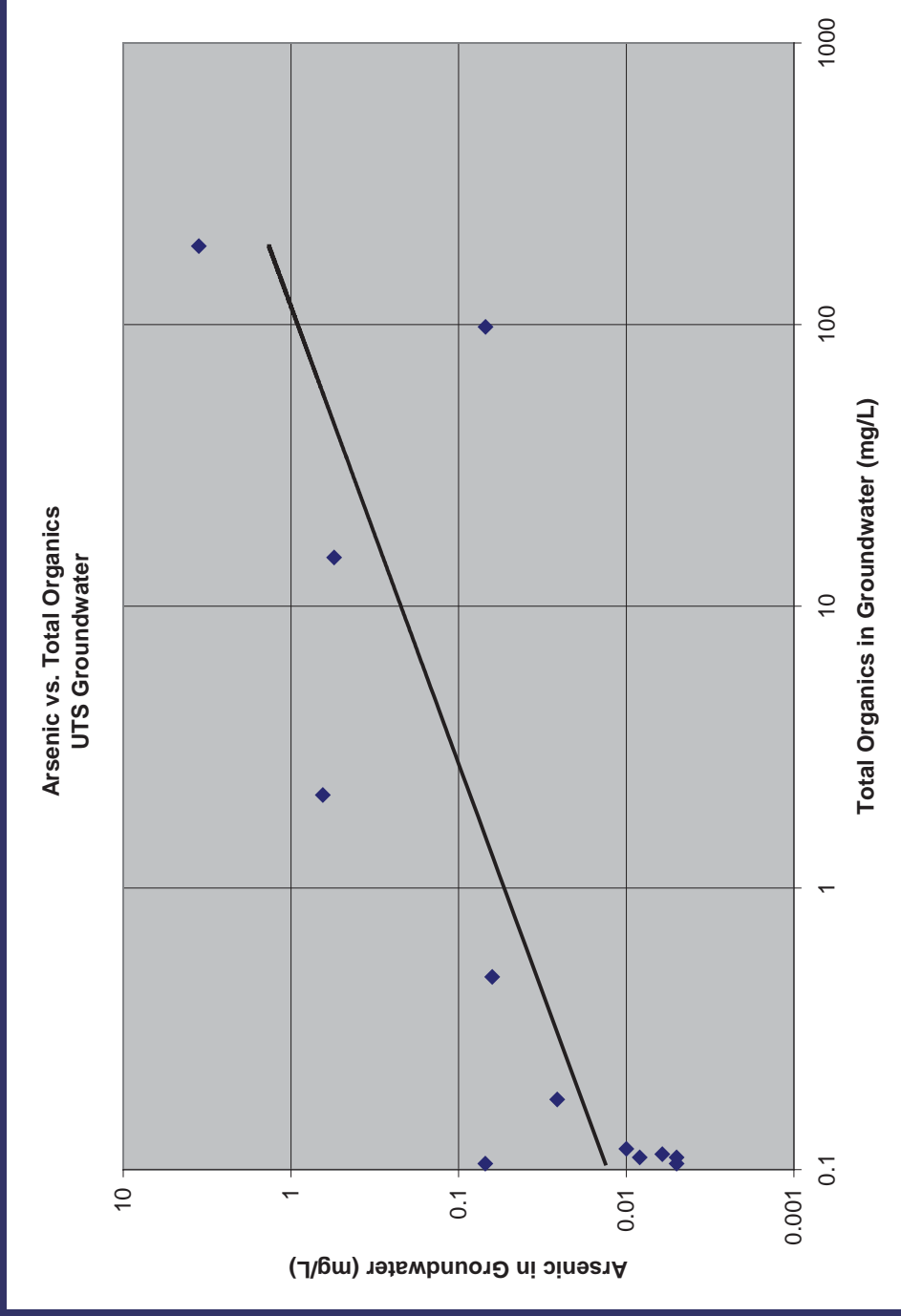
Benzene



Arsenic



Arsenic Versus TOC



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Assessment Tools

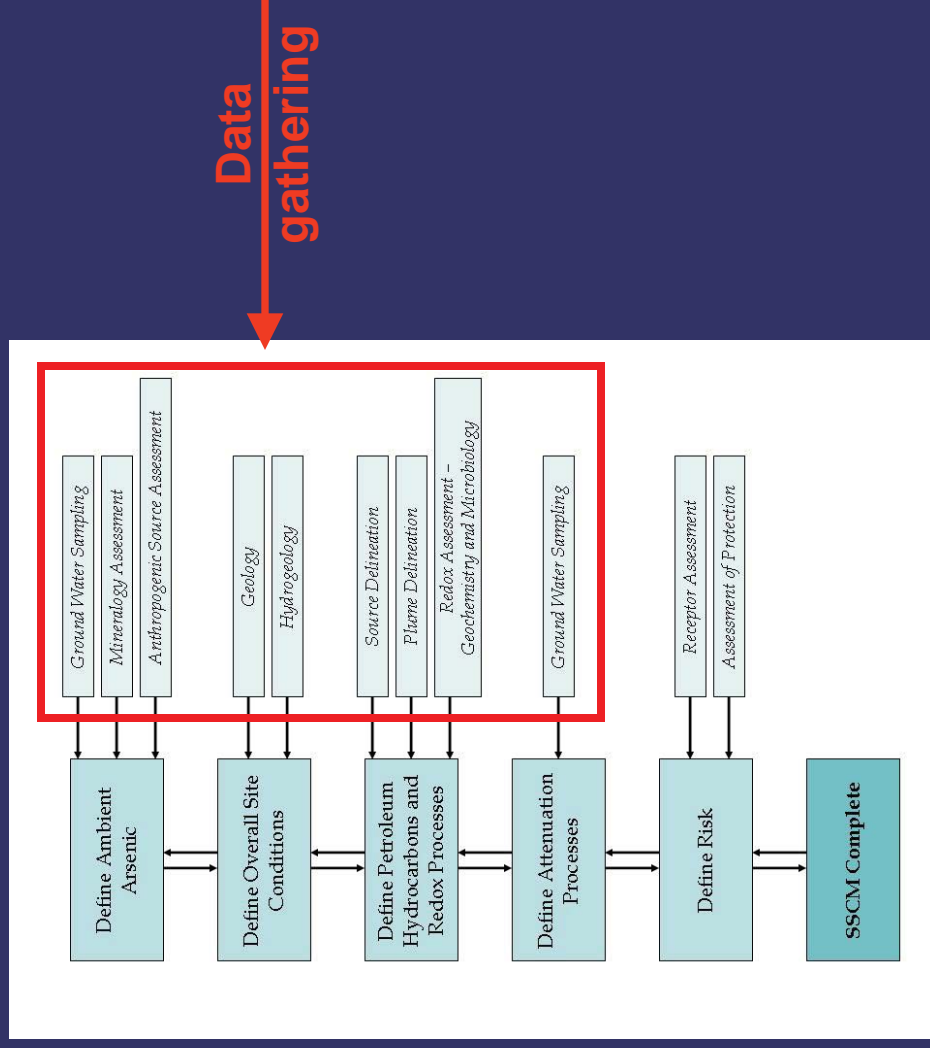


Table 3-1: Key Ground Water Geochemical Parameters for Assessment of Natural Attenuation of Arsenic at Petroleum Hydrocarbon Sites			
Parameter	Approach	Method Reference	Assessment
pH	Flow-through cell or down-hole measurement; pH probe	Follow the pH probe or multi-parameter probe manufacturer's instructions	Master variable - affects arsenic mobility, particularly in terms of surface reaction, sorption
Eh (ORP)	Flow-through cell or down-hole measurement; probe can measure ORP; measure redox pair concentrations for reaction-specific E ⁰	Standard Methods (APHA, 1992) 2580B	ORP provides relative data for assessing redox conditions and can calibrate dissolved oxygen values. If more reaction/mechanism specific redox information is necessary, redox pair concentrations should be assessed (see arsenic speciation or TEA)
Alkalinity	Field titration or colorimetric kit, such as Hach	Hach Alkalinity test kit; Chemetrics; field titration (digital or use Standard Methods (APHA, 1992))	Field alkalinity measurements aid in geochemical facies identification and measure buffering capacity
Dissolved Oxygen (DO)	Low-flow sampling or down-hole measurement; oxygen probes (preferably optical) can be used; field colorimetric kits can be more accurate; proper technique critical	Follow the DO probe/ meter manufacturer's instructions; CHEMetrics DO test kit; refer to Standard Methods (APHA, 1992) 4500	Determines whether ground water conditions are aerobic or anaerobic, which indicates the potential abiotic and biological mechanisms for arsenic fate and transport
Competing Ions	Low-flow sampling; sampled and preserved in the field (reference methods) to analyze for PO ₄ , SeO ₃ , SiO ₄ , HCO ₃	Standard Methods	Competing ions can desorb or displace arsenate and arsenite increasing their mobility. Bicarbonate can be produced biologically



Table 3-1: Key Ground Water Geochemical Parameters for Assessment of Natural Attenuation of Arsenic at Petroleum Hydrocarbon Sites

Parameter	Approach	Method Reference	Assessment
Iron	Dissolved iron can be measured in the field with colorimetric kits; samples can be collected for Fe ²⁺ /Fe ³⁺ species or total dissolved iron (Fe _T can be used as an approximation of Fe ²⁺ for many Eh/pH conditions)	Standard Methods (APHA, 1992) 3500-Fe B; ASTM D 1068-77, Iron in Water, Test Method A; CHEMetrics or HACH kits (8146)	Care must be taken with samples collected for Fe ²⁺ /Fe ³⁺ to preserve speciation; the presence of iron (and its speciation) indicates current redox condition of GWBU, as well as attenuation capacity for sequestration of dissolved arsenic
Arsenic Speciation	Low-flow sampling; sampled and preserved in the field (reference methods) to analyze for total arsenic (As _T), As ³⁺ and As ⁵⁺	EPA Method 1632A; Standard Method (APHA, 1992) 3500-As B or C (Hach Method 8013); total arsenic by SW-846 6020B; see further discussion of methods in USEPA, 2007b	Preservation of arsenic speciation requires special sampling method; various sampling and field preservation methods are available; arsenic speciation provides information specific to redox potential for arsenic as it relates to mobility

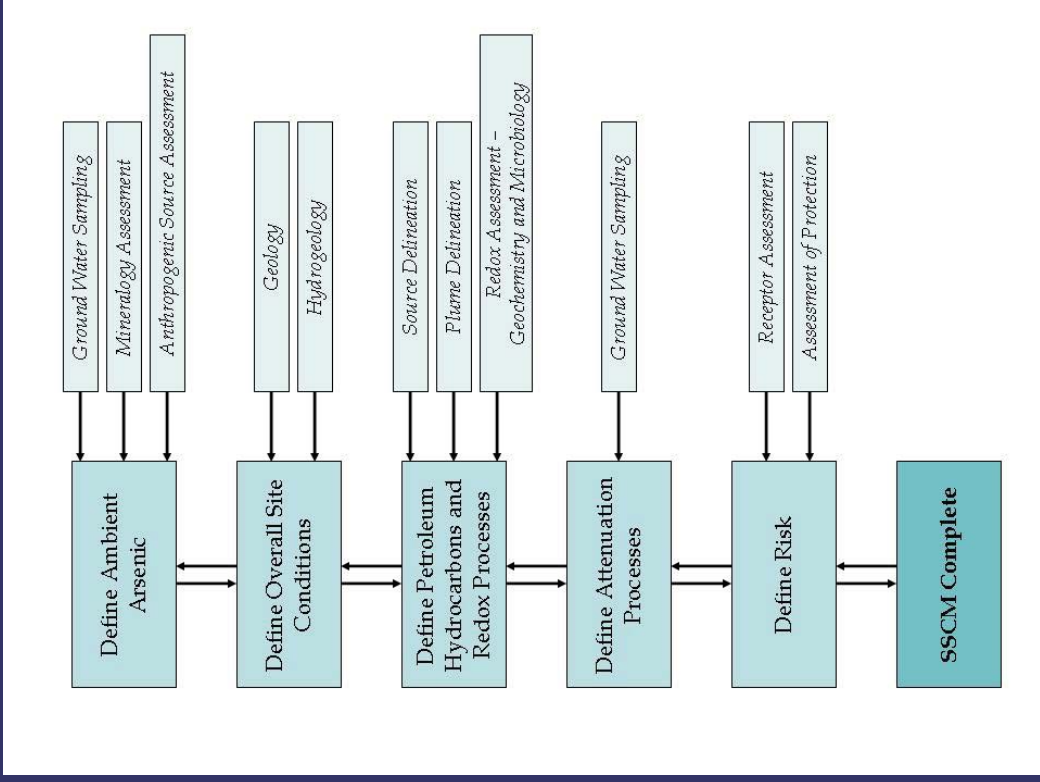


Table 3-2: Key Microbiological Parameters for Assessment of Natural Attenuation of Arsenic at Petroleum Hydrocarbon Sites

Parameter	Approach	Method Reference	Assessment
Alternate Terminal Electron Acceptors (TEA)	Low-flow sampling; alternate TEA include Fe ³⁺ , SO ₄ ²⁻ , NO ₃ ⁻ , and CO ₂ , measured by collecting and preserving samples according to appropriate method; CO ₂ or other gases, should be sampled by gas stripping method for laboratory analysis.	Methods depend on analyte – metals by SW-846 6020B, anions by EPA 300; nitrate by Standard Methods (APHA, 1992) 4500-NO ₃ D (Hach Method 8324) or EPA 353.2/353.3; sulfate by Hach Method 8051; CO ₂ by CHEMetrics Method 4500	Investigate alternate TEA as appropriate for aquifer mineralogy and ambient ground water conditions; TEA concentrations provide information on redox conditions, degradation of hydrocarbon, and attenuation capacity of the aquifer.
Total Organic Carbon	Low-flow sampling; collect sample for laboratory analysis.	SW-846 9060	Total organic carbon indicates presence of energy source for microbial processes.
Molecular Hydrogen, H ₂	Low-flow sampling; headspace equilibrium by “bubble-stripping” method.	Chapelle, et al., 1995, 1997; Weidemeier, 1998	Although difficult to collect, useful in determining specific redox state and primary TEA.



Site-Specific Conceptual Model



Managing Arsenic at Petroleum-impacted Sites

- Petroleum hydrocarbons perturb the existing geochemistry, mobilizing arsenic if it is already present (as a soil mineral or from anthropogenic sources).
- This perturbation of the ambient arsenic geochemistry persists until the soluble hydrocarbons are attenuated and the ambient redox condition is restored.
- Once the hydrocarbons are attenuated and the redox condition is restored, the arsenic will revert to its pre-existing stable geochemistry, which may be above the MCL.
- A site-specific conceptual model includes assessment of the ambient conditions and state of arsenic to determine the effect of petroleum hydrocarbon and the potential for natural attenuation of mobile arsenic.

